

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: P522900

Luminaire Tested: **GALN-SA8D-830-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522900
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8D-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49676 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 493
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

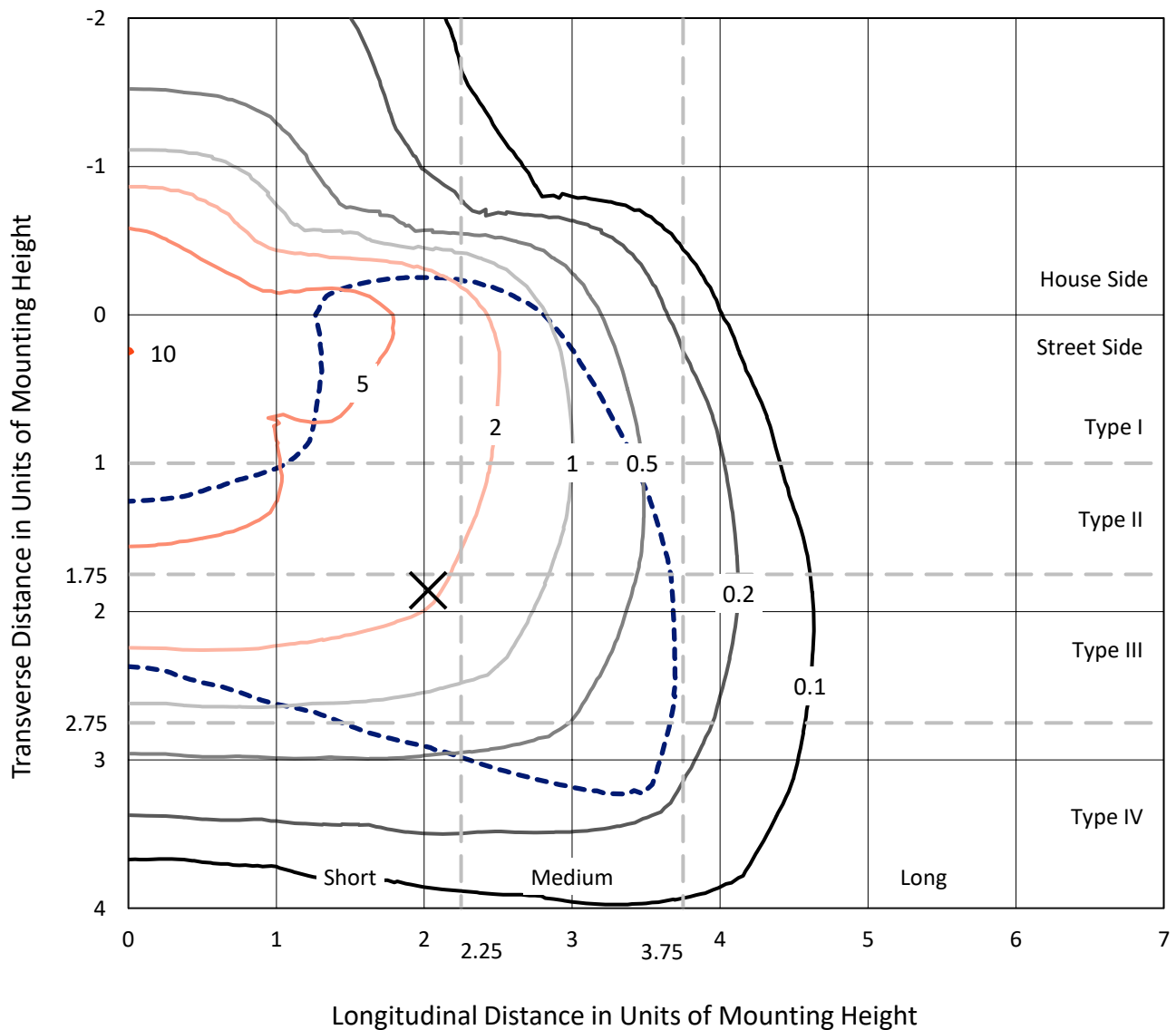


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

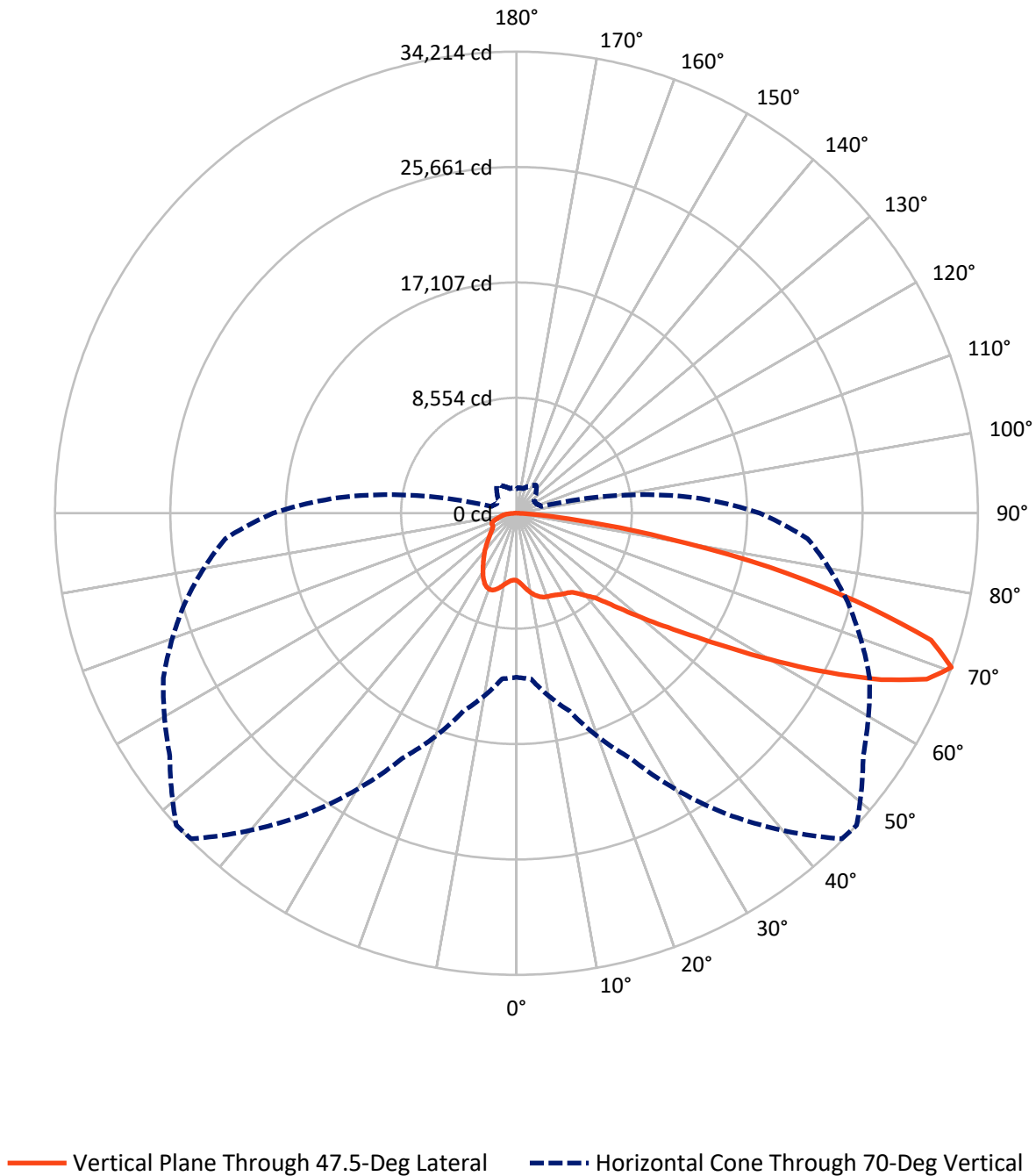


Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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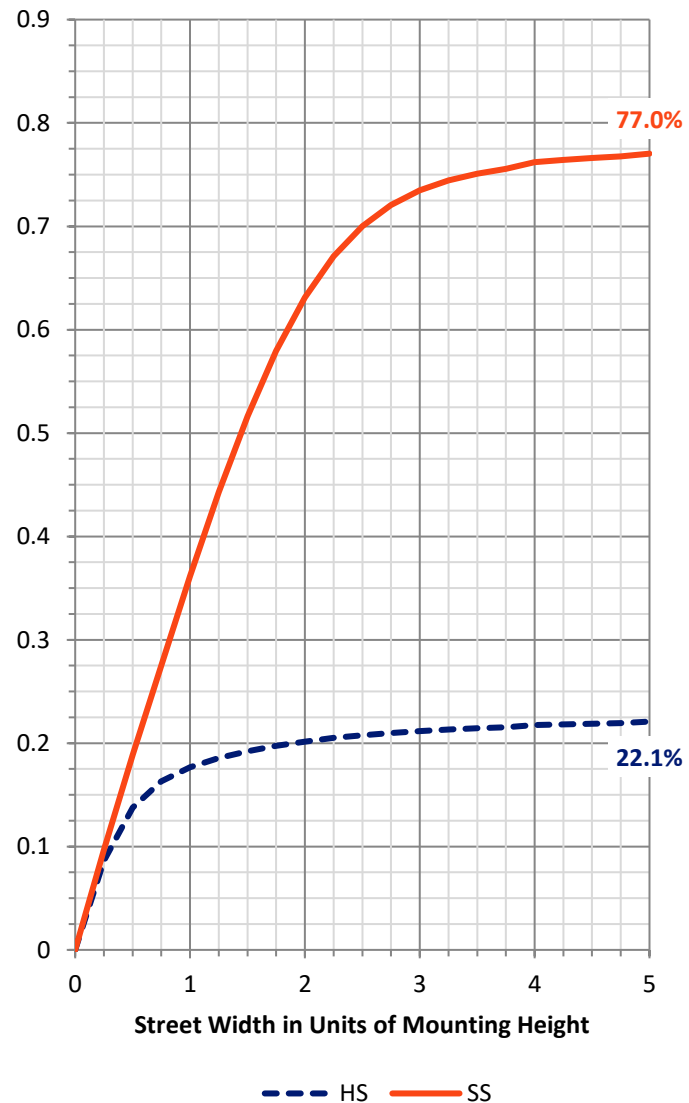
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11247.6	0.0	11247.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	38428.4	0.0	38428.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	49676.0	0.0	49676.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	514.0	1.0
10°-20°	1718.5	3.5
20°-30°	2857.8	5.8
30°-40°	4050.5	8.2
40°-50°	5979.4	12.0
50°-60°	10356.7	20.8
60°-70°	14629.1	29.4
70°-80°	8409.6	16.9
80°-90°	1160.3	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°	49676.0	100.0
0°-180°	49676.0	100.0

Coefficient of Utilization



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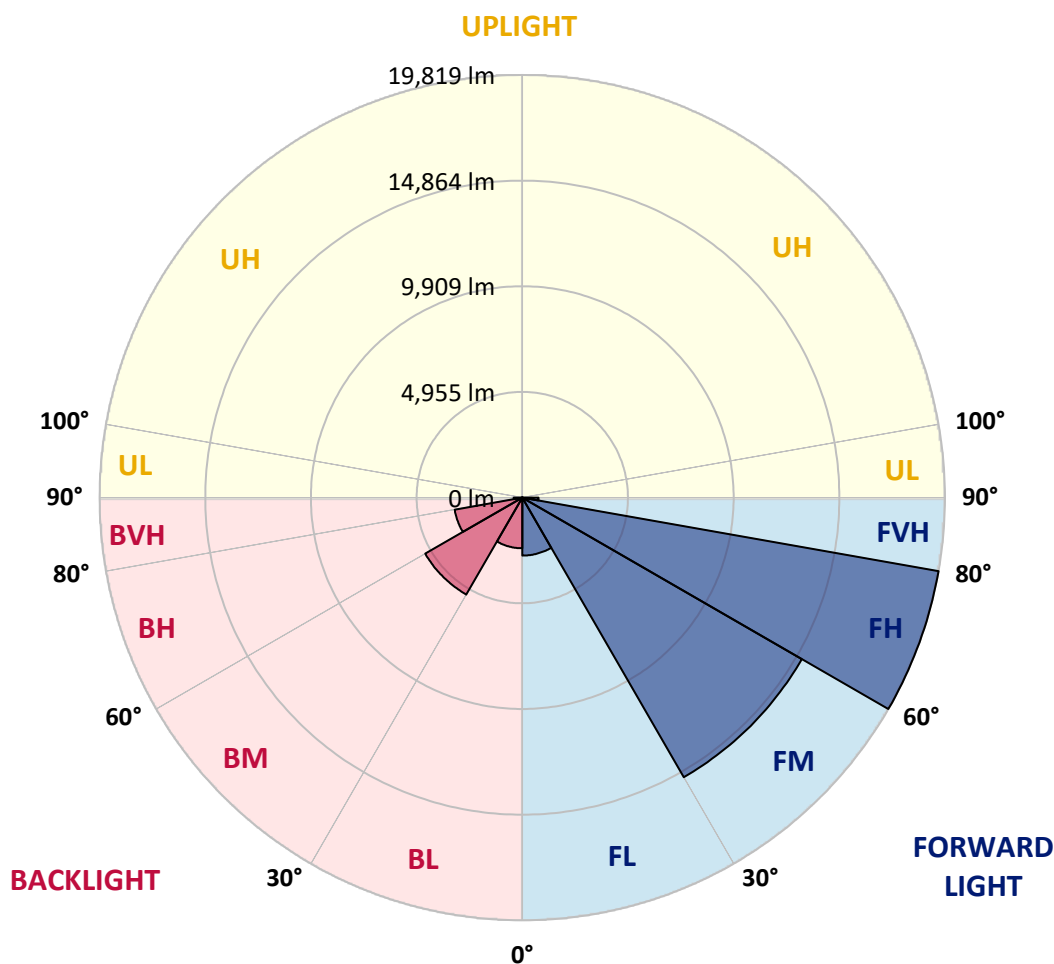
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2716.5	5.5			
FM	(30°-60°)	15135.3	30.5			
FH	(60°-80°)	19818.7	39.9			G5
FVH	(80°-90°)	758.0	1.5			G5
BL	(0°-30°)	2373.9	4.8	B3/2500		
BM	(30°-60°)	5251.3	10.6	B4/8500		
BH	(60°-80°)	3220.0	6.5	B4/5000		G4/5000
BVH	(80°-90°)	402.4	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	4986.9	4986.9	4986.9	4986.9	4986.9	4986.9	4986.9	4986.9	4986.9	4986.9	4986.9
2.5°	5308.5	5289.9	5287.3	5247.4	5226.1	5186.2	5170.3	5133.1	5087.9	5042.7	5000.2
5°	5725.9	5725.9	5707.3	5651.4	5563.7	5473.3	5433.5	5361.7	5234.1	5130.4	5042.7
7.5°	6153.8	6159.2	6121.9	6039.5	5914.6	5768.4	5731.2	5624.9	5444.1	5292.6	5162.3
10°	6523.3	6523.3	6472.8	6361.2	6204.4	6044.9	6007.6	5888.0	5686.0	5497.3	5327.1
12.5°	6805.1	6805.1	6738.7	6592.5	6422.3	6278.8	6236.2	6121.9	5933.2	5723.2	5507.9
15°	6988.5	6975.2	6900.8	6736.0	6571.2	6446.3	6417.0	6321.3	6148.5	5935.9	5694.0
17.5°	6996.5	6991.2	6919.4	6781.2	6637.6	6552.6	6534.0	6470.2	6334.6	6132.6	5877.4
20°	6842.3	6853.0	6805.1	6706.8	6637.6	6600.4	6592.5	6571.2	6475.5	6286.8	6031.6
22.5°	6677.5	6696.1	6650.9	6597.8	6592.5	6629.7	6635.0	6640.3	6579.2	6395.7	6161.8
25°	6637.6	6650.9	6605.7	6557.9	6587.1	6685.5	6706.8	6728.0	6680.2	6526.0	6316.0
27.5°	6839.7	6829.0	6741.3	6637.6	6656.3	6789.2	6818.4	6842.3	6818.4	6685.5	6507.4
30°	7411.2	7376.6	7201.2	6898.2	6802.5	6895.5	6924.7	6991.2	6991.2	6892.8	6714.7
32.5°	8368.2	8301.7	7980.1	7384.6	7052.3	6996.5	7025.7	7134.7	7190.6	7113.5	6919.4
35°	9529.8	9460.7	9000.8	8200.7	7509.5	7198.5	7190.6	7312.8	7461.7	7288.9	7036.4
37.5°	10696.8	10625.0	10072.1	9173.6	8176.8	7623.9	7576.0	7618.5	7682.3	7366.0	7198.5
40°	11863.8	11778.7	11294.9	10260.8	8992.9	8187.4	8062.5	7871.1	7844.5	7618.5	7512.2
42.5°	13020.1	12943.0	12698.4	11481.0	9971.1	8737.7	8546.3	8216.6	8317.7	8182.1	8089.0
45°	14187.1	14192.4	13931.9	12850.0	11151.3	9753.1	9495.3	8979.6	9218.8	9168.3	9221.5
47.5°	15221.1	15207.8	15114.8	14179.1	12616.0	11061.0	10728.7	10130.6	10540.0	10726.0	11132.7
50°	16223.3	16215.3	16220.6	15686.3	14317.3	12616.0	12249.2	11621.9	12544.3	13190.2	13918.6
52.5°	17658.7	17703.9	17382.3	17241.4	16385.4	14452.9	14048.8	13400.2	14912.8	15930.9	17353.0
55°	19099.5	19062.3	18809.8	18956.0	18549.3	16627.3	16204.7	15689.0	17549.8	18663.6	20800.8
57.5°	19947.5	19960.8	20218.6	20933.7	21220.8	19338.8	18956.0	18557.2	20513.7	21303.2	23868.4
60°	20710.4	20771.5	21513.2	22863.6	23642.5	22669.5	22329.3	21941.2	23233.1	23546.8	26532.0
62.5°	20949.7	21138.4	22433.0	24453.2	26003.0	26428.3	26005.6	25149.7	25822.2	25699.9	28336.9
65°	19756.1	20013.9	22334.6	25048.7	28111.0	29995.7	29727.2	28137.6	28028.6	27292.2	28632.0
67.5°	16614.0	16871.9	19851.8	23799.3	28982.9	33084.6	32816.1	30317.3	29368.3	27441.1	26399.1
70°	12156.2	12318.3	15168.0	20037.9	27231.1	34121.3	34214.3	31380.6	28889.8	25418.2	21675.4
72.5°	7004.5	7363.3	9359.7	14096.7	22246.9	31500.2	32146.2	29169.0	25864.8	21204.8	15154.7
75°	3011.8	3019.8	4327.6	7775.4	15066.9	25319.8	25944.5	24179.4	20311.7	14662.9	8091.7
77.5°	1432.8	1459.4	1903.3	3471.7	8293.7	17493.9	19179.3	17081.9	12990.9	7044.4	3057.0
80°	930.4	949.0	1164.3	1722.5	4067.1	10143.9	11318.8	9854.1	5731.2	2517.4	1318.5
82.5°	563.5	568.9	778.9	1052.7	2238.2	4593.5	5414.9	4277.1	2445.6	1507.2	776.2
85°	342.9	345.6	473.2	651.3	1358.4	1587.0	1629.5	1616.2	1435.5	986.2	414.7
87.5°	164.8	170.1	244.6	308.4	534.3	491.8	465.2	539.6	677.9	531.6	178.1
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°	4986.9	4986.9	4986.9	4986.9	4986.9	4986.9	4986.9	4986.9	4986.9	4986.9	4986.9
2.5°	4981.6	4973.6	4955.0	4947.0	4941.7	4944.3	4941.7	4941.7	4944.3	4944.3	4944.3
5°	5005.5	4992.2	4962.9	4962.9	4978.9	5016.1	5050.7	5077.3	5106.5	5103.8	5103.8
7.5°	5109.2	5085.2	5050.7	5061.3	5101.2	5159.7	5220.8	5279.3	5337.8	5343.1	5340.4
10°	5260.7	5236.7	5199.5	5212.8	5276.6	5364.3	5441.4	5526.5	5590.3	5608.9	5603.6
12.5°	5433.5	5385.6	5353.7	5390.9	5491.9	5608.9	5683.3	5747.1	5792.3	5818.9	5808.3
15°	5608.9	5563.7	5526.5	5603.6	5725.9	5834.9	5872.1	5882.7	5890.7	5917.3	5911.9
17.5°	5779.0	5717.9	5704.6	5805.6	5922.6	5970.4	5949.2	5904.0	5869.4	5890.7	5888.0
20°	5930.6	5882.7	5877.4	5978.4	6023.6	5978.4	5888.0	5808.3	5747.1	5752.4	5749.8
22.5°	6074.1	6036.9	6042.2	6084.7	6013.0	5858.8	5709.9	5600.9	5534.5	5547.8	5555.7
25°	6233.6	6196.4	6209.7	6140.6	5904.0	5635.5	5420.2	5327.1	5300.5	5327.1	5345.7
27.5°	6440.9	6417.0	6409.0	6143.2	5709.9	5305.9	5061.3	5026.7	5050.7	5109.2	5138.4
30°	6664.2	6664.2	6621.7	6098.0	5444.1	4909.8	4697.1	4702.4	4784.8	4867.3	4896.5
32.5°	6879.5	6924.7	6791.8	5975.7	5101.2	4524.3	4362.2	4367.5	4439.3	4540.3	4566.9
35°	7057.6	7187.9	6938.0	5752.4	4697.1	4200.0	4077.8	4006.0	4008.6	4085.7	4107.0
37.5°	7302.2	7544.1	7023.1	5420.2	4266.5	3923.6	3785.3	3660.4	3578.0	3546.1	3546.1
40°	7727.5	8083.7	7044.4	4928.4	3859.8	3660.4	3463.7	3314.8	3155.3	3011.8	2985.2
42.5°	8447.9	8897.2	7001.8	4362.2	3492.9	3370.7	3179.3	2995.8	2775.2	2573.2	2557.2
45°	9723.9	9955.1	6887.5	3774.7	3166.0	3091.5	2905.5	2706.1	2472.2	2291.4	2278.1
47.5°	11768.1	11441.1	6736.0	3253.7	2868.2	2847.0	2703.4	2472.2	2238.2	2113.3	2100.0
50°	14753.3	13780.4	6714.7	2876.2	2629.0	2639.6	2522.7	2310.0	2105.3	2001.7	1985.7
52.5°	18347.2	16606.1	6855.6	2610.4	2419.0	2458.9	2400.4	2203.7	2022.9	1935.2	1919.3
55°	21834.8	19147.4	6940.7	2403.1	2222.3	2296.7	2304.7	2139.9	1975.1	1887.4	1876.7
57.5°	24665.9	21061.3	6563.2	2214.3	2052.2	2166.5	2225.0	2102.7	1951.2	1884.7	1874.1
60°	26635.6	21965.1	5489.3	2046.9	1927.2	2062.8	2195.7	2105.3	2009.6	2017.6	2022.9
62.5°	27263.0	21563.7	4117.6	1921.9	1842.2	2028.2	2243.6	2214.3	2116.0	2177.1	2187.7
65°	26223.6	19905.0	2985.2	1823.6	1767.7	2052.2	2387.1	2294.1	2078.7	2123.9	2123.9
67.5°	22744.0	17148.4	2323.3	1733.2	1682.7	2097.4	2530.7	2286.1	1991.0	2044.2	1996.3
70°	18041.5	13264.7	1935.2	1632.2	1592.3	2030.9	2543.9	2203.7	1887.4	1898.0	1807.6
72.5°	11972.7	8721.7	1664.1	1536.5	1454.1	1826.2	2435.0	2097.4	1786.3	1725.2	1634.8
75°	5866.8	4348.9	1451.4	1416.8	1273.3	1589.6	2286.1	1996.3	1677.4	1581.7	1531.2
77.5°	2272.8	1850.1	1238.7	1265.3	1108.5	1400.9	2089.4	1852.8	1533.8	1403.6	1363.7
80°	1103.2	1050.0	1015.5	1055.3	911.8	1193.6	1908.6	1727.9	1400.9	1257.4	1198.9
82.5°	685.8	648.6	778.9	821.4	701.8	1089.9	1810.3	1621.5	1233.4	1042.0	994.2
85°	348.2	372.2	521.0	560.9	502.4	866.6	1491.3	1217.5	890.5	739.0	744.3
87.5°	132.9	178.1	273.8	295.1	268.5	457.2	821.4	709.8	571.5	388.1	358.9
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)