

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: P323343

Luminaire Tested: **GAN-SA9D-827-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323343
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42236 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

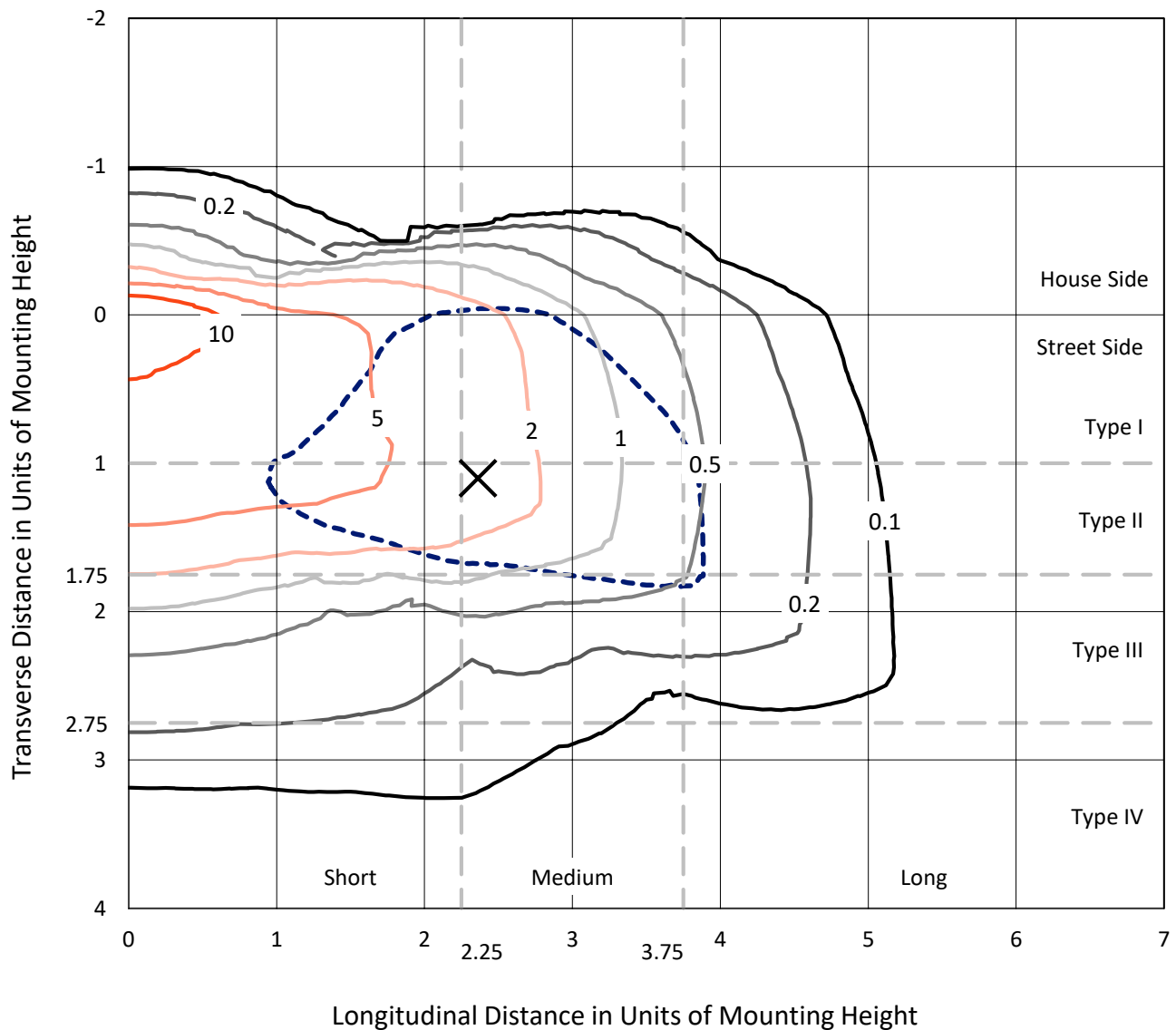
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

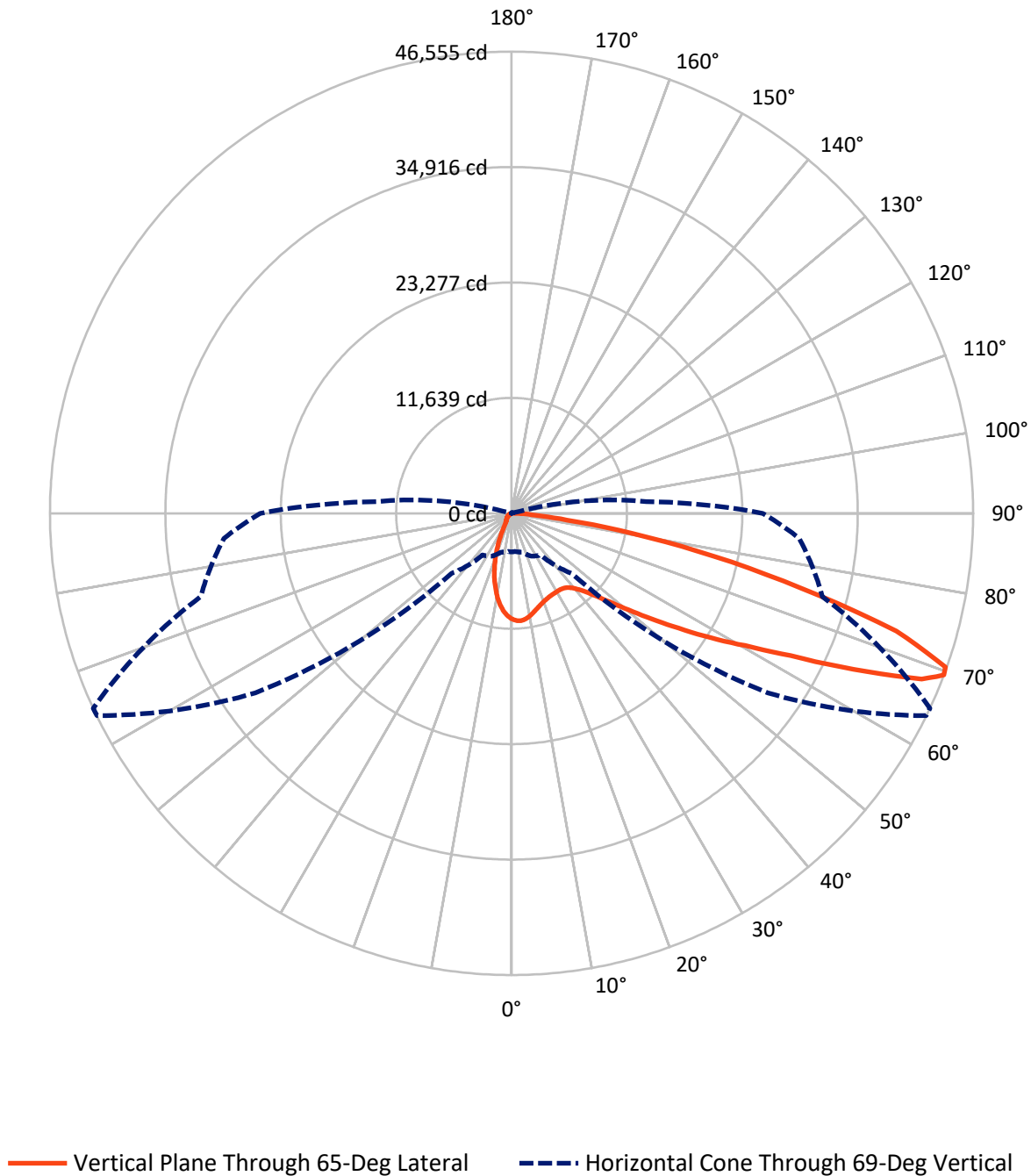
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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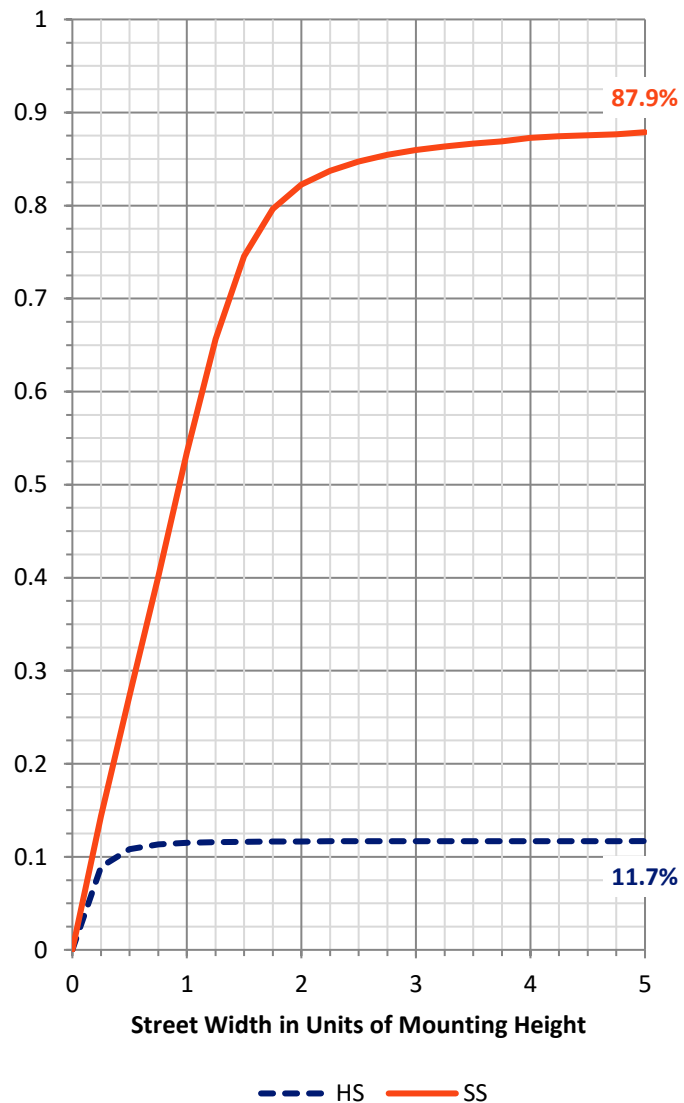
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4978.6	0.0	4978.6
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	37257.4	0.0	37257.4
	% Fixture	88.2	0.0	88.2
Total	Lumens	42236.0	0.0	42236.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	892.5	2.1
10°-20°	1953.7	4.6
20°-30°	2706.0	6.4
30°-40°	3773.0	8.9
40°-50°	5864.4	13.9
50°-60°	9414.7	22.3
60°-70°	10649.6	25.2
70°-80°	6254.6	14.8
80°-90°	727.6	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°	42236.0	100.0
0°-180°	42236.0	100.0

Coefficient of Utilization



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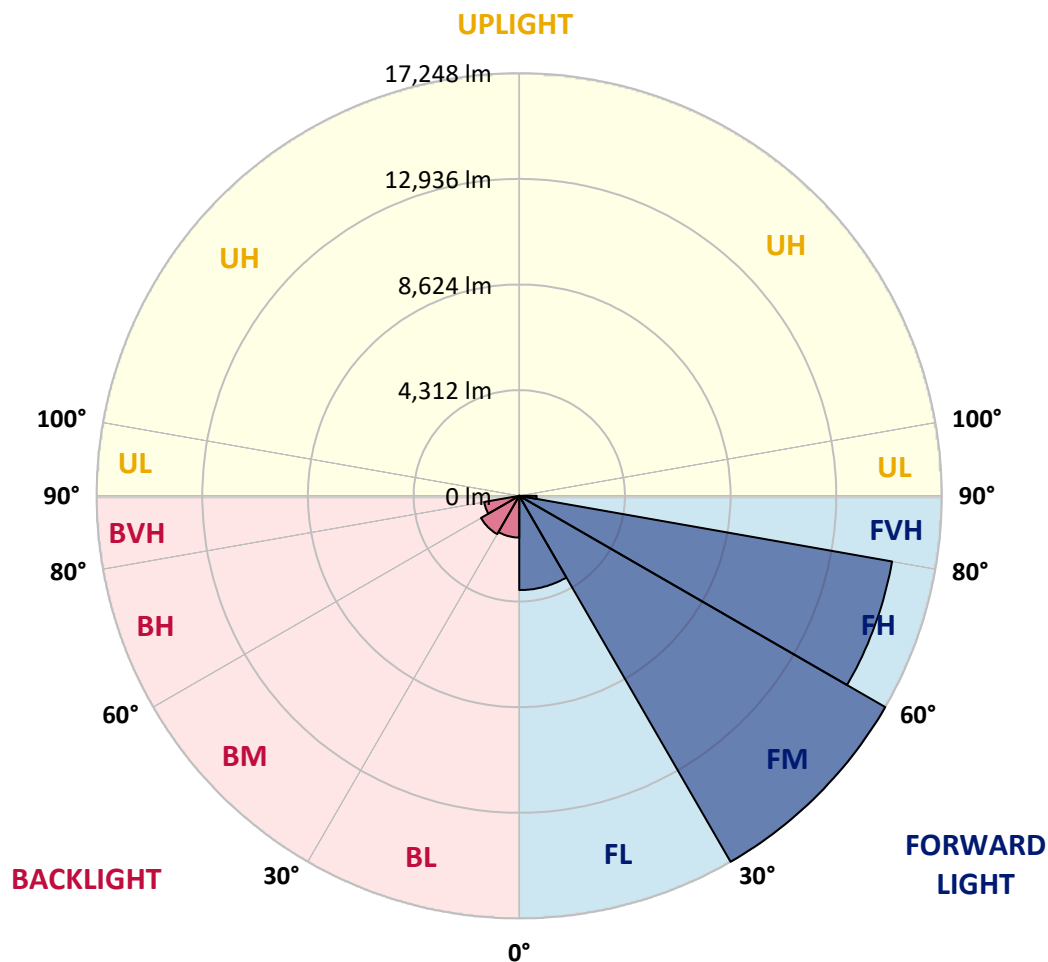
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3848.7	9.1			
FM	(30°-60°)	17248.0	40.8			
FH	(60°-80°)	15449.5	36.6			G5
FVH	(80°-90°)	711.2	1.7			G4/750
BL	(0°-30°)	1703.5	4.0	B3/2500		
BM	(30°-60°)	1804.1	4.3	B2/2500		
BH	(60°-80°)	1454.7	3.4	B3/2500		G3/2500
BVH	(80°-90°)	16.4	0.0			G1/100
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°	64°	65°	75°	85°
0°	10673.1	10673.1	10673.1	10673.1	10673.1	10673.1	10673.1	10673.1	10673.1	10673.1	10673.1
2.5°	10767.8	10741.0	10762.5	10808.9	10832.2	10832.2	10850.0	10828.6	10835.7	10783.9	10708.9
5°	10094.1	10053.0	10111.9	10242.4	10403.2	10540.9	10744.6	10851.8	10862.6	10864.3	10776.8
7.5°	9368.5	9330.9	9418.5	9572.2	9779.5	10035.1	10390.7	10701.7	10719.6	10887.6	10823.2
10°	8778.7	8751.9	8853.7	9018.2	9261.2	9547.2	9983.3	10415.8	10467.6	10839.3	10816.1
12.5°	8310.4	8289.0	8385.5	8574.9	8823.4	9139.7	9595.4	10097.6	10167.3	10730.3	10780.3
15°	7969.1	7965.5	8045.9	8228.2	8503.5	8798.3	9264.8	9802.7	9883.2	10612.3	10775.0
17.5°	7790.4	7795.7	7854.7	8010.2	8246.1	8539.2	8986.0	9554.3	9641.9	10506.9	10801.8
20°	7772.5	7777.9	7810.0	7897.6	8088.8	8348.0	8759.0	9345.2	9436.4	10428.3	10844.7
22.5°	7929.8	7926.2	7935.1	7926.2	8033.4	8230.0	8608.9	9184.4	9289.8	10376.4	10878.6
25°	8231.8	8226.4	8222.9	8156.7	8085.3	8190.7	8546.4	9093.2	9193.3	10338.9	10898.3
27.5°	8651.8	8648.2	8642.9	8533.8	8319.4	8253.3	8553.5	9059.3	9143.3	10308.5	10894.7
30°	9204.0	9229.1	9221.9	9070.0	8735.8	8444.5	8628.6	9041.4	9114.7	10249.5	10857.2
32.5°	9852.8	9902.8	9942.1	9779.5	9361.3	8823.4	8801.9	9061.1	9114.7	10204.9	10789.3
35°	10526.6	10590.9	10735.7	10678.5	10128.0	9393.5	9100.4	9179.0	9223.7	10229.9	10757.1
37.5°	11189.6	11266.5	11581.0	11747.2	11132.4	10147.7	9565.1	9470.3	9493.6	10381.8	10792.9
40°	11959.9	12076.1	12553.2	12821.3	12331.6	11157.4	10260.3	9970.7	9979.7	10716.0	10959.1
42.5°	12971.4	13091.2	13607.7	14027.7	13682.7	12433.5	11203.9	10735.7	10726.7	11341.5	11350.5
45°	14204.6	14329.7	14864.1	15330.5	15175.0	13945.5	12412.0	11852.7	11841.9	12328.1	12092.1
47.5°	15602.2	15725.5	16202.7	16683.4	16851.4	15711.2	13950.8	13377.1	13352.1	13698.8	13237.7
50°	16801.4	16881.8	17321.5	17968.4	18726.2	17880.9	15864.9	15312.7	15285.9	15520.0	14919.5
52.5°	17237.5	17283.9	17730.7	18636.8	20527.7	20819.0	18379.5	17668.2	17648.5	17750.4	17158.8
55°	16354.6	16438.6	16987.3	18331.2	21503.5	24139.6	21553.5	20584.9	20436.5	20216.7	19500.1
57.5°	13949.0	14083.1	14672.8	16460.0	21047.8	26773.9	26218.1	23884.0	23666.0	22322.0	21403.4
60°	10451.5	10615.9	11105.6	13034.0	18615.4	27712.2	31315.2	27560.3	27068.8	23998.4	23153.1
62.5°	7172.0	7254.2	7586.6	8843.0	13709.6	26175.2	35579.4	32484.0	31586.8	25821.4	25045.7
65°	5477.7	5506.3	5642.2	6074.7	8163.9	21262.2	37275.5	38980.4	37895.6	28001.7	27009.8
67.5°	4414.4	4391.1	4578.8	5197.2	5467.0	12971.4	35297.0	45126.6	44619.0	30916.6	28986.5
69°	3892.5	3860.3	4051.6	4770.0	5134.6	8574.9	31554.7	46522.4	46554.6	32455.4	29122.3
70°	3502.9	3524.3	3713.8	4516.2	5022.0	6730.6	27980.3	46166.7	46420.5	33030.9	28307.3
72.5°	2339.4	2396.6	2777.3	3749.5	4829.0	5093.5	16894.3	39616.7	40592.5	31735.2	24286.2
75°	1318.9	1361.8	1814.0	2827.3	4550.2	4850.4	8923.5	29186.6	30130.3	26538.0	18728.0
77.5°	647.0	670.2	1025.8	1824.7	3804.9	4621.7	5061.3	19825.3	20903.0	17321.5	10592.7
80°	273.4	286.0	512.9	1125.9	2720.1	4410.8	3758.5	12201.2	12335.2	6786.0	2822.0
82.5°	105.4	109.0	216.3	702.4	1728.2	3438.6	3143.7	5785.1	5645.7	1277.8	643.4
85°	12.5	14.3	78.6	421.8	961.5	1769.3	2553.9	2493.1	2307.3	253.8	330.6
87.5°	0.0	0.0	5.4	128.7	286.0	829.3	1327.9	1034.8	932.9	82.2	171.6
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°	10673.1	10673.1	10673.1	10673.1	10673.1	10673.1	10673.1	10673.1	10673.1	10673.1	10673.1
2.5°	10646.3	10628.4	10531.9	10392.5	10260.3	10095.8	9938.6	9843.9	9768.8	9718.8	9777.7
5°	10674.9	10596.3	10303.2	9927.9	9559.7	9145.1	8759.0	8432.0	8303.3	8160.3	8224.7
7.5°	10666.0	10517.6	9990.4	9322.0	8646.4	7947.6	7286.4	6777.0	6512.5	6253.4	6319.5
10°	10621.3	10371.1	9572.2	8582.1	7570.5	6566.1	5627.9	4914.8	4516.2	4155.2	4207.1
12.5°	10523.0	10174.5	9078.9	7735.0	6382.1	5057.8	3958.6	3045.4	2555.7	2339.4	2366.2
15°	10464.0	9983.3	8557.1	6877.1	5113.2	3522.6	2419.9	1799.7	1576.3	1504.8	1513.8
17.5°	10435.4	9799.2	8017.3	5895.9	3815.7	2242.9	1563.8	1379.7	1331.5	1318.9	1322.5
20°	10406.8	9613.3	7461.5	4925.5	2629.0	1508.4	1285.0	1231.4	1213.5	1197.4	1201.0
22.5°	10358.6	9434.6	6864.6	3942.5	1772.9	1224.2	1158.1	1106.3	1068.7	1049.1	1052.7
25°	10299.6	9246.9	6255.2	2936.4	1293.9	1092.0	1029.4	956.1	911.5	875.7	877.5
27.5°	10204.9	9016.4	5626.1	2137.5	1086.6	977.6	893.6	813.2	738.1	697.0	697.0
30°	10072.6	8755.5	4927.3	1529.8	974.0	865.0	763.1	663.0	582.6	545.1	541.5
32.5°	9926.1	8483.8	4221.3	1159.9	884.7	759.6	643.4	537.9	466.5	436.1	434.3
35°	9801.0	8190.7	3517.2	972.2	795.3	657.7	530.8	441.4	384.2	359.2	357.4
37.5°	9720.5	7897.6	2830.9	868.6	714.9	563.0	445.0	364.6	323.5	303.8	302.0
40°	9708.0	7679.6	2203.6	789.9	639.8	479.0	371.7	309.2	271.7	250.2	248.4
42.5°	9870.7	7554.5	1690.7	723.8	563.0	405.7	316.3	264.5	225.2	203.7	202.0
45°	10297.8	7593.8	1301.1	664.8	486.1	343.1	268.1	219.8	184.1	168.0	164.4
47.5°	11077.0	7865.4	1034.8	605.9	412.8	291.3	228.8	182.3	151.9	135.8	134.0
50°	12463.9	8503.5	865.0	541.5	344.9	248.4	189.4	148.3	123.3	109.0	107.2
52.5°	14304.7	9640.1	772.1	479.0	286.0	210.9	155.5	118.0	96.5	85.8	84.0
55°	16334.9	11016.3	711.3	411.1	234.1	175.1	123.3	92.9	75.1	66.1	62.6
57.5°	18316.9	12208.3	654.1	344.9	194.8	143.0	98.3	73.3	59.0	50.0	48.3
60°	20138.1	13303.9	588.0	277.0	159.1	112.6	76.8	57.2	46.5	37.5	37.5
62.5°	22087.9	14151.0	496.8	216.3	130.5	85.8	62.6	51.8	37.5	32.2	30.4
65°	24153.9	14780.1	389.6	168.0	101.9	64.3	51.8	53.6	30.4	23.2	21.4
67.5°	25680.2	14655.0	287.7	132.3	78.6	50.0	50.0	57.2	26.8	17.9	16.1
69°	25344.2	13638.1	241.3	114.4	67.9	42.9	46.5	57.2	25.0	16.1	14.3
70°	24370.2	12512.1	212.7	101.9	60.8	39.3	44.7	55.4	23.2	16.1	14.3
72.5°	20295.4	9423.9	166.2	76.8	48.3	32.2	37.5	48.3	23.2	16.1	12.5
75°	15266.2	6031.8	126.9	55.4	35.7	25.0	28.6	35.7	23.2	14.3	12.5
77.5°	8306.9	2175.0	91.1	37.5	25.0	19.7	19.7	26.8	21.4	10.7	7.1
80°	2135.7	546.9	57.2	25.0	19.7	14.3	12.5	17.9	12.5	1.8	0.0
82.5°	527.2	123.3	30.4	17.9	14.3	5.4	5.4	8.9	5.4	0.0	0.0
85°	289.5	60.8	19.7	12.5	7.1	0.0	0.0	1.8	0.0	0.0	0.0
87.5°	148.3	17.9	5.4	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)