

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: McGRAW-EDISON

Report Number: P454551

Luminaire Tested: **GALN-SA5C-830-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454551
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA 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: 27385 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 269
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

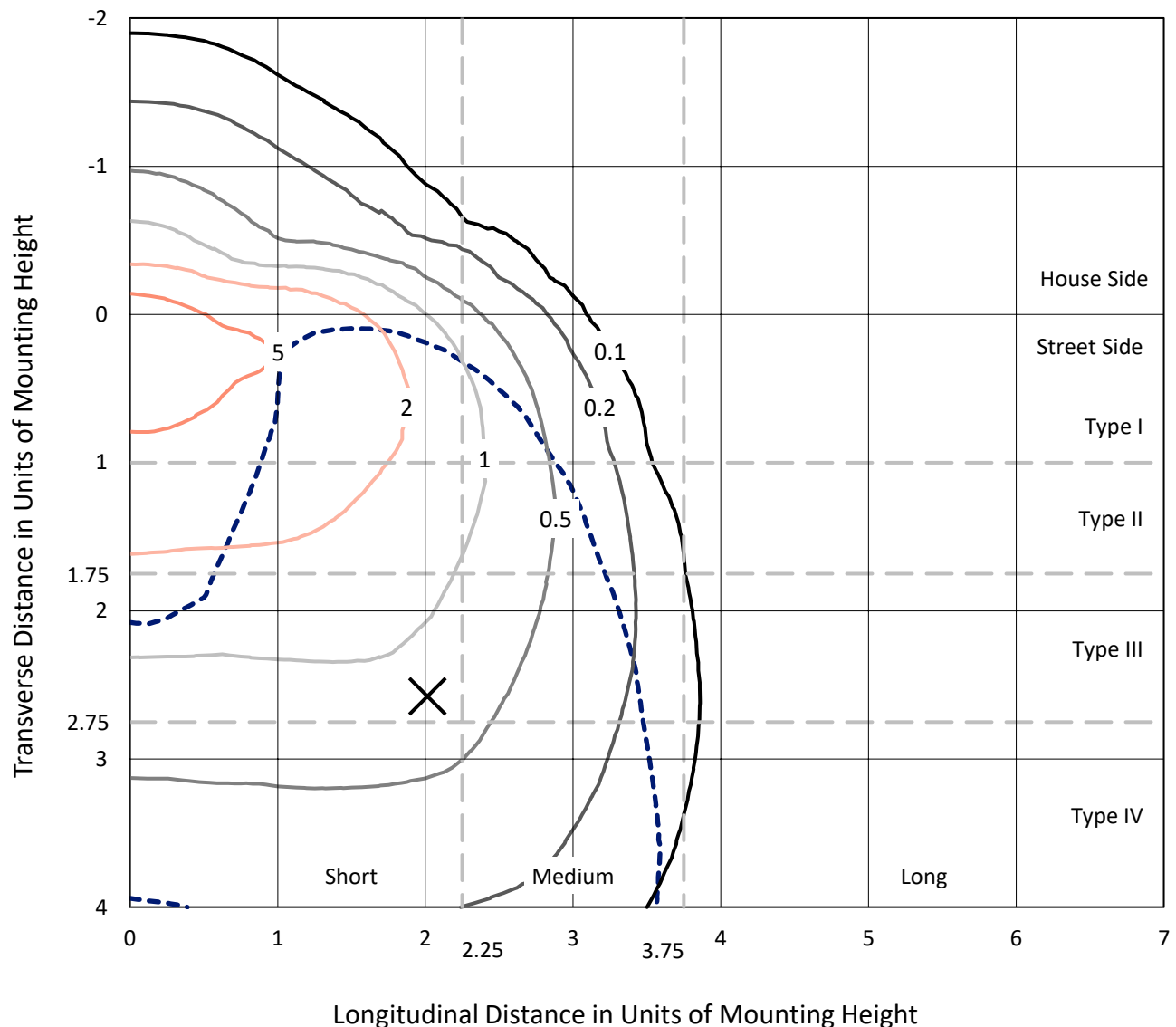


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

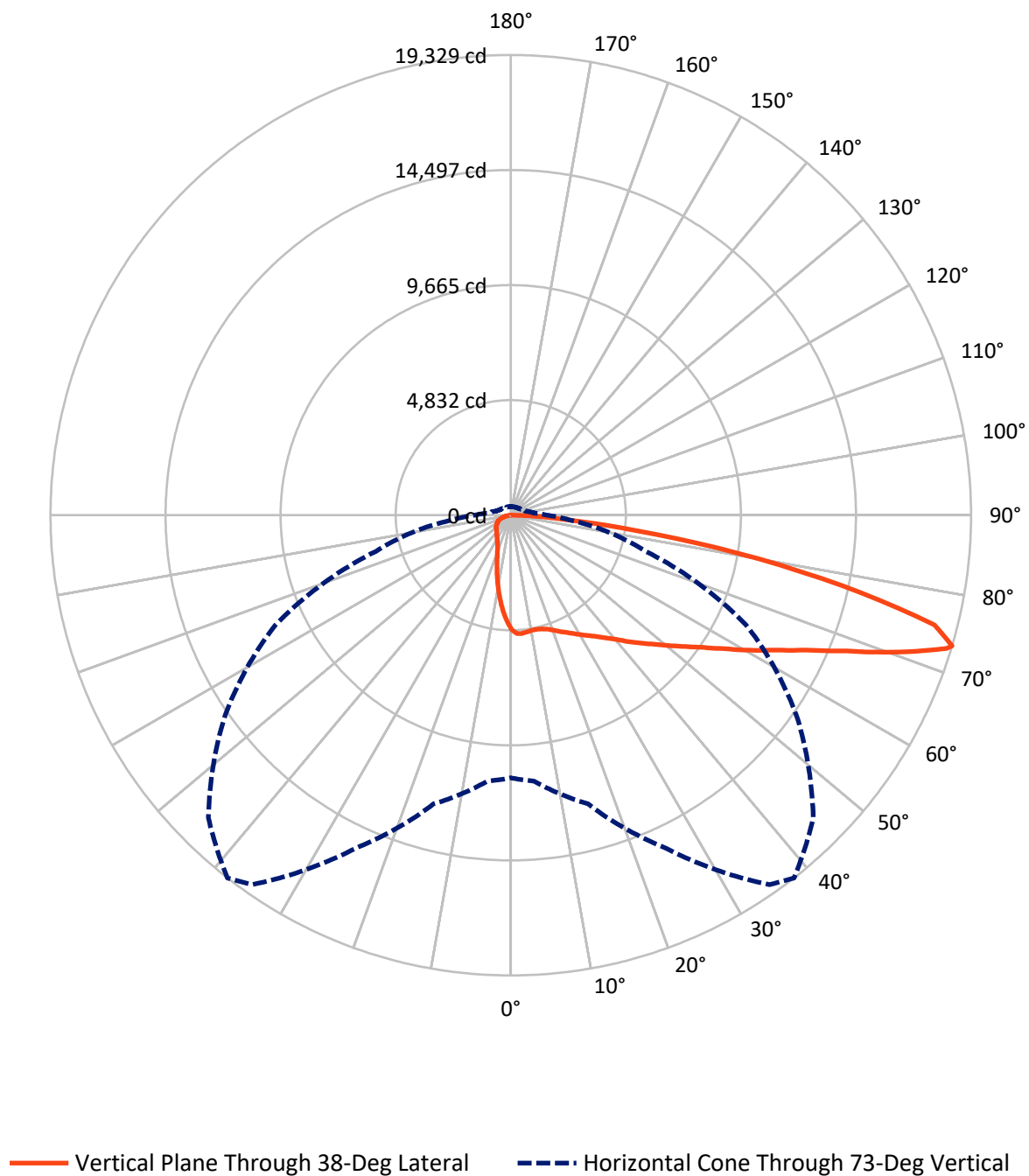


Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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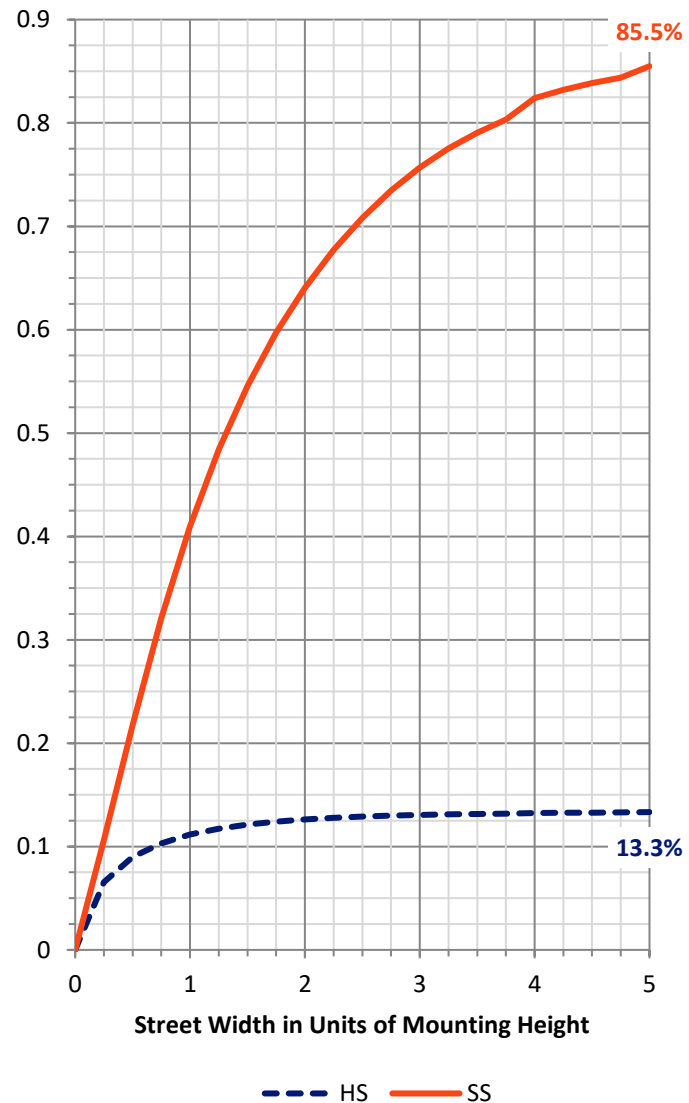
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3681.4	0.0	3681.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	23703.6	0.0	23703.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	27385.0	0.0	27385.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.9	1.5
10°-20°	1076.9	3.9
20°-30°	1676.9	6.1
30°-40°	2459.7	9.0
40°-50°	3648.7	13.3
50°-60°	5169.4	18.9
60°-70°	6557.6	23.9
70°-80°	5458.7	19.9
80°-90°	917.1	3.3
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°	27385.0	100.0
0°-180°	27385.0	100.0

Coefficient of Utilization



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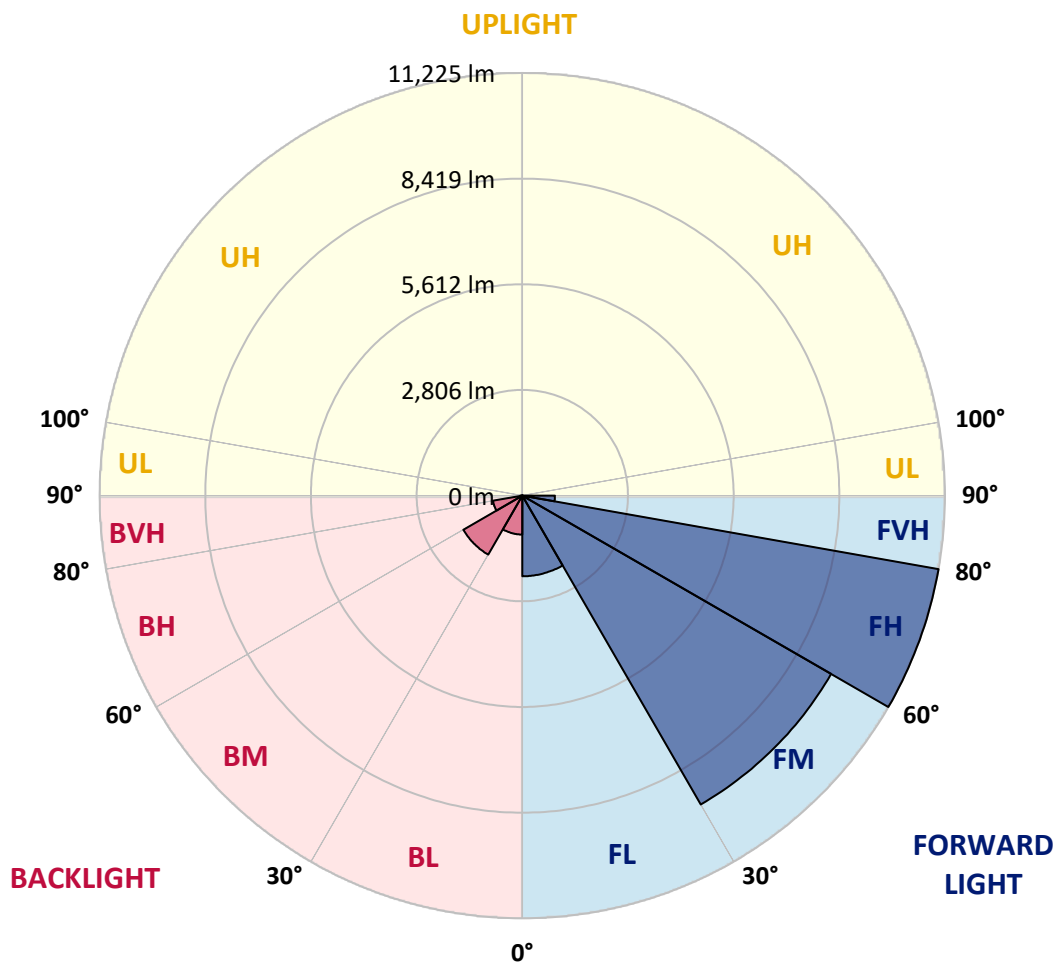
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2140.8	7.8			
FM	(30°-60°)	9470.5	34.6			
FH	(60°-80°)	11225.0	41.0			G4/12000
FVH	(80°-90°)	867.4	3.2			G5
BL	(0°-30°)	1033.0	3.8	B3/2500		
BM	(30°-60°)	1807.3	6.6	B2/2500		
BH	(60°-80°)	791.3	2.9	B2/1000		G2/1000
BVH	(80°-90°)	49.7	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4811.1	4811.1	4811.1	4811.1	4811.1	4811.1	4811.1	4811.1	4811.1	4811.1	4811.1
2.5°	5004.4	5029.1	5016.8	4999.8	4988.9	4978.1	4962.6	4917.8	4882.2	4843.6	4783.2
5°	5041.5	5057.0	5046.1	5024.5	4999.8	4988.9	4959.5	4900.8	4843.6	4778.6	4688.9
7.5°	5019.9	5026.0	5013.7	4987.4	4965.7	4945.6	4911.6	4846.6	4777.1	4698.2	4580.7
10°	4942.5	4965.7	4965.7	4944.1	4922.4	4911.6	4877.6	4815.7	4752.3	4662.6	4523.4
12.5°	4879.1	4903.9	4924.0	4917.8	4916.2	4916.2	4890.0	4843.6	4769.3	4684.3	4518.8
15°	4835.8	4865.2	4908.5	4933.3	4948.7	4953.4	4942.5	4902.3	4826.5	4727.6	4537.4
17.5°	4826.5	4862.1	4941.0	4995.1	5035.3	5033.8	5030.7	4975.0	4891.5	4789.4	4560.6
20°	4868.3	4914.7	5024.5	5109.5	5168.3	5157.5	5140.5	5067.8	4970.4	4855.9	4582.2
22.5°	4993.6	5041.5	5162.1	5254.9	5312.1	5312.1	5261.1	5165.2	5061.6	4933.3	4611.6
25°	5173.0	5225.5	5353.9	5448.2	5474.5	5454.4	5403.4	5287.4	5168.3	5044.6	4673.4
27.5°	5392.6	5456.0	5575.0	5653.9	5646.2	5630.7	5578.1	5429.7	5310.6	5197.7	4778.6
30°	5666.3	5712.7	5836.4	5855.0	5827.1	5824.0	5749.8	5601.3	5490.0	5403.4	4928.6
32.5°	5924.5	5966.3	6065.3	6073.0	6023.5	6029.7	5960.1	5824.0	5760.6	5729.7	5180.7
35°	6198.3	6219.9	6305.0	6295.7	6263.2	6258.6	6230.7	6100.8	6120.9	6176.6	5537.9
37.5°	6427.1	6470.4	6518.4	6526.1	6524.6	6540.0	6558.6	6496.7	6612.7	6787.5	6006.5
40°	6637.5	6674.6	6745.7	6770.5	6830.8	6861.7	6925.1	6926.7	7194.2	7481.8	6583.3
42.5°	6779.7	6843.1	6976.1	7021.0	7167.9	7260.7	7355.0	7455.6	7843.7	8213.3	7263.8
45°	6903.5	6987.0	7208.1	7347.3	7546.8	7659.7	7859.2	8069.5	8627.8	9111.8	7955.1
47.5°	7090.6	7164.8	7418.4	7664.3	7965.9	8095.8	8394.3	8708.2	9438.1	9968.6	8617.0
50°	7350.4	7395.2	7653.5	8054.0	8439.1	8606.1	9000.5	9453.6	10304.2	10814.5	9198.4
52.5°	7682.9	7701.4	7907.1	8440.7	8947.9	9155.1	9677.8	10206.7	11061.9	11549.1	9659.3
55°	8075.7	8044.8	8205.6	8850.5	9529.4	9800.0	10361.4	10969.1	11914.0	12142.9	9994.9
57.5°	8463.9	8415.9	8544.3	9348.4	10246.9	10573.2	11227.4	11754.7	12674.9	12698.1	10229.9
60°	8875.2	8839.6	8992.7	9933.0	11126.9	11513.5	12118.2	12569.7	13411.0	13084.7	10267.0
62.5°	9297.4	9240.2	9458.2	10590.3	12118.2	12469.2	13055.3	13435.8	14133.2	13228.5	9909.8
65°	9707.2	9680.9	10018.1	11371.2	13247.1	13646.1	14215.2	14473.4	14711.6	13012.0	9023.7
67.5°	10143.3	10195.9	10734.1	12413.5	14719.3	15220.4	15834.3	15591.6	14877.1	11986.7	7599.4
70°	10808.3	10842.3	11674.3	13779.1	16616.9	17221.5	17518.5	15989.0	14079.1	10039.7	5712.7
72.5°	11094.4	11244.4	12514.1	15212.7	18772.6	19142.3	18084.5	15102.9	11728.5	6820.0	3001.7
73°	11031.0	11210.4	12552.7	15430.7	18941.2	19329.4	17963.8	14646.7	10902.6	5873.5	2573.3
75°	10240.8	10461.9	12050.1	15248.2	18613.4	18381.4	16024.6	12483.1	7367.4	2670.8	1172.2
77.5°	8080.3	8143.7	9547.9	12313.0	14657.5	14227.6	11992.9	7802.0	3009.4	992.8	665.0
80°	4053.3	4286.8	5381.7	7053.5	9801.6	9660.8	7570.0	3689.9	1254.2	583.0	440.7
82.5°	1950.1	2115.6	2621.3	3439.4	5415.8	5287.4	3748.7	2016.6	796.4	340.2	259.8
85°	1255.7	1379.5	1668.6	1640.8	2226.9	2126.4	1684.1	1526.4	471.7	177.8	180.9
87.5°	828.9	907.8	1088.7	870.7	810.4	733.0	743.9	859.8	92.8	68.0	24.7
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°	4811.1	4811.1	4811.1	4811.1	4811.1	4811.1	4811.1	4811.1	4811.1	4811.1	4811.1
2.5°	4758.5	4738.4	4671.9	4606.9	4545.1	4486.3	4447.7	4396.6	4362.6	4371.9	4385.8
5°	4639.4	4594.6	4477.0	4362.6	4254.3	4126.0	4022.4	3938.9	3875.5	3852.3	3847.6
7.5°	4514.2	4438.4	4269.8	4073.4	3889.4	3730.1	3546.1	3454.8	3348.1	3311.0	3298.6
10°	4438.4	4336.3	4099.7	3826.0	3549.2	3284.7	3085.2	2922.8	2775.9	2748.1	2734.2
12.5°	4416.7	4282.2	3963.6	3611.0	3243.0	2918.2	2622.8	2409.4	2267.1	2234.7	2186.7
15°	4404.4	4237.3	3836.8	3394.5	2927.5	2531.6	2220.7	1971.8	1841.9	1755.2	1756.8
17.5°	4393.5	4186.3	3694.5	3157.9	2655.3	2199.1	1855.8	1631.5	1512.5	1466.1	1461.4
20°	4378.1	4126.0	3530.6	2908.9	2344.5	1896.0	1585.1	1418.1	1337.7	1299.0	1297.5
22.5°	4371.9	4067.2	3369.8	2655.3	2069.2	1662.5	1405.7	1288.2	1237.2	1210.9	1210.9
25°	4387.3	4025.5	3201.2	2414.0	1824.8	1463.0	1282.0	1201.6	1172.2	1158.3	1153.7
27.5°	4435.3	4006.9	3034.2	2172.8	1600.6	1326.9	1198.5	1142.8	1121.2	1110.4	1111.9
30°	4526.5	4005.4	2870.3	1934.6	1433.6	1223.3	1132.0	1093.4	1076.3	1070.2	1068.6
32.5°	4673.4	4039.4	2709.4	1738.2	1292.9	1136.7	1070.2	1042.3	1034.6	1030.0	1028.4
35°	4922.4	4135.3	2550.1	1558.8	1184.6	1059.3	1011.4	997.5	986.7	991.3	992.8
37.5°	5258.0	4300.7	2398.6	1418.1	1102.6	1002.1	961.9	949.5	943.3	948.0	952.6
40°	5708.0	4538.9	2271.8	1305.2	1043.9	954.2	918.6	907.8	901.6	909.3	910.9
42.5°	6204.5	4814.2	2166.6	1217.1	995.9	914.0	879.9	867.6	862.9	867.6	869.1
45°	6714.8	5134.3	2112.5	1153.7	955.7	884.6	849.0	835.1	824.3	821.2	825.8
47.5°	7217.4	5412.7	2110.9	1115.0	923.2	858.3	819.6	804.2	790.2	782.5	781.0
50°	7627.2	5633.8	2148.1	1098.0	895.4	828.9	790.2	774.8	756.2	740.8	743.9
52.5°	7936.5	5777.6	2165.1	1090.3	879.9	798.0	759.3	745.4	723.7	703.6	703.6
55°	8136.0	5811.6	2123.3	1082.5	867.6	765.5	723.7	711.4	689.7	669.6	669.6
57.5°	8204.0	5706.5	1973.3	1064.0	855.2	737.7	688.2	677.4	660.3	640.2	637.1
60°	8046.3	5350.8	1710.4	1008.3	830.5	708.3	649.5	644.9	638.7	621.7	620.1
62.5°	7438.5	4596.1	1424.3	935.6	788.7	677.4	614.0	621.7	626.3	617.0	615.5
65°	6427.1	3731.6	1217.1	835.1	733.0	634.1	575.3	595.4	607.8	607.8	604.7
67.5°	5213.2	2865.6	1025.3	748.5	663.4	575.3	532.0	547.5	556.7	553.6	561.4
70°	3705.4	1940.8	835.1	649.5	575.3	508.8	476.3	476.3	470.1	467.0	467.0
72.5°	1797.0	1108.8	677.4	542.8	490.2	434.6	408.3	397.4	385.1	383.5	375.8
73°	1501.6	994.4	646.4	522.7	470.1	423.7	394.4	377.3	369.6	363.4	361.9
75°	914.0	754.7	539.7	440.7	400.5	365.0	338.7	323.2	315.5	310.8	309.3
77.5°	601.6	562.9	419.1	337.1	306.2	284.6	273.7	258.3	253.6	247.4	247.4
80°	448.5	429.9	300.0	238.2	219.6	201.0	197.9	194.9	182.5	174.8	171.7
82.5°	289.2	306.2	204.1	159.3	139.2	123.7	125.3	129.9	117.5	106.7	103.6
85°	205.7	221.1	123.7	72.7	58.8	51.0	57.2	51.0	52.6	41.8	34.0
87.5°	34.0	58.8	21.7	9.3	4.6	3.1	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)