

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: P319818

Luminaire Tested: **GAN-SA4D-827-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319818
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4D-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23011 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 258
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

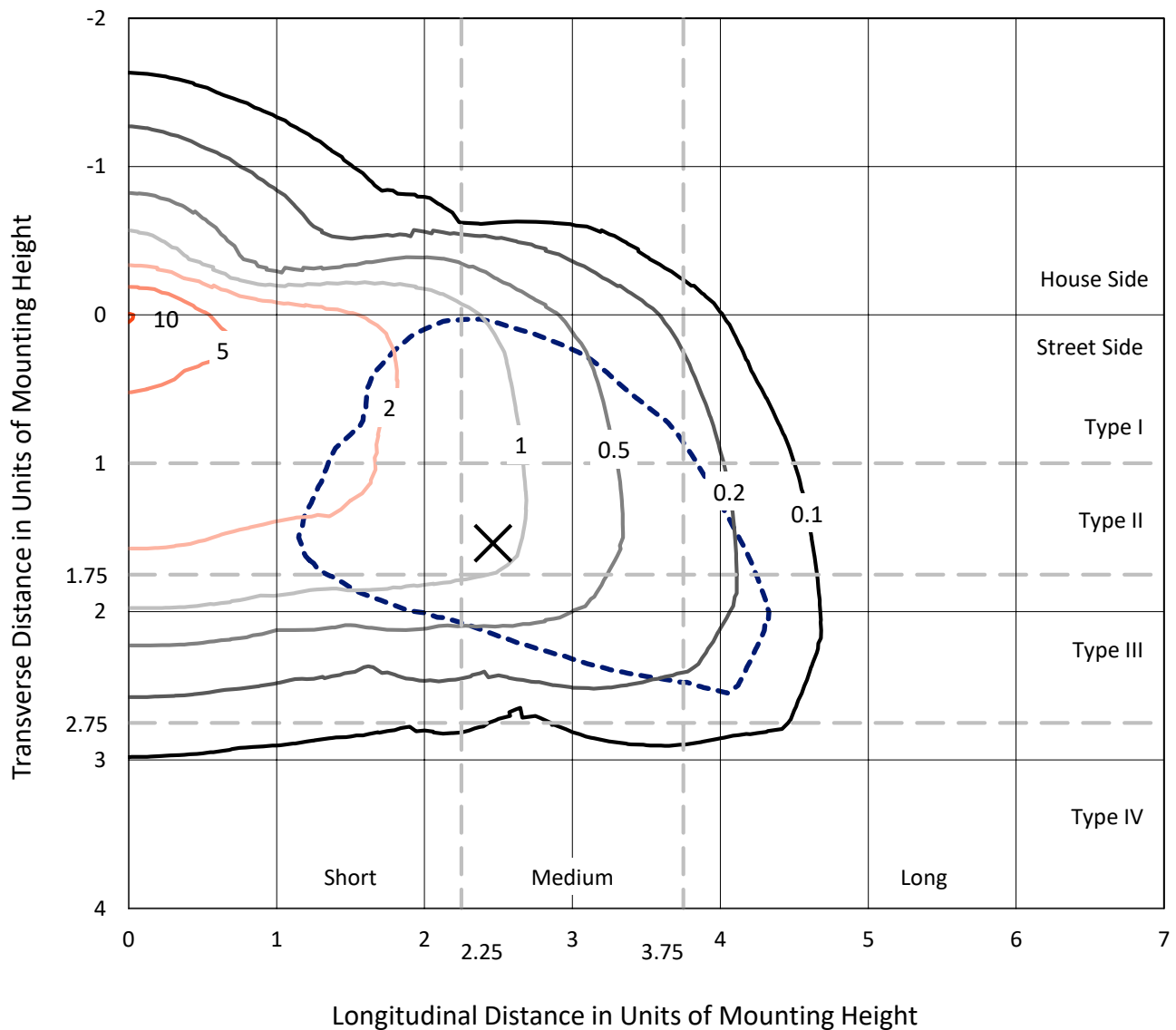


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Iso-Footcandle Lines of Horizontal Illumination

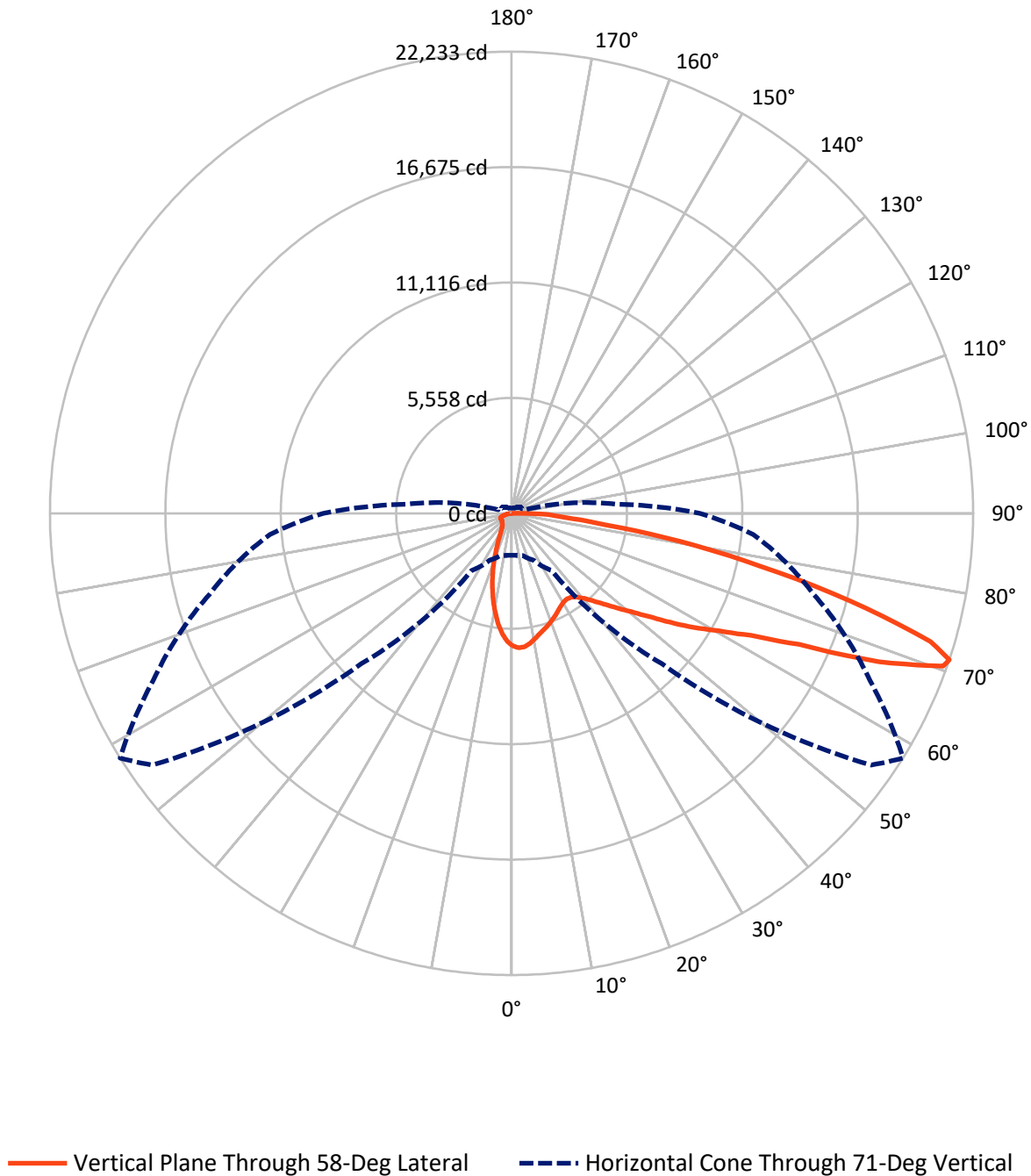
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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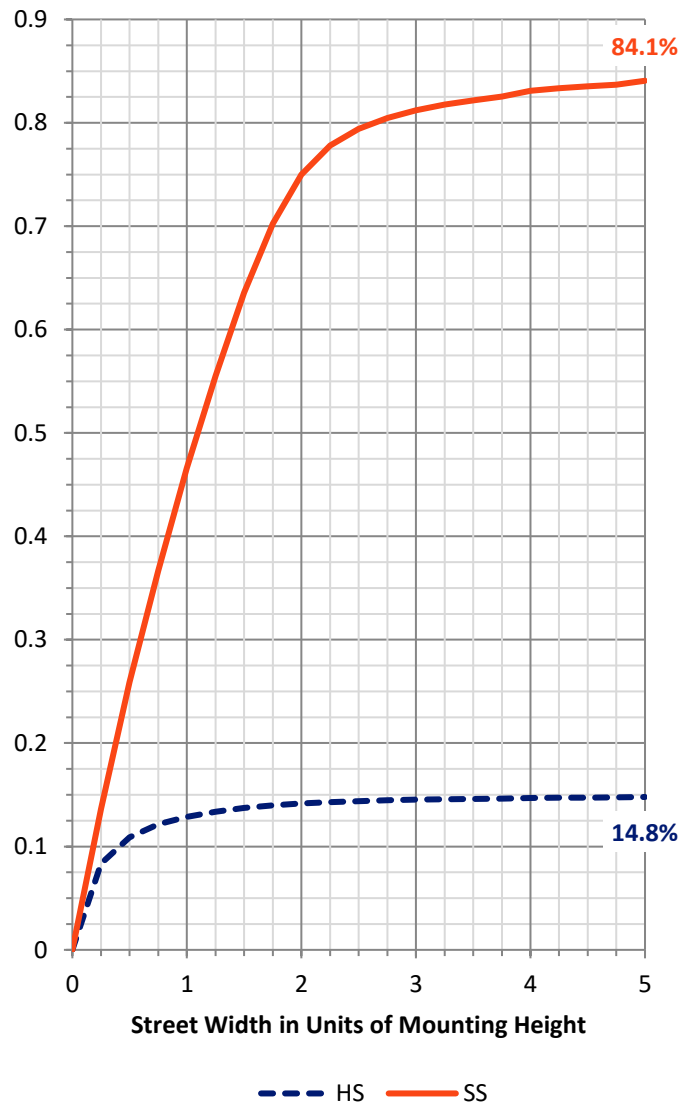
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3440.3	0.0	3440.3
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	19570.7	0.0	19570.7
	% Fixture	85.0	0.0	85.0
Total	Lumens	23011.0	0.0	23011.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	550.0	2.4
10°-20°	1223.0	5.3
20°-30°	1554.4	6.8
30°-40°	1979.9	8.6
40°-50°	2807.7	12.2
50°-60°	4344.9	18.9
60°-70°	5915.1	25.7
70°-80°	3946.1	17.1
80°-90°	689.9	3.0
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°	23011.0	100.0
0°-180°	23011.0	100.0

Coefficient of Utilization



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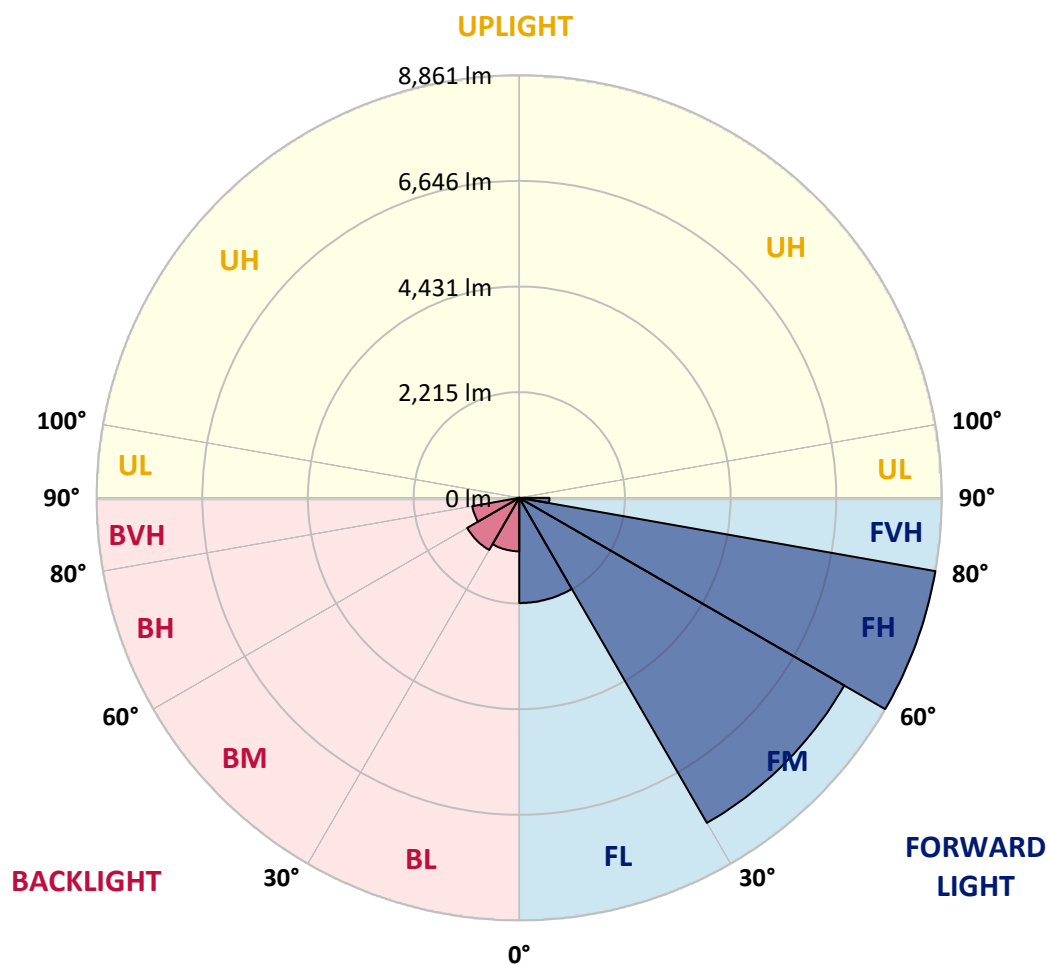
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2206.0	9.6			
FM	(30°-60°)	7870.9	34.2			
FH	(60°-80°)	8861.3	38.5			G4/12000
FVH	(80°-90°)	632.6	2.7			G4/750
BL	(0°-30°)	1121.4	4.9	B3/2500		
BM	(30°-60°)	1261.7	5.5	B2/2500		
BH	(60°-80°)	999.9	4.3	B2/1000		G2/1000
BVH	(80°-90°)	57.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6375.6	6375.6	6375.6	6375.6	6375.6	6375.6	6375.6	6375.6	6375.6	6375.6	6375.6
2.5°	6544.7	6535.9	6539.1	6532.7	6517.5	6502.2	6479.8	6483.8	6452.5	6406.0	6348.3
5°	6421.3	6418.1	6442.1	6455.7	6467.0	6458.1	6451.7	6459.7	6414.1	6349.9	6249.7
7.5°	6162.4	6127.1	6157.6	6203.3	6246.5	6279.4	6322.7	6328.3	6299.4	6232.1	6100.7
10°	5794.5	5760.8	5805.7	5877.0	5963.6	6042.1	6129.5	6145.5	6151.1	6090.2	5930.7
12.5°	5412.9	5387.3	5432.2	5532.3	5675.8	5796.9	5936.3	5960.4	6010.1	5969.2	5773.6
15°	5071.5	5061.8	5116.3	5214.9	5380.1	5565.2	5766.4	5810.5	5894.7	5881.0	5651.0
17.5°	4776.5	4774.1	4815.8	4919.2	5101.9	5336.0	5597.3	5671.8	5796.9	5812.9	5550.0
20°	4556.9	4552.0	4580.9	4657.0	4845.4	5110.7	5414.5	5517.1	5697.5	5753.6	5445.8
22.5°	4439.0	4438.2	4439.0	4475.1	4629.0	4875.9	5236.6	5361.6	5600.5	5706.3	5330.4
25°	4419.0	4416.6	4398.9	4394.9	4482.3	4679.5	5060.2	5198.1	5508.3	5673.4	5220.5
27.5°	4471.1	4474.3	4451.0	4413.4	4431.0	4550.4	4907.1	5054.6	5434.6	5667.0	5144.4
30°	4579.3	4577.7	4557.7	4518.4	4483.9	4502.3	4798.1	4945.6	5384.9	5695.1	5092.3
32.5°	4698.7	4707.5	4703.5	4681.9	4630.6	4556.9	4765.3	4909.5	5370.4	5762.4	5069.8
35°	4842.2	4851.8	4880.7	4897.5	4837.4	4718.8	4835.8	4960.8	5412.1	5889.0	5105.9
37.5°	4978.5	5003.3	5084.3	5155.6	5104.3	4972.1	5023.4	5112.3	5541.2	6088.6	5202.9
40°	5135.6	5157.2	5289.5	5441.0	5433.0	5295.9	5325.5	5384.9	5768.8	6374.8	5378.4
42.5°	5290.3	5333.6	5525.1	5740.0	5801.7	5680.6	5727.9	5759.2	6089.4	6753.9	5684.6
45°	5496.3	5542.8	5808.9	6067.8	6212.1	6143.9	6219.3	6231.3	6492.6	7270.1	6129.5
47.5°	5808.1	5861.0	6171.2	6442.9	6663.3	6670.6	6794.8	6790.0	6996.0	7860.9	6689.8
50°	6293.8	6370.0	6624.1	6878.2	7145.9	7295.0	7460.9	7437.6	7599.6	8490.1	7335.0
52.5°	6930.3	6965.5	7153.9	7341.5	7674.1	8008.4	8246.4	8225.6	8284.1	9136.9	8067.7
55°	7589.9	7616.4	7694.1	7796.7	8244.0	8789.1	9292.5	9259.6	9111.3	9808.7	8791.5
57.5°	8183.1	8236.8	8290.5	8333.0	8817.9	9605.1	10362.5	10364.9	10009.0	10533.3	9539.3
60°	8275.3	8322.6	8677.7	9012.7	9799.8	10693.6	11508.0	11483.9	10938.0	11319.6	10373.0
62.5°	7315.0	7421.6	8014.8	8906.1	10745.7	12684.6	12969.2	12939.5	12049.0	12288.7	11343.6
65°	5242.2	5363.2	6079.0	7418.4	10287.2	14878.5	15606.3	15207.1	13563.9	13480.6	12480.2
67.5°	3024.3	3053.1	3363.3	4439.0	7832.8	14993.1	19629.3	19070.6	15916.5	14832.8	13036.5
70°	2236.3	2235.5	2309.3	2731.7	4238.6	12236.6	21542.6	22043.6	18393.3	15277.7	12250.2
71°	2022.3	2024.7	2107.3	2486.4	3356.9	10242.3	21136.3	22232.8	19045.8	15058.1	11681.1
72.5°	1729.8	1737.8	1852.4	2229.9	2823.9	7063.3	19385.7	21097.8	19355.2	14516.2	10790.6
75°	1312.1	1330.6	1489.3	1879.7	2581.0	3582.2	14227.6	16847.1	17194.2	12808.9	8018.0
77.5°	936.2	957.1	1136.6	1580.7	2453.6	2699.6	9528.1	12288.7	12653.4	8208.7	3616.6
80°	591.5	616.4	751.9	1257.6	2305.3	2563.4	5987.6	8260.0	6899.8	2626.7	920.2
82.5°	347.1	366.3	466.5	821.6	1882.9	2468.8	3522.8	4578.5	2685.2	793.5	418.4
85°	201.2	210.0	291.0	523.4	1367.5	2330.1	2588.2	2559.4	1165.5	388.0	198.0
87.5°	93.8	104.2	172.3	273.3	759.1	1688.9	2045.6	1767.4	724.6	182.0	93.0
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°	6375.6	6375.6	6375.6	6375.6	6375.6	6375.6	6375.6	6375.6	6375.6	6375.6	6375.6
2.5°	6320.3	6306.7	6249.7	6199.2	6146.3	6077.4	6001.3	5991.6	5945.1	5954.0	5937.9
5°	6195.2	6160.8	6023.7	5899.5	5752.8	5621.3	5478.6	5412.9	5318.3	5311.9	5287.9
7.5°	6016.5	5952.4	5740.0	5504.3	5268.6	5044.2	4822.2	4676.3	4527.2	4463.9	4458.3
10°	5815.3	5706.3	5393.7	5045.0	4705.1	4377.3	4059.9	3825.0	3613.4	3513.2	3509.2
12.5°	5624.5	5463.4	5034.6	4560.1	4095.2	3670.3	3235.1	2926.5	2661.2	2572.2	2534.5
15°	5462.6	5235.8	4685.1	4078.3	3514.0	2924.1	2428.7	2104.1	1858.8	1773.8	1757.8
17.5°	5305.5	5013.7	4326.8	3591.8	2909.7	2261.2	1765.0	1523.8	1393.1	1358.6	1357.8
20°	5149.2	4785.3	3952.5	3094.0	2325.3	1691.3	1357.0	1248.8	1204.7	1200.7	1194.3
22.5°	4972.1	4543.2	3558.9	2594.6	1814.7	1329.8	1153.4	1110.2	1104.5	1119.0	1119.0
25°	4806.1	4302.8	3159.7	2105.7	1411.5	1109.4	1030.0	1021.2	1036.4	1062.1	1064.5
27.5°	4651.4	4071.1	2770.2	1671.2	1131.0	977.1	944.2	954.7	981.9	1011.6	1012.4
30°	4524.0	3852.3	2391.8	1317.0	955.5	878.5	872.9	893.7	923.4	946.6	952.2
32.5°	4425.4	3665.5	2026.3	1058.9	840.8	804.8	809.6	827.2	845.6	858.5	867.3
35°	4379.7	3505.2	1688.9	892.9	767.9	747.9	754.3	763.9	771.9	781.5	788.7
37.5°	4387.7	3381.0	1387.5	789.5	719.0	708.6	708.6	708.6	708.6	713.4	714.2
40°	4462.3	3309.6	1142.2	723.8	686.1	674.9	666.1	658.1	651.7	654.9	653.3
42.5°	4653.0	3303.2	962.7	682.1	659.7	641.2	623.6	612.4	604.4	607.6	609.2
45°	4976.9	3383.4	841.6	652.5	634.8	606.8	584.3	572.3	566.7	577.1	578.7
47.5°	5396.1	3558.1	767.9	630.8	611.6	574.7	550.7	539.4	541.1	556.3	560.3
50°	5936.3	3841.9	732.6	617.2	595.6	547.5	522.6	513.0	517.8	539.4	544.3
52.5°	6529.5	4250.7	736.6	613.2	585.1	527.4	501.0	489.8	497.8	517.8	521.8
55°	7214.0	4742.0	803.2	618.8	569.9	514.6	483.3	464.1	470.5	488.9	492.2
57.5°	7974.7	5304.7	937.0	617.2	550.7	502.6	464.9	436.0	440.9	452.1	455.3
60°	8766.6	5984.4	1144.6	622.0	541.9	488.1	440.1	404.0	402.4	412.0	413.6
62.5°	9717.3	6770.8	1381.9	625.2	547.5	469.7	407.2	371.9	367.1	369.5	371.1
65°	10696.8	7339.9	1292.9	612.4	565.1	454.5	378.3	340.7	331.8	330.2	331.0
67.5°	10727.2	6729.9	906.6	586.7	572.3	446.5	356.7	314.2	299.8	294.2	293.4
70°	9620.3	5467.4	706.2	559.5	543.5	433.6	336.7	292.6	270.9	262.1	261.3
71°	9080.0	5033.0	669.3	545.9	521.8	420.8	327.8	282.9	260.5	250.9	249.3
72.5°	8232.8	4512.0	624.4	524.2	480.1	388.0	311.0	269.3	246.1	234.9	232.5
75°	5908.3	2950.5	536.2	467.3	397.6	309.4	272.5	242.1	222.0	208.4	206.8
77.5°	2276.4	1174.3	405.6	388.8	304.6	242.1	224.4	209.2	194.8	181.2	180.4
80°	703.8	525.0	295.8	292.6	220.4	180.4	174.7	170.7	165.1	150.7	147.5
82.5°	375.9	301.4	203.6	189.2	144.3	120.2	126.6	128.2	129.1	113.8	112.2
85°	179.5	159.5	114.6	107.4	84.2	67.3	77.8	84.2	85.0	69.7	64.9
87.5°	85.8	83.4	53.7	40.9	31.3	22.4	27.3	33.7	36.9	26.5	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

(END OF REPORT)