

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: P321079

Luminaire Tested: **GAN-SA5B-827-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321079
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-SA5B-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21540 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 210
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

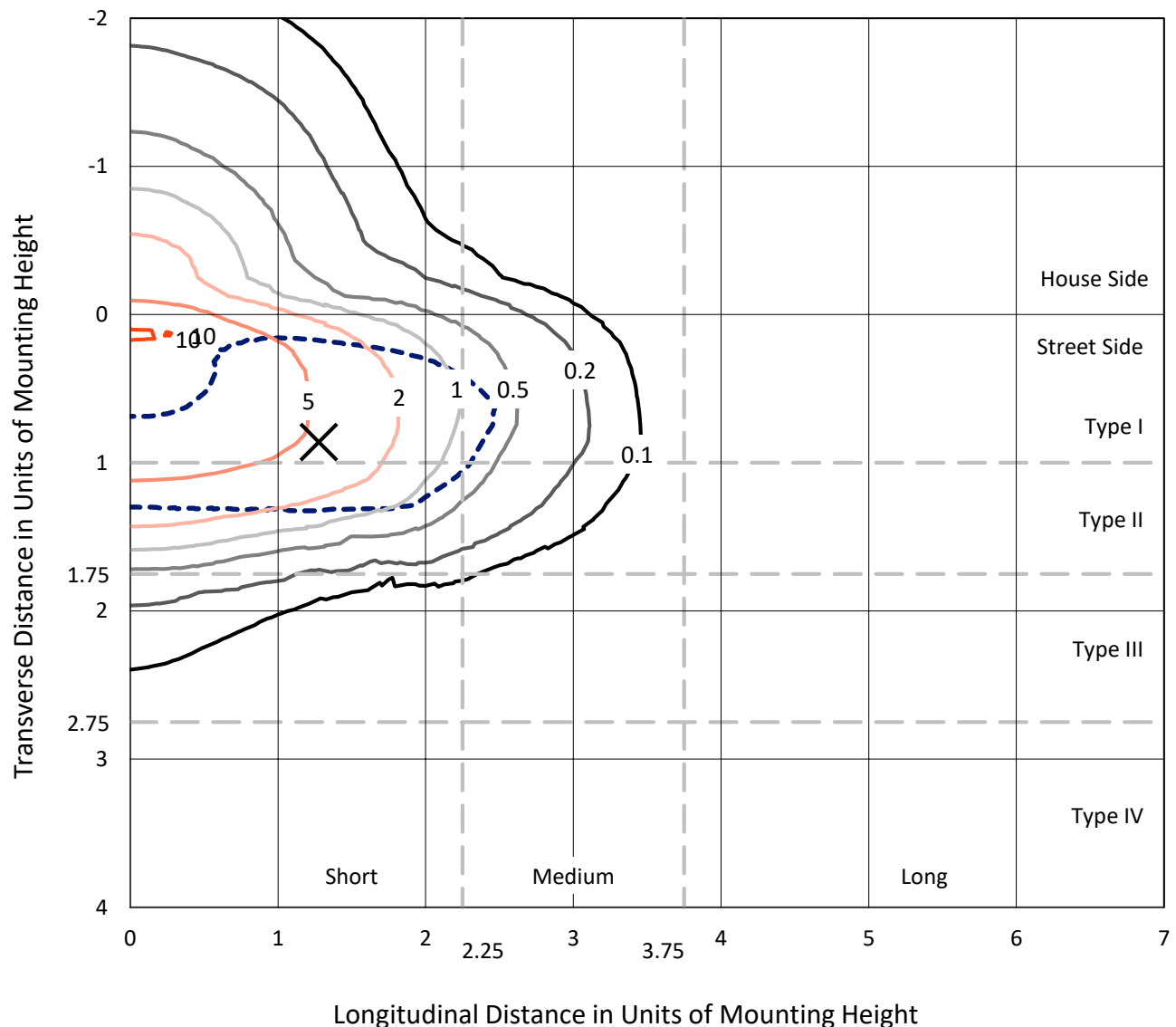


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Iso-Footcandle Lines of Horizontal Illumination

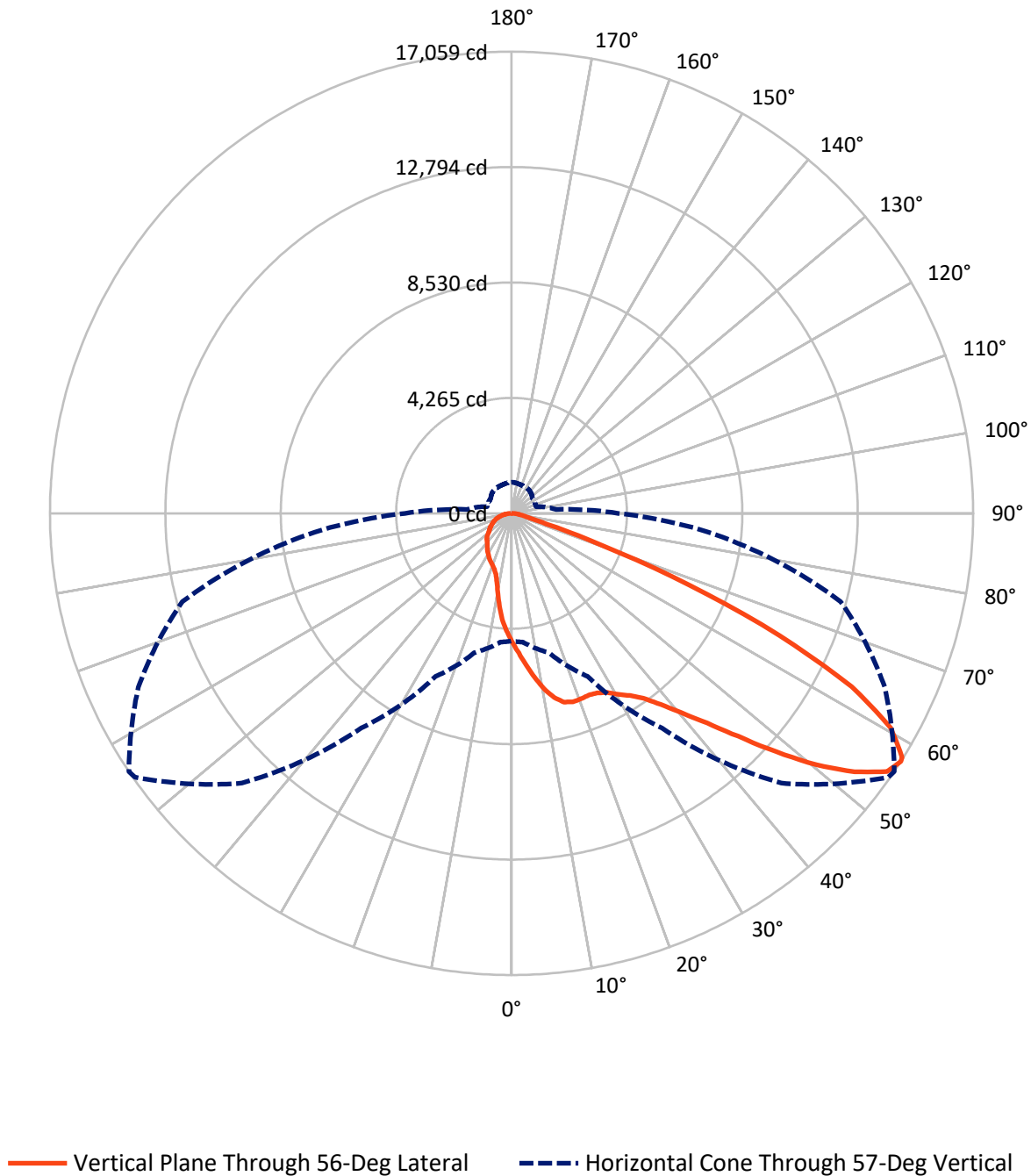
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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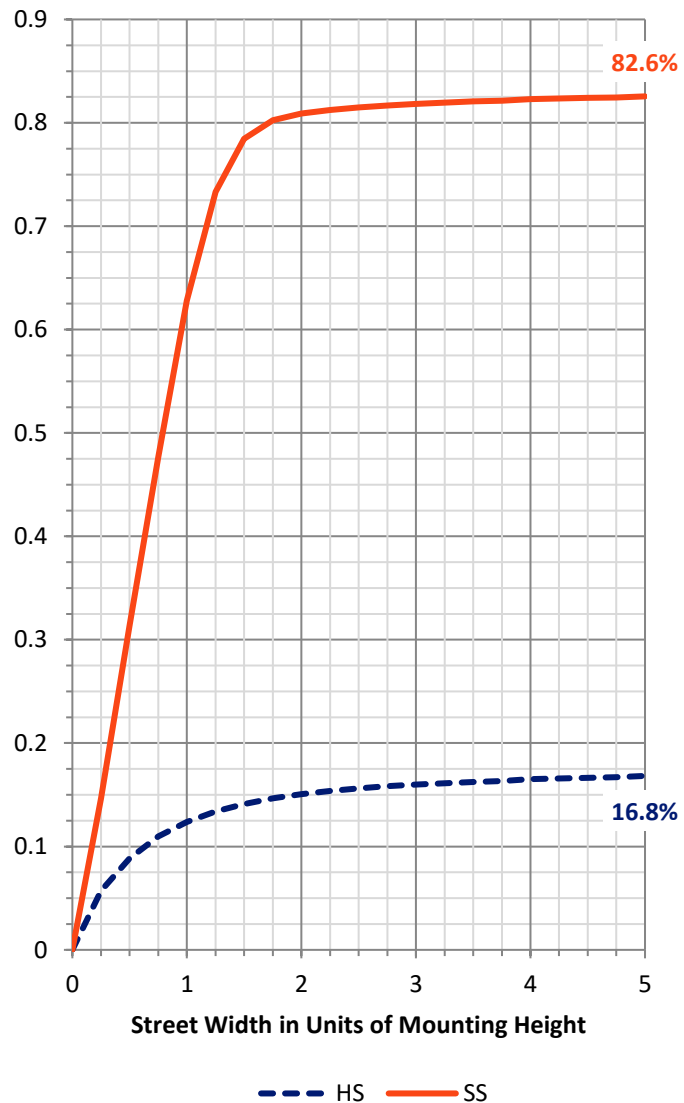
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3713.0	0.0	3713.0
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	17827.0	0.0	17827.0
	% Fixture	82.8	0.0	82.8
Total	Lumens	21540.0	0.0	21540.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.4	2.1
10°-20°	1290.3	6.0
20°-30°	2101.6	9.8
30°-40°	3141.7	14.6
40°-50°	4765.3	22.1
50°-60°	5341.1	24.8
60°-70°	3154.6	14.6
70°-80°	1033.6	4.8
80°-90°	255.4	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°	21540.0	100.0
0°-180°	21540.0	100.0

Coefficient of Utilization



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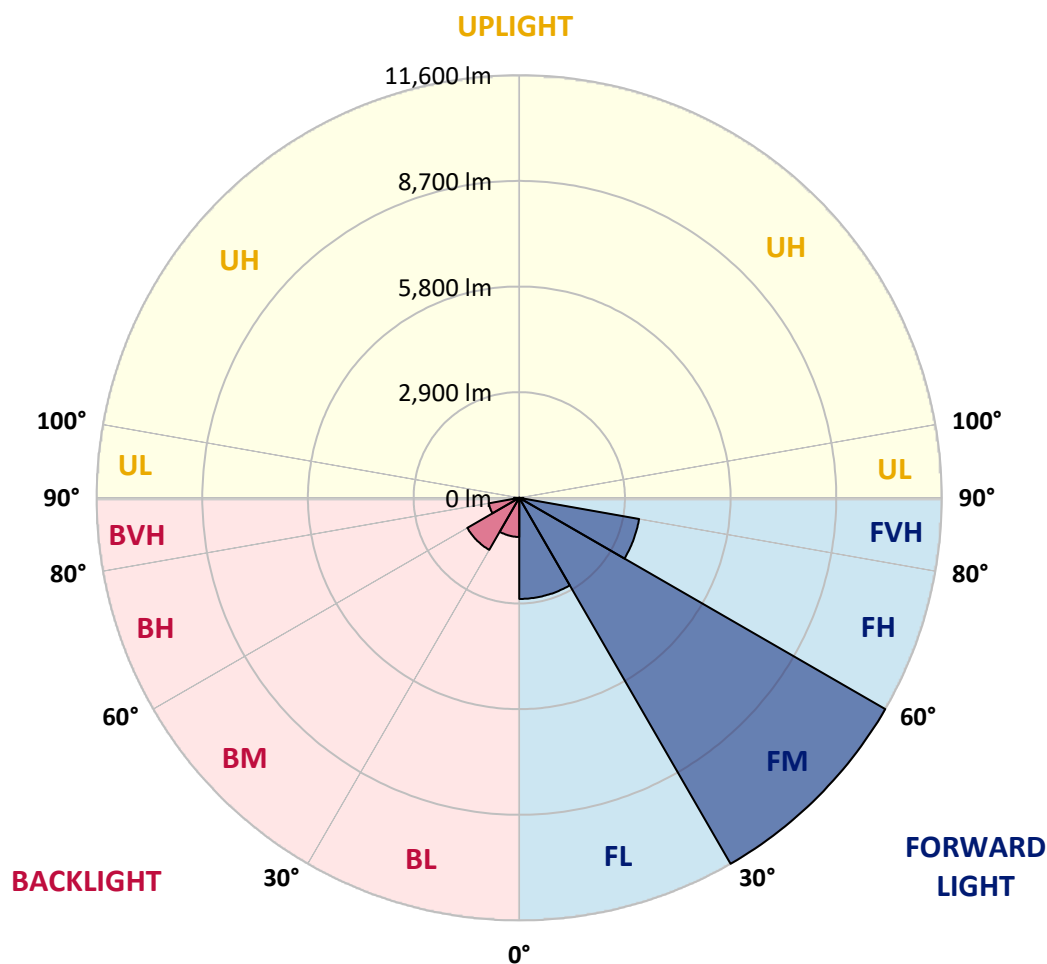
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2774.7	12.9			
FM	(30°-60°)	11600.0	53.9			
FH	(60°-80°)	3339.8	15.5			G2/5000
FVH	(80°-90°)	112.4	0.5			G2/225
BL	(0°-30°)	1073.6	5.0	B3/2500		
BM	(30°-60°)	1648.1	7.7	B2/2500		
BH	(60°-80°)	848.4	3.9	B2/1000		G2/1000
BVH	(80°-90°)	142.9	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4777.6	4777.6	4777.6	4777.6	4777.6	4777.6	4777.6	4777.6	4777.6	4777.6	4777.6
2.5°	5486.0	5536.4	5514.1	5437.2	5377.9	5294.3	5201.0	5172.9	5074.4	4964.1	4831.6
5°	6354.3	6329.2	6292.9	6173.0	6046.4	5899.1	5665.2	5628.1	5409.0	5159.6	4896.0
7.5°	6848.8	6846.6	6825.1	6754.8	6639.3	6446.9	6164.8	6121.2	5790.3	5389.0	4980.4
10°	6777.0	6771.8	6807.4	6880.6	6915.4	6875.5	6637.8	6594.2	6187.8	5642.9	5078.1
12.5°	6369.1	6372.1	6429.1	6583.1	6792.6	7044.2	7005.8	6984.3	6600.1	5930.2	5196.6
15°	6051.6	6058.2	6103.4	6237.4	6484.6	6941.4	7229.3	7236.7	6999.1	6247.0	5335.0
17.5°	5912.4	5926.5	5947.2	6041.2	6267.7	6736.3	7282.6	7322.6	7348.5	6575.7	5468.2
20°	5956.8	5970.1	5976.1	6036.0	6221.8	6611.9	7245.6	7317.4	7616.5	6885.1	5601.5
22.5°	6155.9	6164.1	6167.8	6183.3	6327.7	6647.5	7221.2	7296.7	7810.4	7162.7	5702.2
25°	6486.1	6480.2	6456.5	6436.5	6533.5	6788.1	7277.4	7349.2	7968.1	7414.4	5768.0
27.5°	6881.4	6874.0	6828.1	6773.3	6828.8	7007.2	7439.5	7496.5	8109.5	7649.8	5801.4
30°	7355.9	7336.6	7250.0	7184.9	7206.4	7335.9	7706.8	7758.6	8327.8	7917.0	5833.9
32.5°	7904.4	7883.7	7758.6	7650.5	7650.5	7758.6	7982.1	8025.1	8512.9	8219.0	5886.5
35°	8591.4	8565.5	8402.6	8221.2	8170.2	8224.9	8357.5	8387.8	8846.0	8599.5	5982.0
37.5°	9401.2	9366.4	9155.4	8912.6	8800.9	8797.9	8893.4	8955.6	9378.3	9099.2	6144.1
40°	10213.3	10188.8	10004.5	9813.5	9594.4	9524.1	9671.4	9690.6	10074.1	9719.5	6351.4
42.5°	10841.0	10836.6	10802.5	10827.7	10603.4	10461.3	10576.7	10592.3	10923.9	10390.9	6572.0
45°	11172.6	11180.0	11345.1	11710.8	11793.7	11690.1	11747.1	11751.5	11895.1	11068.3	6774.1
47.5°	10906.9	10945.4	11362.9	12180.9	12859.7	13203.9	13109.1	13163.9	12836.7	11650.1	6932.5
50°	9871.3	9918.6	10629.3	11971.4	13357.1	14668.8	14619.3	14606.7	13596.2	12076.5	7018.3
52.5°	8588.4	8625.4	9211.7	10882.5	12992.2	15478.7	15933.9	15868.8	14271.3	12395.5	7034.6
55°	6634.9	6692.6	7254.5	8709.1	11516.1	15169.3	16900.7	16842.2	14886.5	12562.8	7015.4
57°	4716.9	4777.6	5335.7	6646.7	9687.7	14098.1	16996.9	17059.1	15218.9	12591.0	7036.8
57.5°	4209.1	4271.3	4824.2	6097.5	9117.7	13711.0	16914.0	17017.7	15278.8	12586.5	7048.7
60°	2119.3	2143.0	2495.4	3403.7	5763.6	11084.5	15832.5	16099.8	15332.9	12368.9	7099.8
62.5°	1317.6	1300.6	1289.5	1567.9	2804.1	7350.7	13600.7	14115.1	14298.7	11841.8	6976.1
65°	1158.5	1126.7	1004.5	982.3	1238.4	3570.2	10242.1	10882.5	12089.1	11011.3	6681.5
67.5°	1088.2	1057.1	919.4	836.5	837.2	1415.4	6358.8	7079.8	9417.5	9607.0	5986.4
70°	1015.6	987.5	858.7	761.0	712.9	783.9	2925.5	3472.5	6138.9	7551.3	5003.4
72.5°	922.4	903.1	781.0	680.3	629.2	587.0	1120.0	1322.8	3554.0	5071.5	3474.7
75°	824.6	806.9	702.5	606.3	544.1	461.9	630.7	679.6	1805.5	2594.6	1710.7
77.5°	717.3	706.9	624.8	535.9	486.3	382.7	446.4	470.1	774.3	1112.6	858.0
80°	570.7	590.7	546.3	477.5	431.6	306.5	316.1	331.6	450.8	543.3	487.1
82.5°	371.6	406.4	427.9	387.9	355.3	241.3	227.3	233.9	293.9	331.6	211.7
85°	154.7	174.0	281.3	253.9	236.1	176.2	152.5	155.5	182.1	188.8	86.6
87.5°	68.8	73.3	123.6	116.2	99.9	60.7	65.1	71.1	97.0	91.8	33.3
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°	4777.6	4777.6	4777.6	4777.6	4777.6	4777.6	4777.6	4777.6	4777.6	4777.6	4777.6
2.5°	4782.0	4719.9	4613.3	4495.6	4399.3	4322.3	4244.6	4191.3	4129.1	4095.8	4078.8
5°	4785.7	4663.6	4439.3	4209.1	4003.3	3815.3	3636.1	3498.4	3369.6	3300.0	3280.8
7.5°	4801.3	4617.7	4255.0	3876.0	3510.3	3176.4	2918.8	2757.4	2641.2	2589.4	2574.6
10°	4813.9	4563.7	4027.0	3465.9	2968.4	2630.1	2430.2	2339.9	2300.0	2293.3	2286.6
12.5°	4843.5	4508.1	3787.1	3038.0	2547.2	2313.3	2243.7	2237.8	2248.9	2265.2	2265.2
15°	4890.1	4453.4	3513.2	2670.8	2279.2	2197.1	2211.1	2243.7	2274.1	2299.2	2302.9
17.5°	4924.2	4386.0	3218.6	2377.0	2136.4	2158.6	2208.9	2254.8	2285.9	2310.3	2312.5
20°	4948.6	4281.6	2904.0	2152.7	2054.2	2123.0	2186.0	2226.7	2248.1	2272.6	2276.3
22.5°	4936.0	4141.7	2624.9	1992.0	1987.6	2071.2	2131.2	2180.0	2163.8	2140.1	2155.6
25°	4875.3	3949.2	2337.7	1872.1	1917.3	2001.6	2075.7	2043.1	1988.3	1978.0	1983.9
27.5°	4767.2	3703.5	2072.0	1761.1	1835.8	1937.2	1932.8	1900.2	1881.0	1867.7	1875.8
30°	4651.0	3437.0	1839.5	1664.1	1745.5	1829.2	1812.1	1811.4	1792.2	1770.7	1781.0
32.5°	4536.3	3169.0	1655.2	1584.1	1677.4	1688.5	1725.5	1736.6	1698.9	1653.7	1650.8
35°	4436.3	2915.9	1515.3	1511.6	1595.2	1596.7	1650.8	1635.2	1541.2	1494.6	1494.6
37.5°	4361.6	2663.4	1408.7	1446.5	1487.2	1525.7	1553.1	1488.6	1473.1	1447.2	1446.5
40°	4329.0	2441.4	1342.1	1396.9	1410.9	1459.8	1389.5	1414.6	1422.0	1408.7	1408.7
42.5°	4294.9	2248.1	1284.3	1359.1	1356.9	1350.2	1314.7	1347.3	1376.9	1377.6	1375.4
45°	4260.9	2081.6	1233.3	1278.4	1309.5	1237.7	1244.4	1279.2	1320.6	1335.4	1335.4
47.5°	4223.1	1949.8	1186.6	1193.3	1241.4	1193.3	1188.1	1214.8	1263.6	1287.3	1292.5
50°	4140.2	1831.4	1133.3	1118.5	1131.8	1148.1	1152.6	1165.2	1219.2	1256.9	1265.8
52.5°	4025.5	1725.5	1065.2	1049.7	1049.7	1111.1	1131.8	1135.5	1181.4	1226.6	1235.5
55°	3930.0	1658.2	994.9	991.9	989.0	1071.9	1107.4	1113.3	1145.2	1180.7	1185.1
57°	3936.7	1653.0	940.9	943.8	943.1	1031.9	1084.5	1097.1	1113.3	1143.7	1148.9
57.5°	3940.4	1656.7	929.0	930.5	929.8	1020.8	1077.8	1091.9	1104.5	1136.3	1141.5
60°	3995.9	1666.3	880.9	864.6	868.3	961.6	1040.1	1057.8	1066.0	1108.2	1114.8
62.5°	3913.7	1623.4	842.4	803.2	803.2	899.4	987.5	1015.6	1028.2	1085.2	1096.3
65°	3675.4	1502.7	797.3	733.6	741.0	837.2	924.6	970.5	989.7	1060.8	1072.6
67.5°	3307.4	1362.8	749.1	671.4	678.8	772.1	859.4	909.0	939.4	1034.1	1043.8
70°	2828.5	1191.8	684.0	605.5	614.4	701.0	782.4	838.7	883.9	1009.0	1011.9
72.5°	2085.3	977.1	592.9	533.0	542.6	618.1	704.7	769.9	830.6	946.0	944.6
75°	1239.9	763.9	492.3	459.7	466.4	536.7	634.4	713.6	804.7	921.6	935.7
77.5°	752.1	575.2	401.2	384.9	393.1	464.9	584.1	668.4	793.6	869.1	864.6
80°	454.5	410.8	320.5	310.2	318.3	397.5	540.4	634.4	693.6	742.5	742.5
82.5°	237.6	250.9	235.4	227.3	238.4	322.8	491.5	553.7	612.9	526.3	491.5
85°	97.0	131.0	142.9	142.1	148.8	223.6	424.2	473.8	395.3	375.3	384.2
87.5°	32.6	55.5	69.6	60.0	62.9	140.6	293.9	228.7	271.7	189.5	179.9
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)