

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: P455718

Luminaire Tested: **GALN-SA6D-830-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455718
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6D-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36661 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 368
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

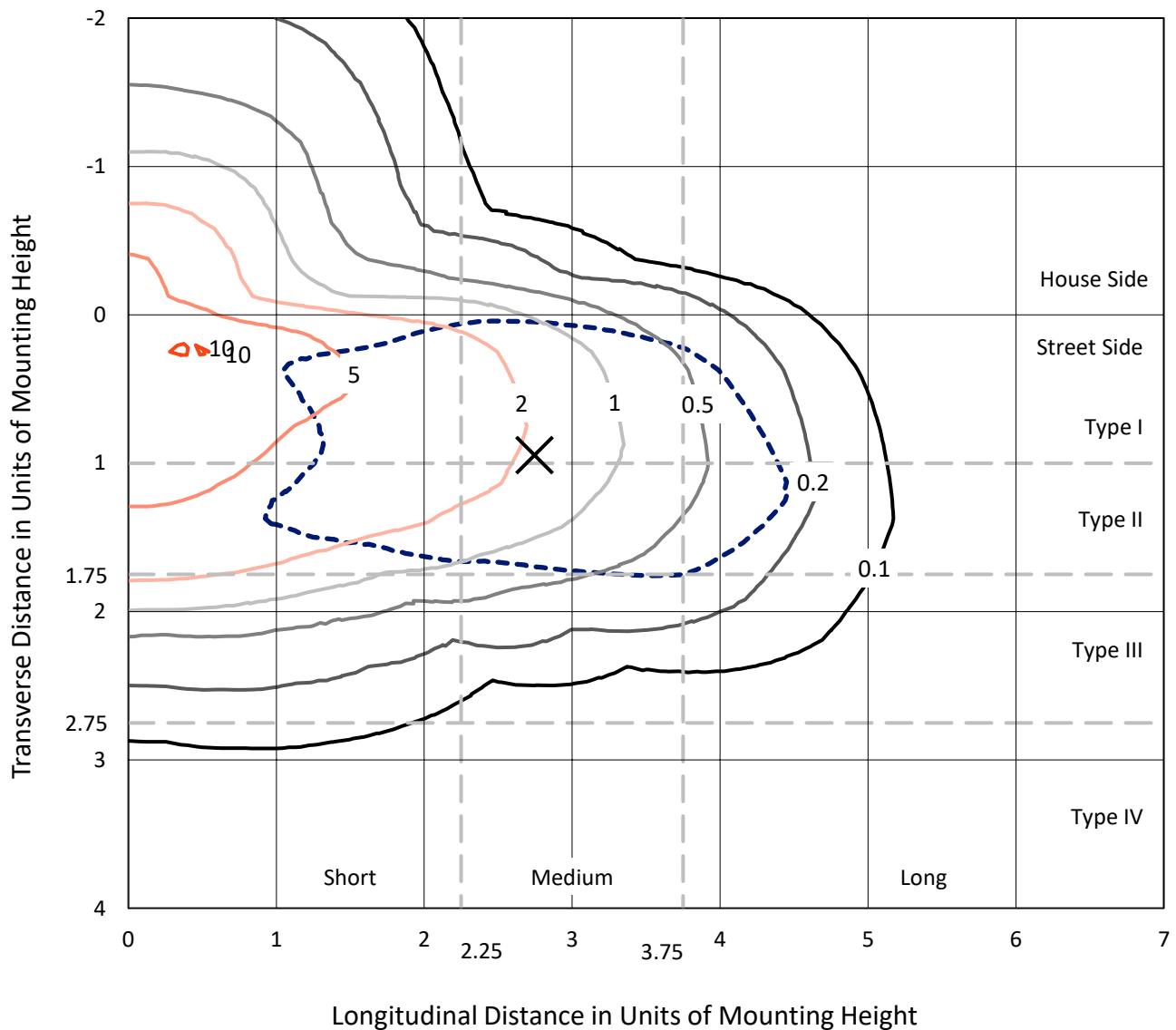


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

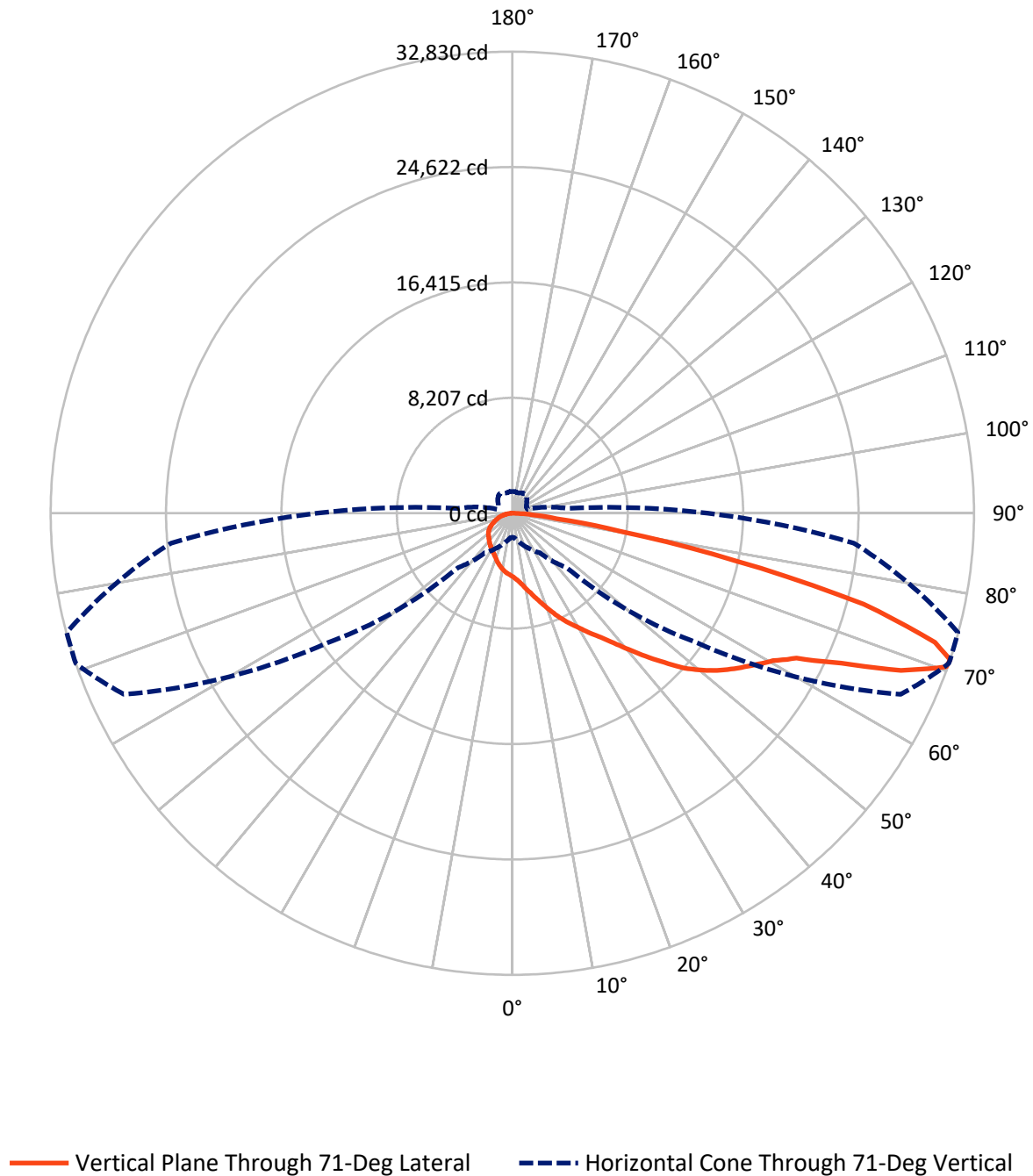


Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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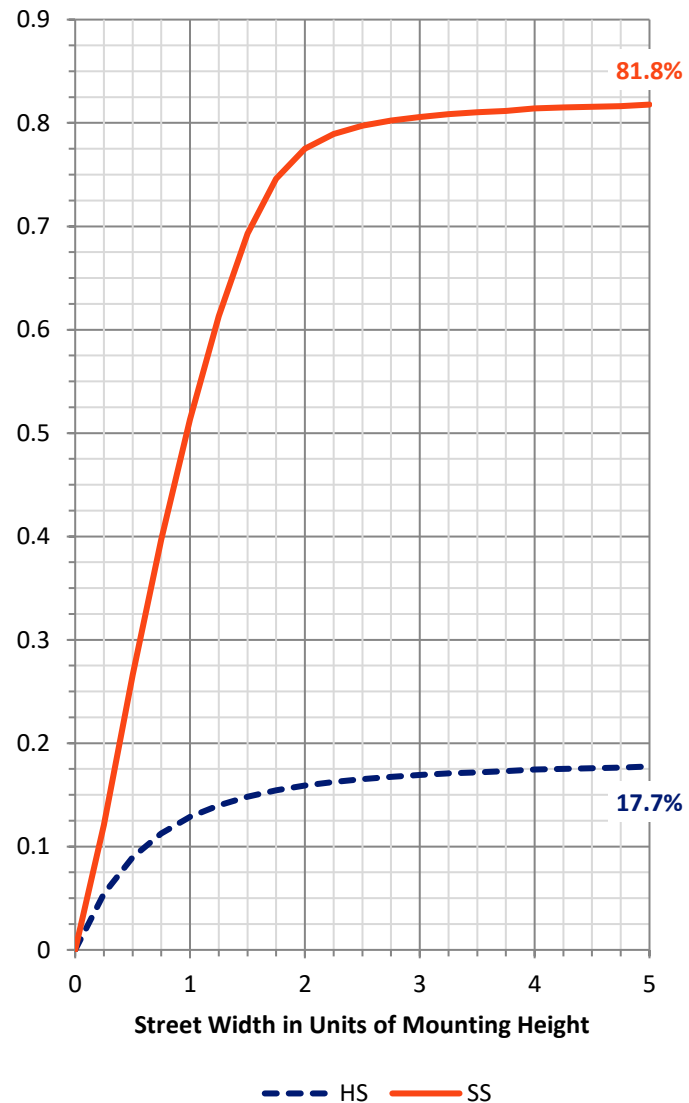
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6593.4	0.0	6593.4
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	30067.6	0.0	30067.6
	% Fixture	82.0	0.0	82.0
Total	Lumens	36661.0	0.0	36661.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.8	1.2
10°-20°	1467.8	4.0
20°-30°	2565.1	7.0
30°-40°	3815.2	10.4
40°-50°	5621.2	15.3
50°-60°	7869.7	21.5
60°-70°	8802.0	24.0
70°-80°	5376.6	14.7
80°-90°	691.6	1.9
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°	36661.0	100.0
0°-180°	36661.0	100.0

Coefficient of Utilization



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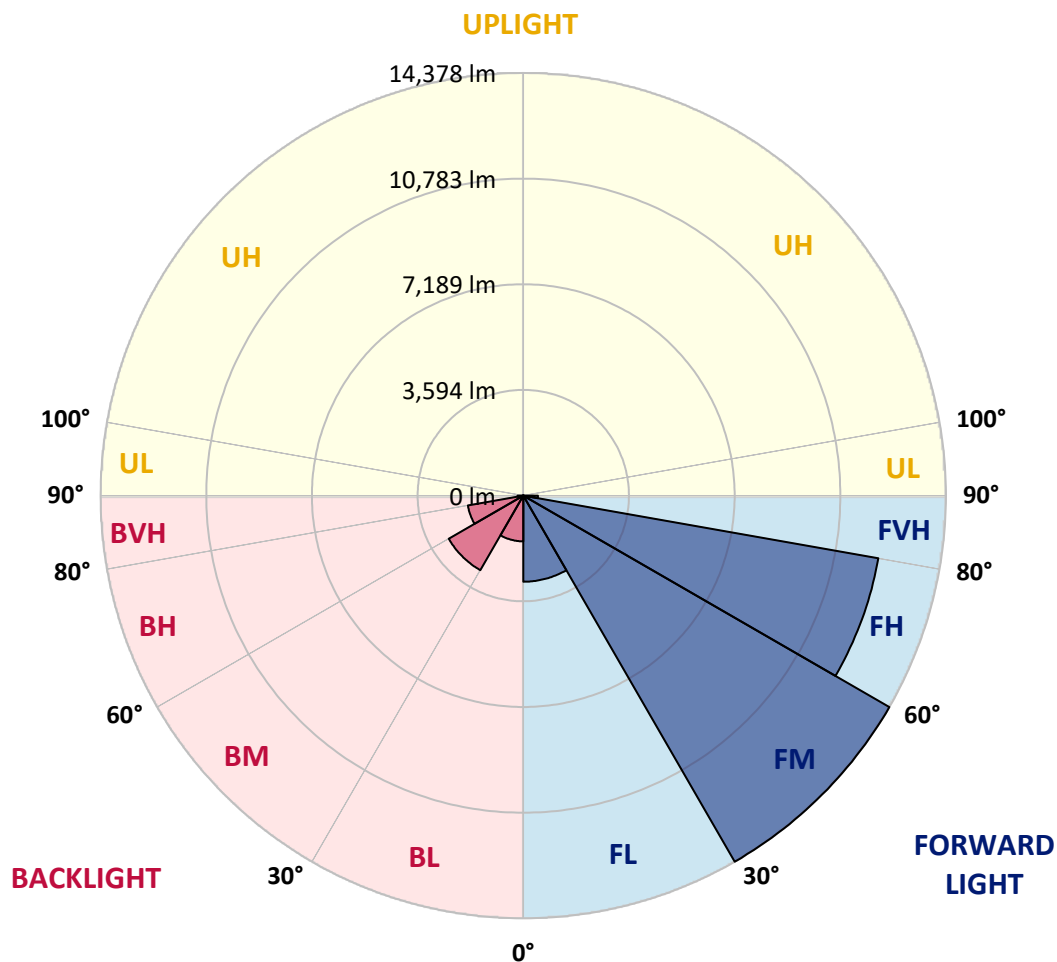
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2929.2	8.0			
FM	(30°-60°)	14377.7	39.2			
FH	(60°-80°)	12263.0	33.4			G5
FVH	(80°-90°)	497.7	1.4			G3/500
BL	(0°-30°)	1555.4	4.2	B3/2500		
BM	(30°-60°)	2928.4	8.0	B3/5000		
BH	(60°-80°)	1915.7	5.2	B3/2500		G3/2500
BVH	(80°-90°)	194.0	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	4499.4	4499.4	4499.4	4499.4	4499.4	4499.4	4499.4	4499.4	4499.4	4499.4	4499.4
2.5°	4995.1	4970.9	4972.9	4938.7	4894.3	4846.0	4777.5	4717.0	4668.7	4640.5	4557.8
5°	5535.1	5510.9	5480.7	5406.1	5373.9	5255.0	5103.9	4966.9	4862.1	4803.7	4638.4
7.5°	5972.4	5966.3	5958.2	5915.9	5833.3	5668.1	5539.1	5301.4	5146.2	5035.4	4753.3
10°	6242.4	6252.4	6258.5	6266.5	6232.3	6145.6	5968.3	5668.1	5470.6	5329.6	4902.4
12.5°	6379.4	6389.5	6423.7	6498.3	6544.6	6534.5	6389.5	6095.3	5823.2	5637.9	5061.6
15°	6464.0	6480.1	6540.6	6639.3	6794.5	6893.2	6822.7	6550.6	6252.4	6032.8	5251.0
17.5°	6556.7	6574.8	6641.3	6782.4	6985.9	7199.5	7276.0	7042.3	6717.9	6455.9	5462.6
20°	6609.1	6633.3	6728.0	6913.3	7151.1	7461.4	7715.3	7592.4	7237.8	6947.6	5706.4
22.5°	6693.7	6713.9	6794.5	6991.9	7276.0	7664.9	8154.6	8128.4	7816.0	7441.3	5974.4
25°	6923.4	6955.7	6996.0	7114.8	7388.9	7872.5	8519.3	8700.6	8376.2	7957.1	6220.2
27.5°	7356.6	7382.8	7380.8	7396.9	7552.1	8051.8	8835.6	9266.8	8932.3	8479.0	6458.0
30°	7850.3	7860.4	7868.4	7832.2	7866.4	8235.2	9125.8	9827.0	9492.5	9014.9	6665.5
32.5°	8450.8	8470.9	8402.4	8309.7	8281.5	8507.2	9365.6	10387.1	10155.4	9559.0	6871.0
35°	9160.0	9212.4	9073.4	8910.2	8795.3	8898.1	9687.9	10959.4	10834.5	10254.2	7143.0
37.5°	9970.0	10034.5	9905.6	9585.2	9422.0	9450.2	10109.1	11666.6	11692.8	11046.0	7548.1
40°	10633.0	10717.6	10721.6	10268.3	10020.4	10052.7	10643.0	12428.3	12728.5	12025.3	8025.6
42.5°	11070.2	11152.8	11239.5	10973.5	10713.6	10896.9	11265.7	13254.4	13893.2	13214.1	8692.6
45°	11549.8	11624.3	11672.7	11551.8	11406.7	11882.2	12017.2	14133.0	15134.4	14542.0	9422.0
47.5°	12105.9	12188.5	12234.9	12120.0	12065.6	12746.7	12827.3	14953.0	16460.2	15831.6	10228.0
50°	12847.4	12909.9	12885.7	12813.2	12801.1	13409.6	13605.0	15720.7	17554.4	17219.9	11064.2
52.5°	13770.3	13844.8	13871.0	13768.2	13721.9	13883.1	14231.7	16419.9	18549.8	18412.7	11956.8
55°	14328.4	14447.3	14846.3	15007.5	15118.3	14495.7	14906.7	17191.7	19442.4	19670.1	12915.9
57.5°	13613.1	13766.2	14658.9	15464.8	16506.6	16027.0	15863.8	17997.7	20335.0	20889.1	14064.4
60°	11868.1	11902.4	13052.9	14538.0	16633.5	17995.6	17860.6	19279.2	21302.2	22118.3	15577.7
62.5°	8233.1	8305.7	9665.8	12035.4	15065.9	18704.9	21257.9	21491.6	22688.5	23957.9	17796.2
65°	4245.5	4150.8	5390.0	7564.2	11358.4	17020.4	24010.3	25559.8	25694.8	26835.3	20919.4
67.5°	2613.4	2655.7	3236.0	4416.8	6715.9	12369.9	23722.2	30530.7	29819.5	30367.5	23818.9
70°	1962.6	2015.0	2413.9	3022.4	4094.4	7072.5	19077.7	31735.7	32729.1	32588.0	24701.4
71°	1706.7	1761.1	2176.2	2750.4	3439.5	5458.5	16073.4	30474.3	32829.8	32805.6	24369.0
72.5°	1454.8	1489.1	1813.5	2329.3	2899.5	3826.4	12075.7	27331.0	31429.4	32233.4	23182.2
75°	1142.5	1168.7	1313.8	1777.2	2283.0	2349.4	6480.1	20490.2	25813.7	27345.1	19299.3
77.5°	930.9	949.0	1023.6	1319.8	1761.1	1664.4	3399.2	13337.0	16172.1	17713.5	11368.4
80°	739.5	759.6	804.0	894.6	1319.8	1186.8	1622.0	6758.2	7812.0	7795.9	4537.7
82.5°	574.3	580.3	632.7	656.9	902.7	842.3	878.5	2861.2	3169.5	3274.3	1638.2
85°	362.7	380.8	560.2	503.7	540.0	493.7	433.2	1136.4	1400.4	1380.3	654.9
87.5°	110.8	116.9	189.4	213.6	239.8	215.6	159.2	334.5	409.0	443.3	163.2
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°	4499.4	4499.4	4499.4	4499.4	4499.4	4499.4	4499.4	4499.4	4499.4	4499.4	4499.4
2.5°	4525.6	4503.4	4424.9	4360.4	4299.9	4233.4	4177.0	4160.9	4146.8	4140.8	4138.7
5°	4567.9	4501.4	4346.3	4219.3	4118.6	4025.9	3967.5	3941.3	3915.1	3915.1	3923.1
7.5°	4628.4	4507.5	4267.7	4078.3	3951.3	3864.7	3822.4	3818.4	3824.4	3830.4	3832.5
10°	4694.9	4503.4	4152.8	3917.1	3804.3	3764.0	3766.0	3800.2	3832.5	3856.6	3860.7
12.5°	4759.3	4479.3	4017.8	3766.0	3693.4	3701.5	3757.9	3834.5	3896.9	3931.2	3933.2
15°	4831.9	4441.0	3854.6	3622.9	3598.7	3661.2	3766.0	3882.8	3977.5	4034.0	4040.0
17.5°	4892.3	4376.5	3683.4	3483.9	3514.1	3629.0	3774.0	3925.1	4040.0	4110.5	4122.6
20°	4960.8	4293.9	3506.0	3350.9	3437.5	3592.7	3757.9	3921.1	4040.0	4108.5	4124.6
22.5°	5015.2	4177.0	3336.8	3242.1	3369.0	3548.4	3703.5	3834.5	3931.2	3967.5	3991.6
25°	5037.4	4029.9	3177.6	3153.4	3314.6	3475.8	3580.6	3655.1	3685.4	3681.3	3691.4
27.5°	5025.3	3860.7	3040.6	3082.9	3246.1	3363.0	3415.4	3409.3	3354.9	3304.5	3328.7
30°	4974.9	3659.2	2925.7	3010.4	3157.4	3221.9	3213.9	3135.3	3032.5	2937.8	2943.9
32.5°	4884.3	3441.6	2818.9	2927.7	3032.5	3060.7	3006.3	2903.6	2756.5	2633.6	2615.4
35°	4807.7	3234.0	2724.2	2833.0	2907.6	2893.5	2841.1	2708.1	2575.1	2466.3	2448.2
37.5°	4795.6	3056.7	2633.6	2726.2	2768.6	2748.4	2683.9	2571.1	2522.7	2440.1	2430.0
40°	4860.1	2931.8	2540.9	2613.4	2633.6	2617.4	2546.9	2482.4	2526.8	2506.6	2506.6
42.5°	5035.4	2865.3	2458.3	2500.6	2516.7	2528.8	2478.4	2424.0	2478.4	2385.7	2355.5
45°	5313.5	2867.3	2383.7	2389.7	2438.1	2480.4	2446.2	2365.6	2337.4	2152.0	2115.7
47.5°	5722.5	2935.8	2323.3	2285.0	2371.6	2442.1	2393.8	2276.9	2152.0	2029.1	2006.9
50°	6200.0	3058.7	2268.8	2176.2	2283.0	2393.8	2357.5	2220.5	2091.5	2017.0	2002.9
52.5°	6730.0	3213.9	2202.4	2055.3	2174.1	2371.6	2365.6	2212.4	2035.1	1984.7	1972.6
55°	7384.8	3367.0	2119.7	1914.2	2077.4	2353.5	2343.4	2145.9	2023.0	1986.8	1982.7
57.5°	8146.5	3588.7	2000.9	1771.2	1966.6	2278.9	2256.8	2105.6	1982.7	1956.5	1954.5
60°	9373.6	3933.2	1831.6	1640.2	1853.8	2148.0	2176.2	2037.1	1918.2	1912.2	1910.2
62.5°	10987.6	4416.8	1656.3	1505.2	1722.8	1978.7	2059.3	1944.4	1849.7	1880.0	1884.0
65°	13216.1	4823.8	1475.0	1390.3	1577.7	1815.5	1948.5	1857.8	1773.2	1831.6	1831.6
67.5°	14668.9	4831.9	1309.7	1271.4	1430.6	1678.5	1831.6	1755.0	1674.4	1773.2	1777.2
70°	14366.7	4233.4	1172.7	1146.5	1287.6	1531.4	1702.6	1642.2	1549.5	1638.2	1605.9
71°	13879.1	3901.0	1118.3	1098.2	1231.1	1460.8	1642.2	1591.8	1499.1	1557.6	1539.4
72.5°	13101.3	3387.2	1029.6	1033.7	1146.5	1372.2	1557.6	1505.2	1412.5	1444.7	1438.7
75°	11074.2	2958.0	880.5	898.7	985.3	1221.1	1388.3	1348.0	1253.3	1253.3	1247.3
77.5°	6923.4	2067.4	731.4	741.5	836.2	1045.8	1192.9	1158.6	1067.9	1037.7	1029.6
80°	2583.2	1067.9	572.2	584.3	642.8	824.1	987.3	955.1	862.4	828.2	795.9
82.5°	977.3	536.0	421.1	411.1	473.5	628.7	773.7	735.5	662.9	580.3	556.1
85°	368.7	266.0	257.9	249.9	278.1	372.8	479.6	471.5	394.9	336.5	330.5
87.5°	96.7	86.6	100.7	74.6	78.6	70.5	72.5	30.2	14.1	6.0	4.0
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)