

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: P458263

Luminaire Tested: **GALN-SA9C-830-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458263
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-SA9C-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 49575 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 481
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

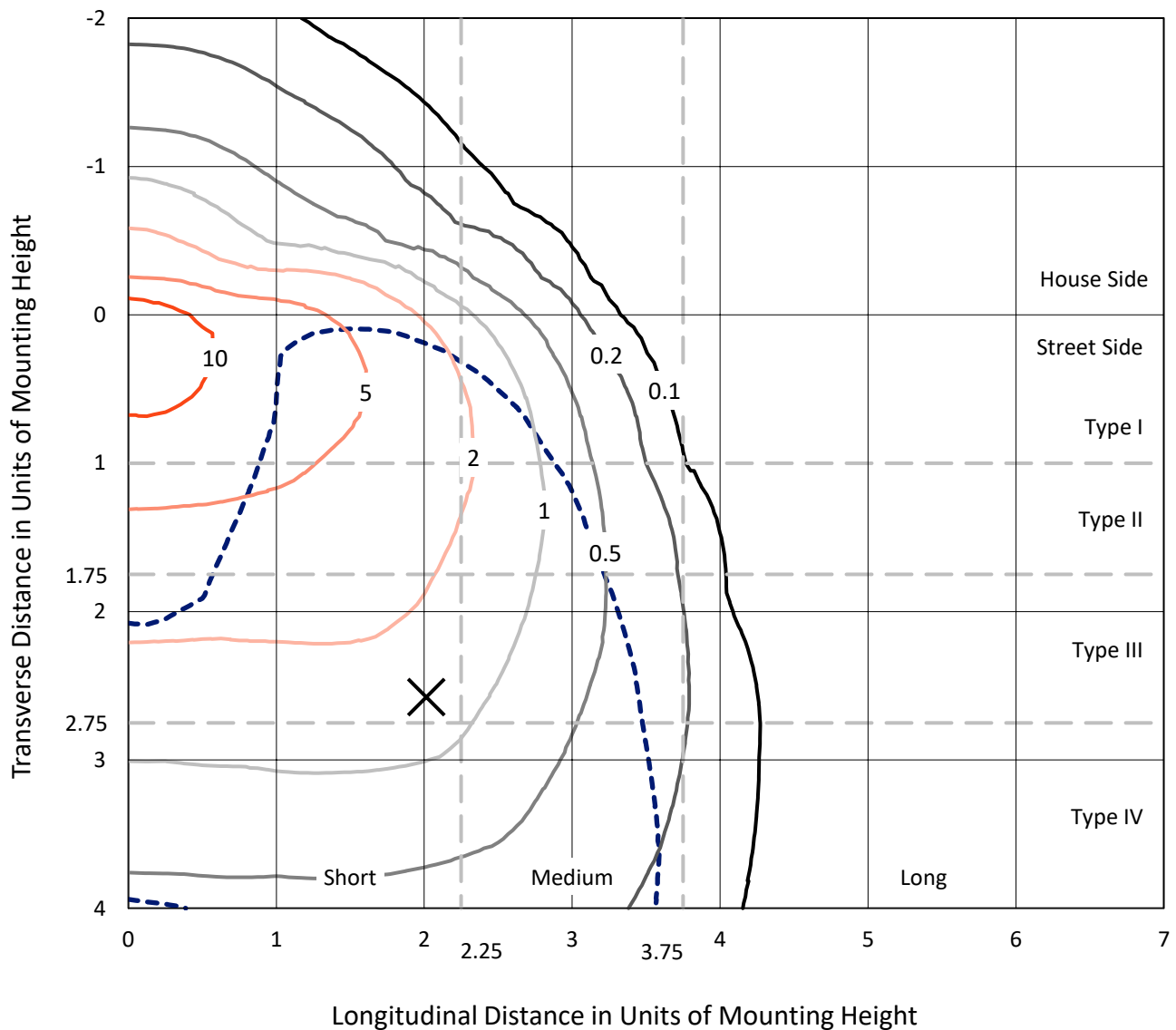


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

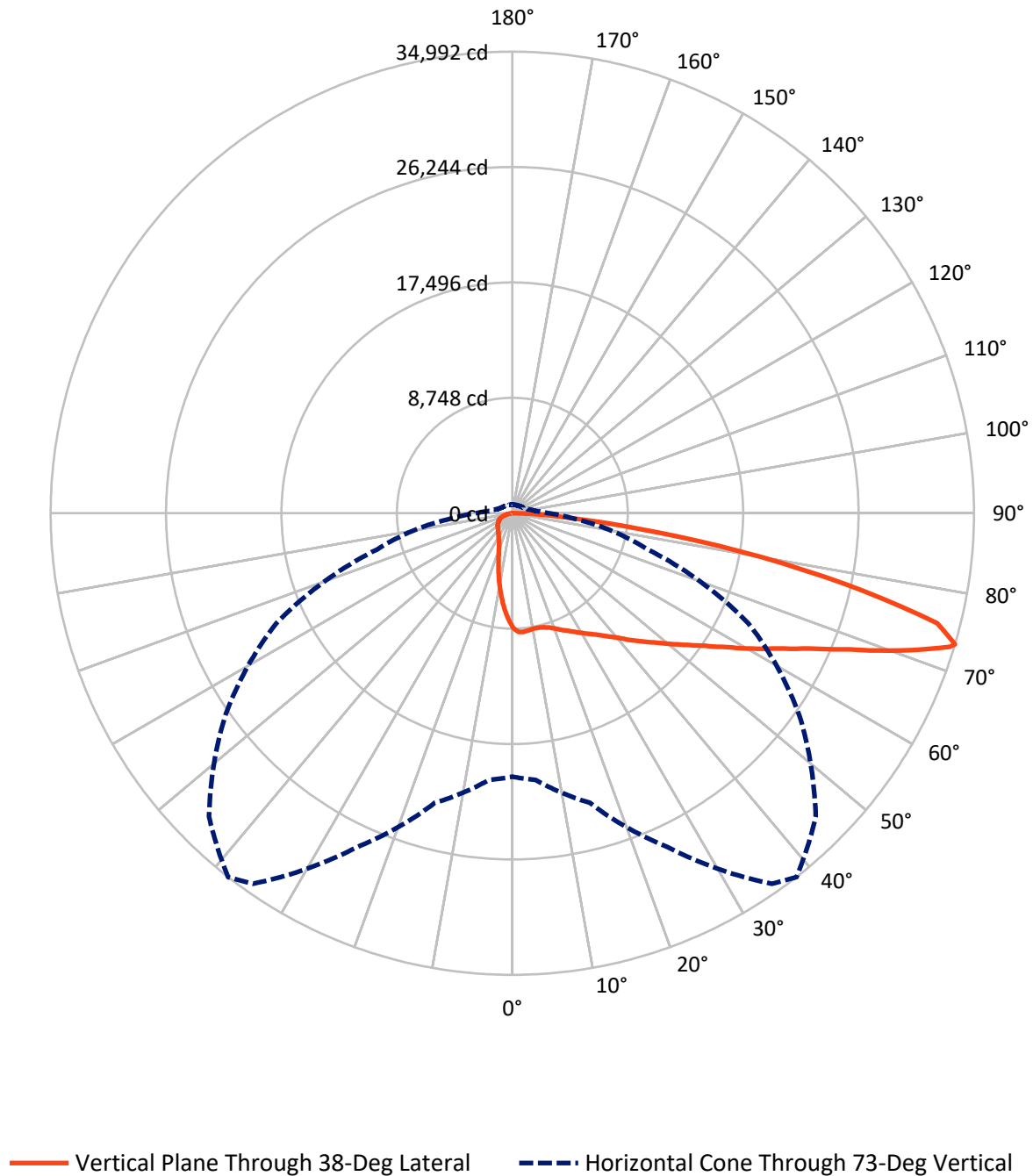


Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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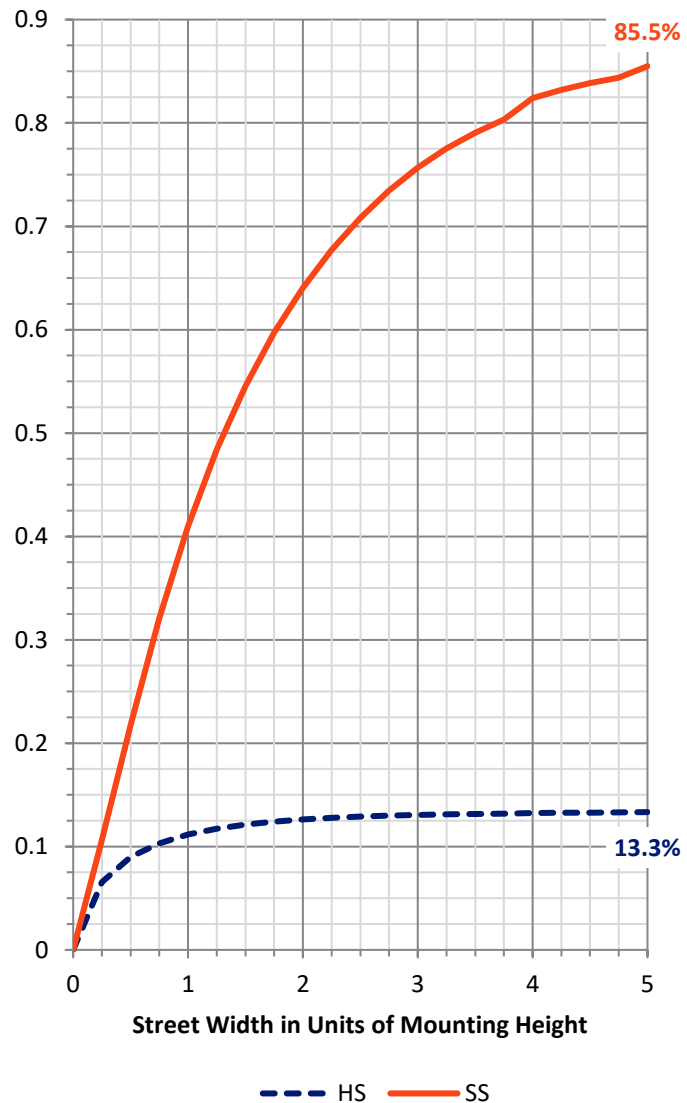
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6664.3	0.0	6664.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	42910.6	0.0	42910.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	49575.0	0.0	49575.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	760.2	1.5
10°-20°	1949.5	3.9
20°-30°	3035.8	6.1
30°-40°	4452.8	9.0
40°-50°	6605.2	13.3
50°-60°	9358.2	18.9
60°-70°	11871.2	23.9
70°-80°	9881.8	19.9
80°-90°	1660.3	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°	49575.0	100.0
0°-180°	49575.0	100.0

Coefficient of Utilization



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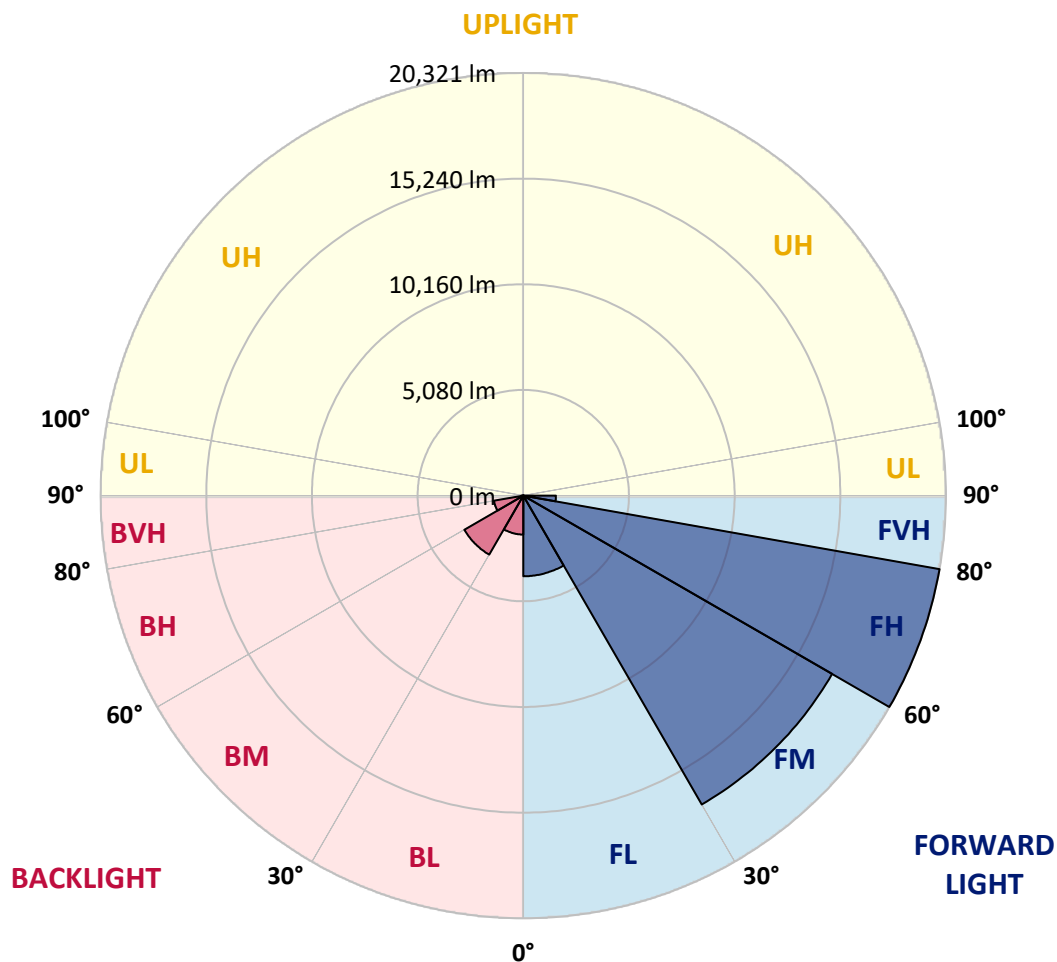
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3875.4	7.8			
FM	(30°-60°)	17144.4	34.6			
FH	(60°-80°)	20320.6	41.0			G5
FVH	(80°-90°)	1570.3	3.2			G5
BL	(0°-30°)	1870.1	3.8	B3/2500		
BM	(30°-60°)	3271.8	6.6	B3/5000		
BH	(60°-80°)	1432.4	2.9	B3/2500		G3/2500
BVH	(80°-90°)	90.0	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°	8709.5	8709.5	8709.5	8709.5	8709.5	8709.5	8709.5	8709.5	8709.5	8709.5	8709.5
2.5°	9059.4	9104.2	9081.8	9051.0	9031.4	9011.8	8983.8	8902.7	8838.3	8768.3	8659.1
5°	9126.6	9154.6	9135.0	9095.8	9051.0	9031.4	8978.2	8871.9	8768.3	8650.7	8488.3
7.5°	9087.4	9098.6	9076.2	9028.6	8989.4	8953.1	8891.5	8773.9	8647.9	8505.1	8292.4
10°	8947.5	8989.4	8989.4	8950.3	8911.1	8891.5	8829.9	8717.9	8603.1	8440.7	8188.8
12.5°	8832.7	8877.5	8913.9	8902.7	8899.9	8899.9	8852.3	8768.3	8633.9	8479.9	8180.4
15°	8754.3	8807.5	8885.9	8930.7	8958.6	8967.0	8947.5	8874.7	8737.5	8558.3	8214.0
17.5°	8737.5	8801.9	8944.7	9042.6	9115.4	9112.6	9107.0	9006.2	8855.1	8670.3	8256.0
20°	8813.1	8897.1	9095.8	9249.8	9356.2	9336.6	9305.8	9174.2	8997.8	8790.7	8295.1
22.5°	9039.8	9126.6	9345.0	9513.0	9616.6	9616.6	9524.2	9350.6	9163.0	8930.7	8348.3
25°	9364.6	9459.8	9692.1	9862.9	9910.5	9874.1	9781.7	9571.8	9356.2	9132.2	8460.3
27.5°	9762.1	9876.9	10092.5	10235.3	10221.3	10193.3	10098.1	9829.3	9613.8	9409.4	8650.7
30°	10257.7	10341.6	10565.6	10599.2	10548.8	10543.2	10408.8	10140.1	9938.5	9781.7	8922.3
32.5°	10725.2	10800.8	10979.9	10993.9	10904.4	10915.6	10789.6	10543.2	10428.4	10372.4	9378.6
35°	11220.7	11259.9	11413.9	11397.1	11338.3	11329.9	11279.5	11044.3	11080.7	11181.5	10025.3
37.5°	11635.0	11713.4	11800.2	11814.2	11811.4	11839.4	11873.0	11761.0	11971.0	12287.3	10873.6
40°	12015.8	12083.0	12211.8	12256.6	12365.7	12421.7	12536.5	12539.3	13023.6	13544.4	11917.8
42.5°	12273.4	12388.1	12628.9	12710.1	12976.0	13144.0	13314.8	13496.8	14199.5	14868.6	13149.6
45°	12497.3	12648.5	13048.8	13300.8	13661.9	13866.3	14227.5	14608.2	15618.8	16495.1	14401.0
47.5°	12836.1	12970.4	13429.6	13874.7	14420.6	14655.8	15196.1	15764.4	17085.8	18046.1	15599.2
50°	13306.4	13387.6	13855.1	14580.2	15277.3	15579.7	16293.5	17113.8	18653.6	19577.4	16651.9
52.5°	13908.3	13941.9	14314.2	15280.1	16198.4	16573.5	17519.8	18477.2	20025.4	20907.2	17486.2
55°	14619.4	14563.4	14854.6	16022.0	17251.0	17740.9	18757.2	19857.4	21567.9	21982.3	18093.7
57.5°	15322.1	15235.3	15467.7	16923.4	18550.0	19140.7	20324.9	21279.6	22945.3	22987.3	18519.2
60°	16066.8	16002.4	16279.5	17981.7	20143.0	20842.9	21937.5	22755.0	24277.9	23687.2	18586.4
62.5°	16831.1	16727.5	17122.2	19171.5	21937.5	22573.0	23634.0	24322.7	25585.3	23947.6	17939.7
65°	17573.0	17525.4	18135.7	20585.3	23981.2	24703.5	25733.7	26201.3	26632.4	23555.6	16335.5
67.5°	18362.4	18457.6	19431.9	22472.2	26646.4	27553.4	28664.9	28225.3	26931.9	21699.5	13757.1
70°	19566.3	19627.8	21134.0	24944.2	30081.5	31176.1	31713.6	28944.8	25487.4	18174.9	10341.6
72.5°	20084.2	20355.7	22654.2	27539.4	33984.1	34653.2	32738.3	27340.7	21232.0	12346.1	5434.0
73°	19969.4	20294.1	22724.2	27934.2	34289.2	34991.9	32519.9	26514.8	19737.0	10632.8	4658.5
75°	18538.8	18939.1	21814.3	27603.8	33695.7	33275.8	29009.2	22598.2	13337.2	4834.9	2122.1
77.5°	14627.8	14742.6	17284.6	22290.2	26534.4	25756.1	21710.7	14123.9	5448.0	1797.3	1203.8
80°	7337.7	7760.4	9742.5	12768.9	17743.7	17489.0	13703.9	6679.8	2270.5	1055.4	797.9
82.5°	3530.3	3829.8	4745.3	6226.3	9804.1	9571.8	6786.2	3650.6	1441.8	615.9	470.3
85°	2273.3	2497.2	3020.7	2970.4	4031.4	3849.4	3048.7	2763.2	853.9	322.0	327.6
87.5°	1500.6	1643.4	1970.9	1576.2	1467.0	1327.0	1346.6	1556.6	168.0	123.2	44.8
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°	8709.5	8709.5	8709.5	8709.5	8709.5	8709.5	8709.5	8709.5	8709.5	8709.5	8709.5
2.5°	8614.3	8577.9	8457.5	8339.9	8228.0	8121.6	8051.6	7959.2	7897.6	7914.4	7939.6
5°	8398.7	8317.5	8104.8	7897.6	7701.6	7469.3	7281.7	7130.5	7015.7	6973.7	6965.4
7.5°	8172.0	8034.8	7729.6	7374.1	7040.9	6752.6	6419.4	6254.3	6061.1	5993.9	5971.5
10°	8034.8	7850.0	7421.7	6926.2	6425.0	5946.3	5585.2	5291.2	5025.2	4974.9	4949.7
12.5°	7995.6	7752.0	7175.3	6537.0	5870.7	5282.8	4748.1	4361.7	4104.2	4045.4	3958.6
15°	7973.2	7670.8	6945.8	6145.1	5299.6	4582.9	4020.2	3569.5	3334.3	3177.5	3180.3
17.5°	7953.6	7578.5	6688.2	5716.7	4806.9	3981.0	3359.5	2953.6	2738.0	2654.0	2645.6
20°	7925.6	7469.3	6391.4	5266.0	4244.2	3432.3	2869.6	2567.2	2421.6	2351.6	2348.8
22.5°	7914.4	7362.9	6100.3	4806.9	3745.8	3009.5	2544.8	2332.0	2239.7	2192.1	2192.1
25°	7942.4	7287.3	5795.1	4370.1	3303.5	2648.4	2320.9	2175.3	2122.1	2096.9	2088.5
27.5°	8029.2	7253.7	5492.8	3933.4	2897.6	2402.0	2169.7	2068.9	2029.7	2010.1	2012.9
30°	8194.4	7250.9	5196.0	3502.3	2595.2	2214.5	2049.3	1979.3	1948.5	1937.3	1934.5
32.5°	8460.3	7312.5	4904.9	3146.7	2340.4	2057.7	1937.3	1886.9	1872.9	1864.5	1861.7
35°	8911.1	7486.1	4616.5	2822.0	2144.5	1917.7	1830.9	1805.7	1786.1	1794.5	1797.3
37.5°	9518.6	7785.6	4342.1	2567.2	1996.1	1814.1	1741.3	1718.9	1707.7	1716.1	1724.5
40°	10333.2	8216.8	4112.6	2362.8	1889.7	1727.3	1662.9	1643.4	1632.2	1646.2	1649.0
42.5°	11231.9	8715.1	3922.2	2203.3	1802.9	1654.6	1593.0	1570.6	1562.2	1570.6	1573.4
45°	12155.8	9294.6	3824.2	2088.5	1730.1	1601.4	1537.0	1511.8	1492.2	1486.6	1495.0
47.5°	13065.6	9798.5	3821.4	2018.5	1671.3	1553.8	1483.8	1455.8	1430.6	1416.6	1413.8
50°	13807.5	10198.9	3888.6	1987.7	1621.0	1500.6	1430.6	1402.6	1369.0	1341.0	1346.6
52.5°	14367.4	10459.2	3919.4	1973.7	1593.0	1444.6	1374.6	1349.4	1310.2	1273.8	1273.8
55°	14728.6	10520.8	3843.8	1959.7	1570.6	1385.8	1310.2	1287.8	1248.6	1212.2	1212.2
57.5°	14851.8	10330.4	3572.3	1926.1	1548.2	1335.4	1245.8	1226.2	1195.4	1159.0	1153.4
60°	14566.2	9686.5	3096.3	1825.3	1503.4	1282.2	1175.8	1167.4	1156.2	1125.4	1122.6
62.5°	13466.0	8320.3	2578.4	1693.7	1427.8	1226.2	1111.4	1125.4	1133.8	1117.0	1114.2
65°	11635.0	6755.4	2203.3	1511.8	1327.0	1147.8	1041.4	1077.8	1100.2	1100.2	1094.6
67.5°	9437.4	5187.6	1856.1	1355.0	1201.0	1041.4	963.1	991.1	1007.8	1002.2	1016.2
70°	6707.8	3513.5	1511.8	1175.8	1041.4	921.1	862.3	862.3	851.1	845.5	845.5
72.5°	3253.1	2007.3	1226.2	982.7	887.5	786.7	739.1	719.5	697.1	694.3	680.3
73°	2718.4	1800.1	1170.2	946.3	851.1	767.1	713.9	683.1	669.1	657.9	655.1
75°	1654.6	1366.2	977.1	797.9	725.1	660.7	613.1	585.1	571.1	562.7	559.9
77.5°	1089.0	1019.0	758.7	610.3	554.3	515.1	495.5	467.5	459.1	447.9	447.9
80°	811.9	778.3	543.1	431.1	397.5	363.9	358.3	352.7	330.4	316.4	310.8
82.5°	523.5	554.3	369.5	288.4	252.0	224.0	226.8	235.2	212.8	193.2	187.6
85°	372.3	400.3	224.0	131.6	106.4	92.4	103.6	92.4	95.2	75.6	61.6
87.5°	61.6	106.4	39.2	16.8	8.4	5.6	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)