

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: P321032

Luminaire Tested: **GAN-SA8A-760-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321032
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-SA8A-760-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38316 lumens
Efficiency: N/A
Efficacy: 149.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 257
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

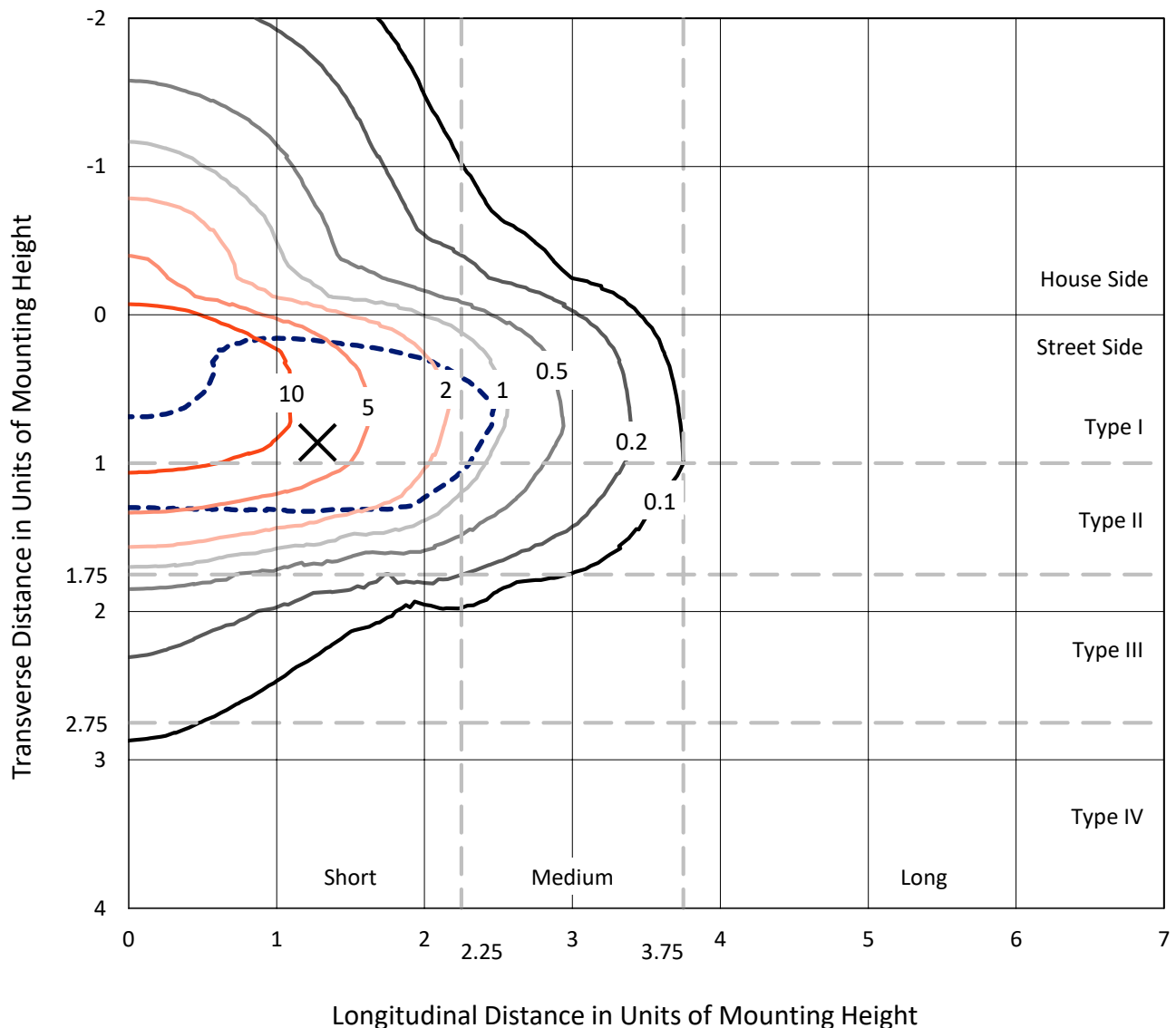


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Iso-Footcandle Lines of Horizontal Illumination

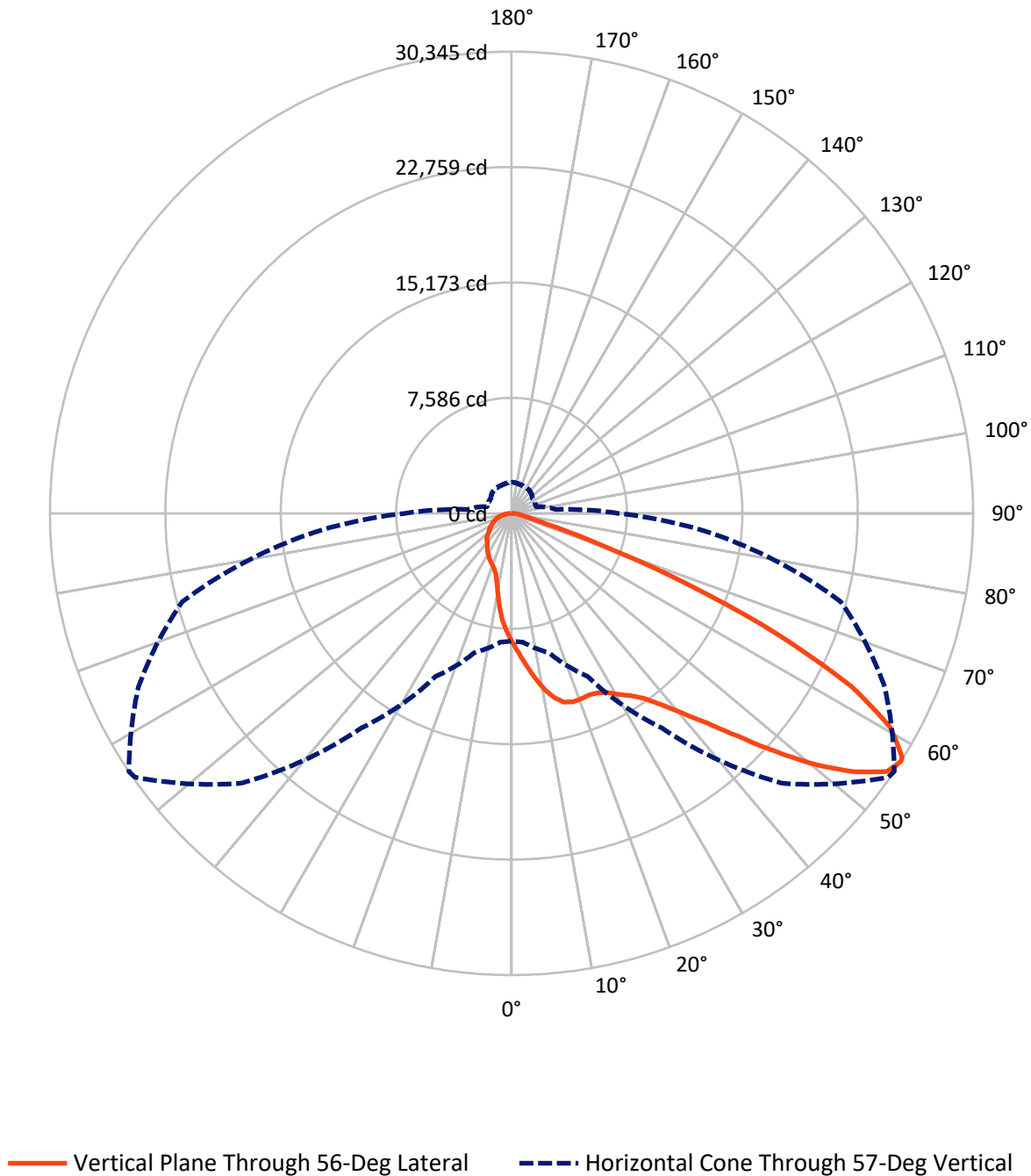
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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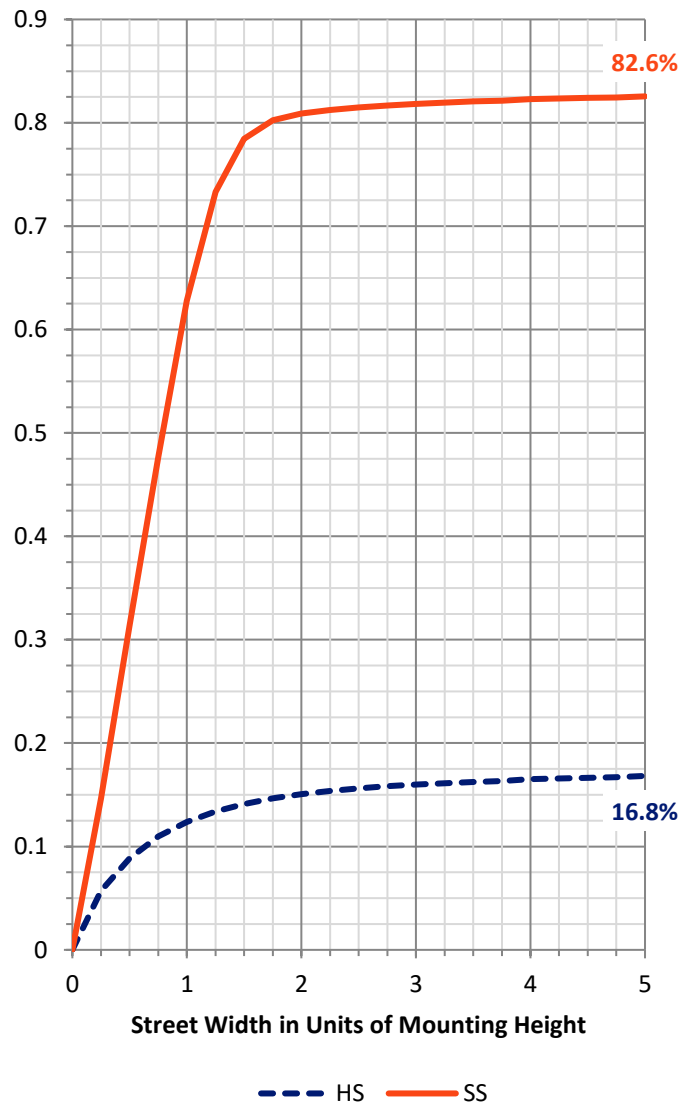
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6604.9	0.0	6604.9
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	31711.1	0.0	31711.1
	% Fixture	82.8	0.0	82.8
Total	Lumens	38316.0	0.0	38316.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	811.8	2.1
10°-20°	2295.2	6.0
20°-30°	3738.5	9.8
30°-40°	5588.6	14.6
40°-50°	8476.7	22.1
50°-60°	9500.9	24.8
60°-70°	5611.6	14.6
70°-80°	1838.6	4.8
80°-90°	454.2	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°	38316.0	100.0
0°-180°	38316.0	100.0

Coefficient of Utilization



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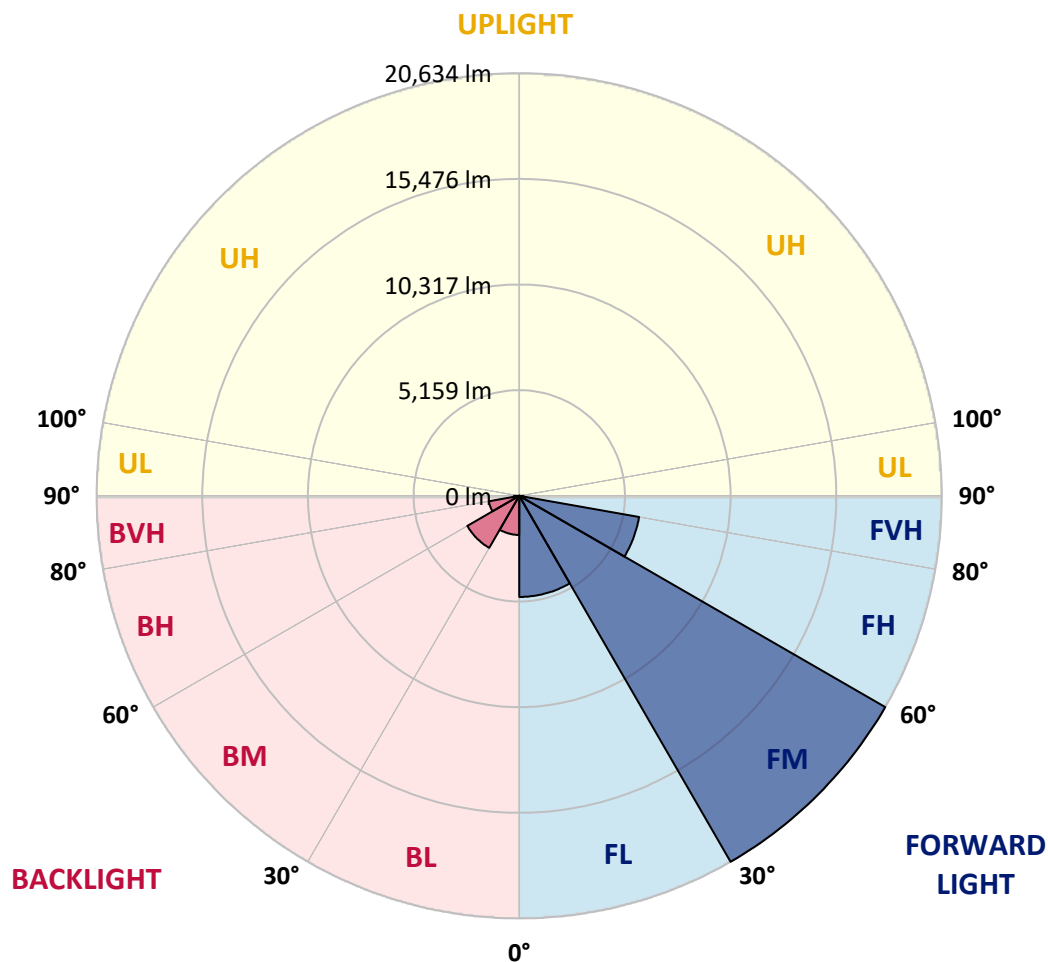
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4935.7	12.9			
FM	(30°-60°)	20634.4	53.9			
FH	(60°-80°)	5941.0	15.5			G3/7500
FVH	(80°-90°)	200.0	0.5			G2/225
BL	(0°-30°)	1909.8	5.0	B3/2500		
BM	(30°-60°)	2931.7	7.7	B3/5000		
BH	(60°-80°)	1509.1	3.9	B3/2500		G3/2500
BVH	(80°-90°)	254.2	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	8498.5	8498.5	8498.5	8498.5	8498.5	8498.5	8498.5	8498.5	8498.5	8498.5	8498.5
2.5°	9758.7	9848.2	9808.7	9671.8	9566.4	9417.6	9251.7	9201.7	9026.6	8830.4	8594.6
5°	11303.3	11258.5	11194.0	10980.7	10755.5	10493.5	10077.3	10011.5	9621.7	9178.0	8709.2
7.5°	12182.9	12178.9	12140.7	12015.7	11810.2	11467.9	10966.2	10888.5	10299.9	9586.2	8859.3
10°	12055.2	12045.9	12109.1	12239.5	12301.4	12230.3	11807.6	11729.9	11007.0	10037.8	9033.1
12.5°	11329.6	11334.9	11436.3	11710.2	12082.8	12530.5	12462.0	12423.9	11740.4	10548.8	9243.8
15°	10764.7	10776.6	10856.9	11095.2	11535.0	12347.5	12859.7	12872.9	12450.2	11112.3	9490.1
17.5°	10517.2	10542.2	10579.0	10746.3	11149.2	11982.7	12954.5	13025.6	13071.7	11697.0	9727.1
20°	10596.2	10619.9	10630.4	10737.1	11067.6	11761.5	12888.7	13016.4	13548.4	12247.4	9964.1
22.5°	10950.4	10964.9	10971.4	10999.1	11255.9	11824.7	12845.2	12979.5	13893.4	12741.2	10143.2
25°	11537.7	11527.1	11485.0	11449.4	11621.9	12074.9	12945.3	13073.0	14173.9	13188.9	10260.4
27.5°	12240.8	12227.7	12146.0	12048.6	12147.3	12464.7	13233.7	13335.1	14425.4	13607.6	10319.6
30°	13084.9	13050.6	12896.6	12780.7	12818.9	13049.3	13709.0	13801.2	14813.8	14083.0	10377.6
32.5°	14060.6	14023.7	13801.2	13609.0	13609.0	13801.2	14198.9	14275.3	15143.0	14620.3	10471.1
35°	15282.6	15236.5	14946.8	14624.2	14533.3	14630.8	14866.5	14920.5	15735.6	15297.1	10640.9
37.5°	16723.2	16661.3	16286.0	15854.1	15655.2	15650.0	15819.8	15930.5	16682.3	16185.9	10929.3
40°	18167.7	18124.2	17796.3	17456.6	17066.8	16941.7	17203.8	17238.0	17920.1	17289.4	11298.0
42.5°	19284.3	19276.4	19215.8	19260.6	18861.6	18608.8	18814.2	18841.9	19431.8	18483.7	11690.4
45°	19874.2	19887.4	20181.0	20831.5	20979.0	20794.7	20896.0	20903.9	21159.4	19688.6	12049.9
47.5°	19401.5	19470.0	20212.6	21667.7	22875.2	23487.5	23318.9	23416.4	22834.4	20723.5	12331.7
50°	17559.3	17643.6	18907.7	21295.0	23760.0	26093.4	26005.2	25982.8	24185.4	21482.0	12484.4
52.5°	15277.3	15343.2	16386.1	19358.0	23110.9	27534.0	28343.8	28227.9	25386.3	22049.5	12513.4
55°	11802.3	11905.0	12904.5	15492.0	20485.2	26983.5	30063.5	29959.5	26480.5	22347.1	12479.2
57°	8390.5	8498.5	9491.4	11823.4	17232.8	25078.2	30234.7	30345.3	27071.8	22397.2	12517.3
57.5°	7487.2	7597.8	8581.5	10846.3	16218.8	24389.5	30087.2	30271.5	27178.4	22389.3	12538.4
60°	3770.0	3812.1	4438.9	6054.6	10252.5	19717.5	28163.4	28638.7	27274.5	22002.1	12629.3
62.5°	2343.9	2313.6	2293.8	2788.9	4988.0	13075.7	24193.3	25108.4	25435.0	21064.6	12409.4
65°	2060.8	2004.1	1786.9	1747.4	2203.0	6350.8	18219.0	19358.0	21504.4	19587.2	11885.3
67.5°	1935.7	1880.4	1635.4	1488.0	1489.3	2517.7	11311.2	12593.7	16752.1	17089.2	10648.8
70°	1806.6	1756.6	1527.5	1353.7	1268.1	1394.5	5203.9	6177.0	10920.1	13432.5	8900.1
72.5°	1640.7	1606.5	1389.2	1210.1	1119.3	1044.2	1992.3	2353.1	6321.9	9021.3	6181.0
75°	1466.9	1435.3	1249.6	1078.4	967.8	821.7	1121.9	1208.8	3211.6	4615.3	3043.1
77.5°	1276.0	1257.5	1111.4	953.4	865.1	680.8	794.0	836.2	1377.4	1979.1	1526.2
80°	1015.2	1050.8	971.8	849.3	767.7	545.1	562.3	589.9	801.9	966.5	866.4
82.5°	661.0	722.9	761.1	690.0	632.1	429.3	404.3	416.1	522.8	589.9	376.6
85°	275.2	309.4	500.4	451.7	420.1	313.4	271.3	276.5	323.9	335.8	154.1
87.5°	122.5	130.4	219.9	206.7	177.8	108.0	115.9	126.4	172.5	163.3	59.3
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°	8498.5	8498.5	8498.5	8498.5	8498.5	8498.5	8498.5	8498.5	8498.5	8498.5	8498.5
2.5°	8506.4	8395.8	8206.2	7996.8	7825.6	7688.7	7550.4	7455.6	7345.0	7285.8	7255.5
5°	8513.0	8295.7	7896.8	7487.2	7121.2	6786.7	6468.0	6223.1	5994.0	5870.2	5836.0
7.5°	8540.7	8214.1	7568.9	6894.7	6244.2	5650.3	5192.1	4905.0	4698.3	4606.1	4579.8
10°	8563.0	8118.0	7163.3	6165.2	5280.3	4678.5	4323.0	4162.4	4091.2	4079.4	4067.5
12.5°	8615.7	8019.2	6736.7	5404.1	4531.1	4114.9	3991.2	3980.6	4000.4	4029.4	4029.4
15°	8698.7	7921.8	6249.5	4751.0	4054.4	3908.2	3933.2	3991.2	4045.2	4089.9	4096.5
17.5°	8759.2	7801.9	5725.4	4228.2	3800.2	3839.7	3929.3	4010.9	4066.2	4109.7	4113.6
20°	8802.7	7616.3	5165.7	3829.2	3654.1	3776.5	3888.5	3960.9	3999.1	4042.5	4049.1
22.5°	8780.3	7367.4	4669.3	3543.5	3535.6	3684.4	3791.0	3877.9	3849.0	3806.8	3834.5
25°	8672.3	7025.0	4158.4	3330.1	3410.5	3560.6	3692.3	3634.3	3536.9	3518.4	3529.0
27.5°	8480.1	6587.9	3685.7	3132.6	3265.6	3446.0	3438.1	3380.2	3345.9	3322.2	3336.7
30°	8273.4	6113.8	3272.2	2960.1	3105.0	3253.8	3223.5	3222.2	3187.9	3149.7	3168.2
32.5°	8069.3	5637.2	2944.3	2817.9	2983.8	3003.6	3069.4	3089.2	3022.0	2941.7	2936.4
35°	7891.5	5186.8	2695.5	2688.9	2837.7	2840.3	2936.4	2908.8	2741.5	2658.6	2658.6
37.5°	7758.5	4737.8	2505.8	2573.0	2645.4	2713.9	2762.6	2648.1	2620.4	2574.3	2573.0
40°	7700.6	4342.8	2387.3	2484.8	2509.8	2596.7	2471.6	2516.4	2529.5	2505.8	2505.8
42.5°	7640.0	3999.1	2284.6	2417.6	2413.7	2401.8	2338.6	2396.5	2449.2	2450.5	2446.6
45°	7579.4	3702.8	2193.8	2274.1	2329.4	2201.7	2213.5	2275.4	2349.1	2375.5	2375.5
47.5°	7512.3	3468.4	2110.8	2122.7	2208.2	2122.7	2113.4	2160.8	2247.8	2289.9	2299.1
50°	7364.8	3257.7	2016.0	1989.7	2013.4	2042.3	2050.2	2072.6	2168.7	2235.9	2251.7
52.5°	7160.7	3069.4	1894.9	1867.2	1867.2	1976.5	2013.4	2019.9	2101.6	2181.9	2197.7
55°	6990.8	2949.6	1769.8	1764.5	1759.2	1906.7	1969.9	1980.4	2037.1	2100.3	2108.2
57°	7002.7	2940.4	1673.6	1678.9	1677.6	1835.6	1929.1	1951.5	1980.4	2034.4	2043.6
57.5°	7009.2	2947.0	1652.6	1655.2	1653.9	1815.8	1917.2	1942.3	1964.6	2021.3	2030.5
60°	7108.0	2964.1	1567.0	1538.0	1544.6	1710.5	1850.1	1881.7	1896.2	1971.2	1983.1
62.5°	6961.8	2887.7	1498.5	1428.7	1428.7	1599.9	1756.6	1806.6	1829.0	1930.4	1950.2
65°	6537.8	2673.1	1418.2	1304.9	1318.1	1489.3	1644.7	1726.3	1760.5	1887.0	1908.0
67.5°	5883.4	2424.2	1332.6	1194.3	1207.5	1373.4	1528.8	1617.0	1671.0	1839.5	1856.7
70°	5031.4	2120.0	1216.7	1077.1	1092.9	1247.0	1391.8	1491.9	1572.2	1794.8	1800.0
72.5°	3709.4	1738.2	1054.7	948.1	965.2	1099.5	1253.6	1369.5	1477.4	1682.8	1680.2
75°	2205.6	1358.9	875.7	817.7	829.6	954.7	1128.5	1269.4	1431.3	1639.4	1664.4
77.5°	1337.9	1023.1	713.7	684.7	699.2	826.9	1038.9	1189.1	1411.6	1545.9	1538.0
80°	808.5	730.8	570.2	551.7	566.2	707.1	961.3	1128.5	1233.8	1320.7	1320.7
82.5°	422.7	446.4	418.7	404.3	424.0	574.1	874.3	985.0	1090.3	936.2	874.3
85°	172.5	233.1	254.1	252.8	264.7	397.7	754.5	842.7	703.2	667.6	683.4
87.5°	57.9	98.8	123.8	106.7	111.9	250.2	522.8	406.9	483.3	337.1	320.0
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)