

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: P320892

Luminaire Tested: **GAN-SA8C-727-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320892
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48634 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

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

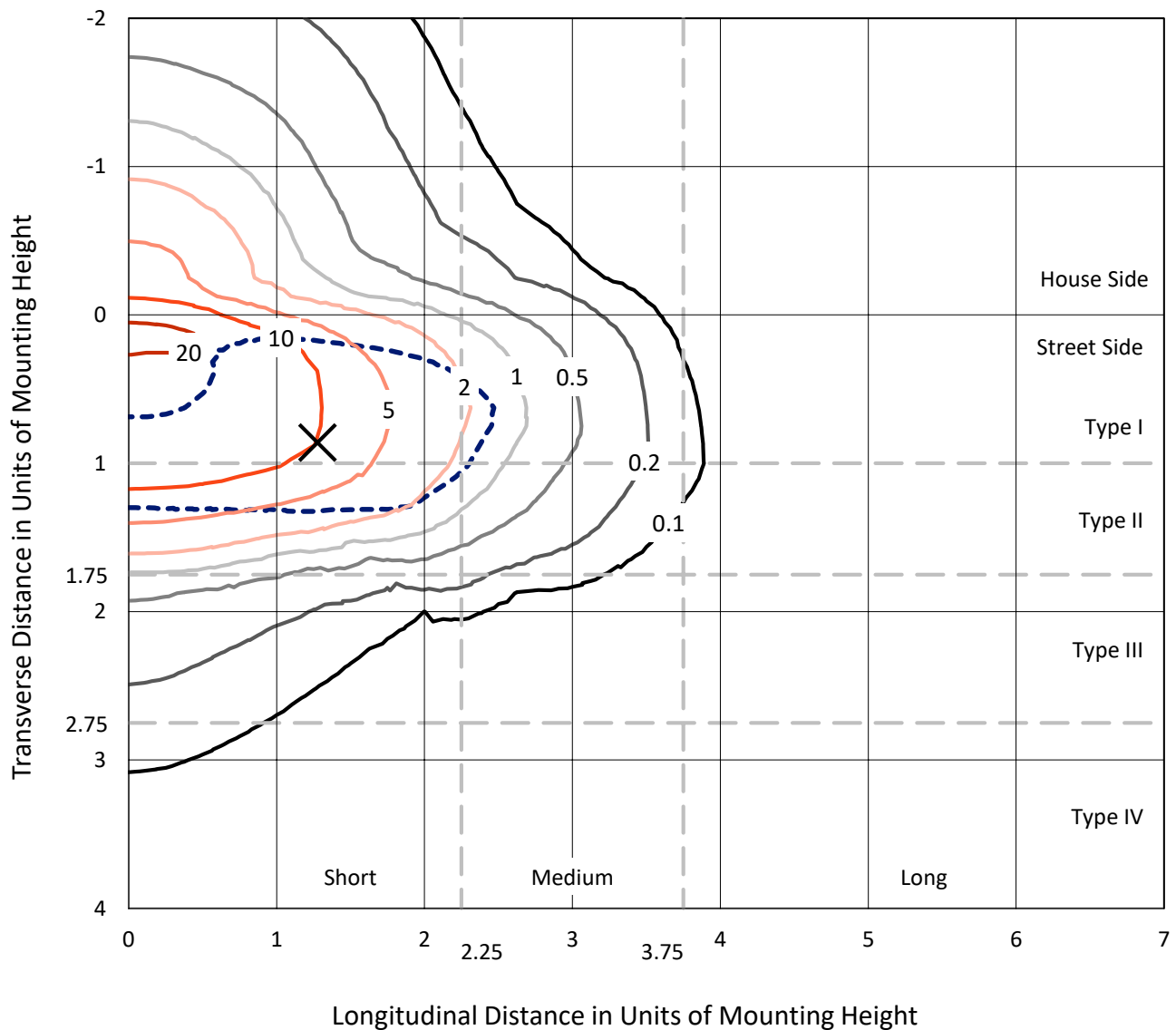


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Iso-Footcandle Lines of Horizontal Illumination

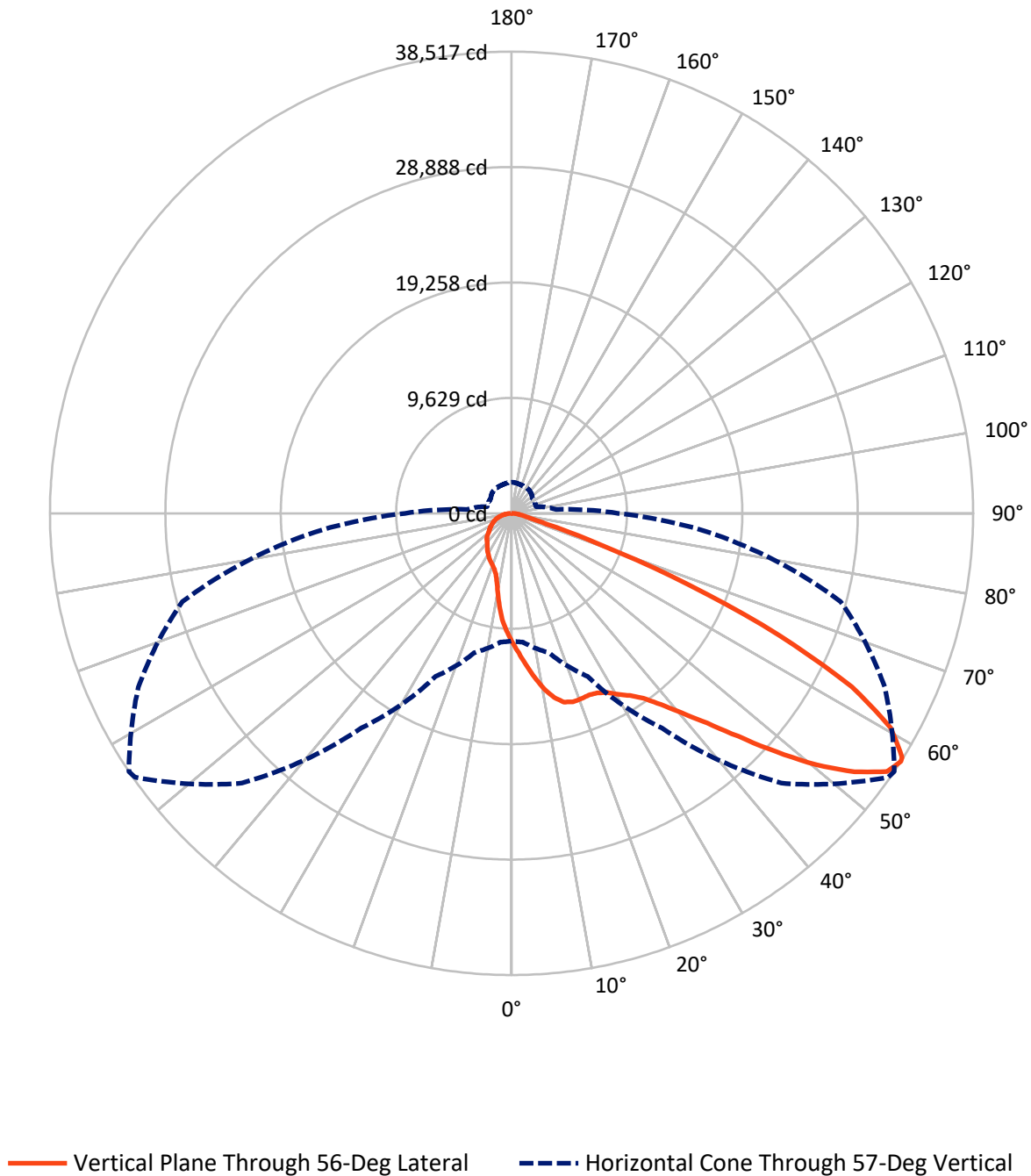
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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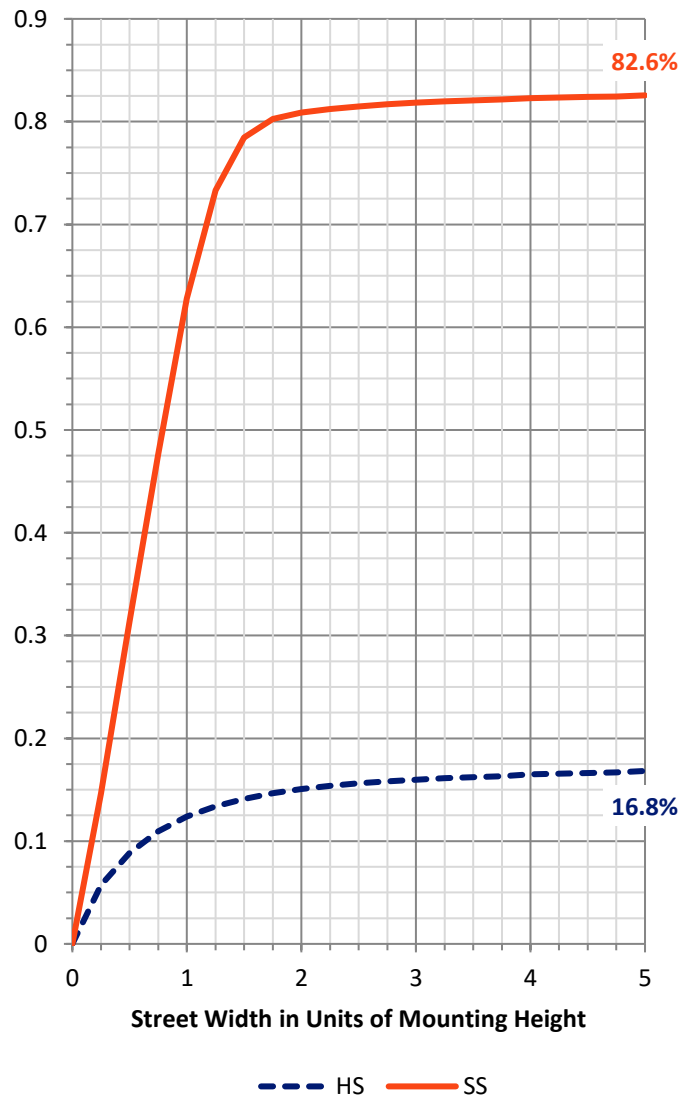
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8383.5	0.0	8383.5
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	40250.5	0.0	40250.5
	% Fixture	82.8	0.0	82.8
Total	Lumens	48634.0	0.0	48634.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1030.4	2.1
10°-20°	2913.3	6.0
20°-30°	4745.2	9.8
30°-40°	7093.5	14.6
40°-50°	10759.3	22.1
50°-60°	12059.3	24.8
60°-70°	7122.7	14.6
70°-80°	2333.7	4.8
80°-90°	576.6	1.2
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°	48634.0	100.0
0°-180°	48634.0	100.0

Coefficient of Utilization



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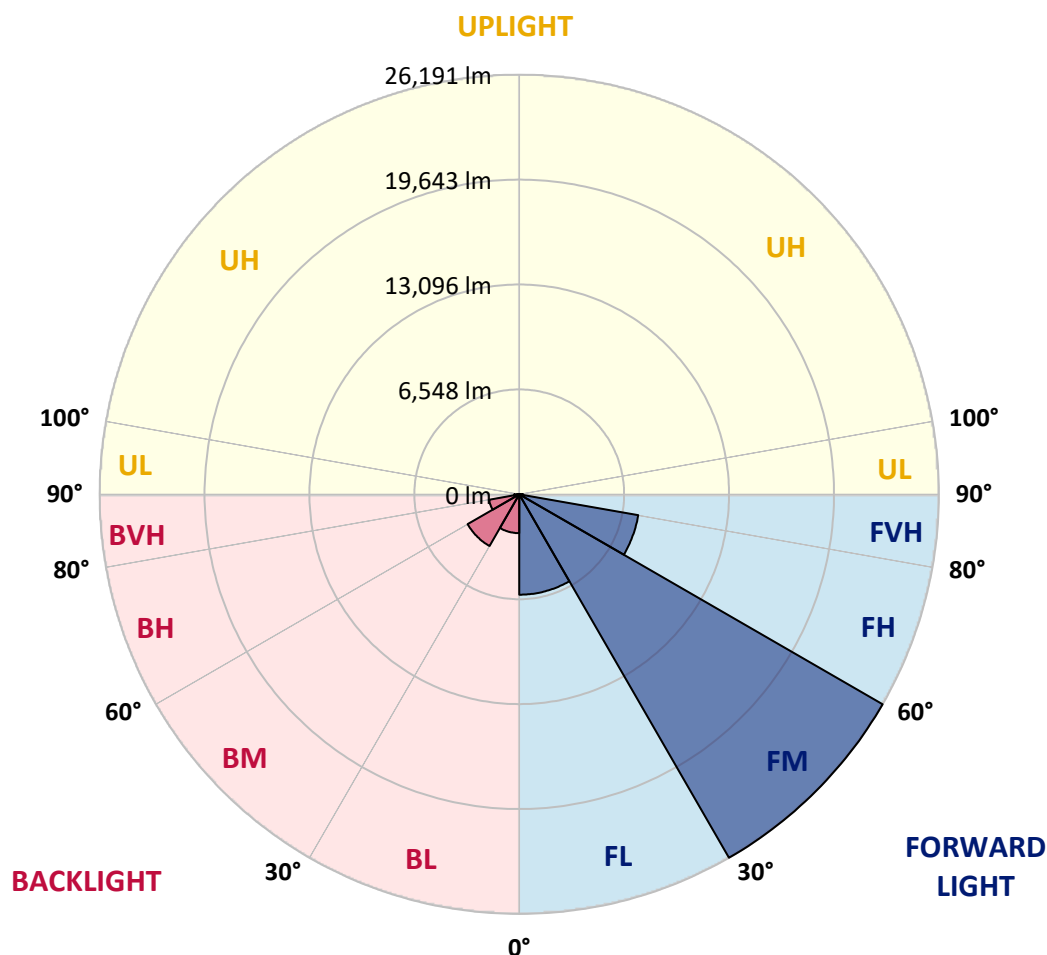
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6264.8	12.9			
FM	(30°-60°)	26191.0	53.9			
FH	(60°-80°)	7540.9	15.5			G4/12000
FVH	(80°-90°)	253.9	0.5			G3/500
BL	(0°-30°)	2424.1	5.0	B3/2500		
BM	(30°-60°)	3721.1	7.7	B3/5000		
BH	(60°-80°)	1915.5	3.9	B3/2500		G3/2500
BVH	(80°-90°)	322.7	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	10787.1	10787.1	10787.1	10787.1	10787.1	10787.1	10787.1	10787.1	10787.1	10787.1	10787.1
2.5°	12386.6	12500.2	12450.1	12276.3	12142.6	11953.7	11743.1	11679.6	11457.3	11208.3	10909.1
5°	14347.1	14290.3	14208.4	13937.6	13651.8	13319.2	12791.0	12707.5	12212.7	11649.5	11054.5
7.5°	15463.6	15458.6	15410.1	15251.3	14990.6	14556.0	13919.2	13820.6	13073.5	12167.6	11245.0
10°	15301.5	15289.8	15370.0	15535.4	15614.0	15523.7	14987.2	14888.6	13971.0	12740.9	11465.6
12.5°	14380.5	14387.2	14515.9	14863.6	15336.6	15904.8	15817.9	15769.4	14902.0	13389.4	11733.1
15°	13663.5	13678.5	13780.5	14083.0	14641.3	15672.5	16322.7	16339.4	15802.9	14104.7	12045.6
17.5°	13349.3	13381.0	13427.8	13640.1	14151.5	15209.5	16443.0	16533.3	16591.8	14846.8	12346.5
20°	13449.6	13479.7	13493.0	13628.4	14047.9	14928.7	16359.4	16521.6	17196.8	15545.5	12647.3
22.5°	13899.2	13917.6	13925.9	13961.0	14286.9	15009.0	16304.3	16474.8	17634.7	16172.2	12874.6
25°	14644.6	14631.2	14577.7	14532.6	14751.6	15326.5	16431.3	16593.4	17990.7	16740.5	13023.4
27.5°	15537.1	15520.4	15416.8	15293.1	15418.5	15821.3	16797.3	16926.0	18309.9	17272.0	13098.6
30°	16608.5	16565.0	16369.5	16222.4	16270.9	16563.3	17400.7	17517.7	18803.0	17875.4	13172.1
32.5°	17847.0	17800.2	17517.7	17273.7	17273.7	17517.7	18022.5	18119.4	19220.8	18557.3	13290.8
35°	19398.0	19339.5	18971.8	18562.3	18447.0	18570.7	18869.8	18938.4	19973.0	19416.4	13506.4
37.5°	21226.5	21147.9	20671.6	20123.4	19871.0	19864.3	20079.9	20220.3	21174.7	20544.6	13872.4
40°	23060.0	23004.8	22588.7	22157.4	21662.7	21503.9	21836.5	21880.0	22745.8	21945.2	14340.4
42.5°	24477.3	24467.3	24390.4	24447.2	23940.8	23619.9	23880.6	23915.7	24664.5	23461.1	14838.5
45°	25226.1	25242.8	25615.5	26441.2	26628.4	26394.4	26523.1	26533.1	26857.4	24990.4	15294.8
47.5°	24626.1	24713.0	25655.6	27502.5	29035.2	29812.3	29598.4	29722.1	28983.3	26304.1	15652.4
50°	22287.8	22394.8	23999.3	27029.5	30158.3	33120.0	33008.0	32979.6	30698.2	27266.8	15846.3
52.5°	19391.3	19474.9	20798.6	24570.9	29334.3	34948.5	35976.4	35829.3	32222.5	27987.2	15883.1
55°	14980.5	15110.9	16379.5	19663.7	26001.6	34249.9	38159.2	38027.2	33611.4	28364.9	15839.6
57°	10650.0	10787.1	12047.3	15007.3	21873.3	31831.4	38376.5	38516.9	34361.8	28428.4	15888.1
57.5°	9503.4	9643.8	10892.4	13767.1	20586.3	30957.2	38189.3	38423.3	34497.2	28418.4	15914.8
60°	4785.2	4838.6	5634.2	7685.0	13013.3	25027.2	35747.4	36350.8	34619.2	27927.0	16030.2
62.5°	2975.1	2936.6	2911.5	3540.0	6331.2	16596.8	30708.2	31869.8	32284.3	26737.0	15751.1
65°	2615.7	2543.8	2268.1	2217.9	2796.2	8061.1	23125.2	24570.9	27295.3	24861.7	15085.8
67.5°	2456.9	2386.7	2075.8	1888.7	1890.3	3195.7	14357.1	15985.0	21263.3	21691.1	13516.4
70°	2293.1	2229.6	1938.8	1718.2	1609.5	1770.0	6605.3	7840.4	13860.7	17049.7	11296.8
72.5°	2082.5	2039.1	1763.3	1536.0	1420.7	1325.4	2528.8	2986.8	8024.3	11450.6	7845.4
75°	1861.9	1821.8	1586.1	1368.9	1228.5	1042.9	1424.0	1534.3	4076.5	5858.2	3862.6
77.5°	1619.6	1596.2	1410.6	1210.1	1098.1	864.1	1007.8	1061.3	1748.3	2512.1	1937.1
80°	1288.6	1333.8	1233.5	1078.0	974.4	691.9	713.7	748.8	1017.9	1226.8	1099.8
82.5°	839.0	917.6	966.1	875.8	802.3	544.9	513.1	528.2	663.5	748.8	478.0
85°	349.3	392.8	635.1	573.3	533.2	397.8	344.3	351.0	411.2	426.2	195.6
87.5°	155.4	165.5	279.1	262.4	225.6	137.1	147.1	160.5	219.0	207.3	75.2
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°	10787.1	10787.1	10787.1	10787.1	10787.1	10787.1	10787.1	10787.1	10787.1	10787.1	10787.1
2.5°	10797.1	10656.7	10416.0	10150.3	9933.0	9759.2	9583.7	9463.3	9322.9	9247.7	9209.3
5°	10805.5	10529.7	10023.2	9503.4	9038.8	8614.3	8209.8	7898.9	7608.1	7451.0	7407.5
7.5°	10840.5	10426.0	9607.1	8751.3	7925.7	7171.9	6590.2	6225.9	5963.5	5846.5	5813.0
10°	10869.0	10304.0	9092.3	7825.4	6702.2	5938.4	5487.1	5283.2	5193.0	5177.9	5162.9
12.5°	10935.8	10178.7	8550.8	6859.3	5751.2	5223.1	5065.9	5052.6	5077.6	5114.4	5114.4
15°	11041.1	10055.0	7932.4	6030.3	5146.2	4960.6	4992.4	5065.9	5134.5	5191.3	5199.7
17.5°	11118.0	9902.9	7267.1	5366.8	4823.6	4873.7	4987.4	5091.0	5161.2	5216.4	5221.4
20°	11173.2	9667.2	6556.8	4860.4	4638.1	4793.5	4935.6	5027.5	5076.0	5131.1	5139.5
22.5°	11144.7	9351.4	5926.7	4497.7	4487.6	4676.5	4811.9	4922.2	4885.4	4832.0	4867.0
25°	11007.7	8916.8	5278.2	4226.9	4328.9	4519.4	4686.5	4613.0	4489.3	4465.9	4479.3
27.5°	10763.7	8361.9	4678.2	3976.2	4145.0	4374.0	4364.0	4290.4	4247.0	4216.9	4235.3
30°	10501.3	7760.2	4153.4	3757.3	3941.1	4130.0	4091.5	4089.9	4046.4	3997.9	4021.3
32.5°	10242.2	7155.2	3737.2	3576.7	3787.3	3812.4	3896.0	3921.0	3835.8	3733.9	3727.2
35°	10016.6	6583.6	3421.3	3413.0	3601.8	3605.2	3727.2	3692.1	3479.8	3374.5	3374.5
37.5°	9847.8	6013.6	3180.6	3265.9	3357.8	3444.7	3506.5	3361.1	3326.0	3267.5	3265.9
40°	9774.2	5512.2	3030.2	3153.9	3185.6	3296.0	3137.2	3194.0	3210.7	3180.6	3180.6
42.5°	9697.3	5076.0	2899.8	3068.6	3063.6	3048.6	2968.4	3041.9	3108.8	3110.4	3105.4
45°	9620.4	4699.9	2784.5	2886.5	2956.7	2794.5	2809.6	2888.1	2981.7	3015.2	3015.2
47.5°	9535.2	4402.4	2679.2	2694.3	2802.9	2694.3	2682.6	2742.7	2853.0	2906.5	2918.2
50°	9348.0	4135.0	2558.9	2525.5	2555.5	2592.3	2602.3	2630.7	2752.8	2838.0	2858.1
52.5°	9088.9	3896.0	2405.1	2370.0	2370.0	2508.7	2555.5	2563.9	2667.5	2769.5	2789.5
55°	8873.3	3743.9	2246.3	2239.6	2233.0	2420.2	2500.4	2513.8	2585.6	2665.8	2675.9
57°	8888.4	3732.2	2124.3	2131.0	2129.3	2329.9	2448.6	2477.0	2513.8	2582.3	2594.0
57.5°	8896.7	3740.5	2097.6	2100.9	2099.2	2304.8	2433.5	2465.3	2493.7	2565.6	2577.3
60°	9022.1	3762.3	1988.9	1952.2	1960.5	2171.1	2348.3	2388.4	2406.8	2502.1	2517.1
62.5°	8836.6	3665.3	1902.0	1813.4	1813.4	2030.7	2229.6	2293.1	2321.5	2450.2	2475.3
65°	8298.4	3392.9	1800.1	1656.3	1673.0	1890.3	2087.5	2191.2	2234.6	2395.1	2421.8
67.5°	7467.7	3077.0	1691.4	1515.9	1532.7	1743.2	1940.5	2052.5	2121.0	2334.9	2356.6
70°	6386.3	2690.9	1544.4	1367.2	1387.2	1582.8	1766.6	1893.7	1995.6	2278.1	2284.8
72.5°	4708.3	2206.2	1338.8	1203.4	1225.1	1395.6	1591.2	1738.2	1875.3	2136.0	2132.7
75°	2799.6	1724.9	1111.5	1037.9	1053.0	1211.7	1432.4	1611.2	1816.8	2080.9	2112.6
77.5°	1698.1	1298.7	905.9	869.1	887.5	1049.6	1318.7	1509.3	1791.7	1962.2	1952.2
80°	1026.2	927.6	723.7	700.3	718.7	897.5	1220.1	1432.4	1566.1	1676.4	1676.4
82.5°	536.5	566.6	531.5	513.1	538.2	728.7	1109.8	1250.2	1383.9	1188.3	1109.8
85°	219.0	295.8	322.6	320.9	335.9	504.8	957.7	1069.7	892.5	847.4	867.4
87.5°	73.5	125.4	157.1	135.4	142.1	317.6	663.5	516.5	613.4	427.9	406.1
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)