

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: P323462

Luminaire Tested: **GAN-SA8D-727-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323462
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44428 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

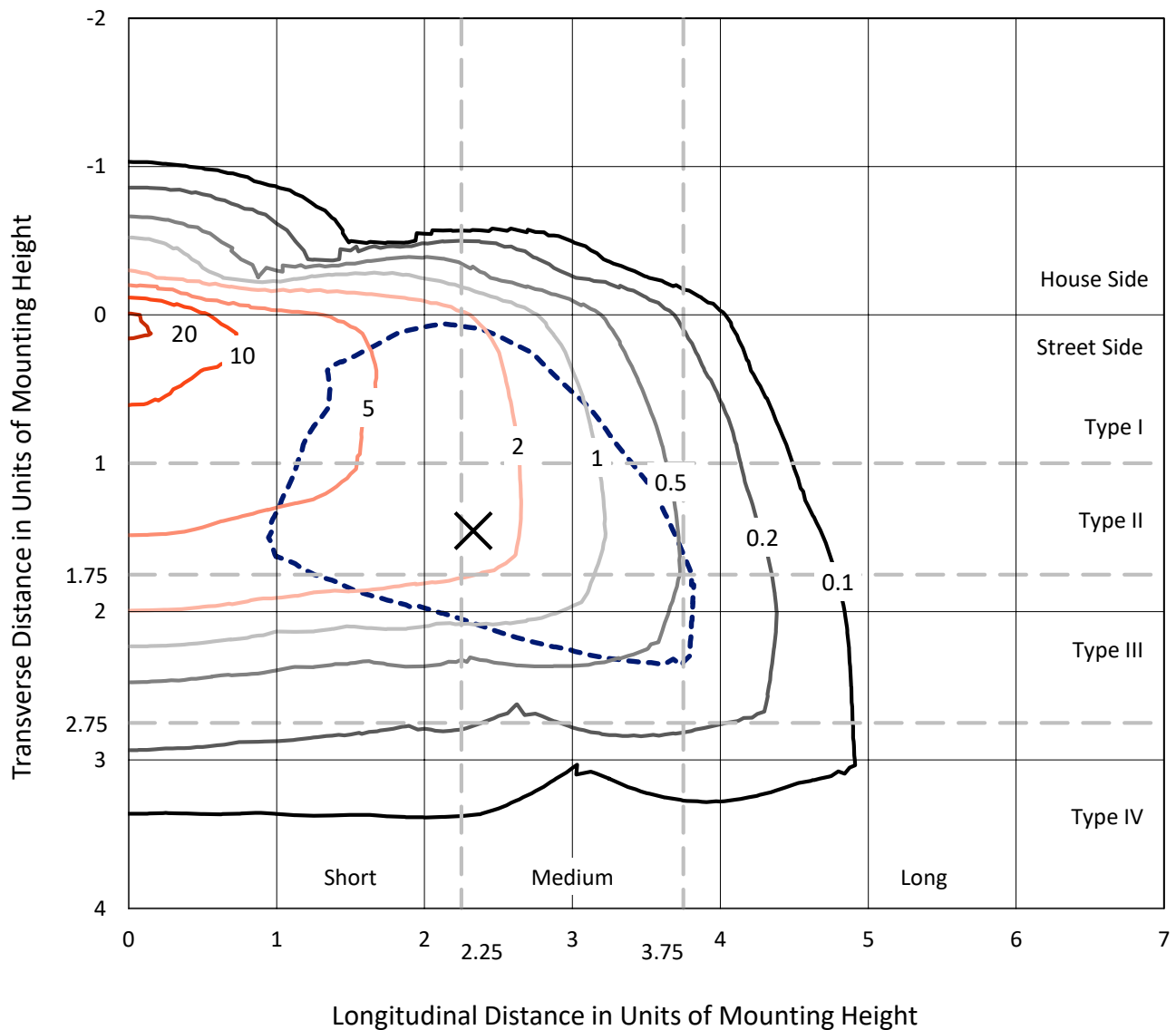
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

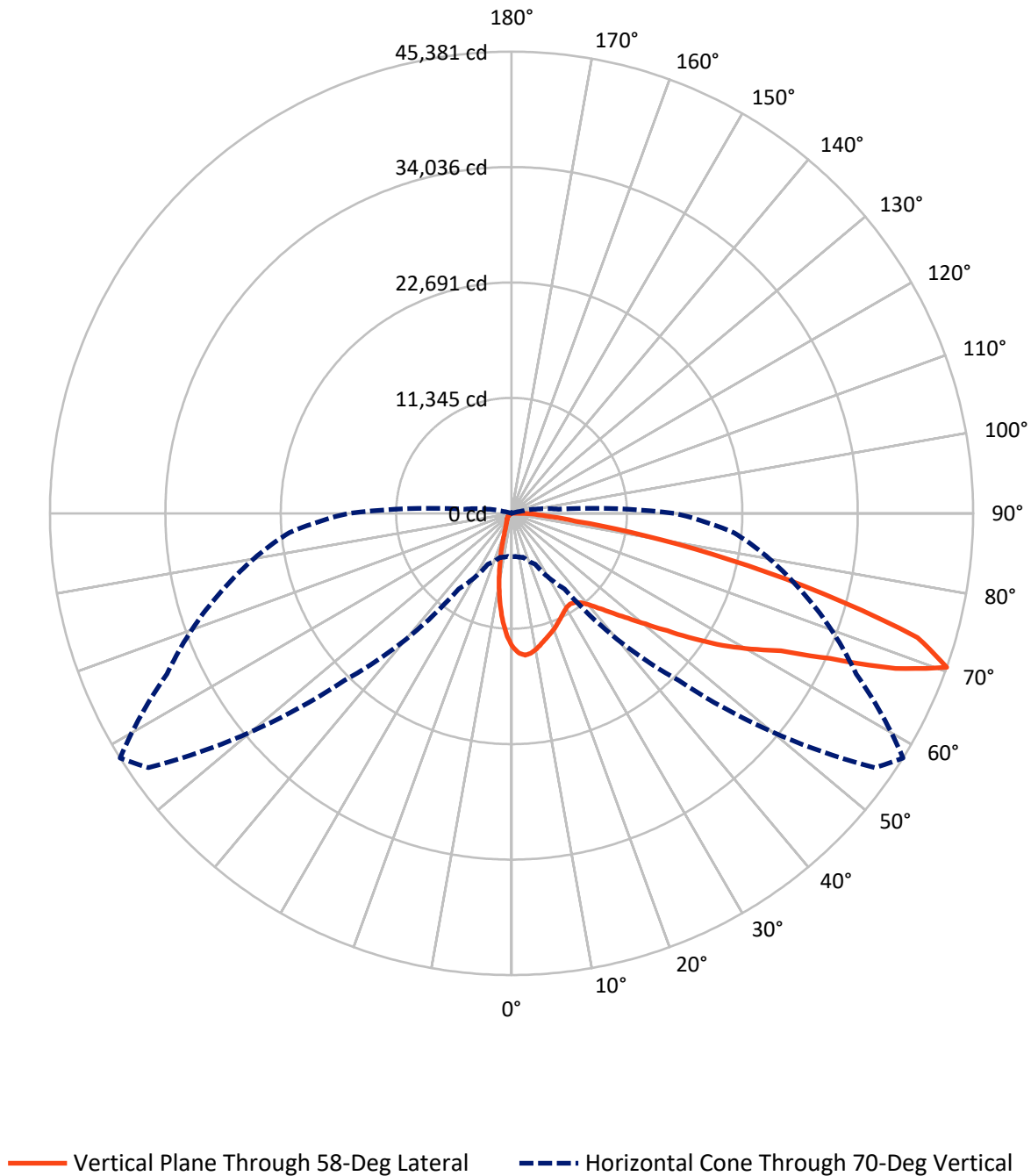
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.3 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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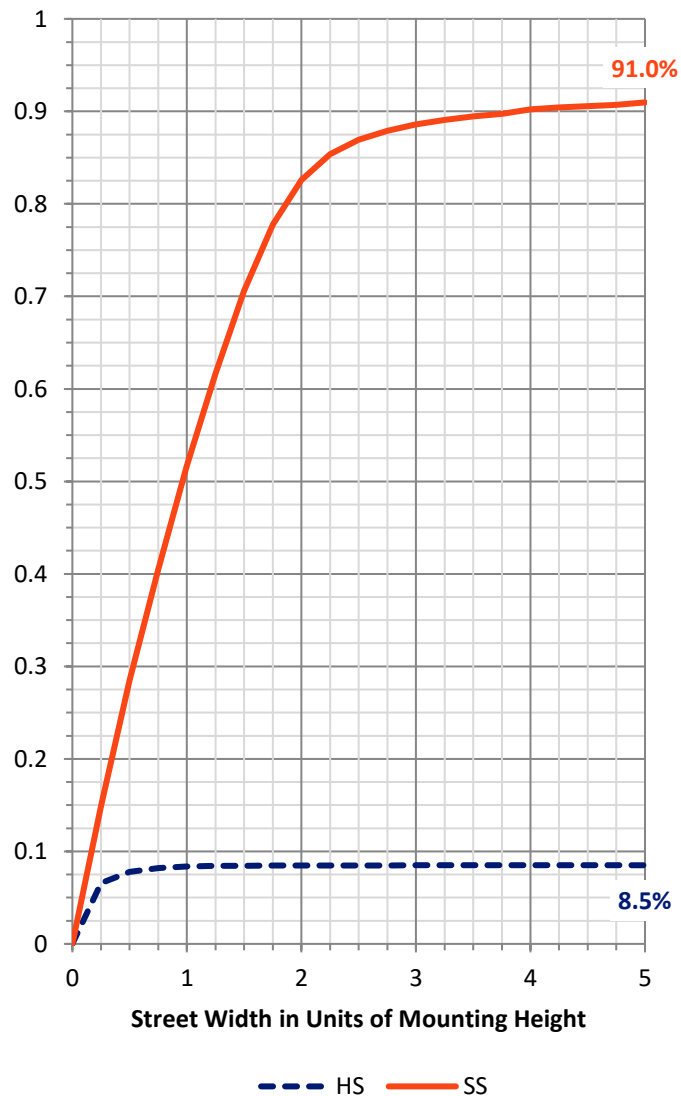
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3802.0	0.0	3802.0
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	40625.9	0.0	40625.9
	% Fixture	91.4	0.0	91.4
Total	Lumens	44428.0	0.0	44428.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1073.2	2.4
10°-20°	2252.4	5.1
20°-30°	2961.1	6.7
30°-40°	3921.6	8.8
40°-50°	5861.7	13.2
50°-60°	9390.1	21.1
60°-70°	11836.2	26.6
70°-80°	6384.4	14.4
80°-90°	747.3	1.7
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°	44428.0	100.0
0°-180°	44428.0	100.0

Coefficient of Utilization



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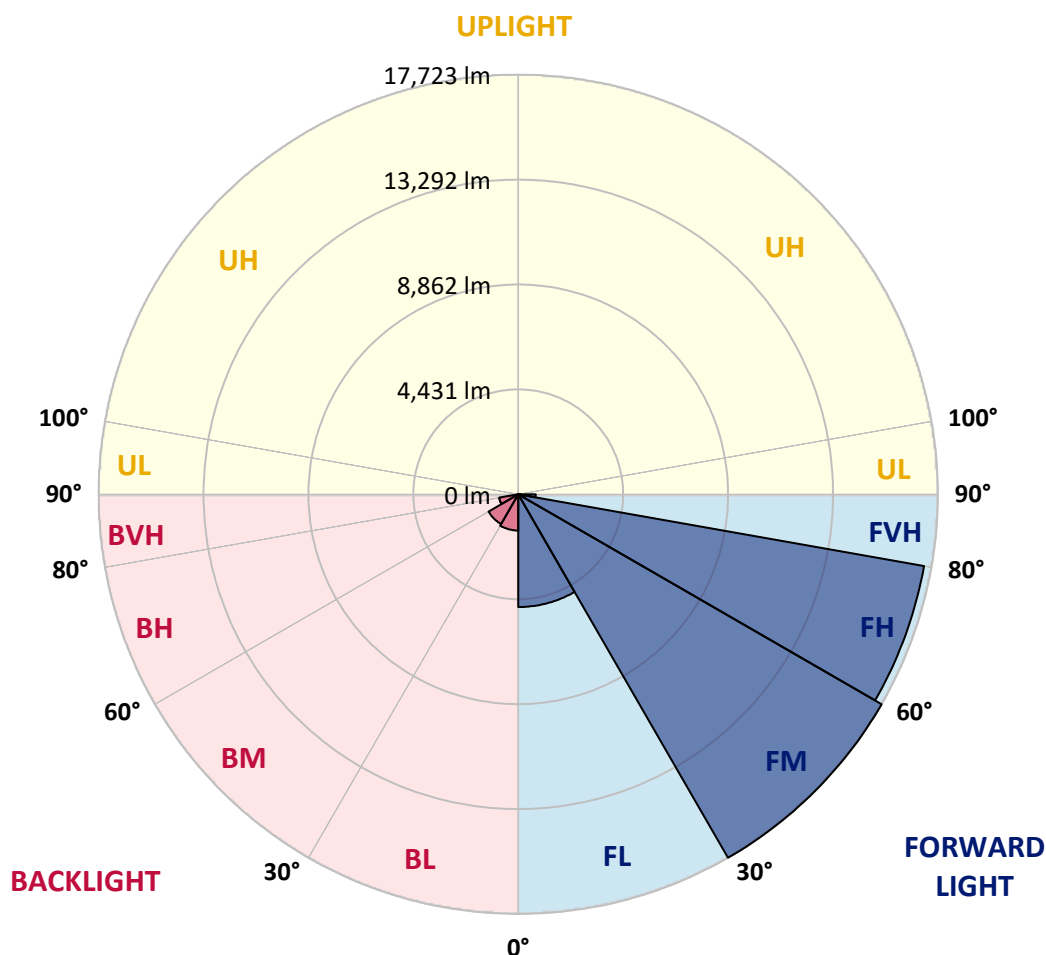
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4759.2	10.7			
FM	(30°-60°)	17723.0	39.9			
FH	(60°-80°)	17402.9	39.2			G5
FVH	(80°-90°)	740.9	1.7			G4/750
BL	(0°-30°)	1527.5	3.4	B3/2500		
BM	(30°-60°)	1450.4	3.3	B2/2500		
BH	(60°-80°)	817.6	1.8	B2/1000		G2/1000
BVH	(80°-90°)	6.4	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	13123.8	13123.8	13123.8	13123.8	13123.8	13123.8	13123.8	13123.8	13123.8	13123.8	13123.8
2.5°	14211.9	14176.8	14163.9	14141.7	14056.8	13973.6	13809.2	13763.0	13659.6	13413.9	13153.4
5°	14223.0	14221.2	14260.0	14250.7	14221.2	14182.4	14064.1	14003.2	13827.7	13476.7	13000.0
7.5°	13537.6	13572.7	13659.6	13729.8	13811.0	13916.3	13931.1	13872.0	13727.9	13349.2	12717.4
10°	12617.6	12673.1	12795.0	12933.5	13146.0	13356.6	13545.0	13537.6	13487.8	13114.6	12377.5
12.5°	11695.8	11760.5	11900.9	12105.9	12407.0	12750.6	13086.9	13133.1	13216.2	12904.0	12063.4
15°	10888.5	10943.9	11082.5	11333.7	11706.9	12168.7	12662.0	12747.0	12961.3	12739.6	11801.1
17.5°	10203.1	10238.2	10339.8	10618.8	11051.1	11610.8	12251.9	12418.1	12737.7	12610.2	11573.9
20°	9724.6	9730.2	9796.7	9992.5	10424.8	11051.1	11827.0	12065.3	12501.3	12499.4	11339.2
22.5°	9488.2	9469.7	9482.6	9595.3	9913.1	10517.2	11402.1	11684.7	12288.8	12405.2	11100.9
25°	9443.8	9429.1	9392.1	9406.9	9599.0	10049.8	10973.5	11300.5	12102.2	12347.9	10894.0
27.5°	9582.4	9597.2	9534.4	9467.8	9482.6	9746.8	10592.9	10971.6	11950.7	12347.9	10748.1
30°	9861.3	9868.7	9822.5	9735.7	9619.3	9661.8	10328.7	10707.4	11875.0	12432.9	10655.7
32.5°	10169.9	10210.5	10205.0	10134.8	9968.5	9796.7	10265.9	10611.4	11869.4	12621.3	10646.5
35°	10552.3	10598.4	10676.0	10661.3	10487.6	10205.0	10480.2	10751.8	11978.4	12931.7	10746.2
37.5°	10958.7	11028.9	11195.2	11274.6	11161.9	10842.3	10960.5	11154.5	12270.3	13434.2	10999.3
40°	11352.2	11431.6	11734.6	12046.8	11961.8	11633.0	11688.4	11843.6	12789.4	14156.5	11479.6
42.5°	11738.3	11856.5	12301.7	12815.3	12916.9	12654.6	12684.1	12807.9	13559.8	15150.4	12264.8
45°	12200.1	12333.1	12992.7	13626.3	13897.9	13783.3	13909.0	13990.2	14566.6	16463.9	13323.3
47.5°	12878.1	13031.5	13840.6	14562.9	15039.6	15113.5	15366.5	15420.1	15839.5	17993.5	14703.3
50°	14200.8	14243.3	14974.9	15630.7	16317.9	16761.3	17049.5	17090.2	17380.2	19665.4	16426.9
52.5°	15865.3	15893.1	16306.9	16746.5	17528.0	18433.2	19107.5	19164.8	19225.7	21294.8	18128.4
55°	17518.7	17515.1	17788.5	18047.1	18941.2	20256.6	21719.7	21754.8	21317.0	22841.1	19428.9
57.5°	18551.4	18651.2	19066.9	19399.4	20648.2	22334.9	24365.2	24494.5	23513.5	23986.4	20714.7
60°	18222.6	18270.6	19192.5	20422.8	22774.6	25288.8	27042.0	27075.3	25165.1	25130.0	22340.4
62.5°	15525.4	15551.3	16999.6	19536.1	23851.6	29120.3	30271.2	29730.0	27064.2	26716.9	24285.7
65°	10640.9	10809.0	12019.1	15154.1	21873.0	31523.8	35270.3	34374.3	29959.0	29003.9	26044.4
67.5°	6266.3	6231.2	6829.8	9139.0	16064.9	29927.6	41593.9	40703.4	33906.9	30535.4	25529.0
70°	4280.4	4256.4	4485.5	5532.9	9068.8	23216.1	43583.5	45381.0	37392.9	29504.6	21970.9
72.5°	3055.6	3068.5	3406.6	4298.9	5693.6	13526.6	37479.7	41734.3	36301.1	25721.1	16700.4
75°	2074.6	2109.7	2593.7	3526.7	4991.6	6881.5	26596.8	31725.1	29560.0	18693.7	9599.0
77.5°	1115.8	1154.6	1725.5	2841.3	4513.2	4781.0	17108.6	21834.2	18568.1	8403.8	2782.2
80°	465.5	487.7	807.3	2065.4	3899.8	4199.1	10066.4	13240.2	7912.3	1657.1	620.7
82.5°	201.4	212.4	336.2	1232.2	2915.2	3545.1	5329.7	6369.8	2397.9	363.9	312.2
85°	38.8	40.6	138.6	652.1	1860.3	2000.7	3454.6	3386.3	1077.0	157.0	227.2
87.5°	0.0	0.0	33.3	205.1	546.8	1090.0	2107.9	2082.0	365.8	75.7	85.0
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°	13123.8	13123.8	13123.8	13123.8	13123.8	13123.8	13123.8	13123.8	13123.8	13123.8	13123.8
2.5°	13020.4	12892.9	12625.0	12294.3	12041.3	11762.3	11540.6	11259.8	11137.9	11143.4	11076.9
5°	12728.5	12466.2	11873.1	11125.0	10548.6	9953.7	9442.0	8932.1	8631.0	8533.1	8440.7
7.5°	12311.0	11895.3	10949.4	9796.7	8821.3	7868.0	7038.5	6308.8	5847.0	5621.6	5538.5
10°	11839.9	11256.1	9887.2	8368.7	6975.7	5686.3	4611.1	3676.3	3303.1	3050.0	2985.4
12.5°	11426.1	10635.4	8849.0	6903.7	5250.3	3694.8	2669.5	2087.5	1834.5	1734.7	1718.1
15°	11036.3	10055.3	7849.5	5577.3	3635.7	2274.1	1697.7	1500.1	1441.0	1424.3	1424.3
17.5°	10668.6	9502.9	6872.3	4271.2	2405.3	1594.3	1405.9	1361.5	1343.0	1341.2	1343.0
20°	10284.4	8950.6	5911.6	3129.5	1679.3	1350.4	1298.7	1274.7	1269.2	1269.2	1269.2
22.5°	9916.8	8398.2	4976.9	2235.3	1346.7	1232.2	1206.3	1189.7	1184.2	1182.3	1178.6
25°	9563.9	7873.6	4064.2	1579.5	1182.3	1128.8	1106.6	1084.4	1067.8	1058.6	1053.0
27.5°	9273.9	7406.2	3214.4	1267.3	1067.8	1021.6	993.9	960.6	920.0	901.5	894.1
30°	9042.9	6979.4	2477.3	1069.6	960.6	914.5	872.0	814.7	755.6	724.2	722.3
32.5°	8861.9	6560.1	1880.6	945.9	864.6	807.3	746.3	674.3	605.9	570.8	569.0
35°	8773.2	6190.6	1437.3	855.3	779.6	707.5	631.8	552.4	485.9	452.6	448.9
37.5°	8832.3	5878.4	1121.4	779.6	707.5	624.4	535.7	452.6	393.5	363.9	362.1
40°	9048.5	5678.9	910.8	714.9	646.6	545.0	448.9	371.3	321.4	297.4	295.6
42.5°	9508.5	5605.0	777.7	661.4	587.5	471.1	373.2	306.7	260.5	243.9	240.2
45°	10277.0	5714.0	687.2	609.6	526.5	400.9	308.5	251.2	210.6	197.7	195.8
47.5°	11300.5	6000.3	622.6	559.8	471.1	338.1	256.8	203.2	171.8	158.9	157.0
50°	12619.5	6454.8	569.0	509.9	419.4	286.3	212.4	160.7	133.0	123.8	123.8
52.5°	14054.9	6996.0	521.0	463.7	367.6	238.3	171.8	123.8	105.3	94.2	94.2
55°	15240.9	7469.0	469.2	428.6	304.8	197.7	131.2	94.2	77.6	72.0	72.0
57.5°	16425.1	7973.3	410.1	367.6	243.9	160.7	99.8	70.2	57.3	53.6	53.6
60°	17960.3	8590.3	352.9	299.3	192.1	121.9	73.9	49.9	42.5	40.6	40.6
62.5°	19648.8	8952.4	301.1	240.2	149.6	90.5	53.6	33.3	31.4	31.4	29.6
65°	20681.5	8440.7	253.1	192.1	116.4	68.4	35.1	24.0	27.7	25.9	22.2
67.5°	19364.3	6608.1	206.9	149.6	90.5	51.7	22.2	16.6	29.6	24.0	18.5
70°	16033.5	4625.9	160.7	105.3	72.0	44.3	14.8	11.1	31.4	24.0	14.8
72.5°	11998.8	3096.2	127.5	70.2	53.6	38.8	12.9	5.5	27.7	20.3	12.9
75°	6556.4	1247.0	101.6	44.3	33.3	27.7	9.2	3.7	18.5	14.8	9.2
77.5°	1725.5	328.8	73.9	29.6	18.5	11.1	5.5	1.8	9.2	7.4	3.7
80°	439.7	127.5	48.0	20.3	12.9	5.5	0.0	0.0	1.8	0.0	0.0
82.5°	234.6	53.6	29.6	14.8	7.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	177.3	35.1	16.6	9.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	68.4	11.1	5.5	0.0	0.0	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)