

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: P319532

Luminaire Tested: **GAN-SA8C-830-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319532
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44129 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 445
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: 24 FT



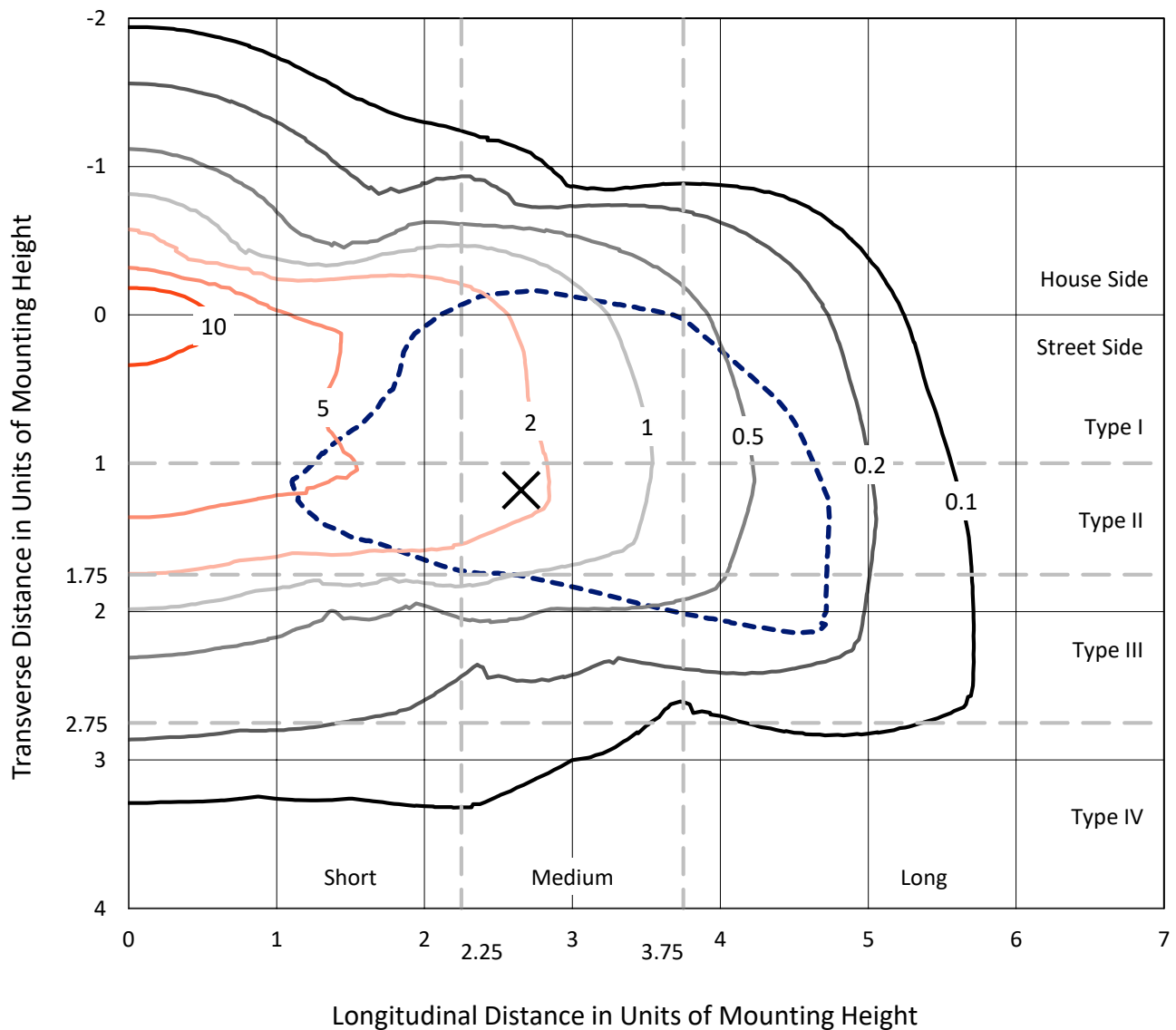
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Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd

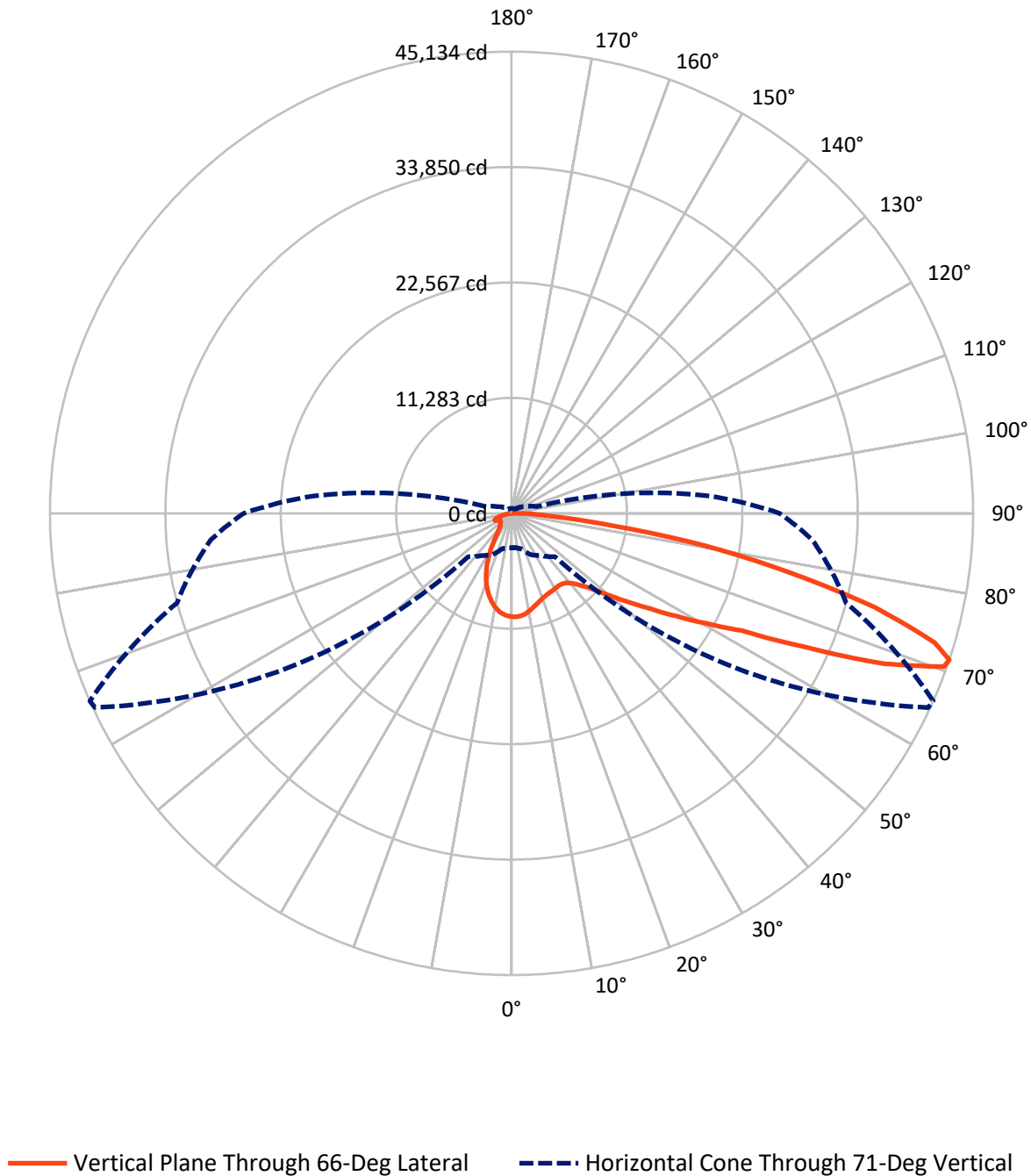


Based on 25 foot mounting height. Maximum calculated value = 16.2 fc

Type III - Medium - N/A

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Luminous Intensity Polar Plot



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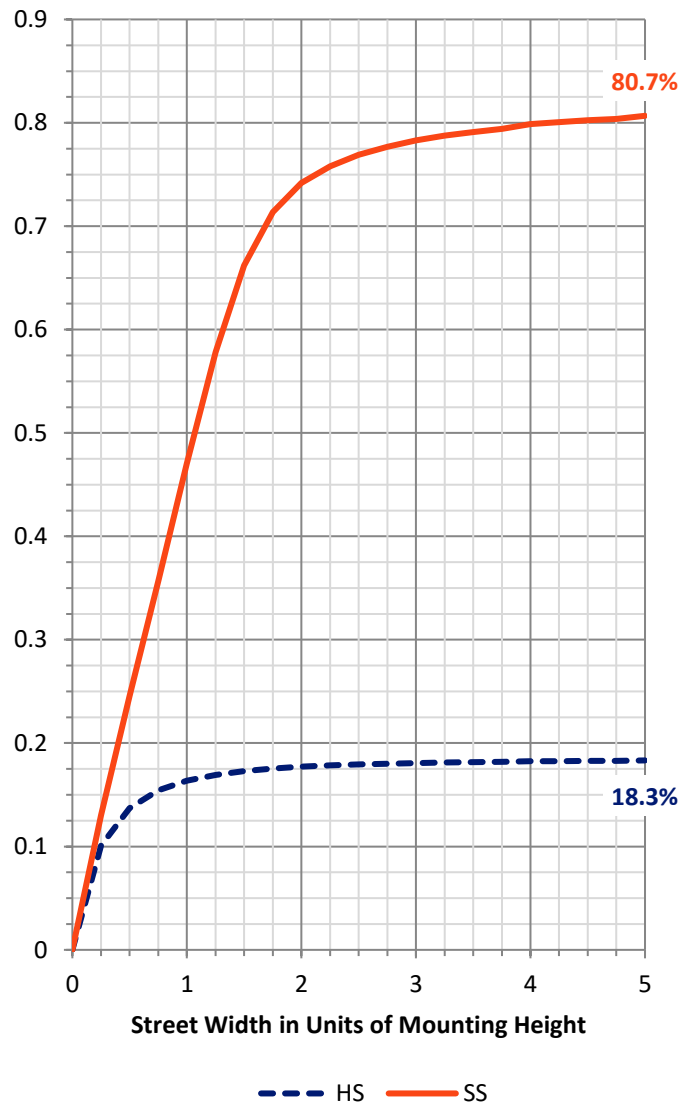
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8178.3	0.0	8178.3
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	35950.7	0.0	35950.7
	% Fixture	81.5	0.0	81.5
Total	Lumens	44129.0	0.0	44129.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	889.8	2.0
10°-20°	2134.2	4.8
20°-30°	2866.8	6.5
30°-40°	3771.2	8.5
40°-50°	5486.1	12.4
50°-60°	8569.9	19.4
60°-70°	10735.2	24.3
70°-80°	8188.6	18.6
80°-90°	1487.0	3.4
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°	44129.0	100.0
0°-180°	44129.0	100.0

Coefficient of Utilization



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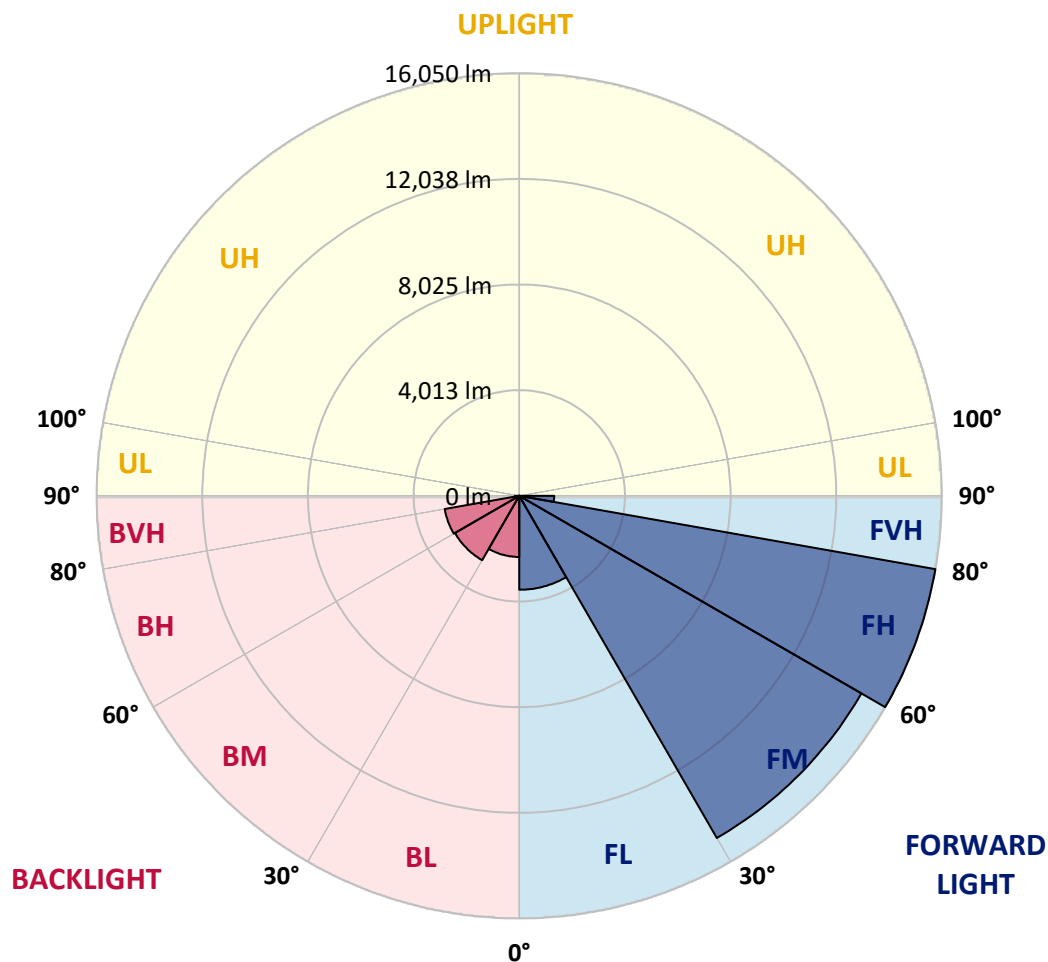
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3568.4	8.1			
FM	(30°-60°)	15006.1	34.0			
FH	(60°-80°)	16050.2	36.4			G5
FVH	(80°-90°)	1326.0	3.0			G5
BL	(0°-30°)	2322.4	5.3	B3/2500		
BM	(30°-60°)	2821.3	6.4	B3/5000		
BH	(60°-80°)	2873.7	6.5	B4/5000		G4/5000
BVH	(80°-90°)	161.0	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	10109.1	10109.1	10109.1	10109.1	10109.1	10109.1	10109.1	10109.1	10109.1	10109.1	10109.1
2.5°	9921.7	9906.5	9952.2	9999.4	10017.7	10048.2	10093.9	10119.8	10118.2	10122.8	10107.6
5°	9263.5	9243.7	9335.1	9409.8	9553.0	9714.5	9911.0	10051.2	10054.2	10133.5	10154.8
7.5°	8640.3	8626.6	8731.8	8852.1	9018.2	9265.0	9583.5	9885.1	9903.4	10118.2	10192.9
10°	8140.6	8137.6	8239.6	8370.7	8564.2	8839.9	9205.6	9647.4	9674.9	10045.1	10199.0
12.5°	7750.6	7756.7	7845.0	7994.3	8198.5	8486.5	8882.6	9380.8	9425.0	9929.3	10163.9
15°	7462.6	7487.0	7558.6	7709.4	7910.5	8203.1	8609.9	9134.0	9201.0	9799.8	10144.1
17.5°	7298.1	7325.5	7375.8	7500.7	7689.6	7971.5	8357.0	8931.4	8992.3	9700.8	10145.7
20°	7249.3	7272.2	7301.1	7377.3	7537.3	7793.2	8157.4	8748.5	8814.0	9621.5	10160.9
22.5°	7345.3	7362.0	7365.1	7359.0	7456.5	7665.2	8012.6	8614.4	8684.5	9569.7	10171.6
25°	7551.0	7573.8	7557.1	7500.7	7468.7	7596.7	7938.0	8526.1	8596.2	9531.7	10150.2
27.5°	7860.3	7863.3	7849.6	7776.5	7625.6	7604.3	7915.1	8474.3	8541.3	9487.5	10106.1
30°	8280.8	8300.6	8276.2	8177.2	7930.3	7726.2	7942.5	8424.0	8484.9	9431.1	10034.4
32.5°	8772.9	8821.7	8820.1	8716.5	8363.1	7998.9	8055.3	8393.5	8440.8	9371.7	9947.6
35°	9283.3	9350.3	9475.3	9431.1	8993.8	8430.1	8271.6	8442.3	8474.3	9364.1	9886.7
37.5°	9813.5	9880.6	10138.0	10256.9	9745.0	9047.1	8612.9	8614.4	8629.7	9457.0	9882.1
40°	10368.1	10439.7	10826.7	11136.0	10718.5	9828.8	9162.9	8974.0	8957.3	9685.5	9972.0
42.5°	11145.1	11209.1	11673.8	12068.5	11798.8	10829.8	9923.2	9528.6	9493.6	10133.5	10259.9
45°	12127.9	12182.7	12676.4	13098.4	12959.8	11972.5	10878.5	10291.9	10285.8	10880.0	10843.5
47.5°	13296.5	13339.1	13782.5	14190.8	14241.1	13287.3	12079.1	11469.7	11370.6	11903.9	11747.0
50°	14513.8	14561.1	14862.7	15301.5	15674.8	15047.1	13624.0	12912.5	12780.0	13255.3	13026.8
52.5°	15319.8	15382.3	15644.3	16200.5	17286.8	16976.0	15450.8	14661.6	14460.5	14893.2	14718.0
55°	14960.2	15100.4	15501.1	16392.4	18575.8	19922.6	17704.3	16701.7	16474.7	16834.3	16730.7
57.5°	13325.4	13517.4	14064.4	15440.2	18757.1	22518.8	21111.0	19104.4	18944.5	18840.9	18888.1
60°	10337.6	10522.0	11200.0	12993.3	17494.0	24414.2	26238.0	22066.3	21834.7	20855.1	20897.7
62.5°	7316.3	7223.4	7688.1	8999.9	14215.2	24636.6	32071.8	26027.7	25265.9	22982.0	22794.6
65°	5579.4	5558.1	5766.8	6184.3	8609.9	21974.9	35547.2	32685.8	31495.9	25483.8	25041.9
67.5°	4584.5	4546.4	4752.1	5360.0	5544.4	14177.1	35623.3	40410.5	39241.9	28598.0	27641.2
70°	3769.4	3726.7	3918.7	4703.4	5123.9	7189.9	29981.4	44934.1	44871.6	32541.1	29603.6
71°	3379.3	3348.9	3578.9	4450.4	5034.0	5992.3	25886.0	44946.3	45133.7	33875.8	29487.8
72.5°	2751.6	2762.3	3006.1	3961.4	4966.9	5291.5	19025.2	42851.3	43247.4	35148.0	28435.0
75°	1828.3	1837.5	2157.4	3047.2	4816.1	5177.2	10456.5	35957.0	36685.3	34386.2	25946.9
77.5°	1228.0	1225.0	1442.9	2090.4	4196.0	5177.2	6131.0	26893.1	27693.0	27360.8	20003.4
80°	845.6	839.5	993.4	1442.9	3176.7	5239.7	4739.9	18847.0	19089.2	14775.9	8129.9
82.5°	518.0	522.6	649.1	1019.3	2162.0	4715.5	4474.8	10276.7	10013.1	4144.2	2031.0
85°	297.1	295.6	414.4	690.2	1388.0	3979.6	4363.6	4423.0	4057.4	1247.8	734.4
87.5°	106.7	114.3	222.4	382.4	795.3	2771.4	3702.4	2300.6	2073.6	563.7	332.1
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°	10109.1	10109.1	10109.1	10109.1	10109.1	10109.1	10109.1	10109.1	10109.1	10109.1	10109.1
2.5°	10096.9	10106.1	10095.4	10034.4	9982.6	9898.8	9851.6	9786.1	9766.3	9757.1	9781.5
5°	10135.0	10138.0	10048.2	9888.2	9708.4	9496.6	9344.3	9156.8	9068.5	9030.4	9054.8
7.5°	10170.0	10156.3	9959.8	9653.5	9321.4	8952.7	8625.1	8325.0	8149.7	8078.1	8084.2
10°	10174.6	10116.7	9801.3	9327.5	8812.5	8271.6	7768.8	7305.7	7013.1	6822.7	6880.6
12.5°	10127.4	10029.9	9568.2	8905.5	8190.9	7453.5	6773.9	6079.2	5661.7	5468.2	5474.3
15°	10090.8	9914.1	9281.8	8408.8	7448.9	6472.3	5544.4	4727.7	4282.8	4084.8	3991.8
17.5°	10060.3	9789.1	8949.6	7849.6	6572.8	5334.1	4218.9	3490.6	3246.8	3188.9	3164.5
20°	10017.7	9656.6	8579.4	7202.1	5574.9	4060.4	3080.7	2721.2	2722.7	2789.7	2798.9
22.5°	9958.3	9505.8	8184.8	6475.3	4503.8	2957.3	2414.9	2311.3	2416.4	2544.4	2567.3
25°	9869.9	9327.5	7746.0	5672.4	3434.2	2273.2	2063.0	2058.4	2186.4	2320.4	2340.3
27.5°	9745.0	9094.4	7258.4	4810.0	2530.7	1931.9	1848.1	1880.1	1974.6	2072.1	2079.7
30°	9577.4	8823.2	6720.6	3900.4	1983.7	1720.1	1711.0	1740.0	1797.9	1866.4	1872.5
32.5°	9393.0	8547.4	6146.2	3019.8	1698.8	1605.9	1615.0	1628.7	1656.2	1683.6	1689.7
35°	9225.4	8265.5	5558.1	2294.5	1563.2	1531.2	1525.1	1522.1	1525.1	1516.0	1517.5
37.5°	9117.2	8032.4	4945.6	1826.8	1485.5	1465.7	1447.4	1424.6	1398.7	1383.4	1386.5
40°	9077.6	7858.7	4325.5	1578.5	1421.5	1407.8	1372.8	1324.0	1293.5	1284.4	1284.4
42.5°	9184.3	7768.8	3726.7	1453.5	1368.2	1345.3	1287.4	1231.1	1208.2	1206.7	1205.2
45°	9510.3	7805.4	3156.9	1385.0	1319.4	1275.3	1199.1	1151.8	1136.6	1139.7	1138.1
47.5°	10095.4	8035.5	2669.4	1339.2	1270.7	1212.8	1127.5	1089.4	1071.1	1071.1	1072.6
50°	11090.3	8573.3	2280.8	1301.2	1229.5	1154.9	1075.7	1028.4	1004.1	1002.5	1002.5
52.5°	12539.2	9536.2	2038.6	1269.2	1183.8	1103.1	1023.9	964.4	935.5	929.4	926.4
55°	14355.4	10916.6	1971.5	1247.8	1122.9	1046.7	961.4	902.0	870.0	856.3	854.7
57.5°	16386.3	12595.6	2104.1	1221.9	1060.4	979.7	892.8	836.5	802.9	786.2	784.7
60°	18441.7	14428.5	2645.0	1185.4	1008.6	906.5	822.7	770.9	737.4	719.1	716.1
62.5°	20500.1	16360.4	3749.6	1182.3	972.1	836.5	751.1	707.0	675.0	655.1	650.6
65°	22822.0	18475.2	5005.0	1263.1	959.9	772.5	678.0	643.0	615.5	597.3	595.7
67.5°	25488.3	20862.7	4884.7	1429.1	1001.0	714.6	609.4	582.0	562.2	547.0	545.4
70°	26739.2	20489.4	3036.5	1546.5	1058.9	658.2	543.9	524.1	508.9	498.2	493.6
71°	26215.1	19454.9	2545.9	1532.7	1052.8	633.8	518.0	502.8	487.6	478.4	473.8
72.5°	24786.0	17742.3	2123.9	1426.1	984.2	589.6	484.5	469.3	455.6	444.9	441.8
75°	22241.5	15845.5	1700.3	1139.7	784.7	498.2	425.1	408.3	397.7	391.6	385.5
77.5°	16349.8	11308.2	1314.9	900.4	577.4	406.8	362.6	350.4	339.8	330.6	326.1
80°	6263.5	4380.4	885.2	671.9	423.6	321.5	292.5	286.4	275.8	269.7	269.7
82.5°	1686.6	1308.8	472.3	406.8	283.4	234.6	224.0	220.9	211.8	199.6	201.1
85°	682.6	577.4	265.1	224.0	173.7	138.6	150.8	152.4	141.7	126.5	128.0
87.5°	300.1	245.3	147.8	99.0	76.2	53.3	68.6	68.6	62.5	51.8	47.2
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)