

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: P457333

Luminaire Tested: **GALN-SA8C-830-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457333
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA 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: 44714 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 429
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

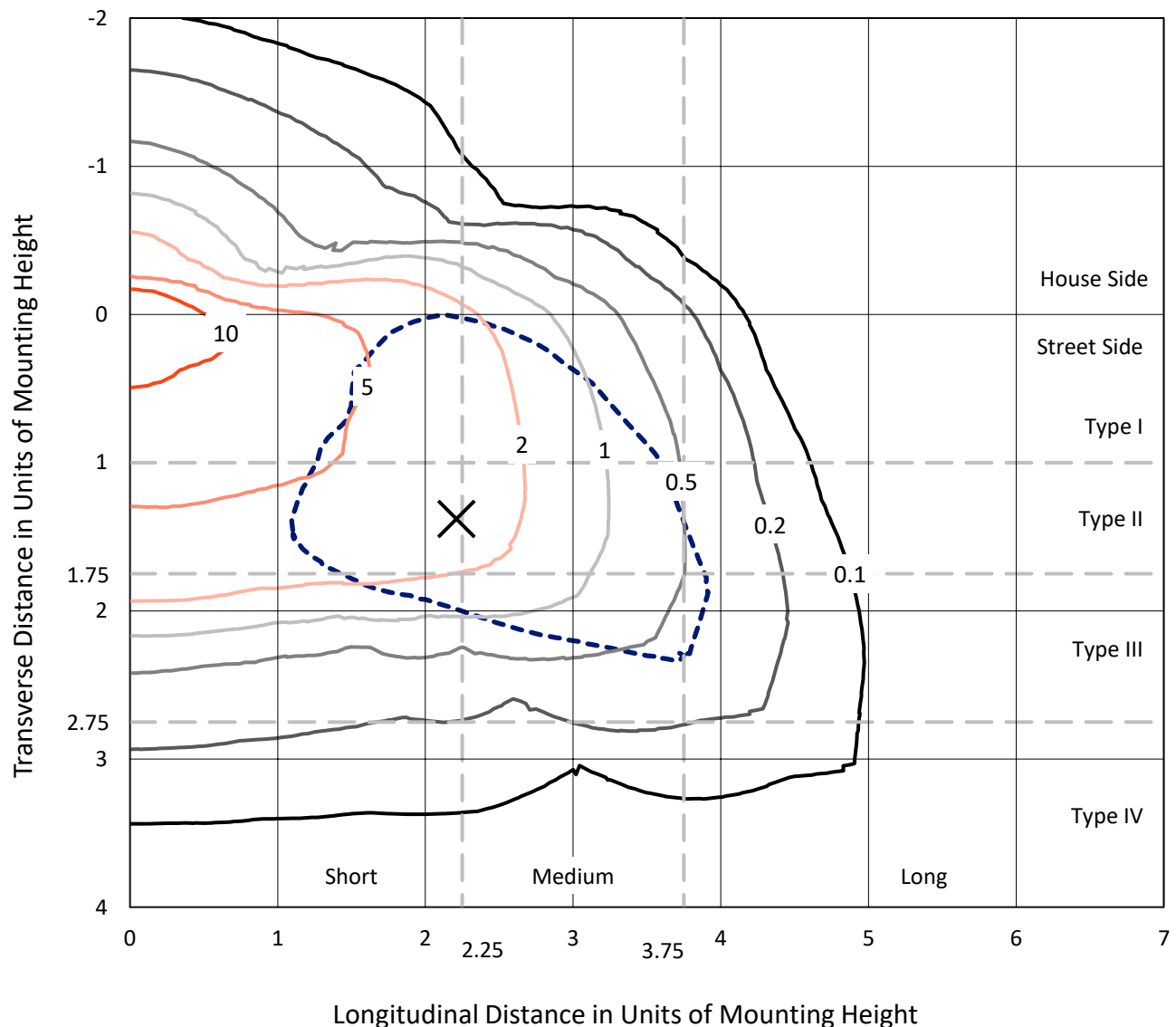


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

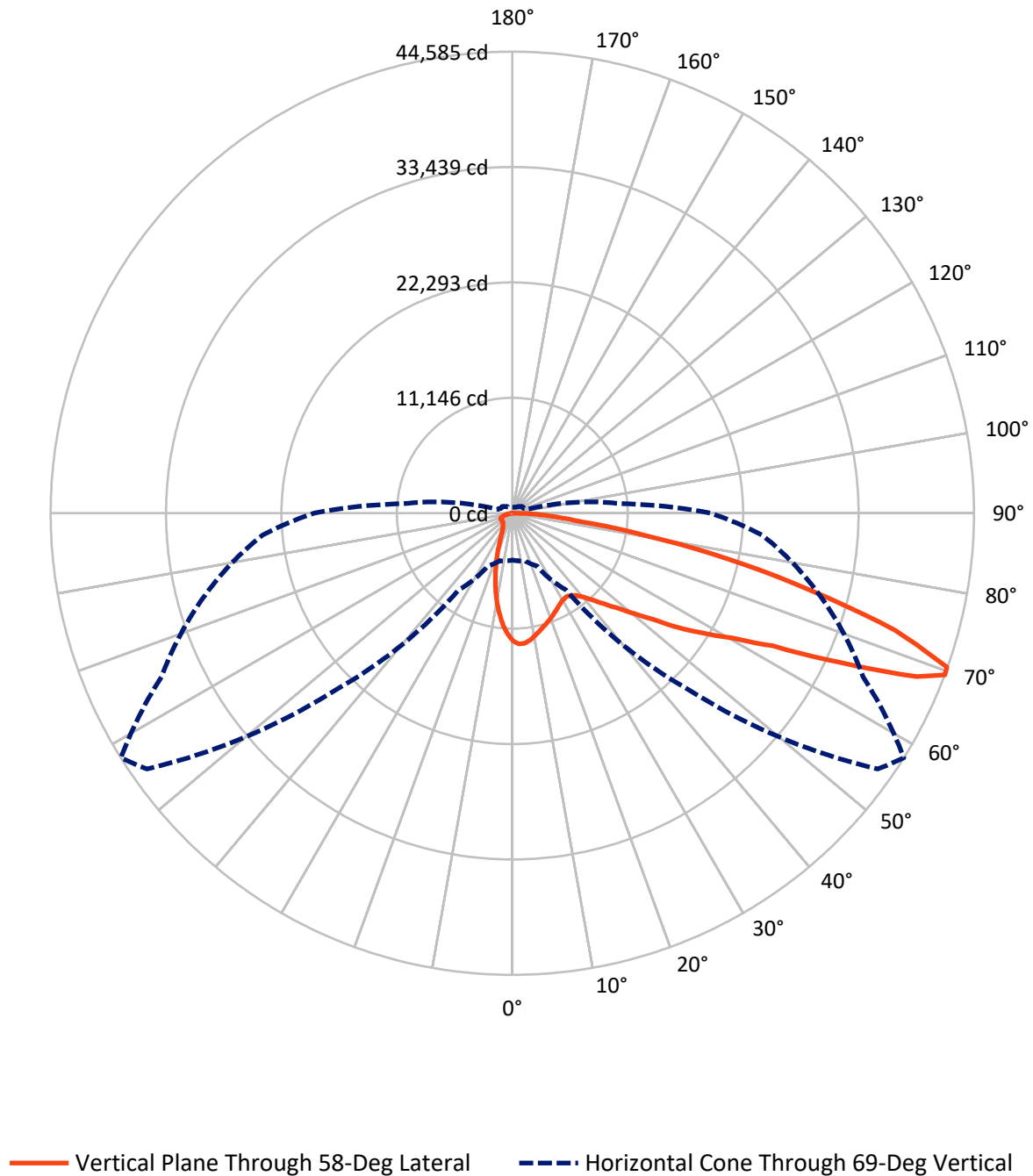


Based on 25 foot mounting height. Maximum calculated value = 19.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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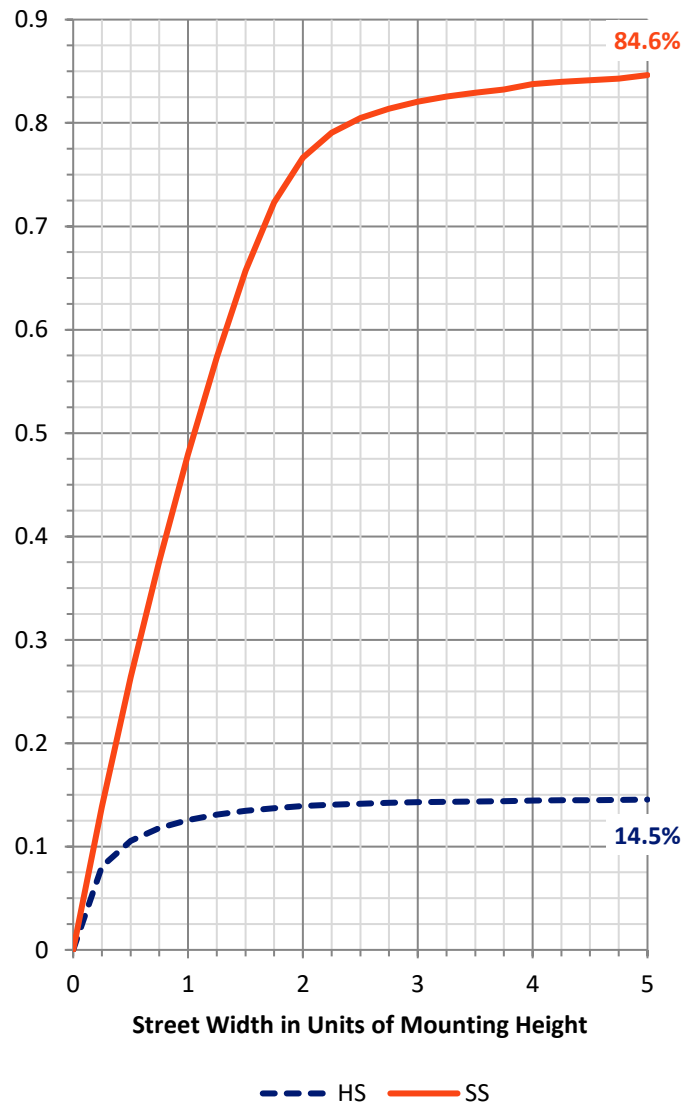
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6552.8	0.0	6552.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	38161.2	0.0	38161.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	44714.0	0.0	44714.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1049.3	2.3
10°-20°	2304.2	5.2
20°-30°	2977.1	6.7
30°-40°	3866.6	8.6
40°-50°	5621.5	12.6
50°-60°	8970.1	20.1
60°-70°	11982.9	26.8
70°-80°	6907.7	15.4
80°-90°	1034.6	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°	44714.0	100.0
0°-180°	44714.0	100.0

Coefficient of Utilization



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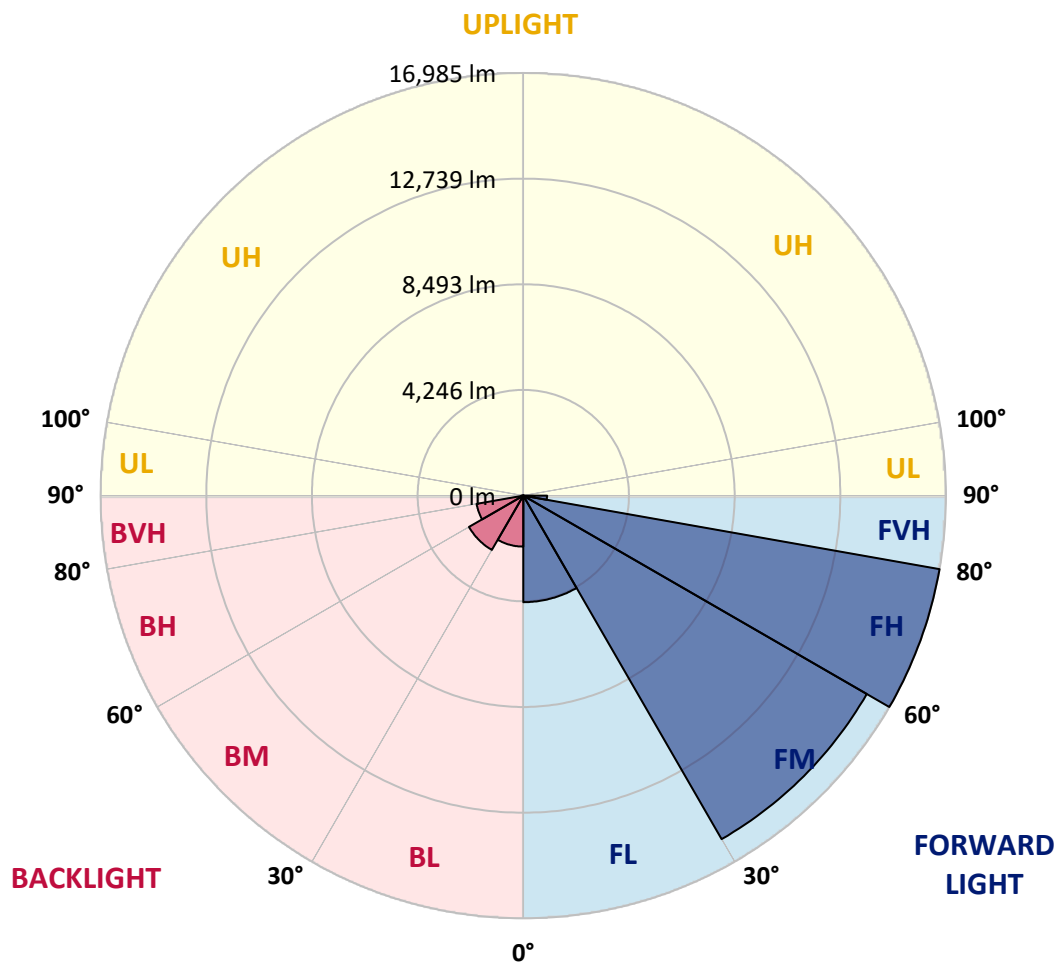
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4282.5	9.6			
FM	(30°-60°)	15938.2	35.6			
FH	(60°-80°)	16985.1	38.0			G5
FVH	(80°-90°)	955.4	2.1			G5
BL	(0°-30°)	2048.1	4.6	B3/2500		
BM	(30°-60°)	2520.0	5.6	B3/5000		
BH	(60°-80°)	1905.4	4.3	B3/2500		G3/2500
BVH	(80°-90°)	79.3	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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	12356.3	12356.3	12356.3	12356.3	12356.3	12356.3	12356.3	12356.3	12356.3	12356.3	12356.3
2.5°	12815.2	12850.1	12840.1	12827.6	12807.7	12752.8	12663.1	12648.1	12590.7	12468.5	12316.4
5°	12618.2	12648.1	12650.6	12668.0	12693.0	12683.0	12618.2	12610.7	12525.9	12361.3	12107.0
7.5°	11942.4	11982.3	12069.6	12166.8	12254.1	12336.4	12356.3	12368.8	12316.4	12126.9	11787.8
10°	11181.8	11221.7	11261.6	11406.2	11620.7	11825.2	11994.7	12017.2	12029.7	11855.1	11441.1
12.5°	10338.9	10421.2	10506.0	10720.5	11007.2	11328.9	11628.2	11675.5	11760.3	11628.2	11141.9
15°	9623.2	9708.0	9830.2	10022.2	10368.8	10832.7	11254.1	11331.4	11498.5	11431.2	10862.6
17.5°	9127.0	9156.9	9241.7	9461.1	9835.2	10324.0	10887.5	11042.1	11309.0	11291.5	10623.2
20°	8735.5	8772.9	8825.2	8959.9	9348.9	9865.1	10545.9	10745.4	11107.0	11166.8	10386.3
22.5°	8570.9	8598.3	8590.8	8663.1	8927.5	9446.2	10199.3	10436.2	10927.4	11082.0	10166.9
25°	8580.9	8605.8	8568.4	8550.9	8708.0	9077.1	9837.7	10139.4	10782.8	11024.7	9967.4
27.5°	8747.9	8765.4	8695.6	8625.7	8638.2	8847.7	9538.4	9872.6	10660.6	11049.6	9800.3
30°	8972.4	9004.8	8959.9	8875.1	8782.8	8792.8	9346.4	9675.6	10603.3	11136.9	9720.5
32.5°	9261.6	9291.6	9271.6	9204.3	9084.6	8952.4	9299.0	9603.3	10608.2	11314.0	9703.0
35°	9565.9	9625.7	9658.1	9653.2	9555.9	9326.5	9486.1	9737.9	10727.9	11610.7	9805.3
37.5°	9910.0	9959.9	10099.5	10189.3	10099.5	9832.7	9907.5	10082.1	10992.3	12039.6	10029.7
40°	10244.2	10319.0	10523.5	10802.8	10767.8	10533.4	10550.9	10665.6	11458.6	12678.0	10468.6
42.5°	10593.3	10683.1	11039.7	11453.6	11535.9	11353.9	11401.2	11503.5	12121.9	13563.3	11221.7
45°	11042.1	11149.4	11588.3	12104.5	12428.6	12316.4	12451.1	12501.0	13009.7	14715.4	12214.2
47.5°	11620.7	11745.4	12286.5	12929.9	13388.7	13491.0	13725.4	13695.5	14109.4	16079.4	13500.9
50°	12595.7	12665.6	13176.8	13832.6	14463.5	14924.9	15179.2	15226.6	15473.5	17406.1	14939.8
52.5°	13755.3	13817.6	14186.7	14760.3	15550.8	16528.3	17156.7	17002.1	17062.0	19022.0	16623.1
55°	15059.5	15164.2	15398.7	15780.2	16805.1	18244.0	19505.8	19543.2	18879.9	20568.1	18236.5
57.5°	16069.5	16246.5	16648.0	17191.6	18490.9	20151.7	21847.4	21872.3	21024.5	22219.0	20017.0
60°	15560.7	15770.2	16687.9	18012.1	20702.8	23480.8	24645.3	24503.2	23111.7	24099.2	22189.0
62.5°	13366.3	13403.7	14737.8	16807.6	21383.6	27934.5	28809.8	28208.8	25897.2	26483.2	24396.0
65°	8650.7	8895.1	9952.4	12852.6	19146.7	30405.8	36106.4	34717.4	29802.3	29188.9	26243.8
67.5°	5461.2	5398.9	5837.8	7339.0	13169.3	28228.8	42333.2	42113.8	34909.4	30897.1	25802.4
69°	4528.6	4598.4	4748.0	5625.8	9062.1	24101.7	43068.9	44585.0	37385.7	30762.4	24199.0
70°	4107.1	4139.6	4296.7	4987.4	6992.4	20186.6	41861.9	44517.7	38358.2	30198.8	23036.9
72.5°	3259.3	3256.8	3526.1	4149.5	5226.8	11523.4	34373.3	38650.0	37271.0	27575.4	19034.5
75°	2476.3	2516.2	2812.9	3511.1	4815.4	6296.6	23987.0	29764.9	29767.4	21780.1	11877.5
77.5°	1785.5	1810.4	2157.1	2947.6	4536.1	5104.6	15977.2	21348.6	20069.4	9979.8	3733.1
80°	1169.5	1184.5	1448.8	2334.1	4089.7	4815.4	9473.6	13067.0	9466.1	2648.3	1234.4
82.5°	640.9	715.7	885.3	1511.2	3281.7	4448.8	5758.0	6613.3	3551.0	1179.5	643.4
85°	321.7	341.6	498.7	882.8	2144.6	3680.7	4009.9	3792.9	1832.9	586.0	334.2
87.5°	94.8	119.7	207.0	341.6	870.3	1917.7	2231.9	2002.4	705.7	212.0	69.8
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°	12356.3	12356.3	12356.3	12356.3	12356.3	12356.3	12356.3	12356.3	12356.3	12356.3	12356.3
2.5°	12254.1	12209.2	12009.7	11830.2	11665.6	11491.0	11343.9	11214.2	11226.7	11229.2	11097.0
5°	11974.8	11872.6	11493.5	11139.4	10840.2	10461.1	10136.9	9927.5	9822.7	9683.1	9732.9
7.5°	11595.8	11398.7	10872.6	10284.1	9732.9	9241.7	8708.0	8341.5	8107.1	7880.1	7910.0
10°	11204.2	10887.5	10122.0	9343.9	8630.7	7845.2	7164.4	6580.9	6147.0	5984.9	5877.7
12.5°	10802.8	10386.3	9413.8	8378.9	7393.8	6453.7	5488.7	4862.7	4383.9	4129.6	4162.0
15°	10436.2	9930.0	8675.6	7413.8	6134.5	5014.9	4052.3	3456.3	3122.1	3052.3	3092.2
17.5°	10097.0	9433.7	7984.9	6476.2	4982.4	3760.5	3044.8	2708.2	2573.5	2536.1	2533.6
20°	9747.9	9012.3	7209.3	5473.7	3882.7	2915.1	2498.7	2341.6	2316.7	2331.6	2334.1
22.5°	9393.8	8491.1	6411.3	4478.7	3092.2	2384.0	2184.5	2142.1	2162.0	2197.0	2201.9
25°	9067.1	8032.2	5643.3	3605.9	2468.8	2094.7	1997.5	1997.5	2042.3	2094.7	2097.2
27.5°	8797.8	7588.4	4877.7	2862.8	2067.3	1885.2	1852.8	1870.3	1932.6	1972.5	1975.0
30°	8575.9	7174.4	4154.5	2294.2	1817.9	1718.2	1710.7	1740.6	1785.5	1822.9	1825.4
32.5°	8408.8	6810.3	3478.7	1927.6	1645.8	1591.0	1588.5	1610.9	1635.9	1645.8	1655.8
35°	8344.0	6508.6	2860.3	1695.7	1531.1	1496.2	1496.2	1493.7	1503.7	1508.7	1513.7
37.5°	8396.3	6276.7	2381.5	1546.1	1446.4	1421.4	1406.5	1391.5	1386.5	1386.5	1389.0
40°	8618.3	6154.5	2024.9	1448.8	1386.5	1349.1	1321.7	1304.2	1286.8	1291.7	1296.7
42.5°	9089.6	6176.9	1783.0	1384.0	1334.1	1281.8	1241.9	1221.9	1209.4	1224.4	1221.9
45°	9840.2	6401.4	1628.4	1339.1	1281.8	1214.4	1177.0	1157.1	1157.1	1179.5	1187.0
47.5°	10890.0	6830.3	1546.1	1304.2	1241.9	1162.1	1124.7	1109.7	1114.7	1152.1	1154.6
50°	12171.8	7575.9	1531.1	1286.8	1221.9	1124.7	1082.3	1067.3	1079.8	1119.7	1124.7
52.5°	13585.7	8536.0	1603.5	1289.2	1204.5	1102.2	1047.4	1024.9	1037.4	1069.8	1079.8
55°	15261.5	9737.9	1790.5	1299.2	1179.5	1089.8	1022.4	972.5	987.5	1010.0	1012.4
57.5°	16972.2	11254.1	2119.7	1301.7	1159.6	1067.3	980.0	915.2	915.2	930.2	937.6
60°	19061.9	12904.9	2553.6	1304.2	1162.1	1034.9	922.7	850.4	840.4	847.9	850.4
62.5°	21136.7	14286.5	2625.9	1296.7	1187.0	1002.5	860.3	785.5	768.1	765.6	760.6
65°	22051.9	14029.6	2152.1	1261.8	1214.4	982.5	810.5	723.2	693.3	683.3	683.3
67.5°	20560.6	11867.6	1618.4	1214.4	1197.0	962.6	763.1	670.8	635.9	615.9	615.9
69°	19159.2	10555.9	1453.8	1182.0	1152.1	930.2	733.2	643.4	601.0	578.5	571.1
70°	18076.9	9653.2	1384.0	1154.6	1109.7	892.7	710.7	623.4	576.0	551.1	546.1
72.5°	14426.1	7573.4	1211.9	1049.9	945.1	750.6	630.9	561.1	516.2	488.8	481.3
75°	8314.0	4104.6	1005.0	912.7	760.6	583.5	533.7	488.8	453.9	428.9	421.4
77.5°	2558.5	1586.0	728.2	720.7	558.6	451.4	426.4	409.0	384.0	356.6	351.6
80°	1077.3	808.0	493.8	486.3	371.6	314.2	306.7	304.2	294.3	271.8	264.3
82.5°	591.0	456.3	344.1	299.2	224.4	182.0	189.5	192.0	184.5	162.1	147.1
85°	289.3	249.4	167.1	134.7	102.2	64.8	62.3	74.8	69.8	49.9	54.9
87.5°	57.4	69.8	44.9	19.9	10.0	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)