Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P319922

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

Issue Date: 3/3/2020

Report Generated By E0585644

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P319922
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
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
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	36395 lumens
Efficiency:	N/A
Efficacy:	109.0 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B3 - 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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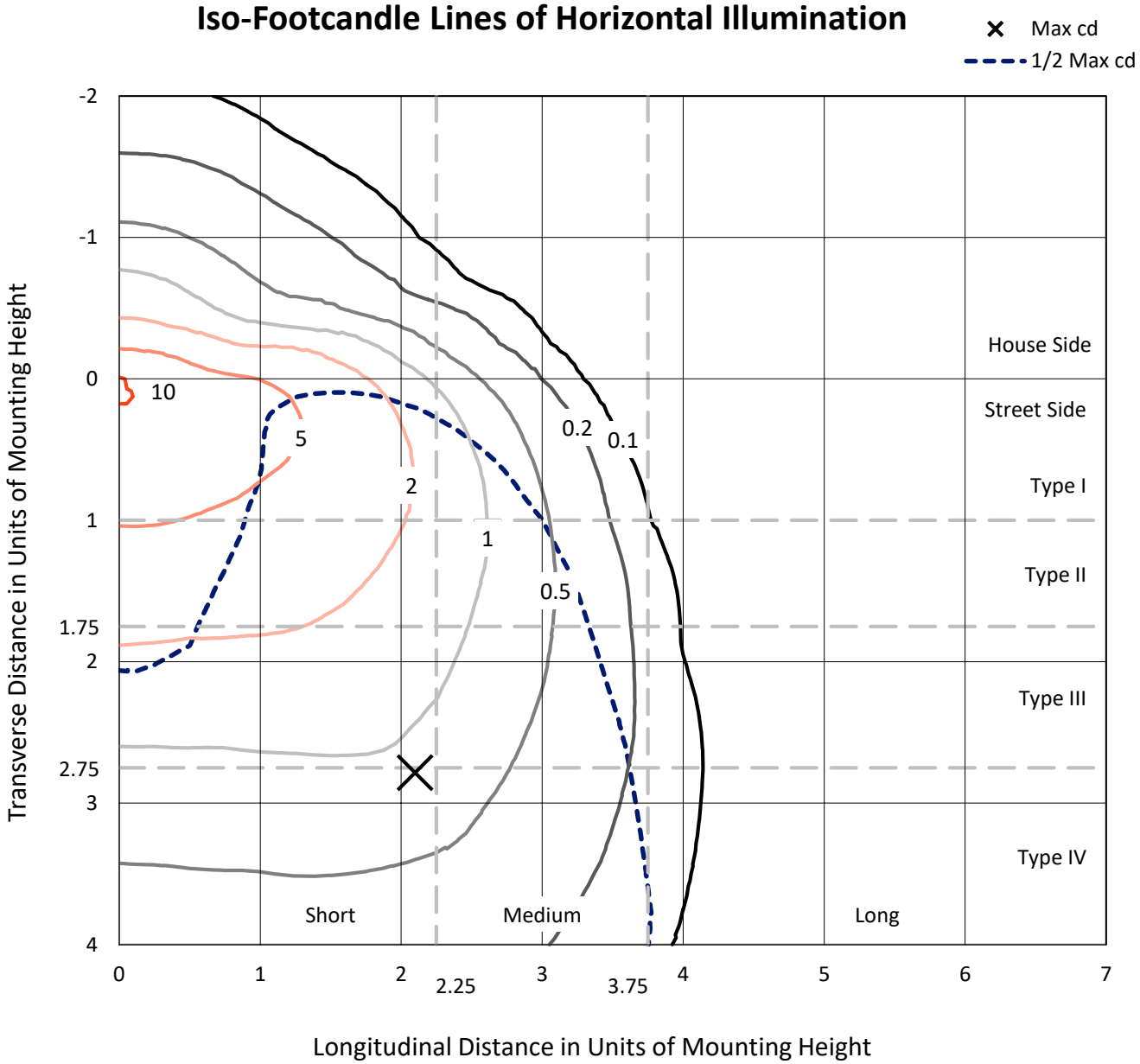
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
Type IV - Short - N/A

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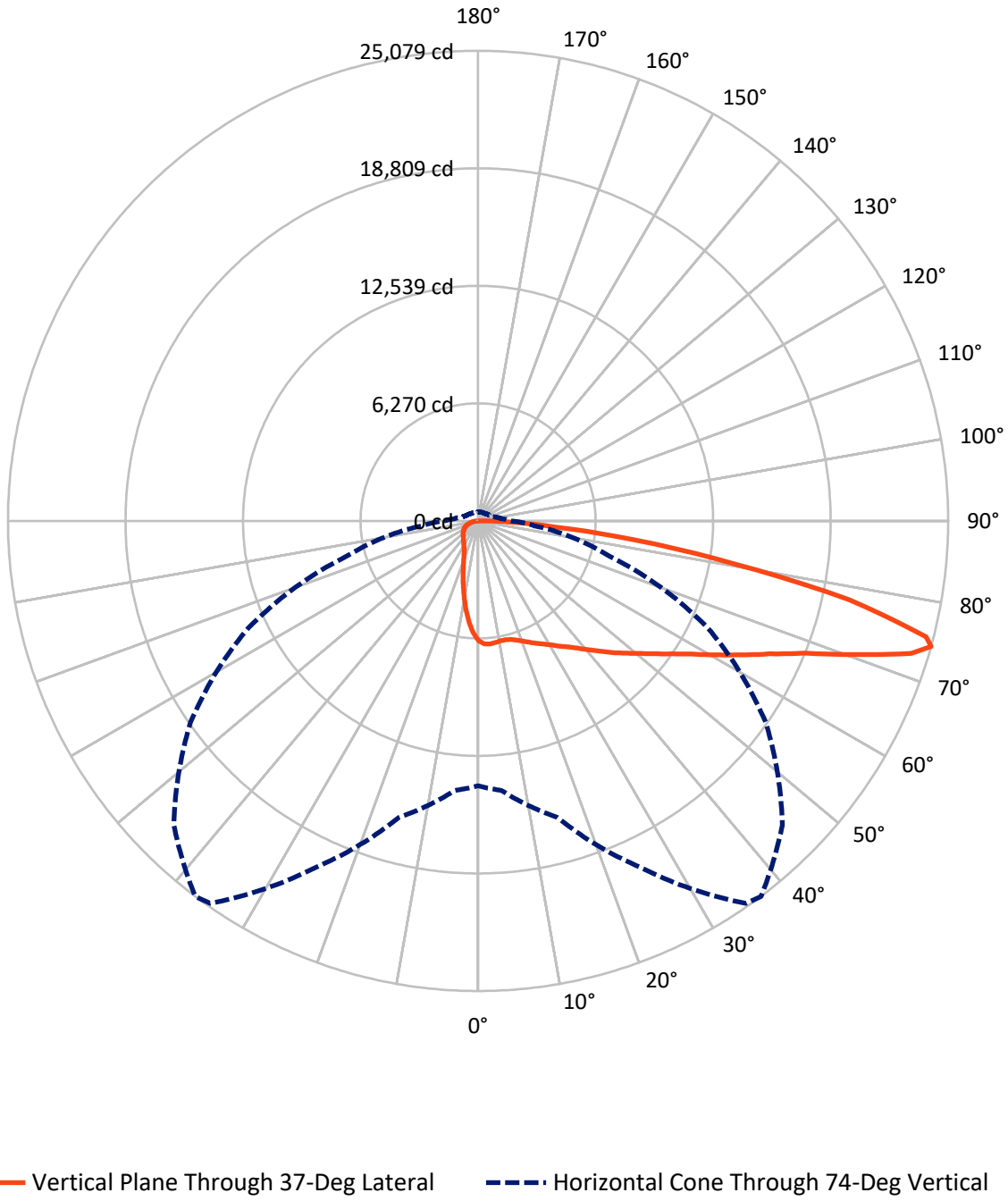
Luminous Intensity Polar Plot



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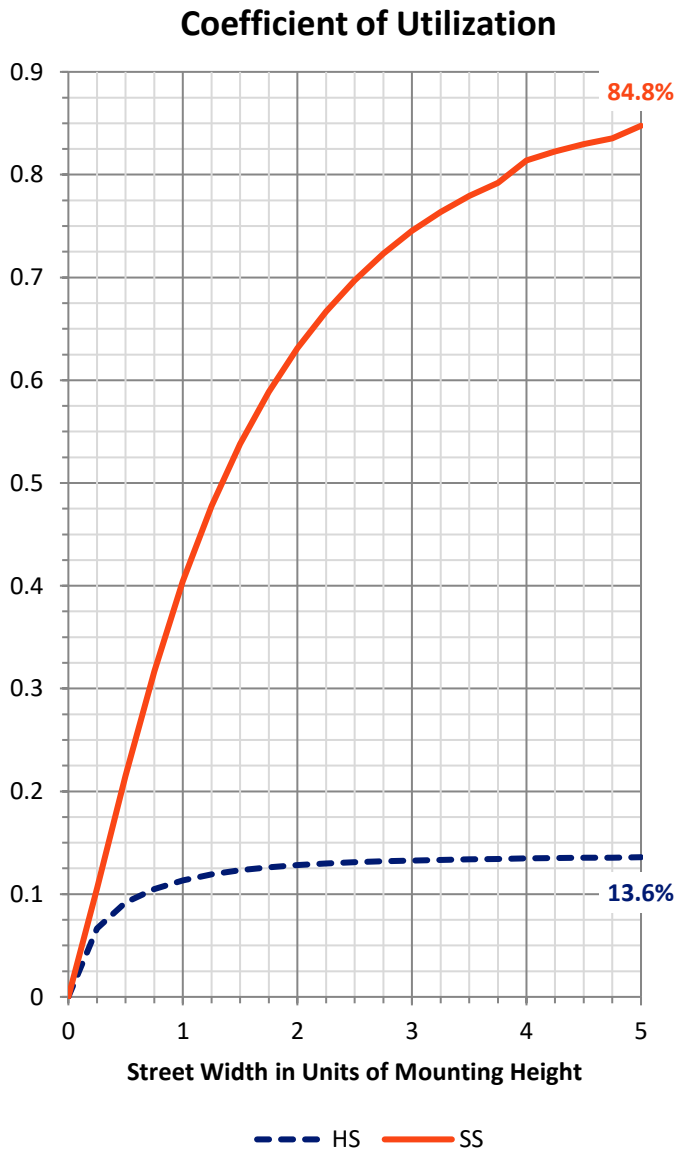
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5007.7	0.0	5007.7
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	31387.3	0.0	31387.3
	% Fixture	86.2	0.0	86.2
Total	Lumens	36395.0	0.0	36395.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	564.7	1.6
10°-20°	1447.5	4.0
20°-30°	2230.3	6.1
30°-40°	3243.2	8.9
40°-50°	4773.4	13.1
50°-60°	6703.4	18.4
60°-70°	8484.4	23.3
70°-80°	7470.9	20.5
80°-90°	1477.2	4.1
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°	36395.0	100.0
0°-180°	36395.0	100.0



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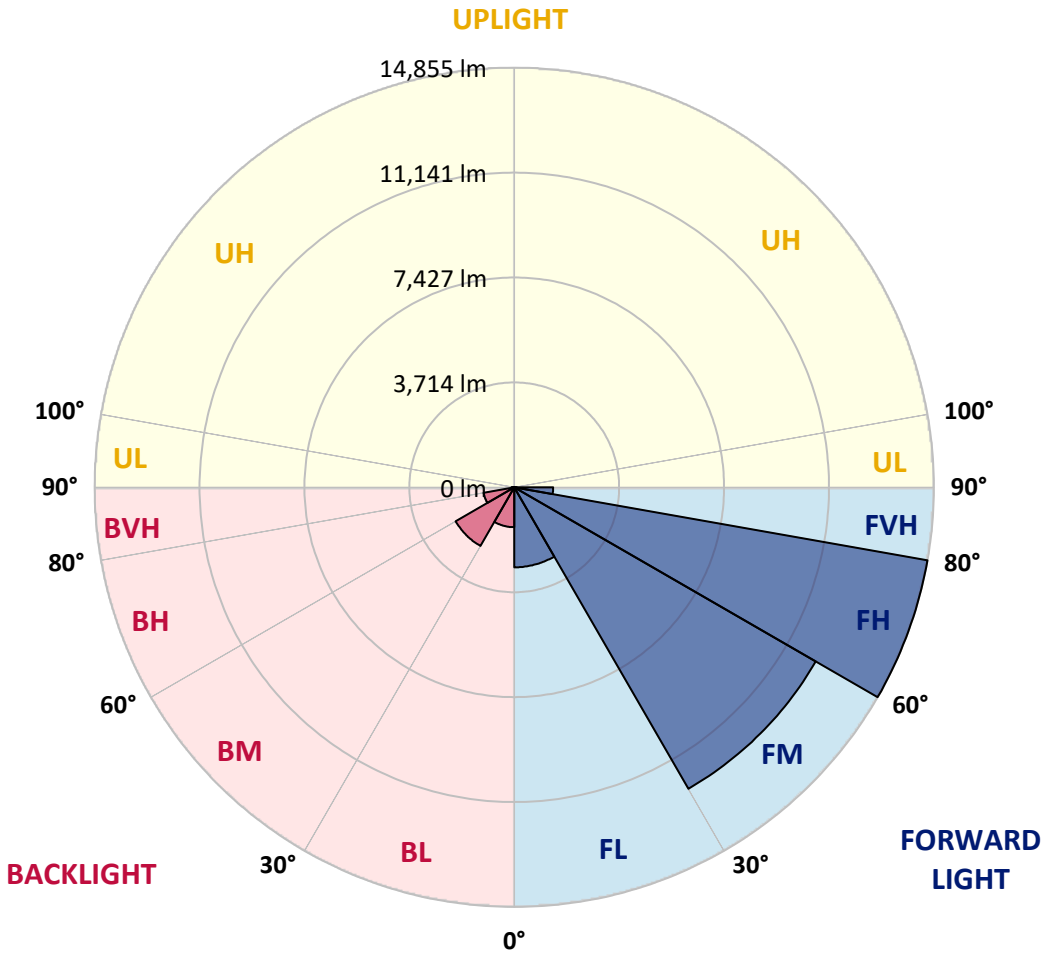
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2832.0	7.8			
FM	(30°-60°)	12323.6	33.9			
FH	(60°-80°)	14854.6	40.8			G5
FVH	(80°-90°)	1377.1	3.8			G5
BL	(0°-30°)	1410.5	3.9	B3/2500		
BM	(30°-60°)	2396.4	6.6	B2/2500		
BH	(60°-80°)	1100.7	3.0	B3/2500		G3/2500
BVH	(80°-90°)	100.0	0.3			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	6412.7	6412.7	6412.7	6412.7	6412.7	6412.7	6412.7	6412.7	6412.7	6412.7	6412.7
2.5°	6631.9	6633.2	6631.9	6621.6	6597.3	6576.8	6560.1	6535.7	6481.9	6440.9	6379.3
5°	6694.7	6687.0	6681.9	6662.7	6624.2	6601.1	6569.1	6522.9	6434.5	6352.4	6252.4
7.5°	6665.2	6656.2	6644.7	6621.6	6578.0	6558.8	6513.9	6453.7	6347.3	6239.6	6096.0
10°	6574.2	6571.6	6566.5	6561.4	6524.2	6508.8	6467.8	6403.7	6298.6	6167.8	5999.8
12.5°	6472.9	6479.3	6499.8	6526.8	6510.1	6502.4	6476.8	6433.2	6325.5	6184.5	5981.9
15°	6408.8	6426.8	6481.9	6552.4	6566.5	6563.9	6557.5	6529.3	6415.2	6258.8	6022.9
17.5°	6387.0	6416.5	6521.6	6638.3	6679.3	6688.3	6690.9	6642.1	6515.2	6349.8	6065.2
20°	6426.8	6463.9	6617.8	6778.0	6843.4	6848.5	6837.0	6752.4	6610.1	6428.0	6088.3
22.5°	6547.3	6580.6	6772.9	6953.7	7028.0	7035.7	7001.1	6872.9	6710.1	6520.3	6120.4
25°	6779.3	6820.3	7012.6	7193.4	7231.9	7233.1	7183.2	7024.2	6840.9	6649.8	6189.6
27.5°	7081.9	7122.9	7296.0	7472.9	7452.4	7440.8	7372.9	7213.9	7011.4	6828.0	6312.7
30°	7419.0	7463.9	7628.0	7753.6	7704.9	7681.9	7626.7	7421.6	7248.5	7071.6	6501.1
32.5°	7767.8	7808.8	7952.4	8038.3	7976.7	7966.5	7883.1	7696.0	7557.5	7443.4	6806.2
35°	8125.4	8154.9	8295.9	8344.7	8262.6	8260.0	8237.0	8065.2	7978.0	8031.8	7249.8
37.5°	8490.8	8498.5	8619.0	8621.6	8597.2	8607.5	8631.8	8524.1	8548.5	8716.4	7826.7
40°	8816.4	8837.0	8924.1	8951.1	8993.4	9029.3	9151.1	9080.5	9269.0	9566.4	8544.7
42.5°	9057.5	9097.2	9236.9	9306.2	9443.4	9499.8	9671.5	9736.9	10116.4	10562.6	9398.5
45°	9261.3	9322.8	9547.2	9689.5	9921.5	10020.3	10266.4	10485.6	11074.1	11643.3	10297.2
47.5°	9481.8	9560.0	9840.8	10112.6	10427.9	10539.5	10986.9	11315.1	12095.8	12730.4	11144.6
50°	9806.2	9866.4	10140.8	10567.7	10961.3	11104.8	11724.1	12194.6	13134.3	13766.3	11879.2
52.5°	10258.7	10235.6	10467.7	11066.4	11594.6	11771.5	12511.2	13130.4	14186.8	14703.5	12499.7
55°	10713.8	10675.4	10838.2	11588.2	12333.0	12518.9	13377.9	14070.2	15188.1	15547.0	12975.3
57.5°	11220.2	11147.2	11284.3	12176.6	13174.0	13395.8	14348.4	15068.8	16172.7	16229.1	13277.9
60°	11742.0	11643.3	11797.1	12906.1	14241.9	14503.5	15484.2	16043.2	17100.8	16775.2	13375.3
62.5°	12198.4	12129.2	12366.4	13720.2	15445.8	15732.9	16599.6	17079.1	18016.2	17002.1	13024.0
65°	12597.1	12608.7	13018.9	14635.5	16788.0	17094.4	17879.0	18355.9	18736.7	16867.5	12202.3
67.5°	13072.7	13138.1	13838.1	15840.6	18477.7	18813.6	19740.5	19748.2	19139.3	16077.8	10584.3
70°	13766.3	13900.9	14965.0	17512.4	20880.2	21341.8	22057.1	20566.1	18573.9	13936.8	8328.0
72.5°	14381.7	14633.0	16163.7	19425.1	23808.4	24158.4	23412.2	20094.4	16211.1	10444.6	5188.3
74°	14131.7	14443.2	16381.6	20367.4	24910.9	25078.9	22954.5	18717.5	13516.3	7233.1	3015.3
75°	13593.2	13931.7	16063.7	20358.5	24771.2	24677.6	21849.4	17144.4	11131.8	4933.2	2006.4
77.5°	10970.2	11327.9	13535.6	17448.3	20311.0	20222.6	16784.2	11501.0	4875.5	1617.9	1019.2
80°	6378.0	6651.1	8402.4	11080.5	13695.8	13856.1	11038.2	5690.9	1917.9	909.0	691.0
82.5°	2833.3	3021.7	4058.9	5656.3	8265.2	8471.6	5780.6	2982.0	1184.6	552.6	415.4
85°	1858.9	1998.7	2464.0	2693.5	3935.8	4076.8	2829.4	2321.7	782.0	303.8	305.1
87.5°	1337.1	1471.8	1830.7	1598.7	1806.4	1710.2	1539.7	2148.7	314.1	173.1	102.6
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°	6412.7	6412.7	6412.7	6412.7	6412.7	6412.7	6412.7	6412.7	6412.7	6412.7	6412.7
2.5°	6352.4	6331.9	6285.7	6198.6	6149.8	6108.8	6040.9	6001.1	5983.2	5981.9	5989.6
5°	6194.7	6147.3	6028.1	5881.9	5765.2	5658.8	5526.8	5447.3	5390.9	5357.6	5366.5
7.5°	6011.4	5937.0	5749.9	5516.5	5329.4	5122.9	4919.1	4797.3	4702.4	4631.9	4644.8
10°	5885.7	5783.2	5510.1	5174.2	4862.7	4562.7	4281.9	4114.0	3980.7	3878.1	3885.8
12.5°	5843.4	5705.0	5326.8	4878.1	4440.9	4030.7	3664.0	3406.3	3269.1	3152.5	3161.5
15°	5849.9	5664.0	5172.9	4611.4	4061.4	3544.8	3099.9	2798.6	2612.8	2532.0	2533.3
17.5°	5855.0	5616.5	5011.4	4325.5	3685.8	3090.9	2607.6	2302.5	2126.9	2052.5	2053.8
20°	5838.3	5539.6	4811.4	3997.3	3293.5	2674.3	2206.4	1947.4	1814.1	1756.4	1756.4
22.5°	5816.5	5448.6	4585.8	3667.9	2906.3	2312.8	1919.2	1721.8	1644.8	1606.4	1605.1
25°	5826.8	5380.6	4355.0	3329.4	2549.9	2024.3	1728.2	1597.4	1546.1	1521.8	1520.5
27.5°	5881.9	5348.6	4142.2	2992.2	2238.4	1807.6	1600.0	1507.7	1474.3	1458.9	1458.9
30°	5981.9	5348.6	3920.4	2705.1	1979.4	1647.4	1501.2	1438.4	1415.3	1405.1	1405.1
32.5°	6156.3	5378.1	3706.3	2420.5	1773.0	1521.8	1419.2	1376.9	1358.9	1353.8	1353.8
35°	6456.2	5478.1	3497.3	2151.2	1606.4	1419.2	1341.0	1316.6	1303.8	1302.5	1306.4
37.5°	6878.0	5681.9	3301.2	1952.5	1488.4	1335.9	1275.6	1256.4	1248.7	1255.1	1260.2
40°	7408.8	5958.8	3123.0	1773.0	1398.7	1269.2	1215.4	1202.5	1198.7	1207.7	1215.4
42.5°	8049.8	6333.2	2976.8	1643.5	1329.5	1212.8	1164.1	1148.7	1144.8	1155.1	1165.4
45°	8743.4	6735.7	2874.3	1547.4	1275.6	1170.5	1119.2	1102.5	1094.8	1100.0	1111.5
47.5°	9374.1	7116.5	2833.3	1479.4	1224.3	1134.6	1079.5	1058.9	1046.1	1043.6	1052.5
50°	9906.2	7399.8	2852.5	1438.4	1183.3	1094.8	1041.0	1017.9	998.7	987.2	993.6
52.5°	10293.3	7578.0	2870.4	1420.5	1151.3	1051.3	998.7	976.9	951.3	932.0	932.0
55°	10574.1	7619.0	2830.7	1406.4	1126.9	1003.8	951.3	930.7	905.1	883.3	880.7
57.5°	10684.3	7503.7	2683.3	1385.9	1110.2	959.0	901.3	885.9	864.1	838.4	837.2
60°	10535.6	7147.3	2398.7	1342.3	1088.4	921.8	851.3	841.0	830.7	806.4	805.1
62.5°	9938.2	6365.2	2030.7	1253.8	1044.8	882.0	805.1	810.2	811.5	794.9	792.3
65°	8854.9	5290.9	1671.8	1138.4	979.5	834.6	757.7	782.0	796.1	793.6	789.7
67.5°	7280.6	4117.8	1416.6	1016.6	893.6	769.2	706.4	734.6	746.1	755.1	752.5
70°	5403.7	2903.8	1171.8	888.4	789.7	692.3	639.7	653.8	646.1	656.4	660.2
72.5°	3012.7	1742.3	955.1	760.2	682.0	602.5	565.4	562.8	546.1	546.1	546.1
74°	*1807.6*	*1278.2*	*839.7*	*680.8*	*616.7*	*543.6*	*511.5*	*500.0*	*484.6*	*485.9*	*484.6*
75°	1453.8	1098.7	770.5	628.2	570.5	509.0	476.9	461.5	450.0	450.0	448.7
77.5°	917.9	834.6	620.5	500.0	456.4	419.2	397.4	376.9	376.9	375.6	374.3
80°	693.6	664.1	483.3	378.2	350.0	321.8	307.7	298.7	298.7	302.6	301.3
82.5°	475.6	500.0	339.7	264.1	250.0	229.5	226.9	228.2	224.4	219.2	217.9
85°	347.4	375.6	229.5	166.7	152.6	139.7	150.0	155.1	148.7	137.2	132.0
87.5°	133.3	246.1	123.1	69.2	64.1	55.1	64.1	66.7	71.8	56.4	57.7
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)