

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: P454562

Luminaire Tested: **GALN-SA5C-830-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454562
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
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-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27744 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

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

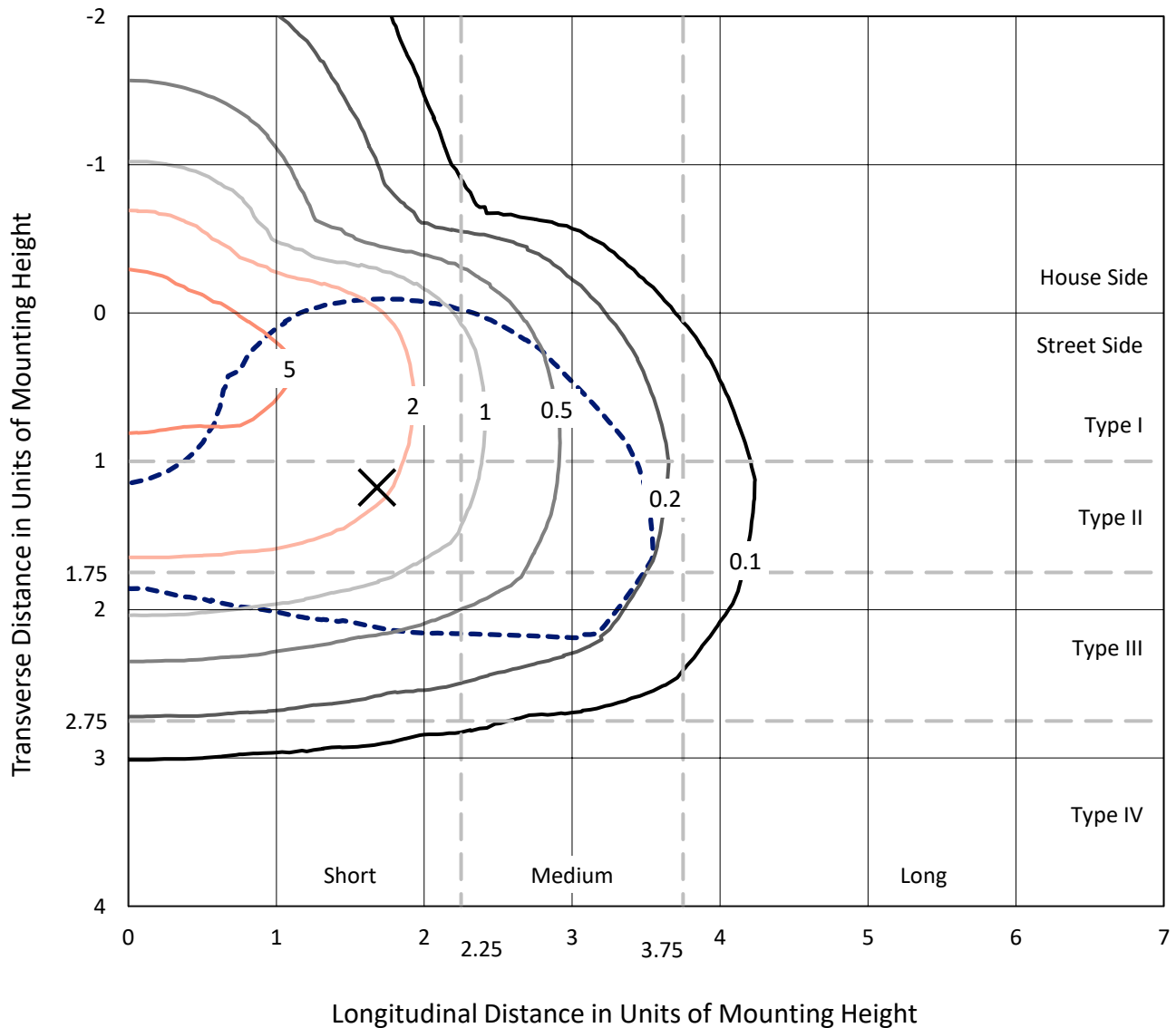


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

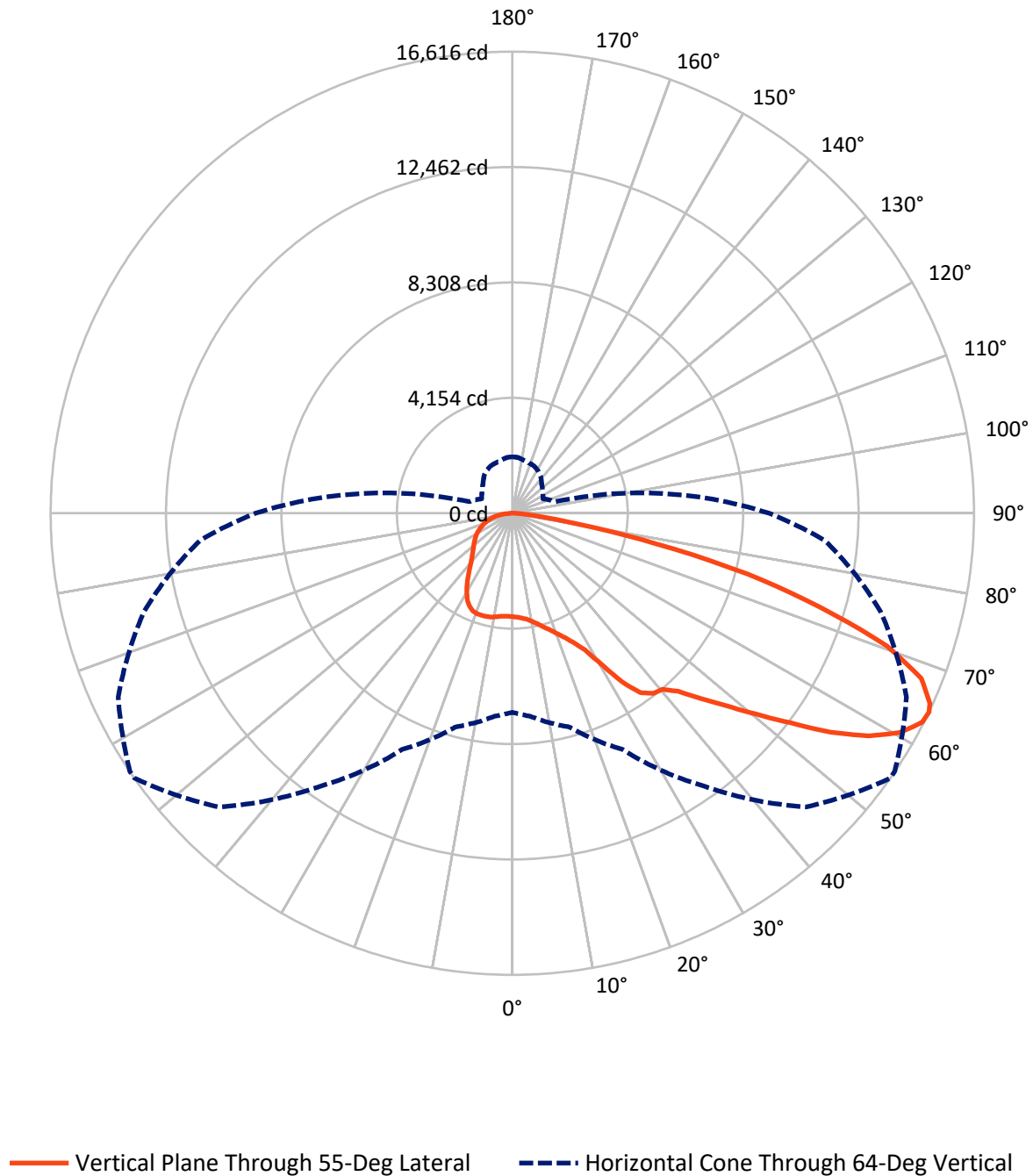


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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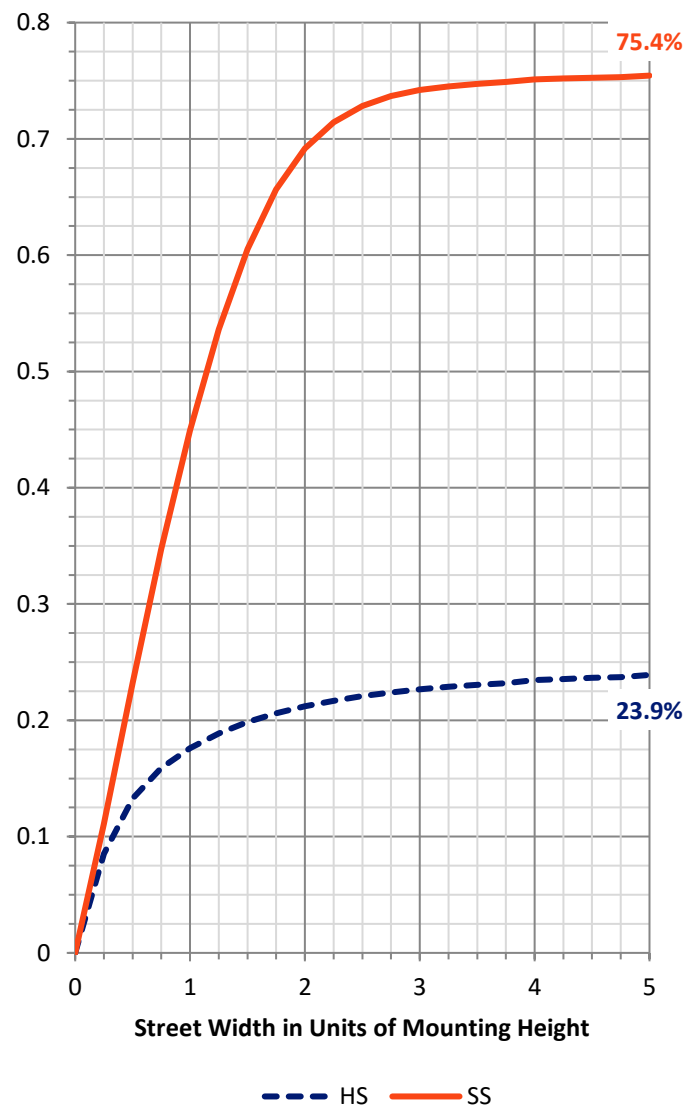
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6739.6	0.0	6739.6
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	21004.4	0.0	21004.4
	% Fixture	75.7	0.0	75.7
Total	Lumens	27744.0	0.0	27744.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.1	1.3
10°-20°	1142.5	4.1
20°-30°	2034.0	7.3
30°-40°	3129.5	11.3
40°-50°	4436.3	16.0
50°-60°	6421.4	23.1
60°-70°	6645.5	24.0
70°-80°	3112.1	11.2
80°-90°	460.7	1.7
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°	27744.0	100.0
0°-180°	27744.0	100.0

Coefficient of Utilization



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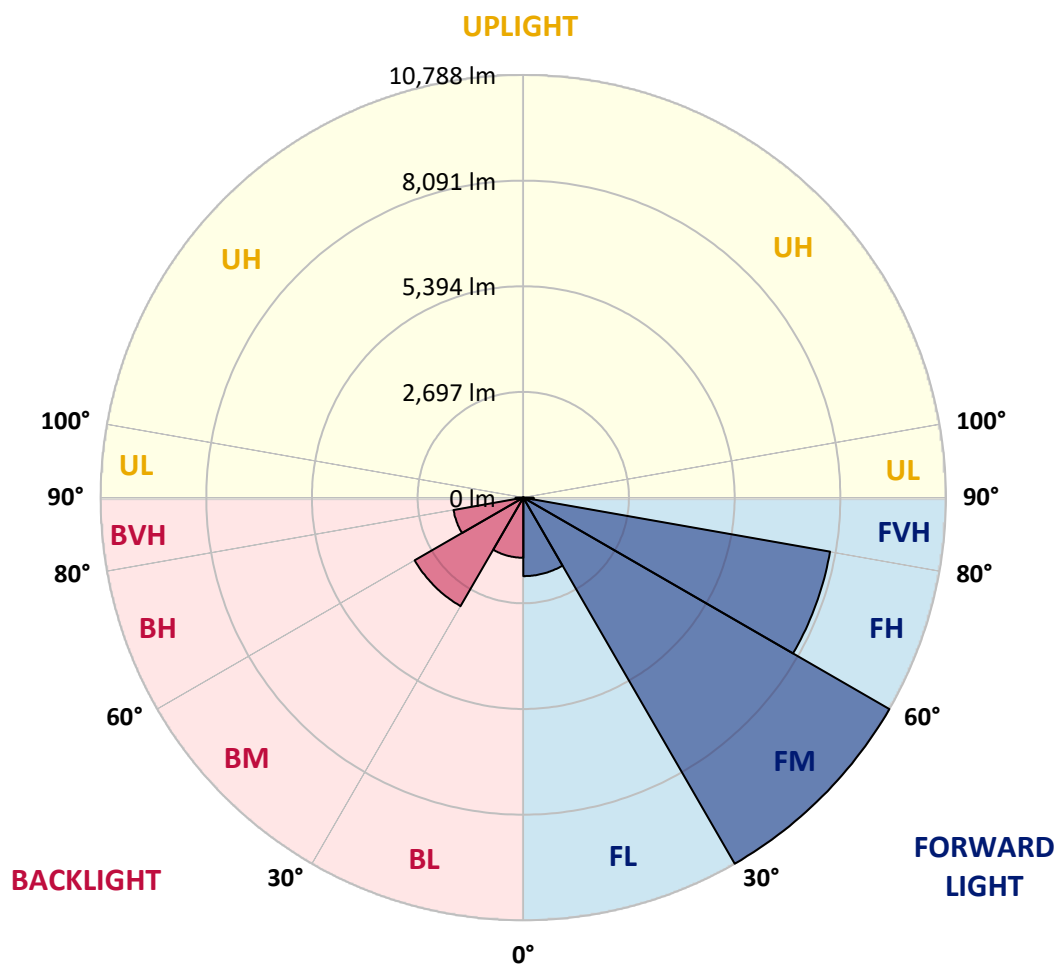
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2003.6	7.2			
FM	(30°-60°)	10787.6	38.9			
FH	(60°-80°)	7949.5	28.7			G4/12000
FVH	(80°-90°)	263.8	1.0			G3/500
BL	(0°-30°)	1535.0	5.5	B3/2500		
BM	(30°-60°)	3199.5	11.5	B3/5000		
BH	(60°-80°)	1808.1	6.5	B3/2500		G3/2500
BVH	(80°-90°)	196.9	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3722.4	3722.4	3722.4	3722.4	3722.4	3722.4	3722.4	3722.4	3722.4	3722.4	3722.4
2.5°	3764.2	3762.6	3767.3	3762.6	3765.7	3754.9	3750.2	3753.3	3748.7	3741.0	3727.0
5°	3810.6	3809.0	3810.6	3804.4	3807.5	3801.3	3790.5	3793.5	3785.8	3768.8	3748.7
7.5°	3889.4	3883.2	3883.2	3881.7	3875.5	3866.2	3858.5	3855.4	3847.7	3826.0	3795.1
10°	3991.5	3991.5	3993.0	3980.7	3988.4	3971.4	3963.7	3962.1	3935.8	3908.0	3864.7
12.5°	4126.0	4133.8	4129.1	4122.9	4119.9	4113.7	4087.4	4093.6	4064.2	4016.2	3963.7
15°	4293.1	4305.4	4297.7	4294.6	4286.9	4263.7	4252.9	4248.2	4209.6	4140.0	4070.4
17.5°	4514.2	4498.7	4492.6	4484.8	4452.4	4435.3	4416.8	4413.7	4379.7	4297.7	4189.4
20°	4707.5	4729.2	4716.8	4709.1	4676.6	4644.1	4630.2	4625.6	4596.2	4506.5	4333.3
22.5°	4938.0	4942.6	4947.2	4928.7	4913.2	4888.5	4863.7	4856.0	4845.2	4752.4	4540.5
25°	5183.8	5202.4	5186.9	5168.4	5149.8	5148.3	5171.5	5168.4	5163.7	5074.0	4815.8
27.5°	5584.4	5601.4	5606.0	5585.9	5514.8	5521.0	5573.6	5590.6	5661.7	5513.2	5169.9
30°	5810.2	5827.2	5865.8	5941.6	6054.5	6153.5	6280.3	6319.0	6387.0	6107.1	5590.6
32.5°	5949.4	5955.5	6025.1	6165.9	6504.5	6874.2	7219.0	7232.9	7276.2	6883.4	5975.6
35°	6169.0	6173.6	6229.3	6383.9	6781.4	7396.9	7930.4	7947.4	7911.9	7124.7	6155.0
37.5°	6439.6	6452.0	6487.5	6615.9	7090.7	7834.5	8225.8	8213.4	7897.9	7316.5	6472.1
40°	6834.0	6834.0	6792.2	6965.4	7417.0	8085.1	8329.4	8307.8	8224.2	7871.6	6954.6
42.5°	7181.9	7175.7	7274.7	7392.2	7825.3	8471.7	8764.0	8799.5	8937.2	8569.1	7503.6
45°	7635.0	7662.9	7718.5	7932.0	8519.6	9132.0	9509.4	9543.4	9738.3	9390.3	8145.4
47.5°	8092.8	8102.1	8276.8	8561.4	9379.5	10027.5	10336.8	10392.4	10570.3	10350.7	8836.7
50°	8417.6	8505.7	8785.6	9234.1	10265.6	11119.3	11360.5	11427.0	11741.0	11396.1	9642.4
52.5°	8760.9	8847.5	9189.3	9872.8	11283.2	12235.8	12532.8	12577.6	12903.9	12453.9	10466.7
55°	9054.7	9135.1	9523.3	10438.8	12093.6	13375.6	13913.8	13861.2	14017.4	13268.9	11102.3
57.5°	9102.7	9167.6	9656.3	10800.7	12702.9	14353.0	15124.7	15155.6	14974.7	13878.2	11626.5
60°	8731.5	8864.5	9425.9	10762.0	12976.6	15033.5	16027.8	16049.5	15536.1	14190.6	11835.3
62.5°	8074.2	8060.3	8739.2	10140.4	12593.1	15188.1	16559.8	16536.6	15755.7	14040.6	11632.7
64°	7166.4	7333.5	7967.5	9376.4	11974.5	14949.9	16615.5	16603.1	15650.5	13728.2	11287.8
65°	6612.8	6603.5	7229.9	8751.6	11359.0	14591.2	16516.5	16499.5	15430.9	13448.3	11020.3
67.5°	4774.0	4795.7	5414.3	6753.5	9234.1	13188.5	15871.7	15808.2	14564.9	12520.4	10002.7
70°	2891.9	2904.3	3389.9	4480.2	6628.3	10661.5	14306.6	14309.7	13239.5	11134.7	8513.4
72.5°	1523.3	1555.8	1750.6	2544.0	4025.5	7480.4	11606.4	11881.7	11366.7	9503.2	6725.7
75°	847.5	852.1	989.8	1254.2	2053.7	4186.4	8723.8	8802.6	8999.0	7649.0	4973.5
77.5°	646.4	655.7	699.0	810.4	1118.1	1940.8	5279.7	5675.6	6342.2	5392.6	2837.8
80°	524.3	533.5	570.7	637.2	743.9	920.2	2452.7	2666.2	3394.6	2394.0	1107.3
82.5°	408.3	402.1	450.0	493.3	541.3	544.4	1006.8	1113.5	1382.6	1030.0	479.4
85°	303.1	303.1	341.8	332.5	349.5	318.6	443.8	490.2	553.6	437.7	222.7
87.5°	120.6	133.0	224.2	201.0	156.2	125.3	163.9	173.2	191.8	171.7	92.8
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°	3722.4	3722.4	3722.4	3722.4	3722.4	3722.4	3722.4	3722.4	3722.4	3722.4	3722.4
2.5°	3728.6	3733.2	3722.4	3714.7	3711.6	3706.9	3702.3	3703.8	3710.0	3716.2	3714.7
5°	3747.2	3748.7	3730.1	3720.9	3714.7	3708.5	3708.5	3713.1	3725.5	3734.8	3734.8
7.5°	3793.5	3793.5	3767.3	3750.2	3741.0	3730.1	3727.0	3728.6	3737.9	3750.2	3751.8
10°	3866.2	3860.0	3826.0	3799.7	3782.7	3756.4	3733.2	3720.9	3725.5	3733.2	3733.2
12.5°	3954.4	3937.4	3894.1	3858.5	3816.7	3767.3	3719.3	3694.6	3693.0	3700.8	3697.7
15°	4048.7	4030.2	3969.8	3904.9	3832.2	3759.5	3702.3	3666.7	3638.9	3631.2	3648.2
17.5°	4158.5	4119.9	4036.3	3946.6	3838.4	3744.1	3654.4	3581.7	3532.2	3518.3	3522.9
20°	4291.5	4240.5	4127.6	3986.9	3833.8	3688.4	3549.2	3451.8	3371.4	3346.6	3349.7
22.5°	4475.5	4387.4	4221.9	4007.0	3795.1	3583.2	3389.9	3263.1	3165.7	3127.0	3150.2
25°	4684.3	4588.4	4311.6	4002.3	3694.6	3414.7	3201.2	3035.8	2947.6	2890.4	2902.8
27.5°	4972.0	4801.9	4407.5	3960.6	3550.7	3209.0	2961.5	2805.3	2724.9	2695.5	2709.5
30°	5340.0	5078.7	4511.1	3847.7	3323.4	2949.2	2720.3	2618.2	2570.3	2533.2	2545.5
32.5°	5606.0	5273.5	4534.3	3657.5	3077.5	2712.5	2556.4	2480.6	2428.0	2392.4	2400.2
35°	5796.3	5439.0	4523.5	3423.9	2820.8	2517.7	2426.4	2364.6	2279.5	2202.2	2188.3
37.5°	6051.4	5646.2	4444.6	3168.8	2567.2	2386.2	2321.3	2206.8	2084.7	1981.1	1976.4
40°	6442.7	5889.0	4276.1	2868.7	2350.7	2288.8	2209.9	2061.5	1930.0	1846.5	1840.3
42.5°	6846.3	6113.3	4047.2	2553.3	2172.8	2186.7	2090.9	1943.9	1863.5	1809.4	1803.2
45°	7339.7	6356.1	3799.7	2279.5	2041.4	2090.9	1987.2	1902.2	1854.2	1818.7	1809.4
47.5°	7873.2	6605.1	3521.4	2033.6	1930.0	2002.7	1943.9	1905.3	1879.0	1854.2	1843.4
50°	8448.5	6883.4	3260.0	1835.7	1829.5	1911.5	1939.3	1925.4	1909.9	1902.2	1892.9
52.5°	9079.5	7168.0	3040.4	1696.5	1741.4	1846.5	1940.8	1951.7	1951.7	1947.0	1940.8
55°	9506.3	7365.9	2817.7	1583.6	1651.7	1793.9	1937.8	1979.5	1995.0	1988.8	1982.6
57.5°	9821.8	7474.2	2537.8	1486.2	1575.9	1742.9	1920.7	1982.6	1998.1	2005.8	2002.7
60°	9886.7	7373.7	2171.3	1384.1	1493.9	1668.7	1858.9	1936.2	1956.3	2004.3	2008.9
62.5°	9594.4	7064.4	1806.3	1283.6	1393.4	1555.8	1775.4	1883.6	1923.8	1998.1	2005.8
64°	9235.7	6718.0	1603.7	1220.2	1328.4	1492.4	1733.6	1869.7	1922.3	2021.3	2027.5
65°	8972.7	6465.9	1476.9	1180.0	1286.7	1450.6	1710.4	1874.3	1936.2	2056.8	2066.1
67.5°	8004.6	5598.3	1221.7	1085.6	1187.7	1379.5	1715.1	1913.0	1933.1	2070.8	2069.2
70°	6623.6	4457.0	1023.8	999.0	1091.8	1322.3	1696.5	1851.2	1852.7	1943.9	1922.3
72.5°	4959.6	3294.0	887.7	909.3	985.1	1186.2	1602.2	1767.6	1741.4	1753.7	1732.1
75°	3406.9	2179.0	764.0	813.5	873.8	1048.5	1469.2	1605.3	1563.5	1548.0	1532.6
77.5°	1818.7	1204.7	635.6	719.1	759.3	906.2	1282.0	1413.5	1370.2	1309.9	1289.8
80°	736.1	567.6	511.9	595.4	618.6	729.9	1067.1	1149.0	1116.6	1011.4	977.4
82.5°	369.6	340.2	402.1	468.6	470.1	521.2	793.4	870.7	798.0	669.6	640.2
85°	193.3	199.5	276.8	329.4	290.7	281.5	476.3	527.4	484.1	420.6	378.9
87.5°	69.6	80.4	145.4	143.8	102.1	54.1	105.2	51.0	27.8	17.0	21.7
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)