

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: P323773

Luminaire Tested: **GAN-SA9C-727-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323773
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42918 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 501
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

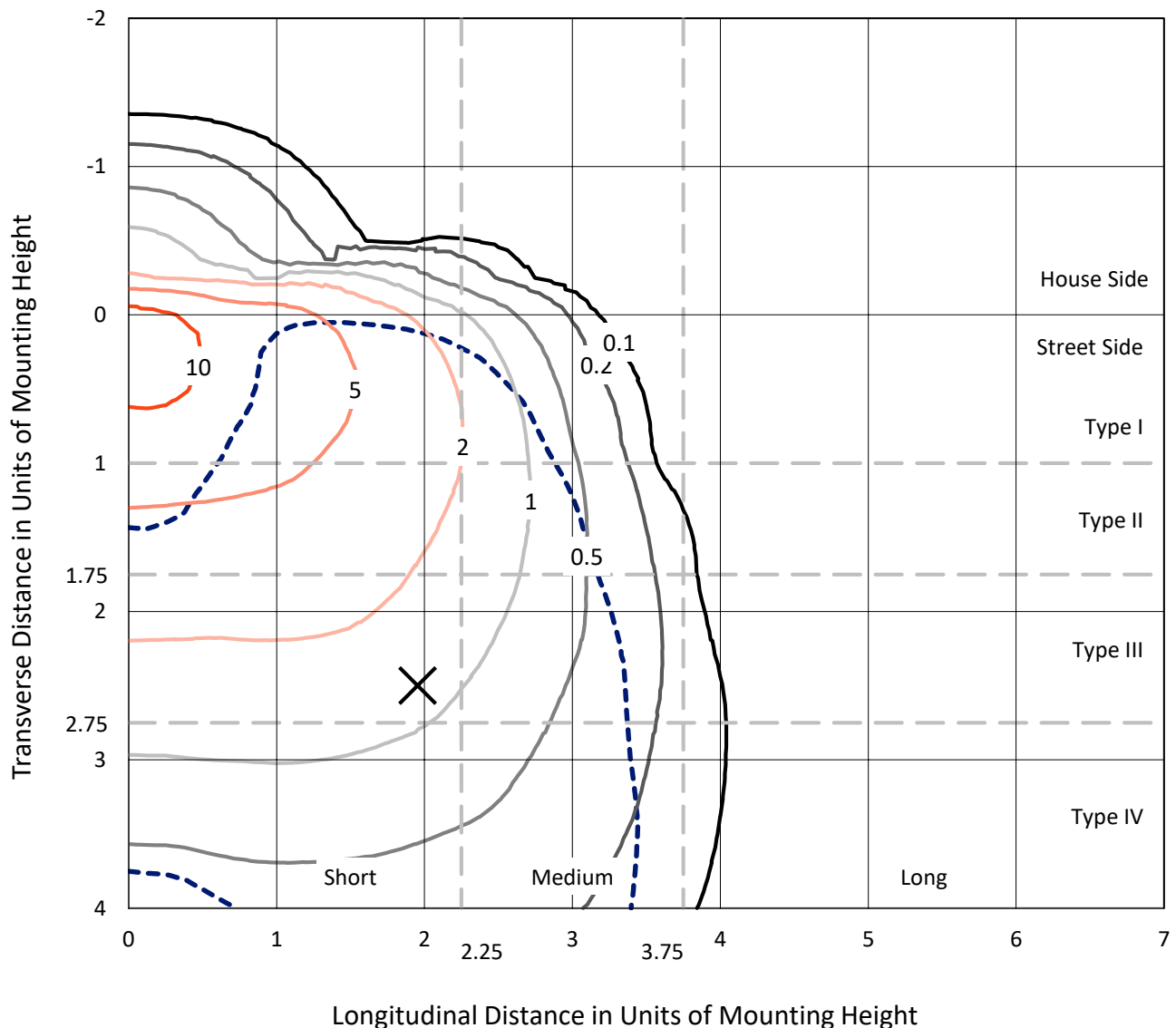


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Iso-Footcandle Lines of Horizontal Illumination

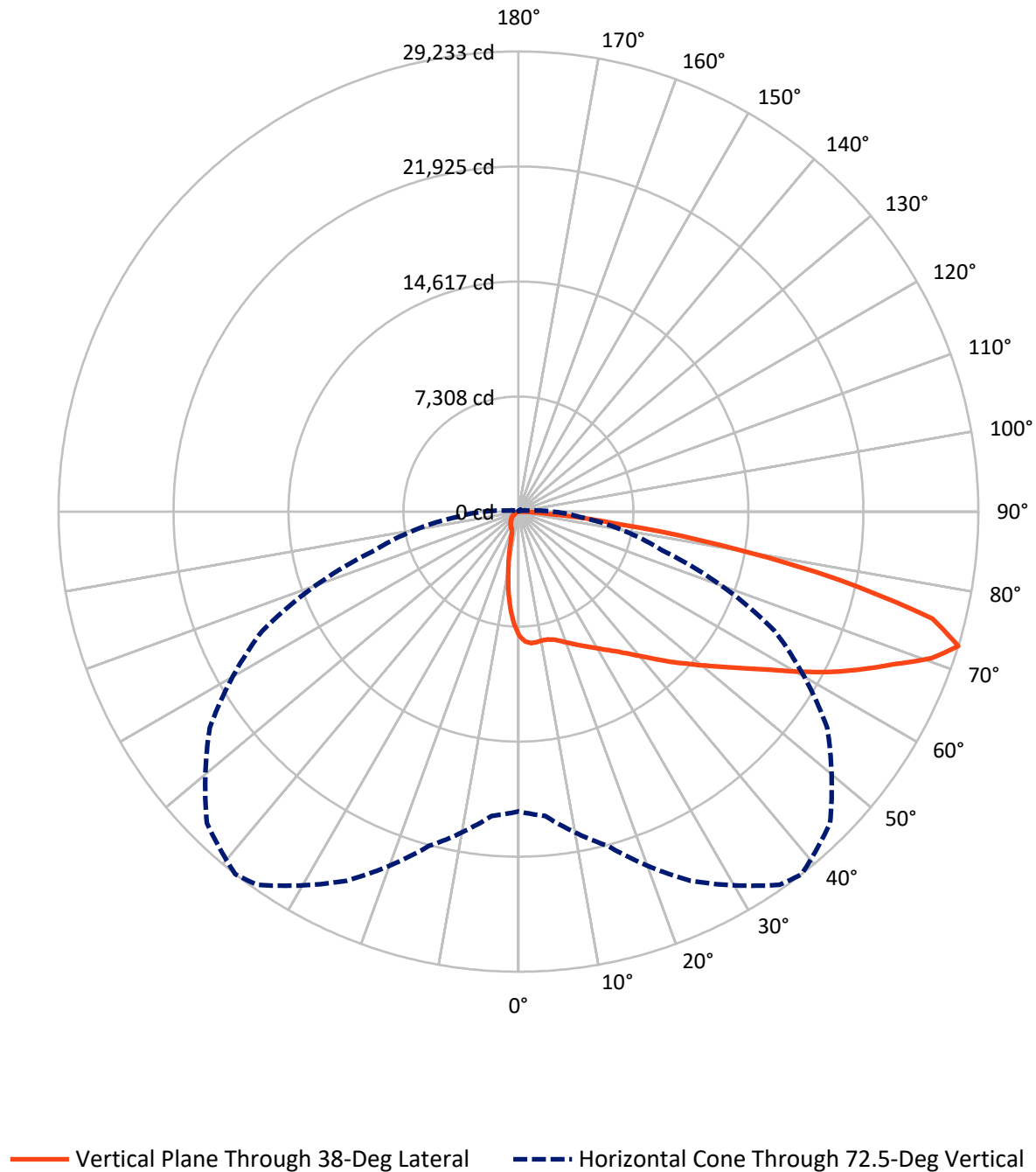
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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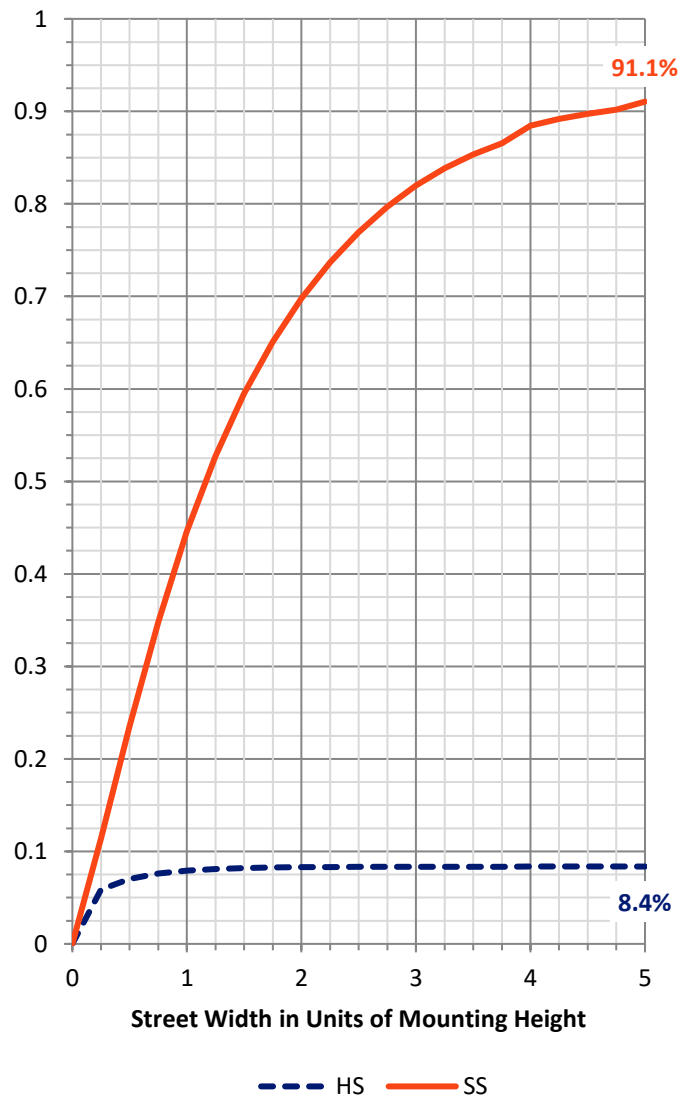
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3611.7	0.0	3611.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	39306.3	0.0	39306.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	42918.0	0.0	42918.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	672.6	1.6
10°-20°	1644.6	3.8
20°-30°	2615.8	6.1
30°-40°	3932.5	9.2
40°-50°	5999.3	14.0
50°-60°	8479.1	19.8
60°-70°	10635.6	24.8
70°-80°	7952.4	18.5
80°-90°	986.1	2.3
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°	42918.0	100.0
0°-180°	42918.0	100.0

Coefficient of Utilization



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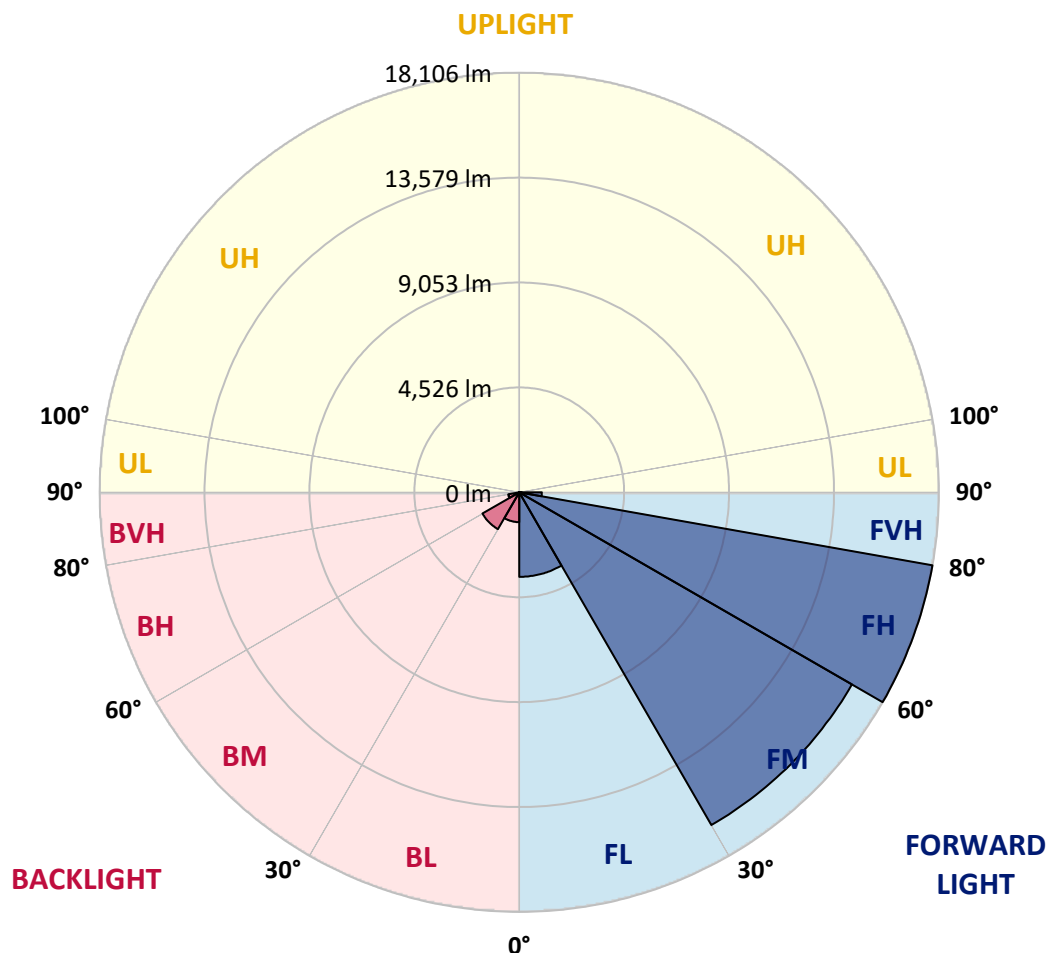
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3647.0	8.5			
FM	(30°-60°)	16576.8	38.6			
FH	(60°-80°)	18105.6	42.2			G5
FVH	(80°-90°)	976.9	2.3			G5
BL	(0°-30°)	1286.0	3.0	B3/2500		
BM	(30°-60°)	1834.1	4.3	B2/2500		
BH	(60°-80°)	482.4	1.1	B1/500		G1/500
BVH	(80°-90°)	9.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	7892.5	7892.5	7892.5	7892.5	7892.5	7892.5	7892.5	7892.5	7892.5	7892.5	7892.5
2.5°	8377.3	8379.1	8359.5	8327.4	8286.4	8265.0	8229.4	8172.3	8111.7	8003.0	7885.3
5°	8548.4	8548.4	8523.4	8480.7	8414.7	8395.1	8327.4	8236.5	8111.7	7935.3	7737.4
7.5°	8530.6	8534.1	8500.3	8455.7	8389.8	8371.9	8290.0	8188.4	8033.3	7819.4	7566.3
10°	8437.9	8446.8	8420.1	8398.7	8338.1	8318.5	8241.8	8140.2	7985.2	7757.0	7466.5
12.5°	8343.4	8352.3	8361.3	8380.9	8343.4	8336.3	8275.7	8190.1	8042.2	7805.1	7477.2
15°	8282.8	8300.6	8364.8	8441.5	8450.4	8443.2	8404.0	8323.8	8174.1	7928.1	7553.8
17.5°	8282.8	8311.3	8445.0	8591.2	8642.9	8648.2	8614.4	8502.1	8323.8	8060.0	7625.1
20°	8352.3	8391.6	8600.1	8806.9	8892.4	8892.4	8826.5	8669.6	8461.1	8179.4	7673.2
22.5°	8530.6	8582.3	8844.3	9083.1	9174.0	9154.4	9065.3	8837.2	8603.7	8314.9	7733.8
25°	8881.7	8920.9	9193.6	9434.3	9489.5	9445.0	9332.7	9040.3	8785.5	8498.5	7844.4
27.5°	9334.4	9339.8	9621.4	9824.6	9790.7	9760.4	9619.6	9295.2	9047.5	8760.5	8035.1
30°	9831.7	9831.7	10079.5	10234.6	10131.2	10106.2	9965.4	9603.6	9382.6	9117.0	8306.0
32.5°	10313.0	10334.4	10535.8	10633.8	10518.0	10493.0	10355.8	9993.9	9828.2	9660.6	8728.4
35°	10778.2	10794.2	10984.9	11038.4	10927.9	10935.0	10837.0	10530.4	10468.1	10446.7	9364.7
37.5°	11229.1	11232.7	11427.0	11460.8	11405.6	11466.2	11475.1	11204.2	11320.0	11492.9	10261.3
40°	11640.9	11644.4	11836.9	11924.3	12018.7	12097.2	12166.7	12022.3	12405.5	12806.6	11329.0
42.5°	11970.6	12008.0	12252.2	12418.0	12667.5	12817.3	13006.2	12999.1	13697.8	14300.2	12619.4
45°	12261.1	12325.3	12665.8	12956.3	13384.1	13622.9	13918.8	14150.5	15152.2	15963.2	13925.9
47.5°	12644.4	12705.0	13093.5	13569.4	14139.8	14453.5	14943.7	15444.5	16751.0	17595.9	15202.1
50°	13184.4	13157.7	13540.9	14223.6	14956.1	15367.9	16066.6	16817.0	18337.4	19018.2	15952.5
52.5°	13760.1	13749.5	14032.9	14934.8	15918.6	16399.9	17323.2	18235.8	19854.2	19998.6	16296.5
55°	14473.1	14396.5	14635.3	15745.7	17061.2	17578.1	18665.3	19640.3	21062.7	20551.1	16469.4
57.5°	15219.9	15093.4	15321.5	16649.4	18349.8	18961.2	20151.8	21009.2	21866.5	20929.0	16467.6
60°	15991.7	15842.0	16112.9	17779.5	19950.4	20658.0	21763.1	21934.2	22616.9	21119.7	16346.4
62.5°	16636.9	16547.8	16950.6	18987.9	21738.2	22433.3	22980.5	22775.5	23249.7	21267.6	16063.0
65°	17319.6	17325.0	17975.5	20397.8	23638.2	24107.0	24153.3	23866.4	23779.0	21237.3	15104.1
67.5°	18242.9	18328.4	19413.9	22312.1	25486.6	25848.4	25844.8	25048.1	24165.8	20032.4	12977.7
70°	19219.6	19421.1	21071.6	24502.7	27504.3	27871.4	27682.5	25800.3	22754.2	16198.5	9184.7
72.5°	19055.7	19405.0	21993.1	25884.1	28953.3	29233.2	28005.1	23951.9	17984.4	9414.7	3910.6
75°	14701.3	15105.9	20166.1	24515.2	27433.0	27181.6	24062.4	18638.6	9828.2	2627.3	880.5
77.5°	7765.9	7981.6	13321.7	18676.0	21390.6	20864.8	16950.6	10339.7	2996.2	650.6	395.7
80°	4067.4	4117.4	5805.3	10596.4	13202.3	13205.8	10045.6	4541.6	1235.2	333.3	265.6
82.5°	2178.1	2220.9	3067.5	4896.3	6917.5	6270.5	3846.4	2498.9	718.3	188.9	254.9
85°	524.0	532.9	1739.6	2236.9	2719.9	1942.8	1142.5	2097.9	194.3	110.5	206.8
87.5°	201.4	205.0	645.2	967.8	693.4	449.2	534.7	782.5	25.0	42.8	32.1
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°	7892.5	7892.5	7892.5	7892.5	7892.5	7892.5	7892.5	7892.5	7892.5	7892.5	7892.5
2.5°	7814.1	7767.7	7653.6	7509.3	7380.9	7288.2	7149.2	7058.3	6997.7	6995.9	6972.8
5°	7616.2	7521.7	7275.8	6983.5	6717.9	6479.0	6197.4	5974.6	5808.9	5782.1	5725.1
7.5°	7404.1	7249.0	6871.2	6414.9	5969.3	5516.5	4990.7	4664.5	4384.7	4251.0	4236.8
10°	7274.0	7056.5	6520.0	5860.5	5161.8	4425.7	3737.7	3261.8	2917.8	2819.8	2746.7
12.5°	7247.2	6960.3	6249.1	5340.1	4341.9	3368.7	2607.7	2101.5	1827.0	1739.6	1716.5
15°	7274.0	6915.7	6021.0	4825.0	3511.3	2390.2	1750.3	1456.2	1352.8	1327.9	1326.1
17.5°	7290.0	6862.3	5762.5	4252.8	2705.7	1707.5	1340.4	1254.8	1238.8	1237.0	1240.6
20°	7288.2	6780.3	5454.2	3614.7	2012.3	1342.1	1212.0	1194.2	1190.6	1192.4	1190.6
22.5°	7275.8	6684.0	5115.5	2957.0	1520.4	1199.6	1156.8	1146.1	1144.3	1144.3	1144.3
25°	7298.9	6607.4	4743.0	2327.8	1253.0	1133.6	1106.9	1098.0	1096.2	1096.2	1092.6
27.5°	7382.7	6564.6	4334.8	1791.3	1131.8	1074.8	1053.4	1051.6	1046.3	1044.5	1048.1
30°	7518.2	6564.6	3887.4	1393.8	1058.7	1014.2	998.1	994.6	992.8	991.0	992.8
32.5°	7757.0	6614.5	3399.0	1158.6	989.2	946.5	935.8	941.1	935.8	935.8	935.8
35°	8188.4	6764.2	2887.5	1010.6	916.2	880.5	869.8	876.9	873.4	873.4	871.6
37.5°	8817.5	7042.3	2372.4	921.5	852.0	814.6	800.3	811.0	807.4	807.4	805.6
40°	9584.0	7446.9	1882.2	853.8	789.6	750.4	737.9	743.3	734.3	734.3	737.9
42.5°	10530.4	7960.2	1454.4	787.8	727.2	689.8	682.7	677.3	661.3	652.4	654.1
45°	11582.1	8494.9	1133.6	723.7	668.4	638.1	627.4	613.1	586.4	568.6	570.4
47.5°	12521.4	8906.7	921.5	661.3	614.9	591.8	575.7	549.0	509.8	488.4	490.2
50°	13015.1	8969.0	784.3	598.9	565.0	541.9	518.7	477.7	431.3	408.2	406.4
52.5°	13141.7	8676.7	682.7	541.9	515.1	488.4	458.1	402.8	351.1	326.2	322.6
55°	13188.0	8231.1	591.8	488.4	461.6	431.3	392.1	329.7	281.6	256.7	254.9
57.5°	13034.7	7566.3	520.5	440.3	408.2	370.7	322.6	263.8	217.5	197.8	197.8
60°	12694.3	6666.2	465.2	388.6	352.9	310.1	260.2	205.0	162.2	146.2	146.2
62.5°	12015.2	5500.5	413.5	335.1	301.2	256.7	210.3	155.1	114.1	105.2	106.9
65°	10733.6	4172.6	361.8	287.0	256.7	212.1	164.0	110.5	76.6	76.6	80.2
67.5°	8753.4	2898.2	308.4	244.2	221.0	172.9	124.8	76.6	53.5	60.6	67.7
70°	5794.6	1625.6	263.8	201.4	188.9	137.2	92.7	51.7	42.8	57.0	69.5
72.5°	2187.0	632.8	221.0	162.2	164.0	105.2	65.9	39.2	39.2	62.4	82.0
75°	609.6	310.1	158.6	119.4	128.3	76.6	48.1	33.9	37.4	71.3	96.2
77.5°	358.3	228.1	103.4	69.5	87.3	53.5	32.1	26.7	32.1	60.6	92.7
80°	288.7	121.2	60.6	35.6	48.1	30.3	21.4	16.0	8.9	23.2	48.1
82.5°	288.7	73.1	28.5	25.0	25.0	16.0	10.7	7.1	1.8	0.0	12.5
85°	194.3	30.3	17.8	16.0	12.5	5.3	3.6	1.8	0.0	0.0	0.0
87.5°	32.1	12.5	7.1	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
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)