

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P345549

Luminaire Tested: **ARCH-L-PA3-160-740-U-T2R**

Issue Date: 10/21/2019

Test Information

Test Method: LM-79-08
Report Number: P345549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATIONS CENTER
Issue Date: 10/21/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-160-740-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 705mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25098 lumens
Efficiency: N/A
Efficacy: 154.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

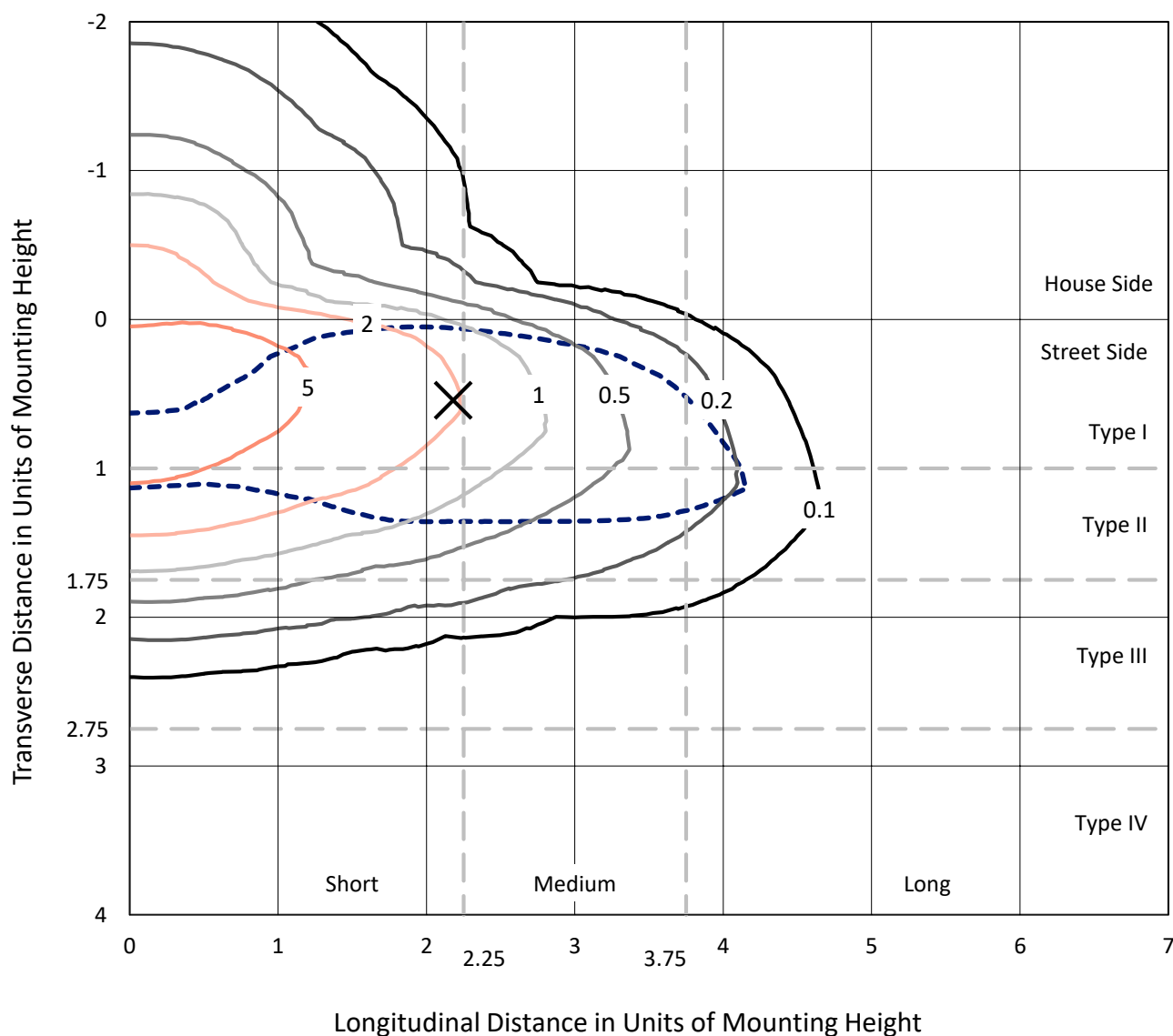
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

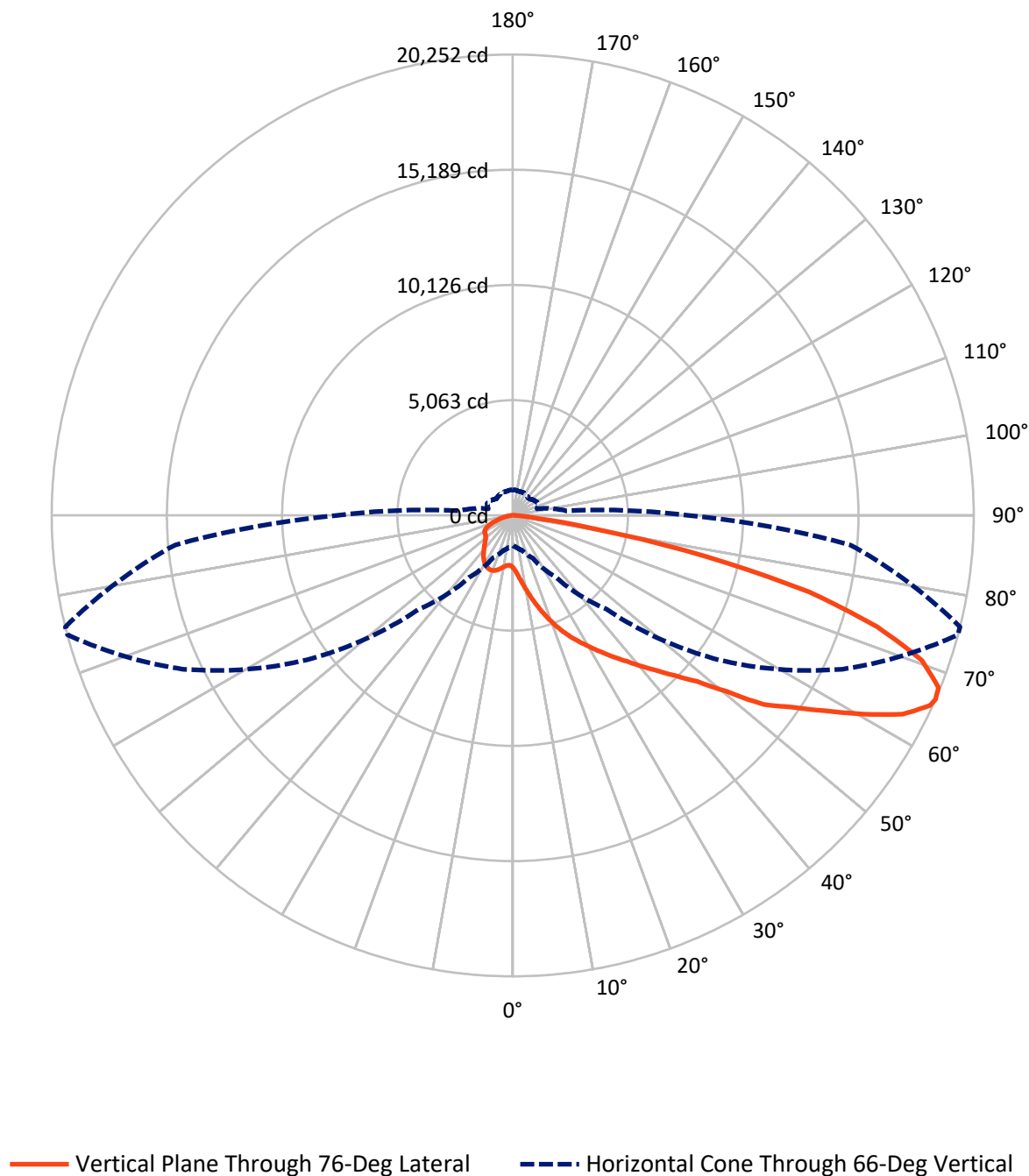


Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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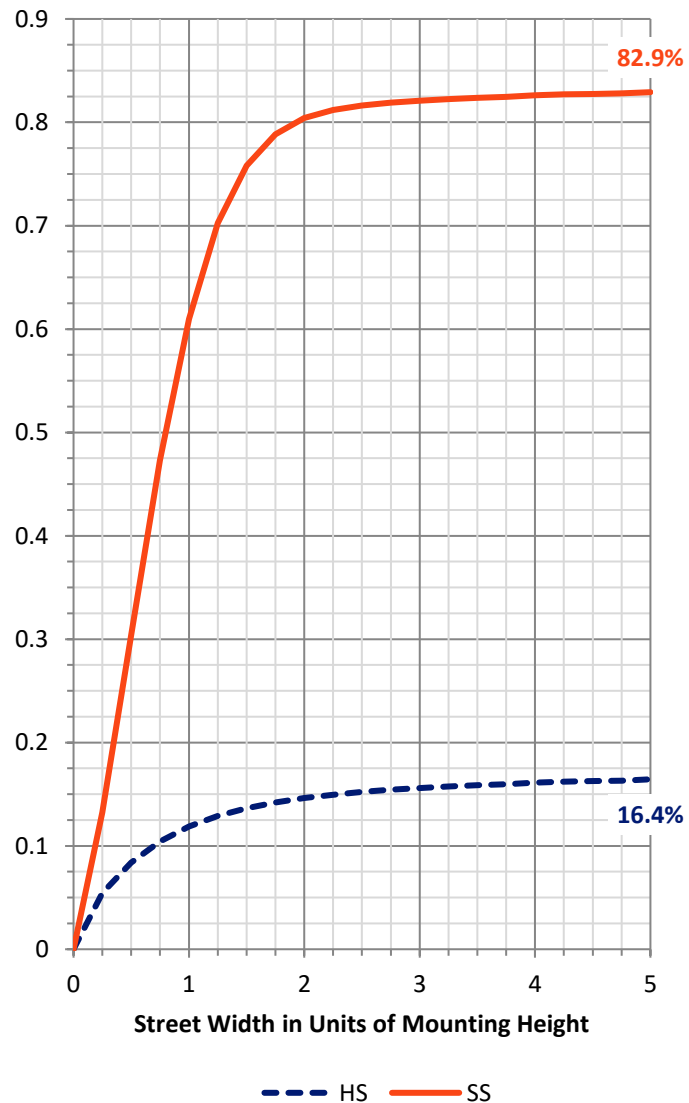
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4223.1	0.0	4223.1
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	20874.9	0.0	20874.9
	% Fixture	83.2	0.0	83.2
Total	Lumens	25098.0	0.0	25098.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.2	1.1
10°-20°	1094.5	4.4
20°-30°	2126.9	8.5
30°-40°	3471.6	13.8
40°-50°	4743.0	18.9
50°-60°	5524.7	22.0
60°-70°	4953.0	19.7
70°-80°	2503.0	10.0
80°-90°	404.2	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	25098.0	100.0
0°-180°	25098.0	100.0

Coefficient of Utilization



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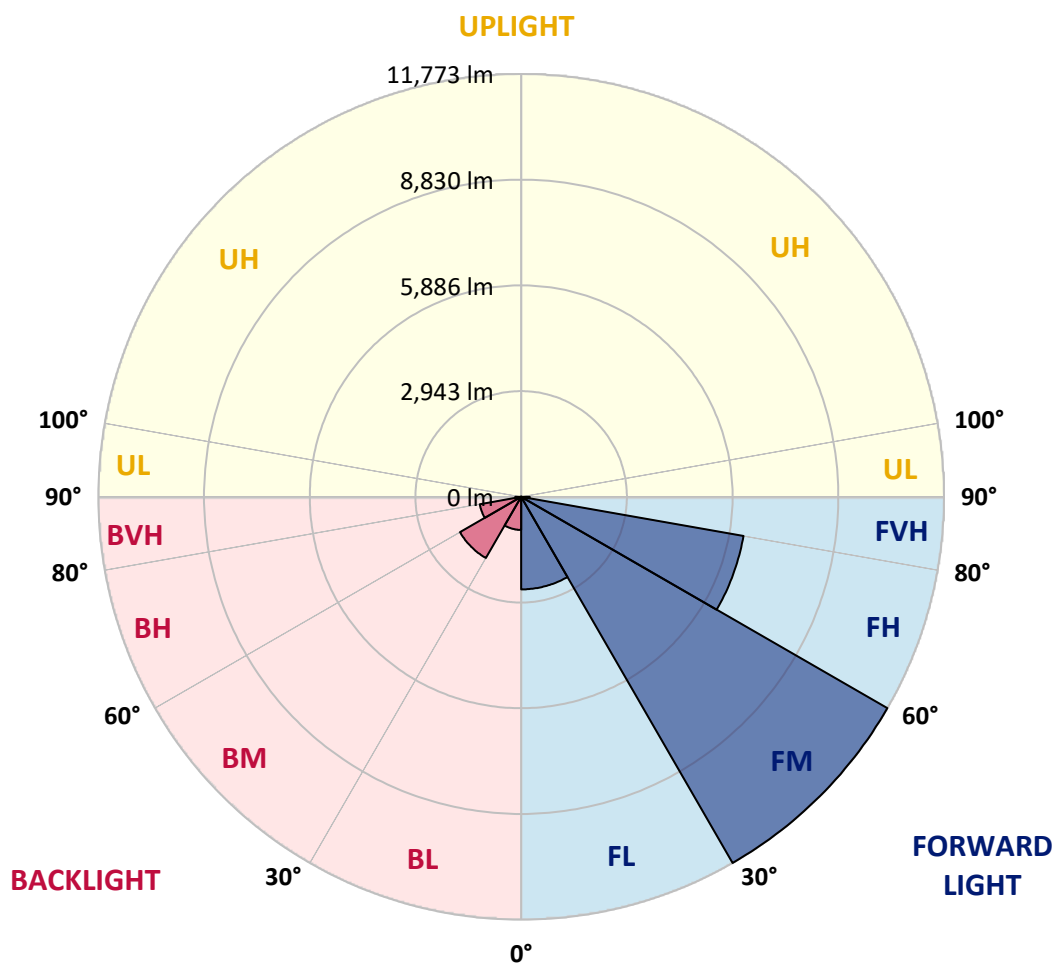
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2577.5	10.3			
FM	(30°-60°)	11772.7	46.9			
FH	(60°-80°)	6286.0	25.0			G3/7500
FVH	(80°-90°)	238.7	1.0			G3/500
BL	(0°-30°)	921.1	3.7	B2/1000		
BM	(30°-60°)	1966.6	7.8	B2/2500		
BH	(60°-80°)	1170.0	4.7	B3/2500		G3/2500
BVH	(80°-90°)	165.5	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0
2.5°	3042.7	2996.7	2992.4	2925.1	2909.7	2781.1	2686.5	2587.7	2475.2	2453.1	2364.4
5°	3908.4	3904.1	3845.3	3735.4	3649.3	3429.5	3212.2	2982.2	2730.0	2689.1	2489.7
7.5°	4687.1	4680.3	4635.1	4516.7	4392.3	4122.2	3812.1	3459.3	3050.3	2989.8	2659.2
10°	5278.4	5275.9	5260.6	5173.6	5068.0	4809.0	4466.4	3985.0	3422.7	3340.0	2871.4
12.5°	5735.1	5740.3	5750.5	5719.8	5669.5	5448.9	5097.8	4542.3	3819.7	3737.9	3107.4
15°	6044.4	6059.8	6112.6	6156.1	6182.5	6047.0	5707.0	5112.3	4264.5	4166.5	3369.0
17.5°	6200.4	6217.4	6308.6	6439.8	6560.8	6547.1	6277.0	5655.9	4691.4	4596.8	3650.2
20°	6335.0	6347.8	6450.0	6607.6	6821.5	6916.1	6764.4	6179.1	5159.2	5046.7	3948.4
22.5°	6725.2	6741.4	6772.1	6861.6	7050.7	7224.5	7151.3	6674.1	5587.7	5482.9	4231.3
25°	7478.4	7498.0	7431.6	7355.7	7391.5	7512.5	7526.2	7125.7	6022.3	5903.9	4535.5
27.5°	8385.9	8414.0	8300.7	8105.5	7935.1	7888.3	7872.1	7495.5	6437.2	6300.1	4836.2
30°	9274.6	9323.1	9175.7	8922.7	8610.0	8390.1	8227.4	7857.6	6846.2	6715.0	5120.0
32.5°	10142.8	10123.2	9909.3	9662.2	9295.9	9020.6	8627.0	8246.1	7306.3	7155.5	5402.0
35°	10737.5	10744.3	10545.8	10252.7	9903.4	9692.1	9162.1	8665.3	7775.8	7636.9	5722.4
37.5°	11243.6	11212.1	10987.2	10713.7	10412.9	10322.6	9788.3	9127.2	8284.5	8132.8	6063.2
40°	11412.4	11375.7	11228.3	11031.5	10790.4	10782.7	10479.4	9650.3	8859.6	8709.7	6447.5
42.5°	11310.1	11263.2	11202.7	11149.1	11074.9	11109.0	11128.6	10263.8	9491.8	9324.0	6892.2
45°	10932.6	10861.9	10904.5	11021.3	11182.3	11374.9	11714.8	10942.9	10199.9	10059.3	7414.5
47.5°	10352.4	10288.5	10421.4	10671.1	11109.0	11596.4	12269.5	11692.7	11045.1	10905.4	8158.4
50°	9536.1	9554.9	9744.9	10199.0	10861.1	11698.6	12952.9	12685.3	12273.8	12143.4	9173.2
52.5°	8196.7	8200.1	8735.2	9480.8	10421.4	11645.8	13332.0	13954.0	13951.5	13793.8	10139.4
55°	6952.7	7028.6	7452.0	8443.0	9709.1	11434.5	13597.0	14570.9	15053.2	14868.3	11040.0
57.5°	5737.7	5782.0	6183.3	7178.5	8692.6	10871.3	13868.8	15311.3	16322.7	16206.0	12159.6
60°	4355.7	4423.8	4838.8	5758.2	7392.4	9871.8	13894.4	16084.1	17840.2	17722.6	13409.6
62.5°	2827.1	2944.7	3333.2	4194.6	5819.5	8434.4	13301.3	16589.4	19278.5	19236.7	14518.9
65°	1624.9	1713.5	1983.6	2648.2	4014.9	6629.8	11891.2	16395.1	20163.8	20139.9	14933.9
66°	1327.5	1382.9	1589.9	2069.6	3312.8	5822.1	11071.5	15985.3	20251.5	20252.4	14886.2
67.5°	1061.7	1086.4	1179.2	1481.7	2444.5	4614.7	9606.9	15081.3	20142.5	20172.3	14578.6
70°	878.5	891.2	920.2	993.5	1334.3	2782.8	6819.0	12732.2	19047.6	19070.6	13378.0
72.5°	788.1	795.8	806.9	817.1	941.5	1555.0	4164.8	10185.4	16700.2	16730.0	11548.7
75°	714.0	718.3	716.6	717.4	789.8	990.9	2152.3	7604.5	13503.3	13443.6	8846.8
77.5°	627.1	631.4	622.8	624.6	698.7	761.7	1071.0	5323.6	9112.7	8691.8	4984.5
80°	530.0	533.4	530.0	535.9	608.4	575.1	622.8	2995.0	4029.3	3811.2	1772.3
82.5°	400.5	414.9	425.2	449.0	501.0	409.0	416.7	1166.5	1227.0	1168.2	543.6
85°	175.5	213.9	320.4	343.4	376.6	245.4	273.5	475.4	499.3	484.0	197.7
87.5°	46.0	50.3	158.5	199.4	208.8	110.8	142.3	216.4	228.3	216.4	65.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0
2.5°	2317.6	2275.8	2200.8	2134.4	2084.1	2050.0	2015.9	1998.9	1988.7	1978.5	1980.2
5°	2391.7	2307.4	2178.7	2087.5	2036.4	2004.0	1987.0	1980.2	1975.9	1965.7	1965.7
7.5°	2503.3	2384.0	2206.8	2113.1	2073.0	2048.3	2038.1	2034.7	2029.6	2017.7	2019.4
10°	2643.9	2476.9	2265.6	2174.4	2137.8	2110.5	2096.0	2090.9	2081.6	2067.9	2069.6
12.5°	2809.2	2591.9	2343.1	2247.7	2203.4	2166.8	2142.9	2128.4	2112.2	2094.3	2095.2
15°	2989.8	2717.2	2426.6	2313.3	2252.8	2201.7	2163.4	2138.6	2113.1	2090.9	2090.1
17.5°	3173.0	2838.2	2490.5	2349.1	2267.3	2200.0	2148.0	2109.7	2078.1	2050.9	2048.3
20°	3370.7	2947.2	2526.3	2345.7	2240.0	2159.9	2090.9	2043.2	2008.3	1981.0	1976.8
22.5°	3571.8	3049.5	2532.3	2310.8	2179.5	2081.6	2009.1	1956.3	1920.5	1892.4	1882.2
25°	3755.8	3128.7	2507.6	2243.4	2095.2	1989.5	1918.8	1865.1	1836.2	1802.9	1792.7
27.5°	3923.7	3184.1	2458.2	2157.4	2000.6	1896.7	1830.2	1784.2	1752.7	1727.1	1718.6
30°	4074.5	3213.9	2377.2	2055.1	1903.5	1808.9	1752.7	1721.1	1693.9	1661.5	1655.5
32.5°	4217.6	3213.9	2273.3	1943.5	1807.2	1731.4	1698.1	1678.5	1647.9	1616.3	1607.8
35°	4360.8	3194.3	2150.6	1826.8	1718.6	1676.0	1674.3	1651.3	1604.4	1561.8	1550.7
37.5°	4511.6	3154.3	2012.5	1717.7	1646.2	1651.3	1665.8	1614.6	1548.2	1487.7	1471.5
40°	4682.0	3098.9	1869.4	1623.2	1585.7	1640.2	1642.8	1561.8	1432.3	1376.9	1362.4
42.5°	4882.2	3043.5	1736.5	1539.7	1537.9	1607.0	1599.3	1447.6	1370.1	1342.0	1334.3
45°	5145.5	3012.0	1610.4	1460.4	1500.5	1553.3	1525.2	1384.6	1352.2	1336.0	1329.2
47.5°	5560.5	3028.2	1494.5	1397.4	1463.0	1499.6	1387.1	1359.0	1336.0	1316.4	1309.6
50°	6080.2	3018.8	1400.8	1353.9	1420.4	1443.4	1324.9	1325.8	1313.9	1291.7	1281.5
52.5°	6471.3	2945.5	1340.3	1329.2	1382.9	1343.7	1285.7	1293.4	1287.4	1255.1	1244.0
55°	6848.8	2882.5	1309.6	1319.8	1355.6	1219.3	1239.7	1258.5	1252.5	1221.0	1215.9
57.5°	7318.3	2870.6	1290.9	1322.4	1332.6	1157.1	1195.4	1220.1	1215.9	1202.2	1199.7
60°	7893.4	2874.0	1273.8	1326.6	1307.0	1111.1	1153.7	1185.2	1187.8	1185.2	1183.5
62.5°	8209.5	2781.1	1231.2	1314.7	1261.9	1071.0	1110.2	1156.2	1157.1	1162.2	1161.3
65°	7941.1	2503.3	1152.0	1273.0	1186.1	1037.8	1072.7	1123.0	1110.2	1133.2	1133.2
66°	7680.4	2343.1	1112.8	1245.7	1153.7	1025.0	1060.8	1106.0	1089.8	1121.3	1121.3
67.5°	7147.8	2073.0	1042.1	1187.8	1107.7	1007.1	1047.2	1077.8	1055.7	1102.6	1099.1
70°	6174.8	1603.6	899.8	1056.5	1031.8	980.7	1028.4	1021.6	989.2	1060.8	1047.2
72.5°	5206.0	1218.4	722.5	884.4	916.8	947.5	1002.0	950.0	909.1	959.4	929.6
75°	4039.6	916.0	570.9	687.6	774.5	895.5	970.5	867.4	808.6	803.5	787.3
77.5°	2183.8	628.8	452.4	524.9	615.2	830.7	949.2	778.8	690.2	669.7	656.9
80°	864.8	409.0	328.9	397.9	430.3	737.0	898.1	675.7	569.2	548.7	529.1
82.5°	357.0	242.0	212.2	266.7	280.3	630.5	806.0	553.8	439.7	608.4	645.9
85°	153.4	132.9	126.1	138.0	158.5	442.2	641.6	422.6	474.6	423.5	336.6
87.5°	46.0	56.2	53.7	52.8	57.9	105.7	341.7	235.2	348.5	132.1	98.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)