

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: P323762

Luminaire Tested: **GAN-SA8B-727-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323762
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-SA8B-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA 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: 31086 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

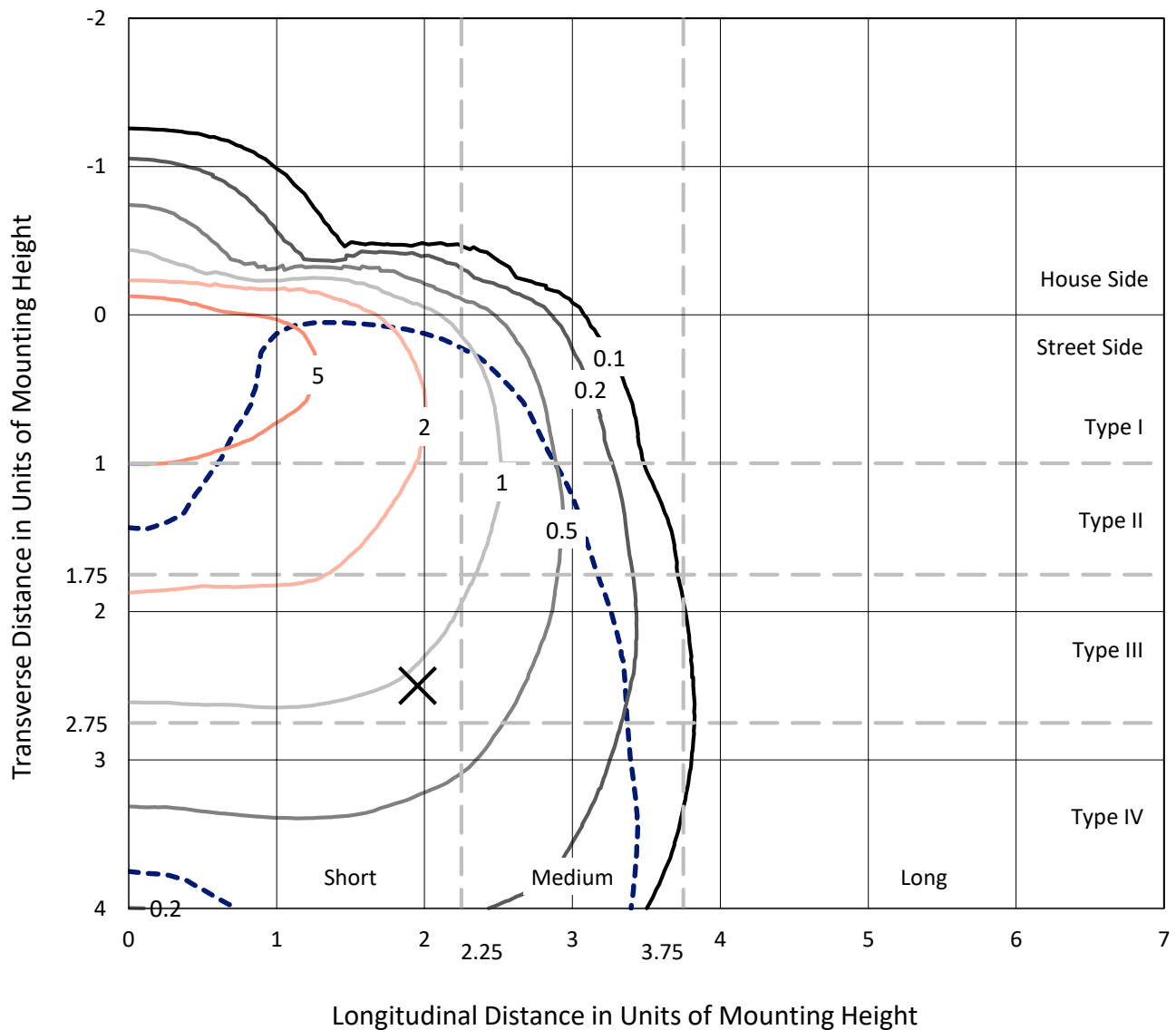
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

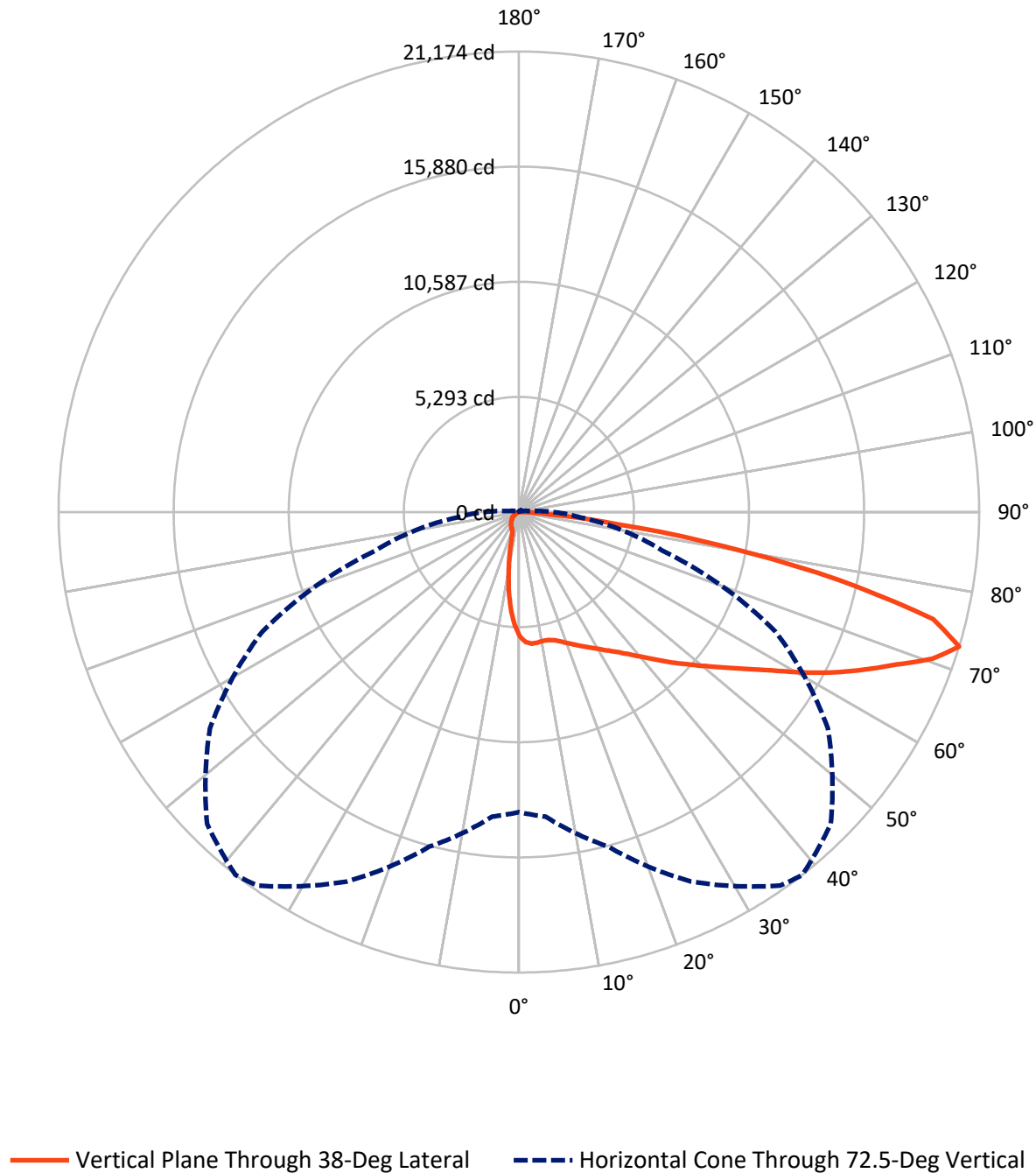
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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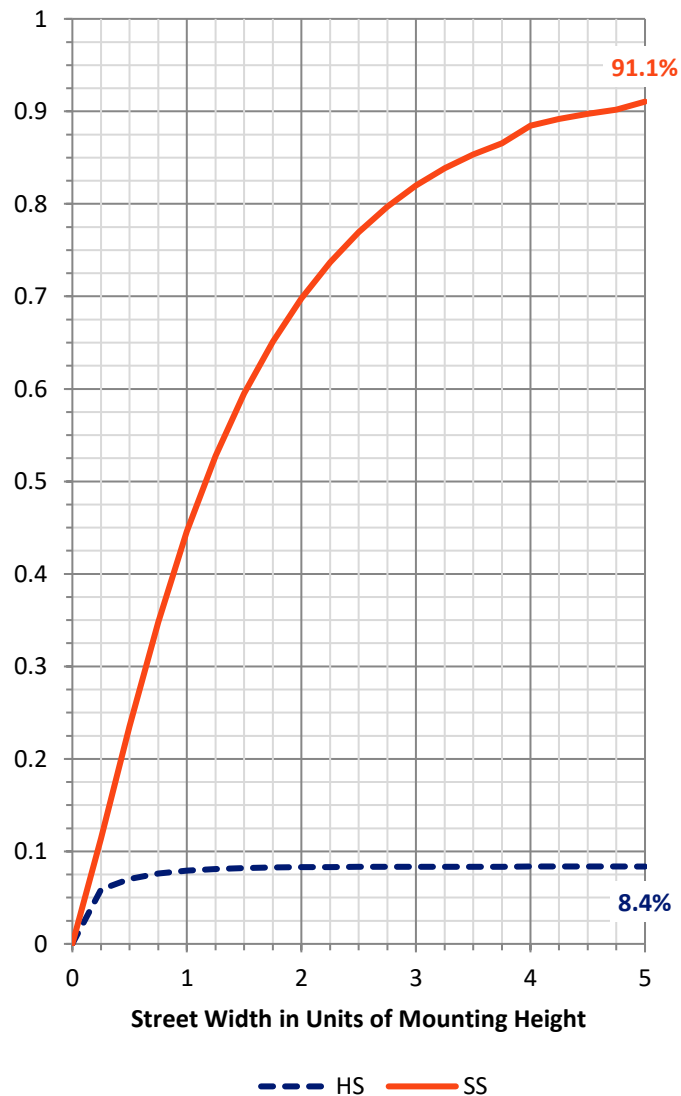
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2616.0	0.0	2616.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	28470.0	0.0	28470.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	31086.0	0.0	31086.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.2	1.6
10°-20°	1191.2	3.8
20°-30°	1894.6	6.1
30°-40°	2848.4	9.2
40°-50°	4345.4	14.0
50°-60°	6141.5	19.8
60°-70°	7703.5	24.8
70°-80°	5760.0	18.5
80°-90°	714.2	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°	31086.0	100.0
0°-180°	31086.0	100.0

Coefficient of Utilization



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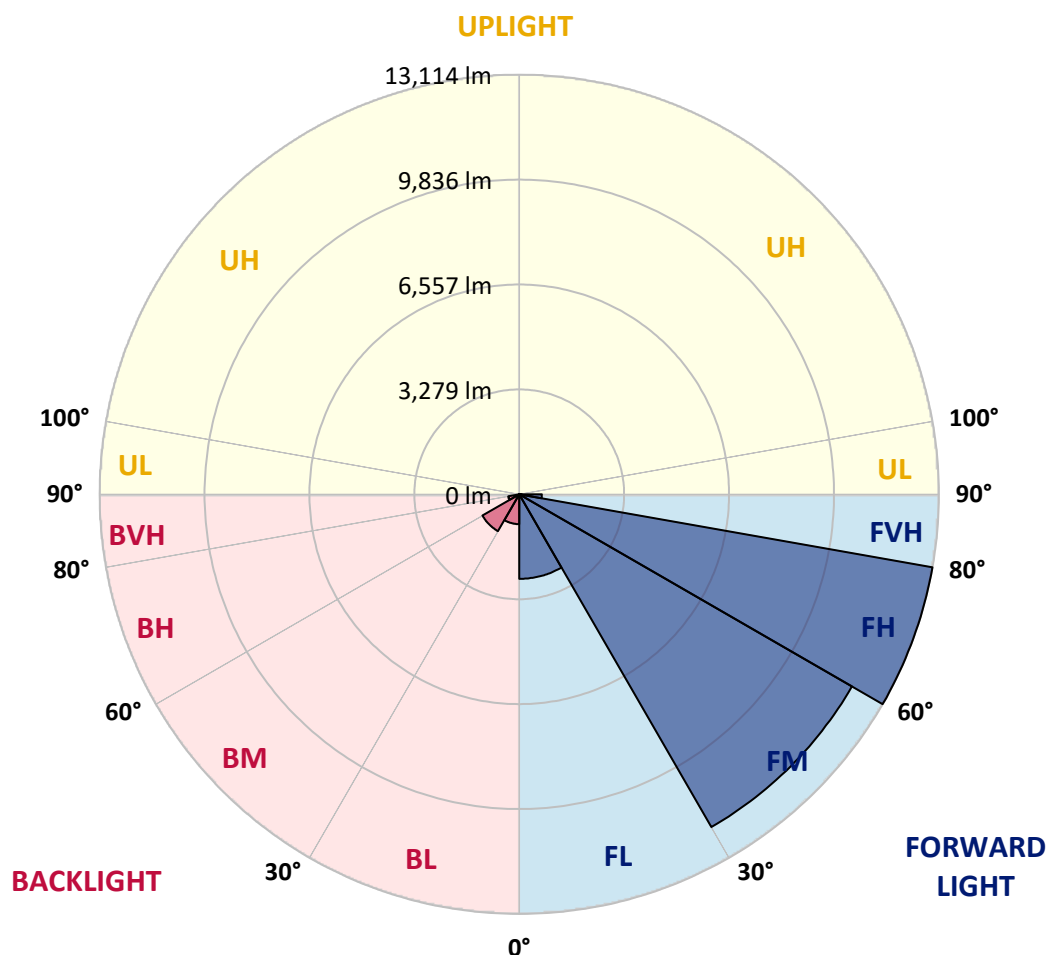
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2641.6	8.5			
FM	(30°-60°)	12006.8	38.6			
FH	(60°-80°)	13114.1	42.2			G5
FVH	(80°-90°)	707.6	2.3			G4/750
BL	(0°-30°)	931.5	3.0	B2/1000		
BM	(30°-60°)	1328.4	4.3	B2/2500		
BH	(60°-80°)	349.4	1.1	B1/500		G1/500
BVH	(80°-90°)	6.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	5716.6	5716.6	5716.6	5716.6	5716.6	5716.6	5716.6	5716.6	5716.6	5716.6	5716.6
2.5°	6067.8	6069.1	6054.9	6031.6	6001.9	5986.4	5960.6	5919.3	5875.4	5796.7	5711.4
5°	6191.7	6191.7	6173.6	6142.6	6094.9	6080.7	6031.6	5965.8	5875.4	5747.6	5604.3
7.5°	6178.8	6181.4	6156.8	6124.6	6076.8	6063.9	6004.5	5930.9	5818.6	5663.7	5480.4
10°	6111.7	6118.1	6098.8	6083.3	6039.4	6025.2	5969.7	5896.1	5783.7	5618.5	5408.1
12.5°	6043.2	6049.7	6056.1	6070.4	6043.2	6038.1	5994.2	5932.2	5825.1	5653.4	5415.8
15°	5999.3	6012.3	6058.7	6114.2	6120.7	6115.5	6087.1	6029.0	5920.6	5742.4	5471.3
17.5°	5999.3	6020.0	6116.8	6222.7	6260.1	6264.0	6239.5	6158.1	6029.0	5838.0	5523.0
20°	6049.7	6078.1	6229.1	6378.9	6440.9	6440.9	6393.1	6279.5	6128.4	5924.5	5557.8
22.5°	6178.8	6216.2	6406.0	6579.0	6644.9	6630.7	6566.1	6400.9	6231.7	6022.6	5601.7
25°	6433.1	6461.5	6659.1	6833.3	6873.4	6841.1	6759.8	6548.0	6363.4	6155.6	5681.8
27.5°	6761.0	6764.9	6968.9	7116.1	7091.5	7069.6	6967.6	6732.6	6553.2	6345.3	5819.9
30°	7121.2	7121.2	7300.7	7413.0	7338.1	7320.1	7218.1	6956.0	6795.9	6603.5	6016.1
32.5°	7469.8	7485.3	7631.2	7702.2	7618.3	7600.2	7500.8	7238.7	7118.7	6997.3	6322.1
35°	7806.8	7818.4	7956.5	7995.3	7915.2	7920.4	7849.4	7627.3	7582.1	7566.6	6783.0
37.5°	8133.4	8136.0	8276.7	8301.2	8261.2	8305.1	8311.6	8115.3	8199.2	8324.5	7432.4
40°	8431.6	8434.2	8573.6	8636.9	8705.3	8762.1	8812.5	8707.9	8985.5	9275.9	8205.7
42.5°	8670.5	8697.6	8874.4	8994.5	9175.2	9283.7	9420.5	9415.4	9921.4	10357.8	9140.4
45°	8880.9	8927.4	9174.0	9384.4	9694.2	9867.2	10081.5	10249.4	10974.9	11562.3	10086.7
47.5°	9158.5	9202.4	9483.8	9828.5	10241.6	10468.8	10823.9	11186.6	12133.0	12744.9	11011.1
50°	9549.6	9530.3	9807.8	10302.3	10832.9	11131.1	11637.2	12180.7	13282.0	13775.1	11554.6
52.5°	9966.6	9958.9	10164.2	10817.4	11530.1	11878.6	12547.4	13208.4	14380.6	14485.2	11803.7
55°	10483.0	10427.5	10600.5	11404.8	12357.6	12732.0	13519.5	14225.7	15255.9	14885.4	11929.0
57.5°	11024.0	10932.3	11097.6	12059.4	13291.0	13733.8	14596.2	15217.2	15838.2	15159.1	11927.7
60°	11583.0	11474.5	11670.8	12877.9	14450.3	14962.9	15763.3	15887.2	16381.7	15297.2	11839.9
62.5°	12050.3	11985.8	12277.5	13753.2	15745.2	16248.7	16645.1	16496.6	16840.0	15404.4	11634.6
65°	12544.8	12548.7	13019.9	14774.4	17121.4	17461.0	17494.5	17286.7	17223.4	15382.4	10940.1
67.5°	13213.5	13275.5	14061.7	16160.9	18460.2	18722.3	18719.7	18142.6	17503.6	14509.7	9399.9
70°	13921.0	14066.9	15262.4	17747.6	19921.6	20187.6	20050.7	18687.4	16481.1	11732.7	6652.6
72.5°	13802.2	14055.3	15929.8	18748.1	20971.2	21173.9	20284.4	17348.7	13026.3	6819.1	2832.5
75°	10648.3	10941.3	14606.5	17756.6	19870.0	19688.0	17428.7	13500.1	7118.7	1903.0	637.8
77.5°	5625.0	5781.2	9649.0	13527.3	15493.5	15112.6	12277.5	7489.2	2170.2	471.2	286.6
80°	2946.1	2982.2	4204.8	7675.1	9562.5	9565.1	7276.2	3289.5	894.7	241.4	192.4
82.5°	1577.6	1608.6	2221.8	3546.4	5010.4	4541.8	2786.0	1810.0	520.3	136.8	184.6
85°	379.6	386.0	1260.0	1620.2	1970.1	1407.2	827.5	1519.5	140.7	80.0	149.8
87.5°	145.9	148.5	467.3	701.0	502.2	325.3	387.3	566.8	18.1	31.0	23.2
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°	5716.6	5716.6	5716.6	5716.6	5716.6	5716.6	5716.6	5716.6	5716.6	5716.6	5716.6
2.5°	5659.8	5626.2	5543.6	5439.0	5346.1	5279.0	5178.3	5112.4	5068.5	5067.2	5050.4
5°	5516.5	5448.1	5269.9	5058.2	4865.8	4692.8	4488.9	4327.5	4207.4	4188.1	4146.7
7.5°	5362.9	5250.6	4976.9	4646.4	4323.6	3995.7	3614.8	3378.6	3175.9	3079.1	3068.7
10°	5268.6	5111.1	4722.5	4244.9	3738.8	3205.6	2707.3	2362.6	2113.4	2042.4	1989.5
12.5°	5249.3	5041.4	4526.3	3867.9	3144.9	2440.0	1888.8	1522.1	1323.3	1260.0	1243.2
15°	5268.6	5009.1	4361.0	3494.8	2543.3	1731.3	1267.8	1054.8	979.9	961.8	960.5
17.5°	5280.2	4970.4	4173.9	3080.4	1959.8	1236.8	970.8	908.9	897.3	896.0	898.5
20°	5279.0	4911.0	3950.5	2618.2	1457.6	972.1	877.9	865.0	862.4	863.7	862.4
22.5°	5269.9	4841.3	3705.2	2141.8	1101.2	868.9	837.9	830.1	828.8	828.8	828.8
25°	5286.7	4785.8	3435.4	1686.1	907.6	821.1	801.7	795.3	794.0	794.0	791.4
27.5°	5347.4	4754.8	3139.7	1297.5	819.8	778.5	763.0	761.7	757.8	756.5	759.1
30°	5445.5	4754.8	2815.7	1009.6	766.9	734.6	723.0	720.4	719.1	717.8	719.1
32.5°	5618.5	4791.0	2462.0	839.2	716.5	685.5	677.8	681.7	677.8	677.8	677.8
35°	5930.9	4899.4	2091.4	732.0	663.6	637.8	630.0	635.2	632.6	632.6	631.3
37.5°	6386.6	5100.8	1718.3	667.5	617.1	590.0	579.7	587.4	584.8	584.8	583.5
40°	6941.8	5393.9	1363.3	618.4	571.9	543.5	534.5	538.4	531.9	531.9	534.5
42.5°	7627.3	5765.7	1053.5	570.6	526.7	499.6	494.5	490.6	479.0	472.5	473.8
45°	8389.0	6153.0	821.1	524.2	484.1	462.2	454.4	444.1	424.7	411.8	413.1
47.5°	9069.4	6451.2	667.5	479.0	445.4	428.6	417.0	397.6	369.2	353.7	355.0
50°	9427.0	6496.4	568.0	433.8	409.3	392.5	375.7	346.0	312.4	295.6	294.4
52.5°	9518.7	6284.7	494.5	392.5	373.1	353.7	331.8	291.8	254.3	236.3	233.7
55°	9552.2	5961.9	428.6	353.7	334.4	312.4	284.0	238.8	204.0	185.9	184.6
57.5°	9441.2	5480.4	377.0	318.9	295.6	268.5	233.7	191.1	157.5	143.3	143.3
60°	9194.6	4828.4	337.0	281.4	255.6	224.6	188.5	148.5	117.5	105.9	105.9
62.5°	8702.7	3984.1	299.5	242.7	218.2	185.9	152.3	112.3	82.6	76.2	77.5
65°	7774.5	3022.3	262.1	207.9	185.9	153.6	118.8	80.0	55.5	55.5	58.1
67.5°	6340.2	2099.2	223.3	176.9	160.1	125.2	90.4	55.5	38.7	43.9	49.1
70°	4197.1	1177.4	191.1	145.9	136.8	99.4	67.1	37.4	31.0	41.3	50.3
72.5°	1584.1	458.3	160.1	117.5	118.8	76.2	47.8	28.4	28.4	45.2	59.4
75°	441.5	224.6	114.9	86.5	93.0	55.5	34.9	24.5	27.1	51.6	69.7
77.5°	259.5	165.2	74.9	50.3	63.3	38.7	23.2	19.4	23.2	43.9	67.1
80°	209.1	87.8	43.9	25.8	34.9	21.9	15.5	11.6	6.5	16.8	34.9
82.5°	209.1	52.9	20.7	18.1	18.1	11.6	7.7	5.2	1.3	0.0	9.0
85°	140.7	21.9	12.9	11.6	9.0	3.9	2.6	1.3	0.0	0.0	0.0
87.5°	23.2	9.0	5.2	2.6	1.3	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)