

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: P457563

Luminaire Tested: **GALN-SA8D-830-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457563
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8D-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49549 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): 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

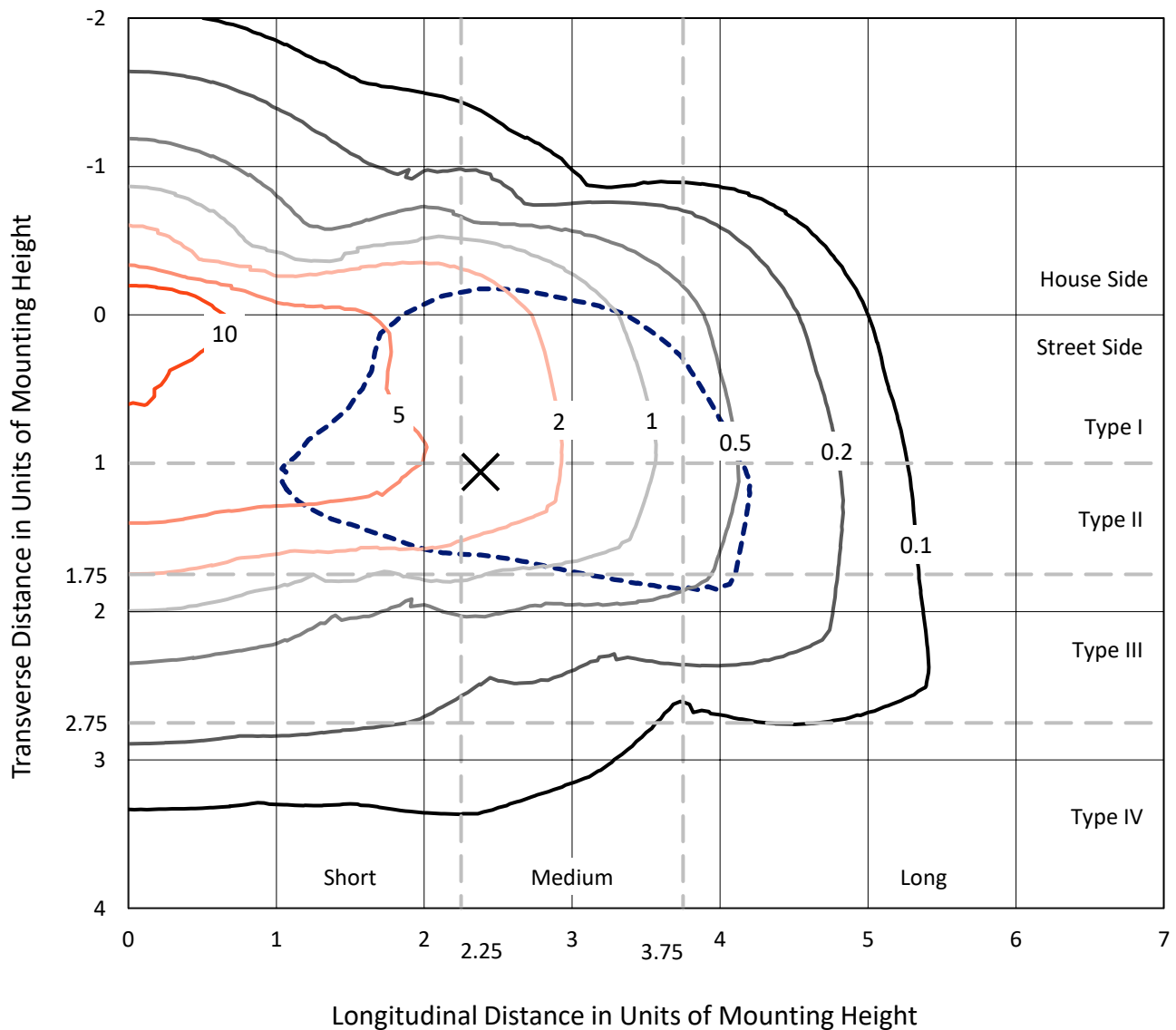


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

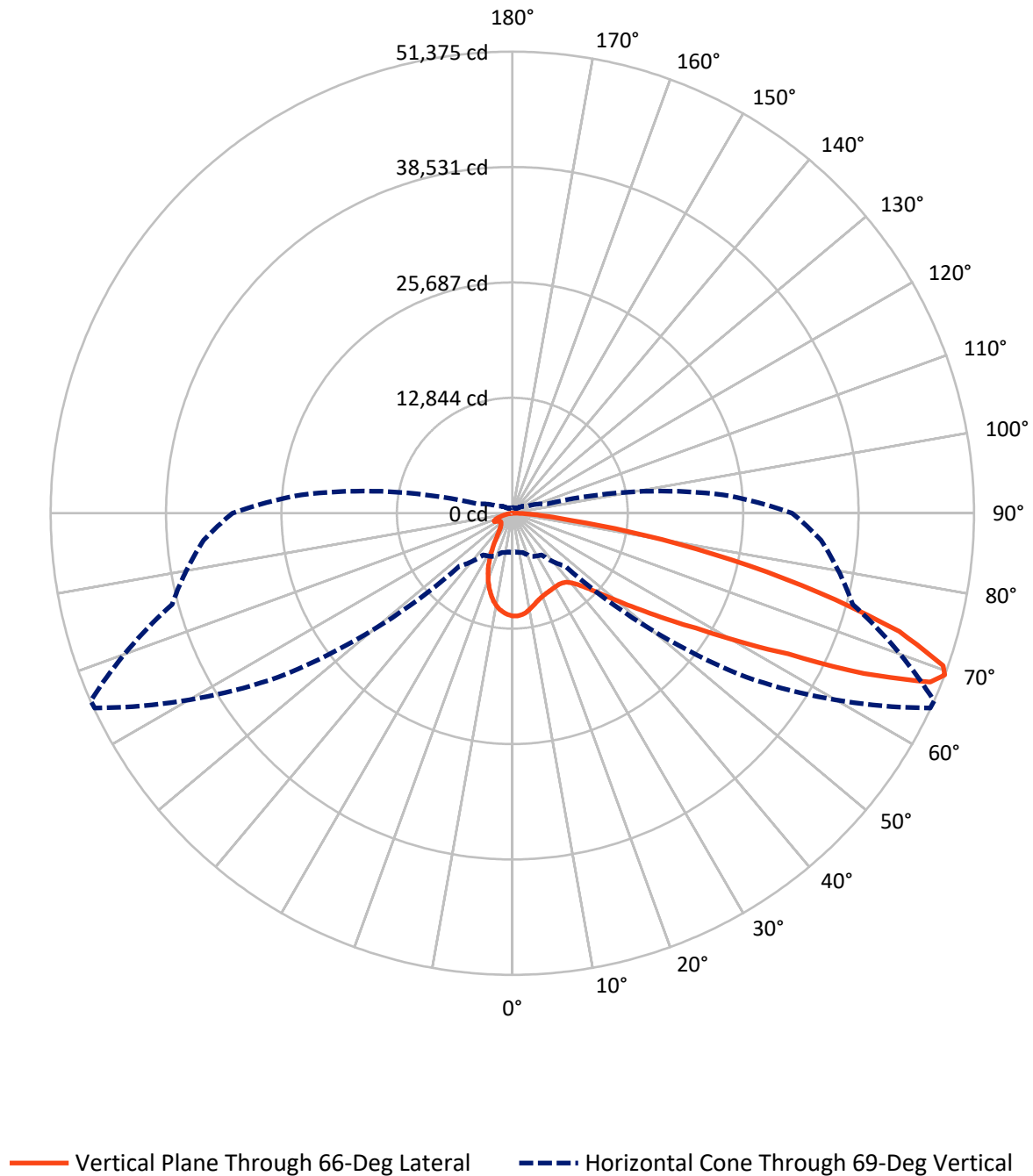


Based on 25 foot mounting height. Maximum calculated value = 18.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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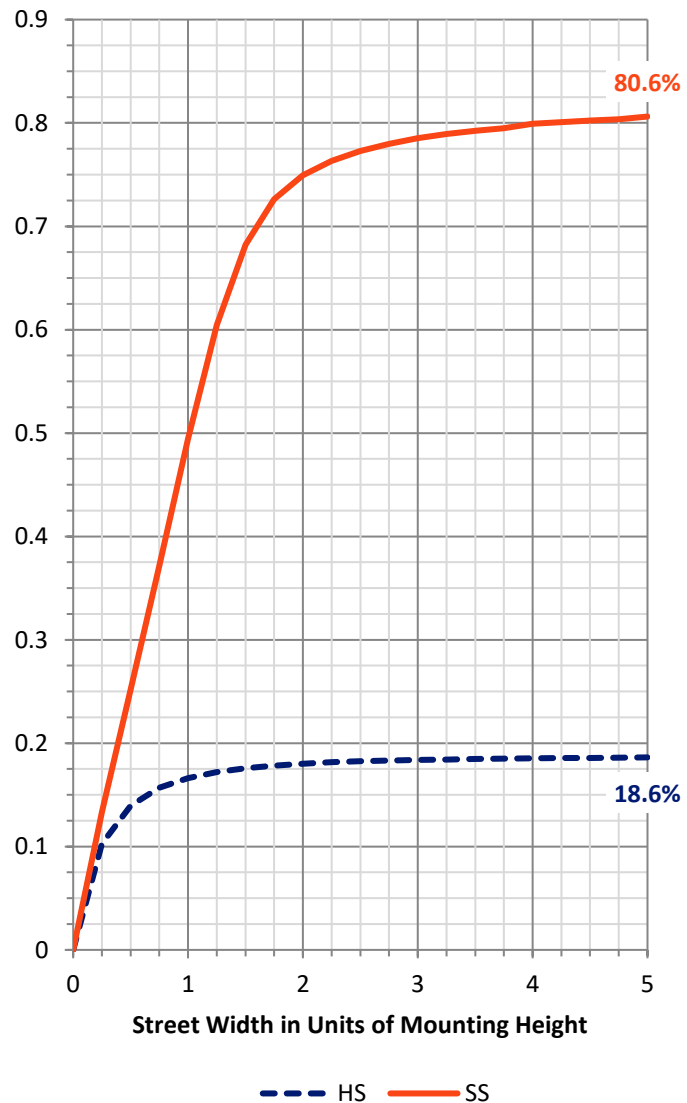
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9318.3	0.0	9318.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	40230.7	0.0	40230.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	49549.0	0.0	49549.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	993.6	2.0
10°-20°	2356.8	4.8
20°-30°	3208.5	6.5
30°-40°	4311.5	8.7
40°-50°	6437.8	13.0
50°-60°	10240.4	20.7
60°-70°	12595.2	25.4
70°-80°	8195.0	16.5
80°-90°	1210.1	2.4
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°	49549.0	100.0
0°-180°	49549.0	100.0

Coefficient of Utilization



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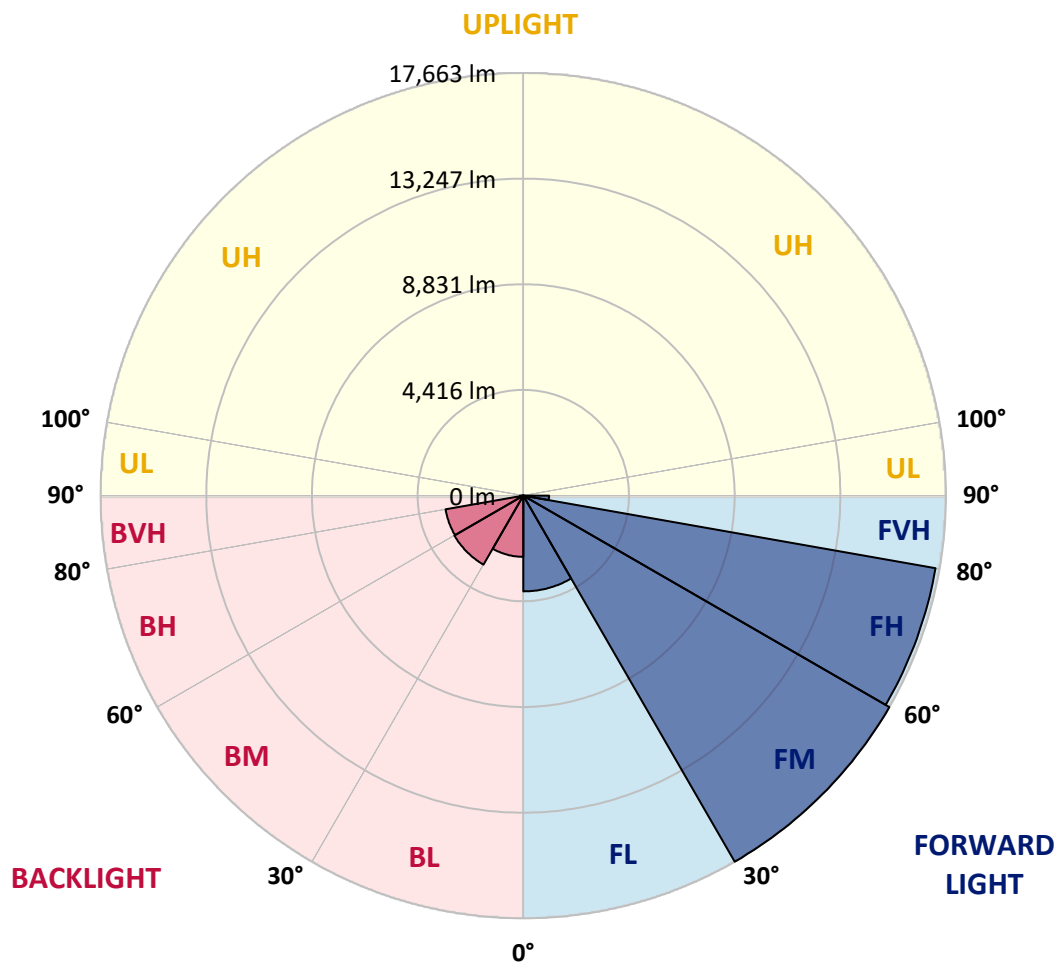
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4001.0	8.1			
FM	(30°-60°)	17662.7	35.6			
FH	(60°-80°)	17491.1	35.3			G5
FVH	(80°-90°)	1075.9	2.2			G5
BL	(0°-30°)	2557.9	5.2	B4/5000		
BM	(30°-60°)	3327.0	6.7	B3/5000		
BH	(60°-80°)	3299.1	6.7	B4/5000		G4/5000
BVH	(80°-90°)	134.3	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	11442.2	11442.2	11442.2	11442.2	11442.2	11442.2	11442.2	11442.2	11442.2	11442.2	11442.2
2.5°	11041.6	11085.5	11134.9	11189.8	11294.1	11351.7	11392.8	11439.5	11445.0	11469.7	11450.5
5°	10226.7	10278.8	10352.9	10457.2	10613.6	10857.8	11110.2	11316.0	11340.7	11456.0	11488.9
7.5°	9546.2	9576.4	9636.7	9804.1	10026.4	10298.0	10665.7	11082.8	11143.2	11417.5	11513.6
10°	8991.9	9022.1	9093.4	9266.3	9485.8	9826.1	10229.4	10778.2	10827.6	11299.6	11519.1
12.5°	8577.6	8605.0	8681.8	8852.0	9104.4	9422.7	9867.2	10448.9	10520.3	11143.2	11466.9
15°	8262.0	8314.1	8377.3	8517.2	8783.4	9090.7	9521.5	10147.1	10204.7	10978.5	11431.3
17.5°	8127.6	8152.3	8196.2	8325.1	8519.9	8821.8	9255.3	9911.1	9979.7	10863.3	11423.0
20°	8133.0	8157.7	8166.0	8237.3	8377.3	8637.9	9066.0	9724.5	9806.9	10761.7	11436.8
22.5°	8319.6	8322.4	8292.2	8267.5	8322.4	8539.1	8931.5	9584.6	9680.6	10717.8	11447.7
25°	8607.7	8657.1	8613.2	8498.0	8396.5	8500.7	8879.4	9507.8	9598.3	10654.7	11434.0
27.5°	9074.2	9082.5	9046.8	8890.4	8627.0	8550.1	8857.4	9450.1	9527.0	10608.1	11365.4
30°	9699.8	9675.1	9642.2	9469.3	9055.0	8739.5	8904.1	9398.0	9477.6	10539.5	11283.1
32.5°	10333.7	10410.5	10380.3	10177.3	9639.5	9107.1	9055.0	9392.5	9458.4	10487.3	11192.5
35°	11006.0	11041.6	11184.3	11080.0	10528.5	9702.6	9337.6	9477.6	9529.7	10490.1	11129.4
37.5°	11532.8	11628.8	11963.6	12054.1	11535.5	10490.1	9795.9	9719.0	9741.0	10624.5	11154.1
40°	12169.4	12334.0	12764.8	13135.3	12795.0	11513.6	10575.2	10166.3	10193.7	10948.3	11316.0
42.5°	12976.1	13091.4	13670.3	14172.5	14117.6	12866.3	11519.1	10898.9	10912.7	11593.2	11768.8
45°	13920.0	14084.7	14735.0	15489.6	15618.5	14397.5	12882.8	12007.5	11999.3	12594.7	12613.9
47.5°	15127.4	15228.9	15873.7	16696.9	17218.2	16321.0	14537.4	13599.0	13511.2	14054.5	13898.1
50°	16238.7	16397.8	16886.2	17786.2	19084.1	18573.7	16713.4	15662.4	15456.6	15964.3	15700.8
52.5°	16705.1	16872.5	17284.1	18400.9	20683.8	21487.8	19476.5	18123.7	17780.7	18170.4	18074.4
55°	15895.7	16112.4	16496.6	17854.8	21386.3	24849.1	23202.8	20969.2	20719.5	20552.1	20579.6
57.5°	13719.7	13925.5	14444.1	15942.3	20546.6	27288.5	28523.3	24626.9	24091.8	23320.8	23452.5
60°	10443.4	10572.4	10841.3	12501.4	18057.9	27922.4	34565.4	29250.4	28910.2	26078.4	26171.7
62.5°	7416.9	7562.3	7748.9	8577.6	13220.3	26136.1	39296.0	35706.9	34491.4	28934.9	28844.3
65°	6023.0	5924.2	6149.2	6536.1	7757.1	20255.8	40360.7	44668.6	42994.8	32696.8	31440.1
67.5°	4952.8	4848.5	5070.8	5759.5	5899.5	11757.8	36524.6	50485.8	50151.0	36788.0	34077.0
69°	4384.8	4329.9	4524.8	5309.5	5663.5	8349.8	31818.8	51295.3	51374.8	39200.0	34483.1
70°	3951.3	3973.2	4162.6	5081.8	5556.5	6884.6	27195.2	50178.5	50853.5	40404.6	34044.1
72.5°	2908.6	2955.2	3218.6	4209.2	5455.0	5841.9	16183.8	43829.0	45022.6	40475.9	31143.7
75°	2033.3	2011.3	2244.5	3169.3	5153.1	5789.7	9505.0	33895.9	35248.7	34985.3	26169.0
77.5°	1330.8	1366.5	1553.1	2239.1	4335.4	5745.8	6195.8	24047.9	24926.0	23397.6	15478.6
80°	938.4	935.7	1040.0	1528.4	3215.9	5520.8	5073.5	15157.5	14935.3	9195.0	4590.6
82.5°	537.8	576.2	697.0	1075.6	2151.3	4859.5	4667.4	7249.5	6618.4	2620.5	1550.3
85°	299.1	312.8	414.3	650.3	1256.7	3660.4	4074.8	3298.2	3111.6	1094.8	666.8
87.5°	96.0	104.3	172.9	329.3	570.7	1728.7	2307.7	1522.9	1404.9	395.1	268.9
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°	11442.2	11442.2	11442.2	11442.2	11442.2	11442.2	11442.2	11442.2	11442.2	11442.2	11442.2
2.5°	11458.7	11491.6	11403.8	11318.8	11241.9	11134.9	11038.9	10959.3	10904.4	10896.2	10868.8
5°	11497.1	11499.9	11332.5	11107.5	10888.0	10646.5	10396.8	10218.4	10051.1	9957.8	9911.1
7.5°	11524.6	11499.9	11198.0	10833.1	10410.5	9971.5	9532.5	9181.2	8909.6	8802.6	8843.7
10°	11513.6	11436.8	10995.0	10410.5	9795.9	9140.1	8509.0	8015.1	7562.3	7329.1	7334.6
12.5°	11453.2	11327.0	10693.1	9935.8	9033.1	8155.0	7189.1	6522.4	5998.3	5688.2	5592.2
15°	11401.1	11181.6	10339.2	9291.0	8168.7	6914.7	5737.6	4914.4	4475.4	4231.2	4228.4
17.5°	11346.2	11041.6	9952.3	8607.7	7175.4	5562.0	4327.2	3698.8	3493.0	3517.7	3476.6
20°	11288.6	10877.0	9548.9	7847.7	5965.3	4148.8	3240.6	2985.4	3043.0	3155.5	3172.0
22.5°	11222.7	10701.4	9115.4	7010.8	4692.1	3122.6	2628.7	2590.3	2738.5	2914.1	2938.8
25°	11121.2	10481.9	8569.3	6135.5	3619.3	2516.2	2302.2	2329.6	2475.0	2623.2	2639.7
27.5°	10978.5	10210.2	8017.8	5043.4	2719.2	2159.5	2104.6	2140.3	2211.6	2302.2	2324.1
30°	10786.4	9902.9	7383.9	4099.5	2178.7	1981.1	1959.2	1978.4	2019.5	2058.0	2068.9
32.5°	10594.4	9606.5	6744.6	3139.1	1942.7	1863.1	1841.2	1841.2	1841.2	1846.7	1849.4
35°	10416.0	9326.7	6058.6	2444.9	1819.2	1769.8	1739.7	1706.7	1701.2	1682.0	1682.0
37.5°	10317.2	9071.5	5328.7	2047.0	1728.7	1693.0	1651.9	1597.0	1566.8	1569.5	1564.0
40°	10336.4	8904.1	4664.7	1822.0	1654.6	1616.2	1553.1	1490.0	1470.8	1470.8	1465.3
42.5°	10553.2	8849.2	4028.1	1704.0	1583.3	1539.4	1459.8	1402.2	1391.2	1388.4	1393.9
45°	11052.6	8983.7	3457.4	1627.2	1522.9	1457.0	1377.5	1325.3	1314.3	1314.3	1311.6
47.5°	12026.7	9420.0	3048.5	1577.8	1479.0	1393.9	1311.6	1259.5	1240.3	1234.8	1234.8
50°	13541.4	10366.6	2743.9	1533.9	1424.1	1336.3	1251.2	1190.9	1160.7	1157.9	1155.2
52.5°	15646.0	11842.9	2626.0	1500.9	1363.7	1275.9	1182.6	1125.0	1086.6	1078.4	1072.9
55°	18107.3	13903.6	2787.8	1476.2	1300.6	1207.3	1111.3	1050.9	1015.3	998.8	996.1
57.5°	20958.2	16378.6	3402.5	1443.3	1243.0	1133.2	1040.0	979.6	941.2	922.0	916.5
60°	23518.3	18922.2	4475.4	1424.1	1193.6	1053.7	957.6	902.8	867.1	847.9	845.1
62.5°	26330.9	21347.9	5756.8	1476.2	1171.7	976.8	880.8	831.4	801.2	782.0	782.0
65°	29335.5	23776.3	6604.7	1651.9	1204.6	916.5	798.5	757.3	729.9	716.2	713.4
67.5°	31360.5	24615.9	5441.2	1833.0	1286.9	850.6	718.9	686.0	669.5	655.8	655.8
69°	31141.0	23554.0	4014.4	1879.6	1311.6	817.7	675.0	650.3	628.4	622.9	617.4
70°	30446.8	22343.9	3364.1	1849.4	1292.4	787.5	647.6	617.4	598.2	592.7	589.9
72.5°	27118.4	19377.7	2505.2	1608.0	1100.3	683.2	573.5	546.0	529.6	521.3	521.3
75°	22530.5	15838.0	1956.4	1278.7	861.6	576.2	491.2	469.2	455.5	450.0	447.3
77.5°	12627.6	8843.7	1404.9	1001.5	653.1	466.5	411.6	392.4	378.7	373.2	373.2
80°	3517.7	2527.2	825.9	661.3	444.5	354.0	326.5	312.8	293.6	279.9	288.1
82.5°	1325.3	1094.8	472.0	397.9	282.6	236.0	227.7	216.8	208.5	189.3	189.3
85°	644.8	532.3	301.8	211.3	156.4	123.5	118.0	112.5	107.0	93.3	96.0
87.5°	222.3	236.0	131.7	76.8	46.6	30.2	24.7	13.7	13.7	13.7	13.7
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)