

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: P319603

Luminaire Tested: **GAN-SA9B-727-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319603
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-SA9B-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA 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: 42727 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

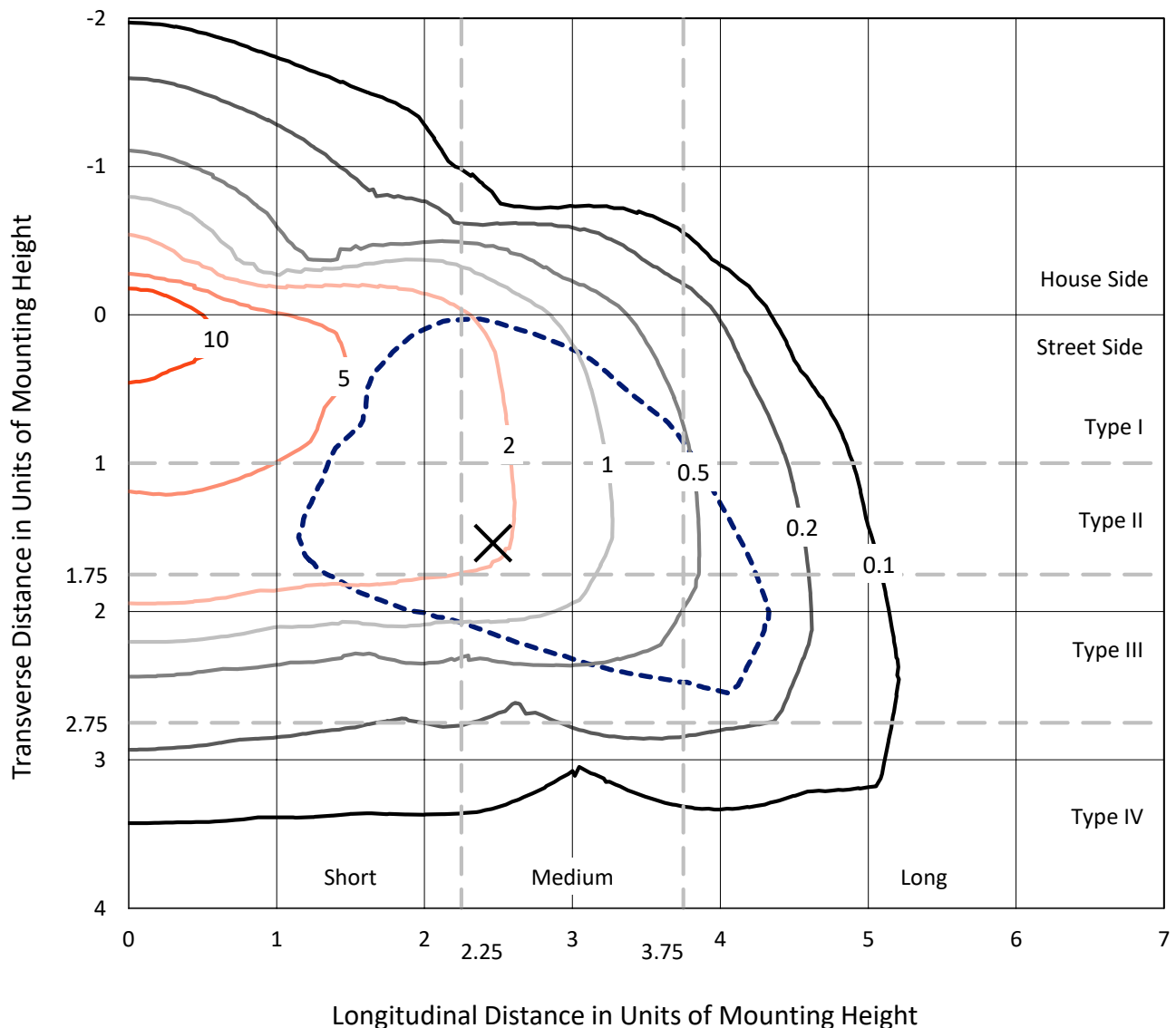
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

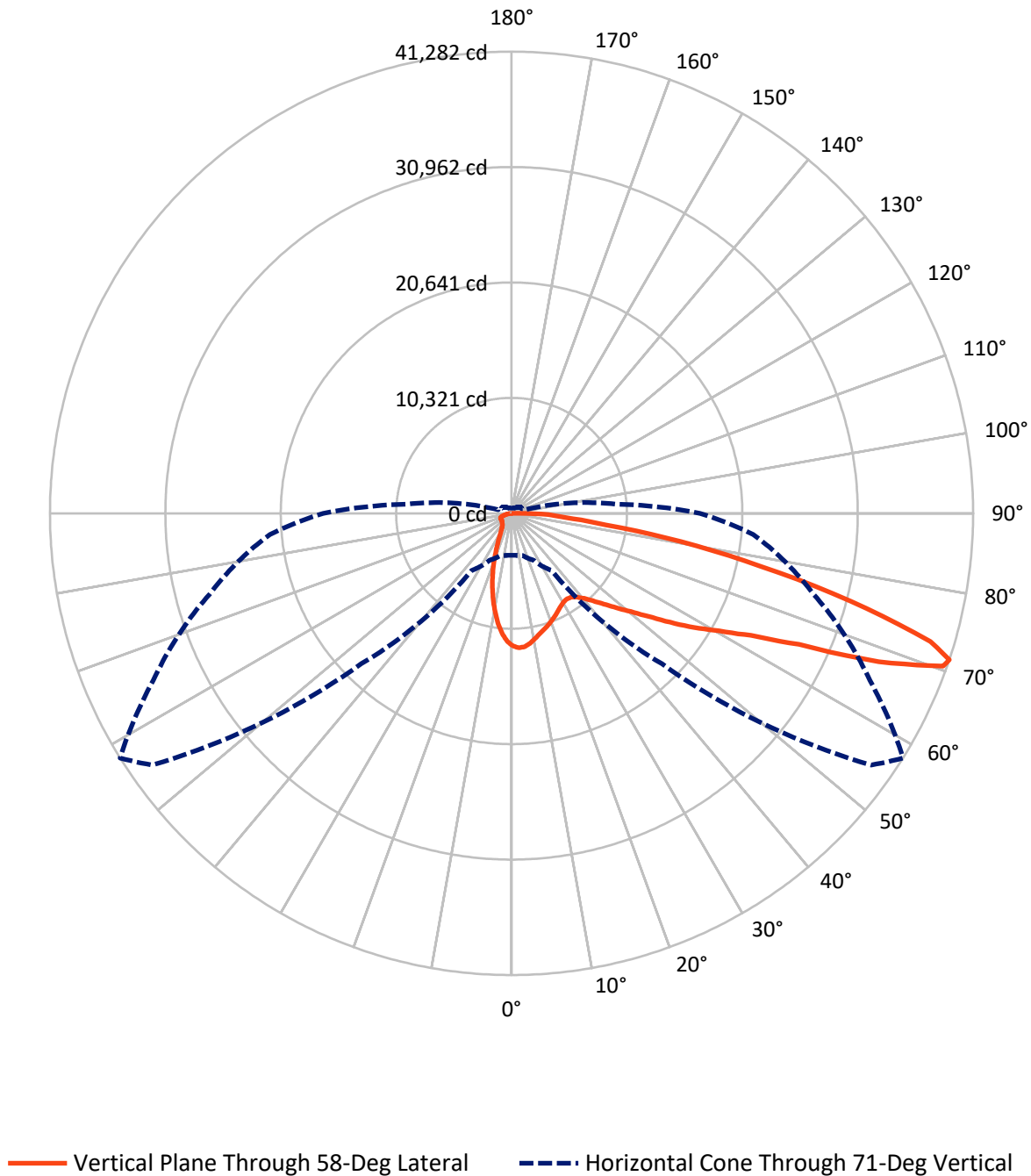
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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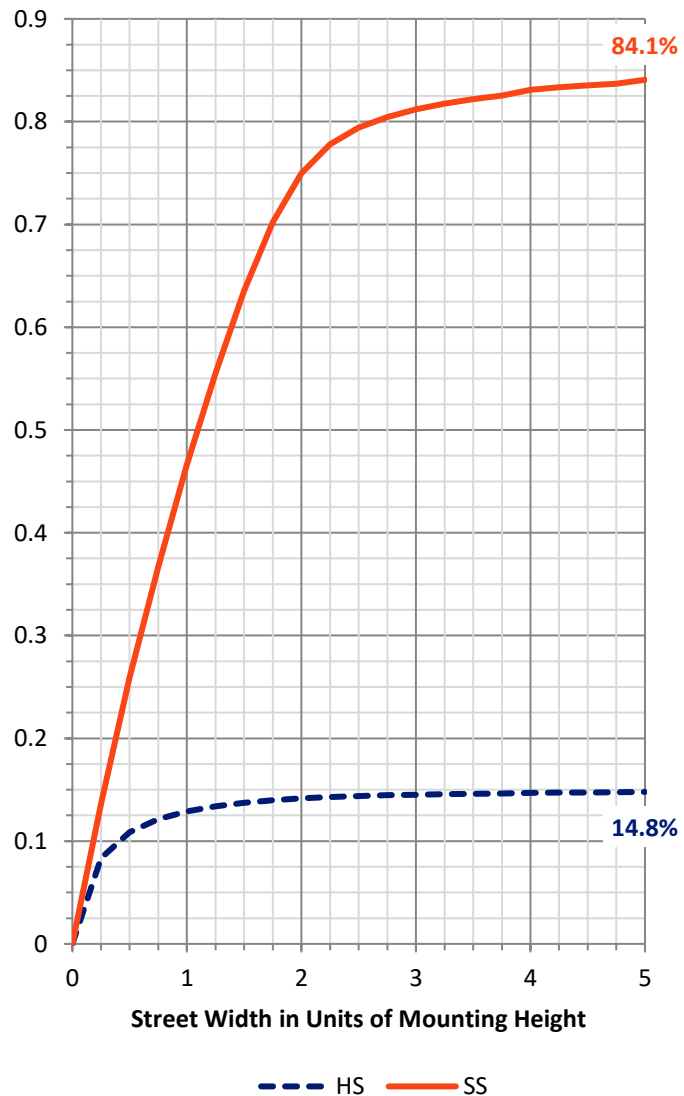
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6388.0	0.0	6388.0
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	36339.0	0.0	36339.0
	% Fixture	85.0	0.0	85.0
Total	Lumens	42727.0	0.0	42727.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1021.3	2.4
10°-20°	2270.9	5.3
20°-30°	2886.1	6.8
30°-40°	3676.4	8.6
40°-50°	5213.3	12.2
50°-60°	8067.7	18.9
60°-70°	10983.2	25.7
70°-80°	7327.1	17.1
80°-90°	1281.0	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°	42727.0	100.0
0°-180°	42727.0	100.0

Coefficient of Utilization



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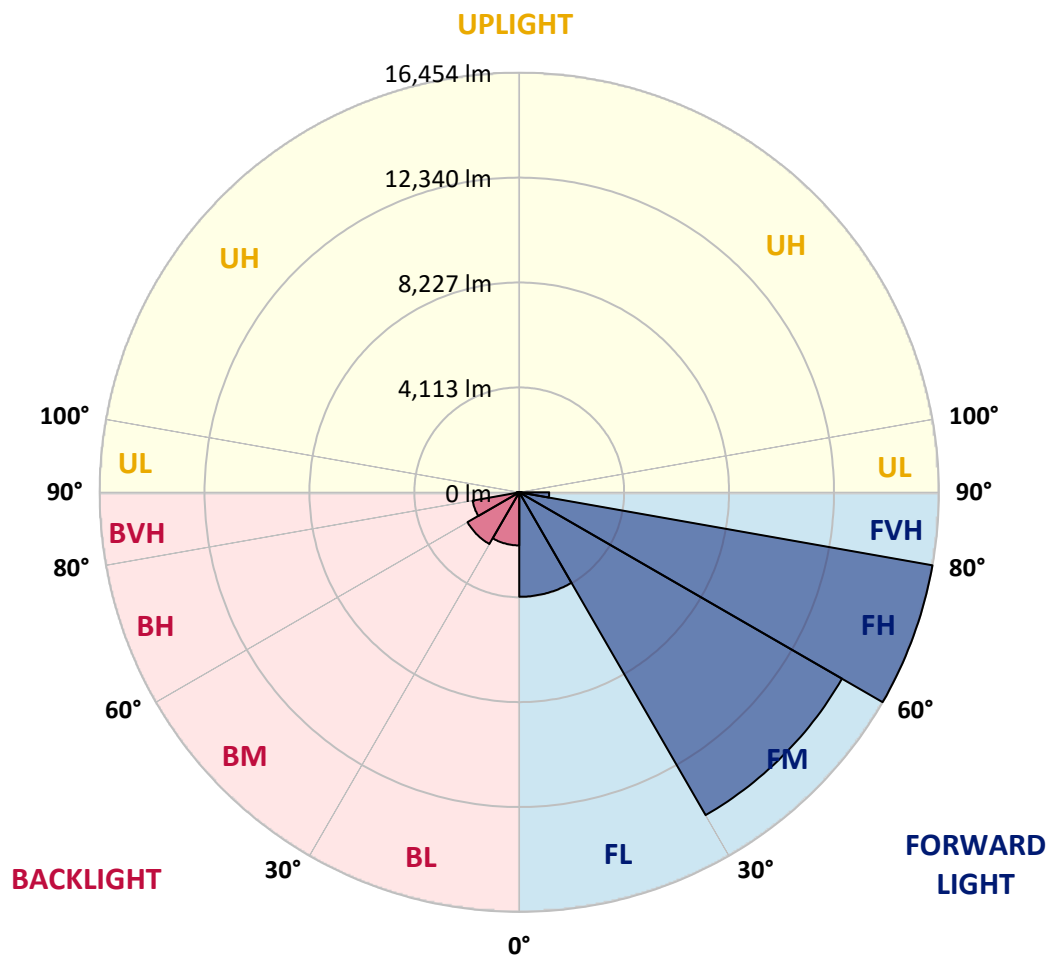
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4096.1	9.6			
FM	(30°-60°)	14614.7	34.2			
FH	(60°-80°)	16453.6	38.5			G5
FVH	(80°-90°)	1174.6	2.7			G5
BL	(0°-30°)	2082.3	4.9	B3/2500		
BM	(30°-60°)	2342.7	5.5	B2/2500		
BH	(60°-80°)	1856.6	4.3	B3/2500		G3/2500
BVH	(80°-90°)	106.4	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°	11838.2	11838.2	11838.2	11838.2	11838.2	11838.2	11838.2	11838.2	11838.2	11838.2	11838.2
2.5°	12152.3	12135.9	12141.9	12129.9	12101.7	12073.4	12031.7	12039.2	11981.1	11894.8	11787.6
5°	11923.1	11917.1	11961.8	11987.1	12007.9	11991.5	11979.6	11994.5	11909.7	11790.6	11604.6
7.5°	11442.3	11376.9	11433.4	11518.2	11598.6	11659.6	11740.0	11750.4	11696.8	11571.8	11327.7
10°	10759.2	10696.7	10780.0	10912.5	11073.2	11219.1	11381.3	11411.1	11421.5	11308.4	11012.2
12.5°	10050.7	10003.1	10086.5	10272.5	10538.9	10763.7	11022.6	11067.3	11159.6	11083.6	10720.5
15°	9416.7	9398.9	9500.1	9683.1	9989.7	10333.5	10707.1	10789.0	10945.2	10919.9	10492.8
17.5°	8869.0	8864.5	8941.9	9133.9	9473.3	9907.9	10393.1	10531.5	10763.7	10793.4	10305.2
20°	8461.2	8452.3	8505.8	8647.2	8997.0	9489.6	10053.7	10244.2	10579.1	10683.3	10111.8
22.5°	8242.4	8240.9	8242.4	8309.4	8595.1	9053.6	9723.3	9955.5	10399.0	10595.5	9897.4
25°	8205.2	8200.7	8168.0	8160.6	8322.8	8688.9	9395.9	9651.9	10227.9	10534.5	9693.5
27.5°	8301.9	8307.9	8264.7	8194.8	8227.5	8449.3	9111.6	9385.5	10090.9	10522.5	9552.1
30°	8502.9	8499.9	8462.7	8389.8	8325.8	8360.0	8909.2	9183.0	9998.7	10574.6	9455.4
32.5°	8724.6	8741.0	8733.6	8693.4	8598.1	8461.2	8848.2	9116.1	9971.9	10699.7	9413.7
35°	8991.0	9008.9	9062.5	9093.7	8982.1	8761.8	8979.1	9211.3	10049.3	10934.8	9480.7
37.5°	9244.1	9290.2	9440.5	9573.0	9477.7	9232.2	9327.4	9492.6	10288.9	11305.4	9660.8
40°	9535.8	9576.0	9821.5	10102.8	10088.0	9833.4	9888.5	9998.7	10711.6	11836.7	9986.7
42.5°	9823.0	9903.4	10259.1	10658.0	10772.6	10547.8	10635.7	10693.7	11306.9	12540.7	10555.3
45°	10205.5	10291.9	10786.0	11266.7	11534.6	11408.1	11548.0	11570.3	12055.5	13499.2	11381.3
47.5°	10784.5	10882.7	11458.7	11963.3	12372.5	12385.9	12616.6	12607.7	12990.2	14596.1	12421.7
50°	11686.4	11827.8	12299.6	12771.4	13268.5	13545.4	13853.4	13810.3	14110.9	15764.5	13619.8
52.5°	12868.2	12933.7	13283.4	13631.7	14249.3	14870.0	15312.0	15273.3	15382.0	16965.6	14980.1
55°	14093.1	14142.2	14286.6	14477.1	15307.5	16319.6	17254.3	17193.3	16917.9	18212.8	16324.1
57.5°	15194.4	15294.2	15393.9	15472.8	16373.2	17834.7	19241.2	19245.7	18584.9	19558.2	17712.7
60°	15365.6	15453.4	16112.7	16734.9	18196.4	19855.9	21368.1	21323.4	20309.9	21018.3	19260.6
62.5°	13582.6	13780.5	14881.9	16536.9	19952.7	23552.9	24081.3	24026.2	22372.7	22817.7	21063.0
65°	9733.7	9958.5	11287.6	13774.6	19101.3	27626.5	28977.9	28236.7	25185.6	25030.9	23173.4
67.5°	5615.5	5669.1	6245.1	8242.4	14544.0	27839.4	36447.9	35410.5	29553.9	27541.7	24206.3
70°	4152.5	4151.0	4287.9	5072.3	7870.3	22721.0	40000.6	40930.8	34152.9	28367.7	22746.3
71°	3755.1	3759.5	3912.8	4616.8	6233.2	19018.0	39246.0	41282.0	35364.4	27959.9	21689.5
72.5°	3211.8	3226.7	3439.5	4140.6	5243.4	13115.2	35995.4	39174.5	35938.9	26953.8	20036.0
75°	2436.4	2470.6	2765.3	3490.2	4792.4	6651.4	26418.0	31281.9	31926.3	23783.6	14887.8
77.5°	1738.4	1777.1	2110.5	2935.0	4555.8	5012.7	17691.9	22817.7	23494.9	15242.1	6715.4
80°	1098.4	1144.5	1396.1	2335.2	4280.5	4759.7	11117.9	15337.3	12811.6	4877.3	1708.6
82.5°	644.5	680.2	866.2	1525.5	3496.1	4584.1	6541.2	8501.4	4985.9	1473.5	776.9
85°	373.6	389.9	540.3	971.9	2539.1	4326.6	4805.8	4752.3	2164.0	720.4	367.6
87.5°	174.1	193.5	320.0	507.5	1409.5	3135.9	3798.2	3281.8	1345.5	337.9	172.6
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°	11838.2	11838.2	11838.2	11838.2	11838.2	11838.2	11838.2	11838.2	11838.2	11838.2	11838.2
2.5°	11735.5	11710.2	11604.6	11510.8	11412.6	11284.6	11143.2	11125.3	11039.0	11055.4	11025.6
5°	11503.4	11439.4	11184.9	10954.2	10681.8	10437.7	10172.8	10050.7	9875.1	9863.2	9818.6
7.5°	11171.5	11052.4	10658.0	10220.4	9782.8	9366.1	8953.8	8683.0	8406.1	8288.6	8278.1
10°	10797.9	10595.5	10015.0	9367.6	8736.5	8127.8	7538.4	7102.3	6709.4	6523.4	6515.9
12.5°	10443.7	10144.5	9348.2	8467.2	7603.9	6815.1	6006.9	5433.9	4941.3	4776.1	4706.1
15°	10143.0	9721.8	8699.3	7572.7	6524.9	5429.5	4509.7	3906.9	3451.5	3293.7	3263.9
17.5°	9851.3	9309.6	8034.0	6669.2	5402.7	4198.6	3277.3	2829.3	2586.7	2522.7	2521.2
20°	9561.1	8885.4	7339.0	5745.0	4317.7	3140.4	2519.8	2318.8	2237.0	2229.5	2217.6
22.5°	9232.2	8435.9	6608.2	4817.7	3369.6	2469.2	2141.7	2061.3	2050.9	2077.7	2077.7
25°	8924.1	7989.4	5867.0	3909.9	2621.0	2059.9	1912.5	1896.1	1924.4	1972.0	1976.5
27.5°	8636.8	7559.3	5143.7	3103.2	2100.0	1814.3	1753.3	1772.6	1823.2	1878.3	1879.8
30°	8400.2	7152.9	4441.2	2445.3	1774.1	1631.2	1620.8	1659.5	1714.6	1757.7	1768.1
32.5°	8217.1	6806.2	3762.5	1966.1	1561.3	1494.3	1503.2	1536.0	1570.2	1594.0	1610.4
35°	8132.3	6508.5	3135.9	1658.0	1425.8	1388.6	1400.5	1418.4	1433.3	1451.1	1464.5
37.5°	8147.2	6277.8	2576.3	1466.0	1335.0	1315.7	1315.7	1315.7	1315.7	1324.6	1326.1
40°	8285.6	6145.3	2120.9	1344.0	1274.0	1253.2	1236.8	1221.9	1210.0	1216.0	1213.0
42.5°	8639.8	6133.4	1787.5	1266.6	1224.9	1190.7	1157.9	1137.1	1122.2	1128.2	1131.1
45°	9241.1	6282.3	1562.8	1211.5	1178.8	1126.7	1085.0	1062.7	1052.3	1071.6	1074.6
47.5°	10019.5	6606.7	1425.8	1171.3	1135.6	1067.1	1022.5	1001.7	1004.6	1032.9	1040.3
50°	11022.6	7133.6	1360.3	1146.0	1105.8	1016.5	970.4	952.5	961.5	1001.7	1010.6
52.5°	12124.0	7892.7	1367.8	1138.6	1086.5	979.3	930.2	909.4	924.3	961.5	968.9
55°	13395.0	8805.0	1491.3	1149.0	1058.2	955.5	897.5	861.7	873.7	907.9	913.8
57.5°	14807.5	9849.8	1739.9	1146.0	1022.5	933.2	863.2	809.7	818.6	839.4	845.4
60°	16277.9	11111.9	2125.3	1154.9	1006.1	906.4	817.1	750.1	747.1	765.0	768.0
62.5°	18043.1	12572.0	2565.9	1160.9	1016.5	872.2	756.1	690.6	681.7	686.1	689.1
65°	19861.9	13628.7	2400.7	1137.1	1049.3	843.9	702.5	632.5	616.2	613.2	614.7
67.5°	19918.4	12496.1	1683.3	1089.5	1062.7	829.0	662.3	583.4	556.6	546.2	544.7
70°	17863.0	10151.9	1311.2	1038.9	1009.1	805.2	625.1	543.2	503.1	486.7	485.2
71°	16859.9	9345.3	1242.8	1013.6	968.9	781.4	608.7	525.4	483.7	465.8	462.9
72.5°	15286.7	8377.9	1159.4	973.4	891.5	720.4	577.5	500.1	456.9	436.1	431.6
75°	10970.5	5478.6	995.7	867.7	738.2	574.5	506.0	449.5	412.3	387.0	384.0
77.5°	4226.9	2180.4	753.1	721.8	565.6	449.5	416.7	388.5	361.7	336.4	334.9
80°	1306.8	974.9	549.2	543.2	409.3	334.9	324.5	317.0	306.6	279.8	273.9
82.5°	698.0	559.6	378.0	351.2	267.9	223.3	235.2	238.1	239.6	211.3	208.4
85°	333.4	296.2	212.8	199.4	156.3	125.0	144.4	156.3	157.8	129.5	120.6
87.5°	159.3	154.8	99.7	75.9	58.0	41.7	50.6	62.5	68.5	49.1	43.2
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)