

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: P319822

Luminaire Tested: **GAN-SA8D-827-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319822
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45716 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 511
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

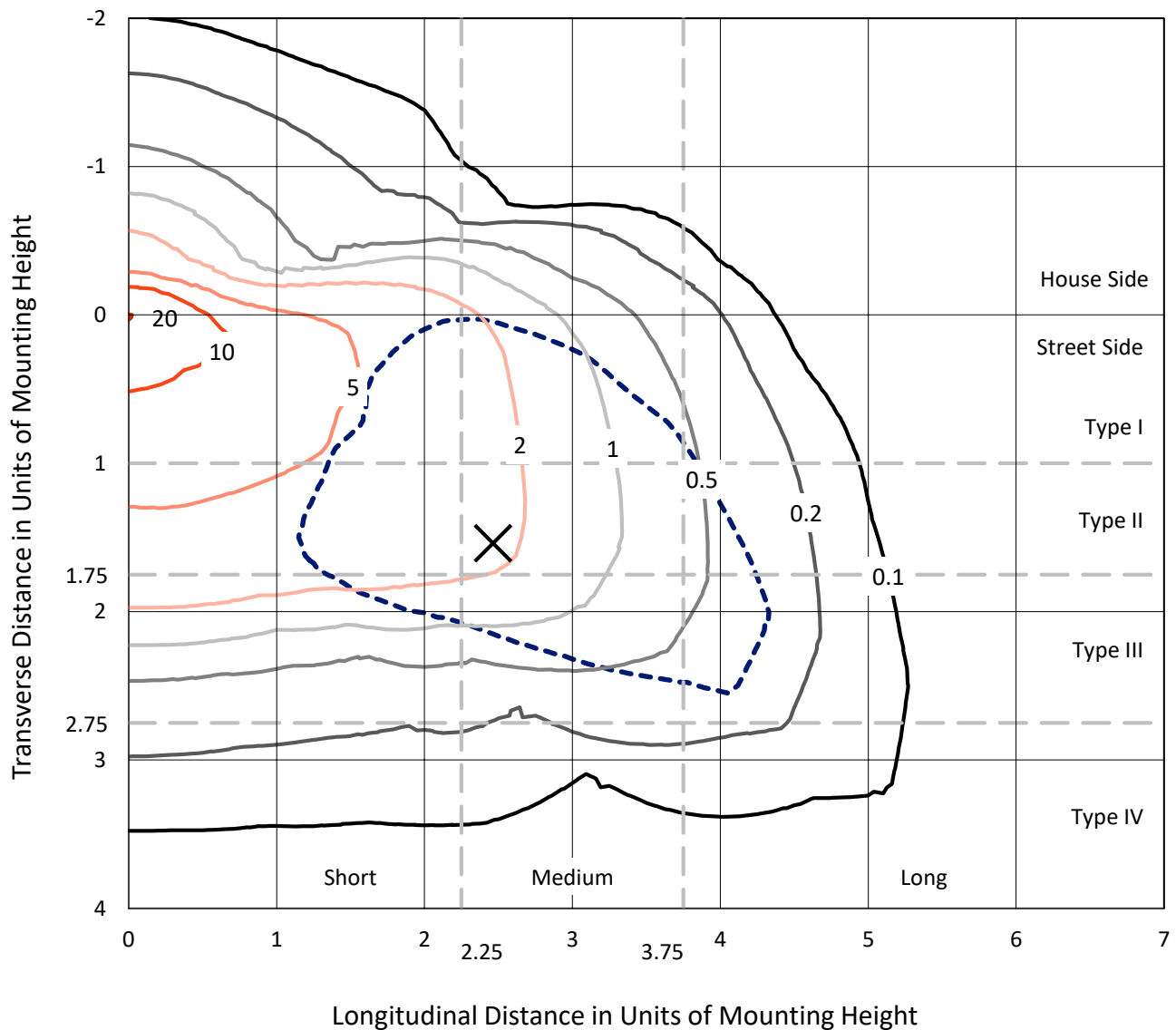


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Iso-Footcandle Lines of Horizontal Illumination

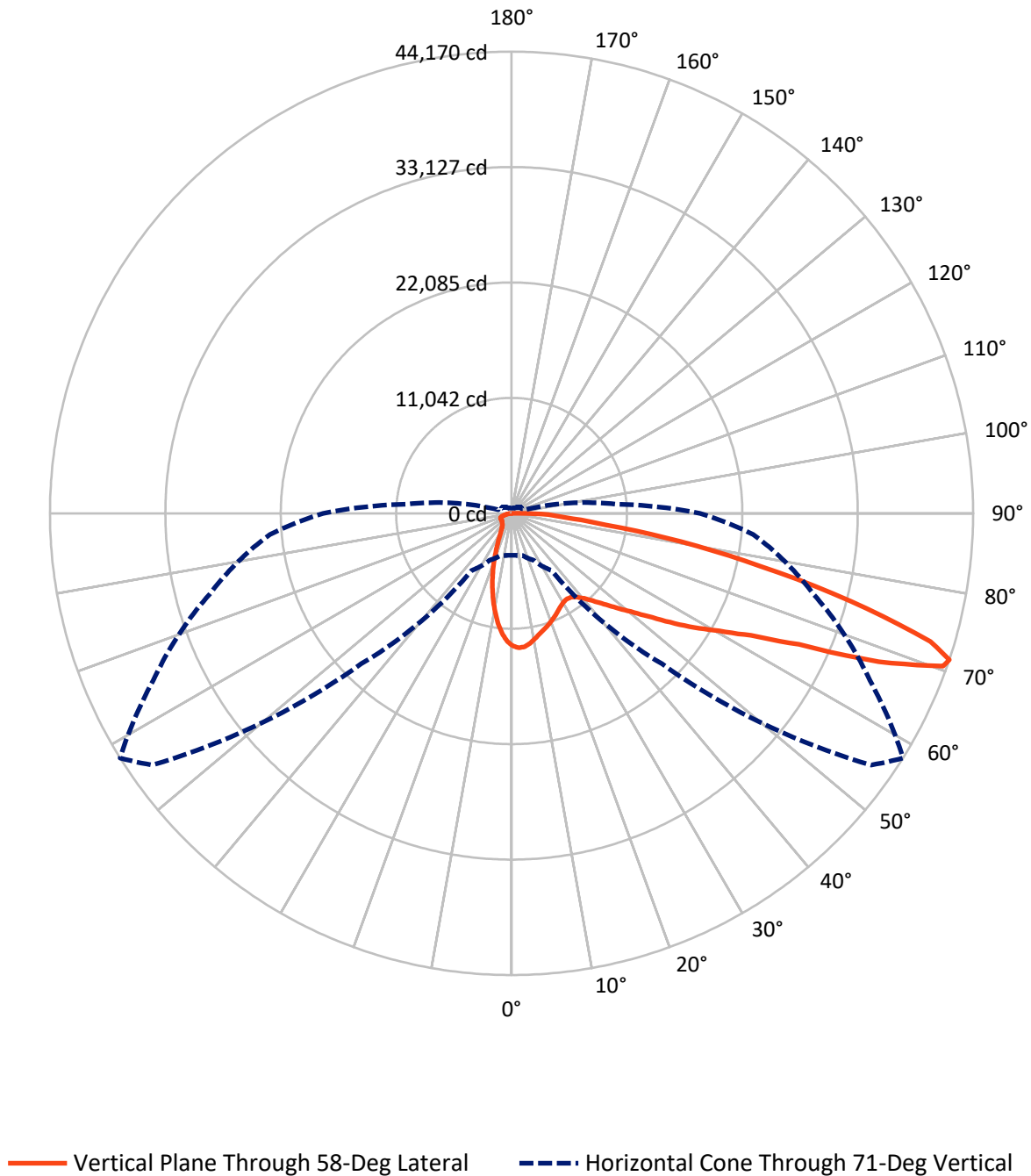
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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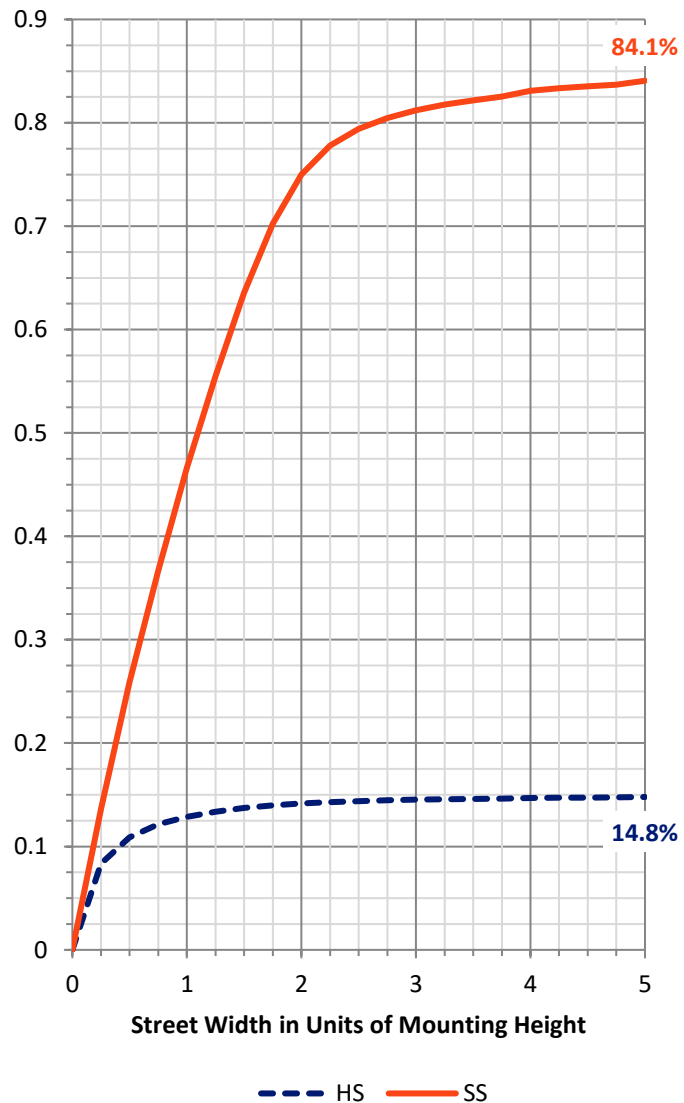
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6834.9	0.0	6834.9
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	38881.2	0.0	38881.2
	% Fixture	85.0	0.0	85.0
Total	Lumens	45716.0	0.0	45716.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1092.7	2.4
10°-20°	2429.8	5.3
20°-30°	3088.0	6.8
30°-40°	3933.5	8.6
40°-50°	5578.0	12.2
50°-60°	8632.1	18.9
60°-70°	11751.5	25.7
70°-80°	7839.6	17.1
80°-90°	1370.6	3.0
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°	45716.0	100.0
0°-180°	45716.0	100.0

Coefficient of Utilization



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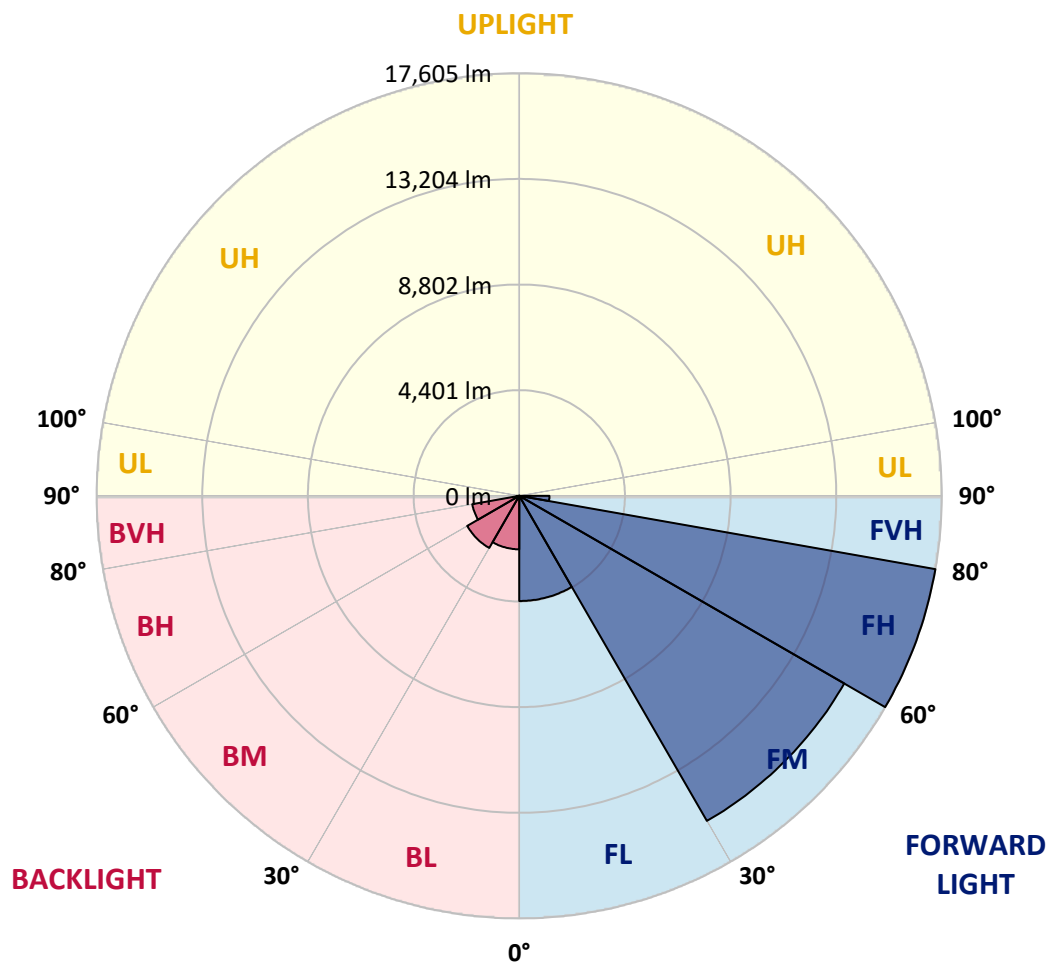
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4382.6	9.6			
FM	(30°-60°)	15637.1	34.2			
FH	(60°-80°)	17604.7	38.5			G5
FVH	(80°-90°)	1256.8	2.7			G5
BL	(0°-30°)	2228.0	4.9	B3/2500		
BM	(30°-60°)	2506.5	5.5	B3/5000		
BH	(60°-80°)	1986.5	4.3	B3/2500		G3/2500
BVH	(80°-90°)	113.9	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	12666.4	12666.4	12666.4	12666.4	12666.4	12666.4	12666.4	12666.4	12666.4	12666.4	12666.4
2.5°	13002.4	12984.9	12991.2	12978.5	12948.3	12918.0	12873.4	12881.4	12819.3	12726.9	12612.2
5°	12757.2	12750.8	12798.6	12825.6	12847.9	12830.4	12817.7	12833.6	12742.8	12615.4	12416.4
7.5°	12242.8	12172.7	12233.2	12324.0	12410.0	12475.3	12561.3	12572.4	12515.1	12381.3	12120.2
10°	11511.9	11445.0	11534.2	11675.9	11847.9	12003.9	12177.5	12209.4	12220.5	12099.5	11782.6
12.5°	10753.8	10702.9	10792.1	10991.1	11276.2	11516.6	11793.7	11841.5	11940.2	11859.0	11470.5
15°	10075.5	10056.4	10164.6	10360.5	10688.6	11056.4	11456.1	11543.7	11710.9	11683.8	11226.8
17.5°	9489.4	9484.7	9567.5	9772.9	10136.0	10601.0	11120.1	11268.2	11516.6	11548.5	11026.2
20°	9053.1	9043.6	9100.9	9252.2	9626.4	10153.5	10757.0	10960.9	11319.2	11430.6	10819.1
22.5°	8819.0	8817.4	8819.0	8890.7	9196.4	9686.9	10403.5	10651.9	11126.5	11336.7	10589.8
25°	8779.2	8774.4	8739.4	8731.4	8905.0	9296.8	10053.2	10327.1	10943.4	11271.4	10371.7
27.5°	8882.7	8889.1	8842.9	8768.1	8803.1	9040.4	9749.0	10042.0	10796.8	11258.7	10220.4
30°	9097.7	9094.5	9054.7	8976.7	8908.2	8944.8	9532.4	9825.4	10698.1	11314.4	10116.9
32.5°	9335.0	9352.5	9344.5	9301.5	9199.6	9053.1	9467.1	9753.8	10669.4	11448.2	10072.3
35°	9620.0	9639.1	9696.5	9729.9	9610.5	9374.8	9607.3	9855.7	10752.3	11699.8	10143.9
37.5°	9890.7	9940.1	10100.9	10242.7	10140.8	9878.0	9979.9	10156.7	11008.6	12096.3	10336.6
40°	10202.9	10245.9	10508.6	10809.6	10793.7	10521.4	10580.3	10698.1	11460.9	12664.8	10685.4
42.5°	10510.2	10596.2	10976.8	11403.6	11526.2	11285.7	11379.7	11441.8	12097.9	13418.0	11293.7
45°	10919.5	11011.8	11540.5	12054.9	12341.5	12206.2	12355.9	12379.7	12898.9	14443.6	12177.5
47.5°	11538.9	11644.0	12260.3	12800.2	13238.1	13252.4	13499.2	13489.7	13898.9	15617.2	13290.6
50°	12504.0	12655.2	13160.0	13664.9	14196.7	14492.9	14822.6	14776.4	15098.1	16867.3	14572.6
52.5°	13768.4	13838.4	14212.7	14585.3	15246.2	15910.2	16383.2	16341.8	16458.0	18152.4	16028.1
55°	15079.0	15131.5	15286.0	15489.8	16378.4	17461.3	18461.3	18396.0	18101.4	19486.9	17466.0
57.5°	16257.4	16364.1	16470.8	16555.2	17518.6	19082.4	20587.3	20592.0	19885.0	20926.5	18951.8
60°	16440.5	16534.5	17239.9	17905.6	19469.4	21244.9	22862.9	22815.1	21730.6	22488.7	20608.0
62.5°	14532.7	14744.5	15923.0	17693.8	21348.5	25200.6	25765.9	25707.0	23937.8	24413.9	22536.4
65°	10414.7	10655.1	12077.2	14738.2	20437.6	29559.2	31005.1	30212.1	26947.5	26781.9	24794.5
67.5°	6008.3	6065.7	6681.9	8819.0	15561.5	29786.9	38997.6	37887.7	31621.4	29468.4	25899.7
70°	4442.9	4441.4	4587.9	5427.1	8420.9	24310.4	42798.8	43794.1	36542.1	30352.2	24337.5
71°	4017.8	4022.5	4186.6	4939.8	6669.2	20348.4	41991.4	44169.9	37838.3	29915.9	23206.8
72.5°	3436.5	3452.4	3680.2	4430.2	5610.2	14032.7	38513.5	41915.0	38453.0	28839.4	21437.6
75°	2606.8	2643.5	2958.8	3734.3	5127.7	7116.7	28266.1	33470.2	34159.8	25447.4	15929.3
77.5°	1860.0	1901.4	2258.1	3140.3	4874.5	5363.4	18929.5	24413.9	25138.5	16308.3	7185.2
80°	1175.2	1224.6	1493.7	2498.6	4579.9	5092.7	11895.6	16410.3	13707.9	5218.5	1828.1
82.5°	689.5	727.8	926.8	1632.3	3740.7	4904.8	6998.8	9096.1	5334.7	1576.5	831.3
85°	399.7	417.2	578.1	1039.9	2716.7	4629.3	5142.0	5084.7	2315.4	770.7	393.3
87.5°	186.3	207.0	342.4	543.0	1508.1	3355.3	4063.9	3511.4	1439.6	361.5	184.7
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°	12666.4	12666.4	12666.4	12666.4	12666.4	12666.4	12666.4	12666.4	12666.4	12666.4	12666.4
2.5°	12556.5	12529.4	12416.4	12316.0	12210.9	12074.0	11922.7	11903.6	11811.2	11828.8	11796.9
5°	12308.1	12239.6	11967.3	11720.5	11429.1	11167.9	10884.4	10753.8	10565.9	10553.2	10505.4
7.5°	11953.0	11825.6	11403.6	10935.4	10467.2	10021.3	9580.2	9290.4	8994.2	8868.4	8857.2
10°	11553.3	11336.7	10715.6	10022.9	9347.7	8696.4	8065.8	7599.2	7178.8	6979.7	6971.8
12.5°	11174.3	10854.2	10002.2	9059.5	8135.9	7291.9	6427.1	5814.1	5287.0	5110.2	5035.3
15°	10852.6	10401.9	9307.9	8102.4	6981.3	5809.3	4825.1	4180.2	3692.9	3524.1	3492.3
17.5°	10540.5	9960.8	8596.1	7135.8	5780.6	4492.3	3506.6	3027.3	2767.7	2699.2	2697.6
20°	10229.9	9507.0	7852.4	6146.9	4619.7	3360.1	2696.0	2481.0	2393.5	2385.5	2372.8
22.5°	9878.0	9026.0	7070.5	5154.8	3605.3	2641.9	2291.5	2205.6	2194.4	2223.1	2223.1
25°	9548.4	8548.3	6277.5	4183.4	2804.3	2204.0	2046.3	2028.8	2059.0	2110.0	2114.8
27.5°	9241.0	8088.1	5503.5	3320.3	2247.0	1941.2	1875.9	1896.6	1950.8	2009.7	2011.3
30°	8987.8	7653.3	4751.9	2616.4	1898.2	1745.3	1734.2	1775.6	1834.5	1880.7	1891.8
32.5°	8791.9	7282.3	4025.7	2103.6	1670.5	1598.8	1608.4	1643.4	1680.0	1705.5	1723.0
35°	8701.2	6963.8	3355.3	1774.0	1525.6	1485.8	1498.5	1517.6	1533.5	1552.6	1567.0
37.5°	8717.1	6717.0	2756.5	1568.6	1428.4	1407.7	1407.7	1407.7	1407.7	1417.3	1418.9
40°	8865.2	6575.2	2269.2	1438.0	1363.1	1340.8	1323.3	1307.4	1294.7	1301.0	1297.9
42.5°	9244.2	6562.5	1912.5	1355.2	1310.6	1274.0	1238.9	1216.6	1200.7	1207.1	1210.3
45°	9887.6	6721.8	1672.1	1296.3	1261.2	1205.5	1160.9	1137.0	1125.9	1146.6	1149.8
47.5°	10720.4	7068.9	1525.6	1253.3	1215.0	1141.8	1094.0	1071.7	1074.9	1105.2	1113.1
50°	11793.7	7632.6	1455.5	1226.2	1183.2	1087.6	1038.3	1019.2	1028.7	1071.7	1081.3
52.5°	12972.1	8444.8	1463.5	1218.2	1162.5	1047.8	995.3	973.0	988.9	1028.7	1036.7
55°	14332.1	9421.0	1595.6	1229.4	1132.2	1022.4	960.3	922.0	934.8	971.4	977.8
57.5°	15843.3	10538.9	1861.6	1226.2	1094.0	998.5	923.6	866.3	875.9	898.1	904.5
60°	17416.7	11889.3	2274.0	1235.7	1076.5	969.8	874.3	802.6	799.4	818.5	821.7
62.5°	19305.3	13451.5	2745.4	1242.1	1087.6	933.2	809.0	738.9	729.3	734.1	737.3
65°	21251.3	14582.1	2568.6	1216.6	1122.7	902.9	751.6	676.8	659.3	656.1	657.7
67.5°	21311.8	13370.3	1801.1	1165.7	1137.0	887.0	708.6	624.2	595.6	584.4	582.8
70°	19112.6	10862.1	1403.0	1111.5	1079.7	861.5	668.8	581.2	538.2	520.7	519.1
71°	18039.3	9999.0	1329.7	1084.5	1036.7	836.0	651.3	562.1	517.5	498.4	495.3
72.5°	16356.1	8963.9	1240.5	1041.5	953.9	770.7	617.9	535.1	488.9	466.6	461.8
75°	11738.0	5861.8	1065.4	928.4	789.9	614.7	541.4	480.9	441.1	414.0	410.9
77.5°	4522.6	2332.9	805.8	772.3	605.1	480.9	445.9	415.6	387.0	359.9	358.3
80°	1398.2	1043.1	587.6	581.2	437.9	358.3	347.2	339.2	328.0	299.4	293.0
82.5°	746.9	598.8	404.5	375.8	286.6	238.9	251.6	254.8	256.4	226.1	222.9
85°	356.7	316.9	227.7	213.4	167.2	133.8	154.5	167.2	168.8	138.5	129.0
87.5°	170.4	165.6	106.7	81.2	62.1	44.6	54.1	66.9	73.3	52.6	46.2
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)