

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: P200318

Luminaire Tested: **GWC-AF-02-LED-E1-SLL-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200318
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-02-LED-E1-SLL-7050-800
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8821 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 86
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: 25 FT

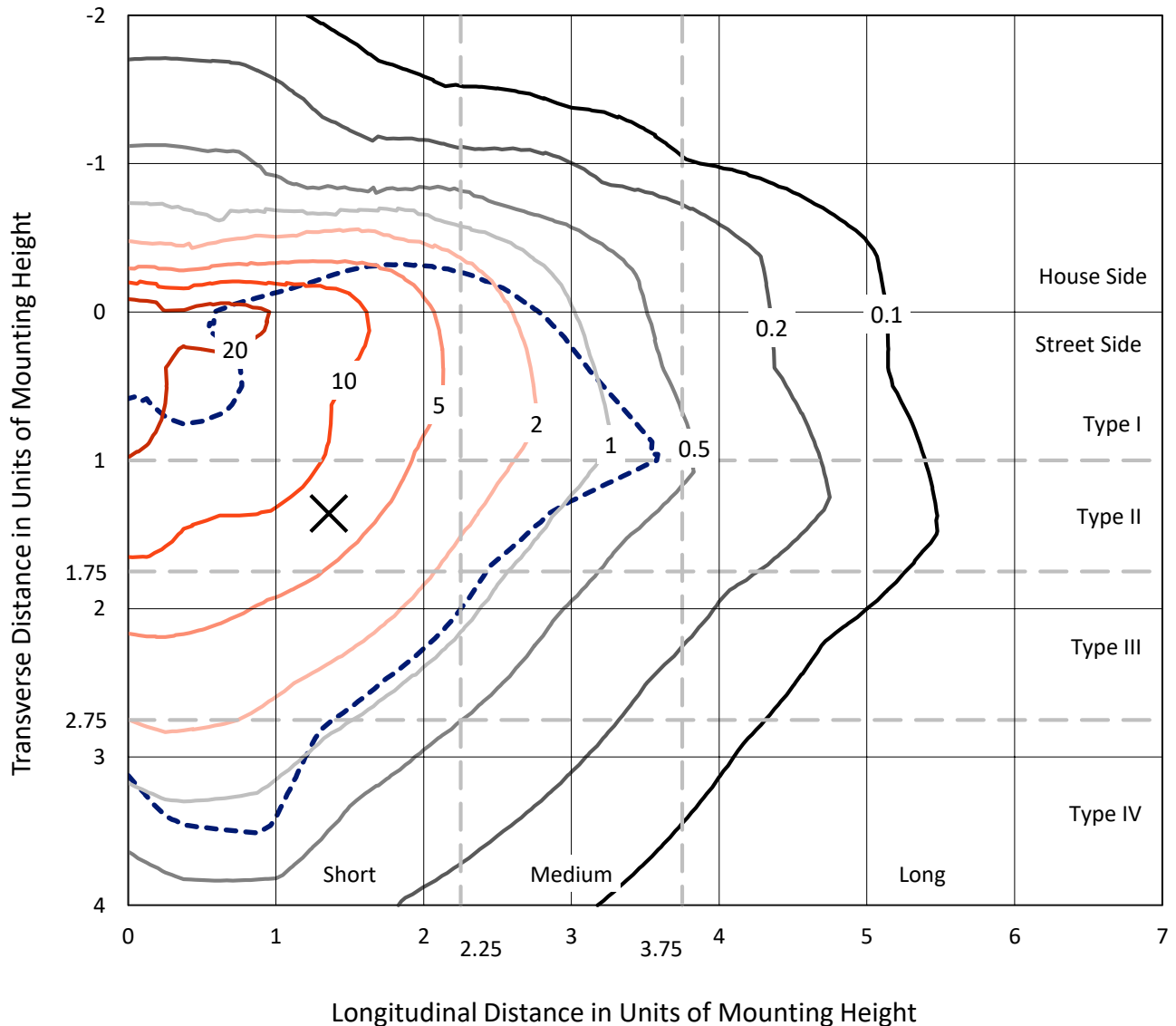


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Iso-Footcandle Lines of Horizontal Illumination

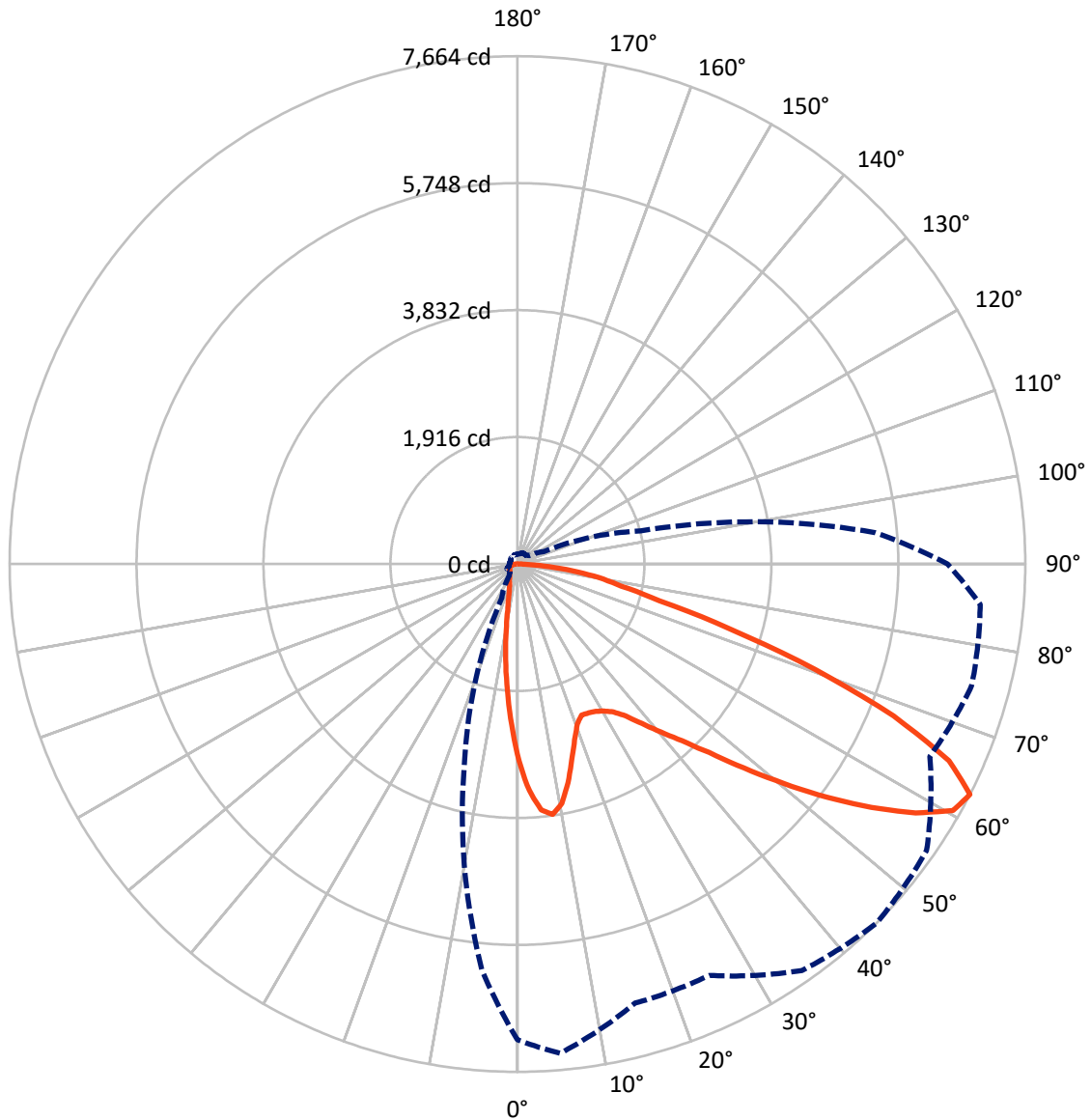
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 35.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1459.7	0.0	1459.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	7361.2	0.0	7361.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	8821.0	0.0	8821.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.9	2.5
10°-20°	397.8	4.5
20°-30°	580.0	6.6
30°-40°	893.3	10.1
40°-50°	1314.7	14.9
50°-60°	1928.4	21.9
60°-70°	2155.7	24.4
70°-80°	1055.4	12.0
80°-90°	278.7	3.2
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°	8821.0	100.0
0°-180°	8821.0	100.0



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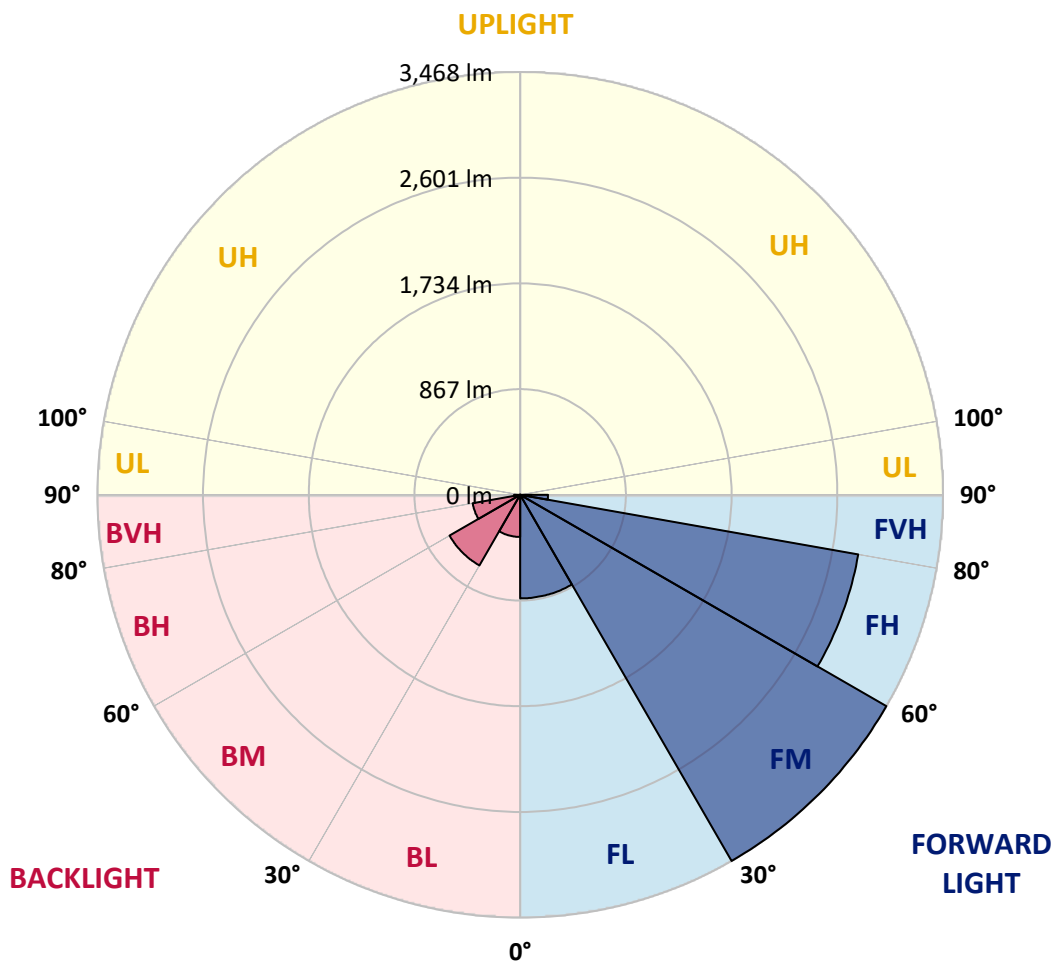
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	849.4	9.6			
FM	(30°-60°)	3467.6	39.3			
FH	(60°-80°)	2815.4	31.9			G2/5000
FVH	(80°-90°)	228.8	2.6			G3/500
BL	(0°-30°)	345.4	3.9	B1/500		
BM	(30°-60°)	668.9	7.6	B1/1000		
BH	(60°-80°)	395.7	4.5	B1/500		G1/500
BVH	(80°-90°)	49.8	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2
2.5°	3096.6	3146.0	3242.5	3314.8	3402.6	3422.9	3451.0	3423.4	3374.4	3309.5	3288.1
5°	2911.8	3017.5	3251.8	3457.8	3641.1	3726.5	3750.2	3679.9	3537.8	3351.2	3237.2
7.5°	2615.6	2765.9	3083.0	3386.6	3656.6	3816.2	3812.3	3648.9	3387.5	3083.5	2900.7
10°	2360.0	2531.7	2895.4	3234.8	3521.4	3676.0	3616.4	3407.4	3095.6	2745.5	2547.2
12.5°	2217.0	2385.2	2754.2	3095.1	3334.7	3388.0	3342.4	3137.8	2844.0	2490.0	2316.4
15°	2192.2	2377.0	2698.0	2975.4	3109.7	3063.1	3008.8	2917.2	2709.6	2407.5	2226.7
17.5°	2299.4	2503.1	2762.5	2892.0	2869.2	2788.2	2772.7	2782.9	2732.9	2499.2	2290.7
20°	2505.0	2749.4	2916.2	2852.7	2686.4	2574.8	2578.7	2734.4	2882.3	2731.5	2493.4
22.5°	2793.5	3072.3	3137.8	2873.5	2609.3	2476.9	2508.9	2761.0	3120.3	3070.9	2766.9
25°	3166.9	3421.0	3373.9	2949.2	2617.0	2489.0	2514.7	2853.2	3401.6	3410.3	3105.3
27.5°	3528.6	3764.3	3572.3	3049.5	2649.0	2517.6	2551.6	2998.2	3670.2	3778.8	3492.3
30°	3810.8	3974.7	3650.8	3141.2	2712.1	2573.4	2615.6	3135.9	3792.4	4027.6	3790.0
32.5°	4044.6	4162.4	3775.9	3254.7	2827.9	2661.1	2735.3	3303.2	3968.4	4264.2	4081.4
35°	4343.3	4376.7	3931.6	3381.2	3006.9	2813.9	2906.0	3467.1	4136.2	4503.3	4368.5
37.5°	4693.4	4650.2	4078.5	3554.3	3238.2	3052.9	3129.1	3646.9	4274.4	4774.3	4661.8
40°	5039.6	4935.8	4262.8	3823.0	3575.7	3334.7	3424.9	3839.0	4403.4	5045.9	4948.4
42.5°	5333.9	5180.2	4444.6	4118.3	3889.9	3645.5	3753.1	4032.4	4526.6	5277.7	5197.2
45°	5551.6	5360.6	4617.7	4401.9	4322.9	4058.6	4109.5	4254.0	4659.9	5471.2	5401.8
47.5°	5746.1	5541.9	4813.6	4688.0	4701.6	4595.9	4514.0	4512.0	4817.0	5629.2	5595.3
50°	6006.5	5793.6	5024.1	4982.9	5269.9	5199.6	5018.7	4813.1	5015.8	5808.6	5804.8
52.5°	6365.3	6192.2	5281.1	5300.5	5800.4	5846.5	5622.4	5174.9	5327.1	6137.9	6114.6
55°	6789.6	6688.7	5631.2	5665.6	6451.1	6484.1	6261.5	5627.3	5784.9	6614.6	6550.1
57.5°	7120.8	7099.5	6015.2	6103.9	6937.0	7085.4	6880.8	6151.0	6300.8	7016.1	6854.1
60°	7252.7	7356.0	6424.0	6546.2	7386.5	7550.9	7371.5	6611.2	6758.1	7182.4	6833.2
62.5°	7181.4	7412.2	6859.4	6849.2	7486.9	7663.9	7537.8	6867.2	7097.0	7010.7	6487.5
65°	6852.2	7210.0	7112.1	6771.2	7143.6	7158.1	7117.4	6752.7	7177.0	6468.1	5819.3
67.5°	6135.0	6649.9	6779.4	6102.0	6217.4	6122.9	6054.5	6126.3	6760.0	5654.9	4890.7
70°	4996.9	5771.8	5833.9	4880.5	4828.2	4764.6	4628.4	5022.6	5937.1	4634.7	3880.7
72.5°	3674.1	4488.7	4679.3	3579.5	3337.1	3350.2	3242.5	3785.1	4827.2	3442.8	2897.3
75°	2513.7	3250.3	3661.0	2497.7	2206.8	2212.1	2198.5	2682.0	3844.8	2394.9	2168.0
77.5°	1836.3	2322.2	2761.0	1679.2	1630.2	1600.2	1592.9	1876.6	2947.7	1738.9	1683.6
80°	1473.6	1715.6	1854.8	1163.8	1251.5	1249.1	1208.9	1290.3	1925.1	1271.9	1259.3
82.5°	1022.2	1318.4	1502.7	912.1	844.7	830.6	840.3	961.1	1360.6	869.4	826.8
85°	539.2	875.7	1488.2	808.3	501.4	400.0	497.5	787.0	1178.8	460.7	403.4
87.5°	68.9	253.1	985.3	322.5	197.8	106.7	236.1	443.2	756.9	94.1	81.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2
2.5°	3233.3	3168.8	3084.5	3006.4	2925.4	2844.9	2739.7	2673.8	2628.2	2619.4	2600.0
5°	3154.8	2940.4	2778.5	2638.4	2511.3	2331.9	2232.5	2150.1	2105.9	2101.6	2090.9
7.5°	2792.6	2496.8	2278.1	2079.7	1899.8	1754.9	1594.8	1520.2	1489.6	1496.9	1504.2
10°	2415.8	2085.1	1833.9	1631.2	1472.6	1350.5	1222.0	1135.2	1075.0	1062.9	1060.5
12.5°	2140.4	1777.7	1533.7	1390.7	1268.0	1153.1	1016.8	914.5	836.5	809.8	791.8
15°	2024.0	1627.3	1371.8	1217.6	1082.3	936.3	809.8	702.6	630.9	607.6	594.5
17.5°	2048.7	1585.6	1260.3	1062.9	889.8	737.5	578.0	486.4	443.2	432.0	432.0
20°	2178.7	1577.9	1168.1	920.3	704.6	528.1	397.1	344.8	330.7	329.2	333.1
22.5°	2361.0	1605.0	1099.3	796.7	547.5	385.5	309.4	290.0	283.7	285.1	289.5
25°	2632.5	1696.7	1049.3	686.6	429.6	315.7	275.9	264.3	261.4	265.2	270.6
27.5°	2954.5	1788.3	1018.3	603.7	362.7	288.5	262.3	250.2	252.1	257.0	261.8
30°	3237.2	1863.5	969.3	544.5	341.9	290.0	262.3	245.8	243.9	244.9	246.3
32.5°	3490.8	1914.4	912.1	488.3	294.8	257.5	244.9	242.5	231.8	227.9	228.4
35°	3709.5	1914.4	877.7	455.3	264.3	228.4	208.0	195.9	190.6	191.1	196.4
37.5°	3920.4	1876.1	860.7	436.9	247.8	217.2	199.3	188.6	181.4	179.9	180.9
40°	4106.6	1820.3	841.3	429.1	235.2	210.4	193.5	184.7	177.0	174.6	175.0
42.5°	4256.0	1775.2	820.0	419.0	227.4	205.6	189.6	181.8	173.1	170.7	170.2
45°	4417.5	1760.2	791.8	398.6	231.3	206.1	188.6	180.4	171.7	168.7	167.8
47.5°	4630.3	1807.2	762.8	374.3	239.5	208.5	190.1	180.4	171.2	168.7	167.8
50°	4898.5	1917.8	725.9	338.9	231.3	215.3	189.6	178.9	171.2	168.7	166.8
52.5°	5242.8	2067.1	677.4	298.2	226.4	231.8	188.6	176.0	168.7	165.4	162.0
55°	5661.2	2189.3	619.7	264.8	215.3	227.4	187.2	172.6	164.9	160.0	157.1
57.5°	5967.7	2233.5	545.5	242.9	199.8	220.1	185.2	168.3	160.0	156.1	152.3
60°	5907.1	2148.1	483.0	229.4	190.6	198.8	183.8	164.4	155.7	152.7	149.3
62.5°	5421.7	1925.1	442.7	223.1	184.7	181.4	185.2	160.5	151.8	148.9	147.9
65°	4693.9	1595.8	426.7	221.6	179.9	171.2	172.1	156.1	147.4	145.0	144.0
67.5°	3871.9	1287.9	412.7	226.4	173.6	163.9	159.0	150.3	143.0	140.6	138.7
70°	3053.4	1071.1	406.3	223.5	165.8	156.6	151.3	144.0	137.7	135.3	133.8
72.5°	2458.9	904.8	403.0	220.6	155.7	146.9	142.1	135.8	129.0	128.0	126.6
75°	2080.7	711.4	369.0	211.4	144.0	135.3	131.9	126.1	119.3	119.3	118.3
77.5°	1605.0	514.5	306.9	187.2	131.9	122.2	119.3	114.9	107.2	108.6	108.1
80°	1185.6	335.6	240.0	155.2	116.9	107.6	106.2	101.8	93.6	95.5	95.5
82.5°	812.2	220.1	172.6	127.0	99.9	91.2	91.2	86.8	77.6	78.6	81.5
85°	407.8	151.3	129.0	98.4	77.6	73.2	73.2	69.8	60.6	61.1	65.0
87.5°	124.1	91.2	85.3	70.3	55.8	54.8	52.4	49.9	44.1	43.6	46.1
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2
2.5°	2570.5	2542.8	2509.4	2435.7	2410.9	2409.5	2431.8	2408.5	2453.1	2434.2	2455.1
5°	2073.0	2045.8	2008.5	1914.4	1857.2	1818.4	1800.0	1745.6	1784.9	1756.3	1780.1
7.5°	1524.5	1530.8	1506.1	1450.8	1326.2	1263.7	1226.8	1193.8	1222.4	1219.5	1265.1
10°	1071.6	1088.6	1071.1	1015.4	914.5	880.1	886.9	900.0	937.3	956.7	1027.0
12.5°	771.5	770.5	759.4	709.4	643.0	646.9	674.5	697.3	731.7	752.1	823.8
15°	576.1	567.3	562.5	521.8	483.9	492.2	505.8	508.2	530.0	542.1	600.3
17.5°	435.4	439.8	445.1	416.0	387.4	382.1	371.4	358.3	364.6	367.1	396.2
20°	345.7	363.2	376.3	355.9	326.8	311.3	297.7	289.0	289.0	288.5	296.8
22.5°	302.1	314.7	328.8	314.7	288.5	274.9	267.2	260.4	259.4	259.4	267.2
25°	278.3	287.5	301.1	291.4	272.0	261.8	254.6	245.8	242.5	241.5	246.8
27.5°	266.7	270.6	277.4	268.6	252.1	247.3	245.4	237.6	233.2	230.8	236.1
30°	246.8	245.8	246.3	237.6	224.5	224.0	227.4	228.9	227.4	226.9	235.2
32.5°	228.4	226.4	226.0	218.2	206.1	203.2	206.1	209.0	212.4	217.2	226.9
35°	205.1	210.0	212.9	206.1	191.5	182.8	179.4	174.1	171.2	171.2	182.3
37.5°	186.7	197.8	202.2	195.9	179.9	167.8	162.0	161.0	161.5	163.4	174.1
40°	180.4	188.6	192.5	186.2	170.2	159.0	155.7	154.7	155.7	158.6	169.2
42.5°	176.5	182.3	181.8	174.1	161.0	153.2	151.3	150.3	151.3	154.2	165.8
45°	173.1	177.0	173.1	163.9	151.8	147.9	148.4	147.9	148.9	151.8	162.9
47.5°	170.2	171.7	166.8	157.6	145.0	144.0	146.0	147.4	148.4	150.8	162.4
50°	165.8	165.8	161.5	151.8	139.2	139.7	142.1	145.5	146.0	148.9	158.1
52.5°	160.5	160.0	157.1	147.9	134.3	135.8	135.8	139.7	140.6	144.0	153.7
55°	156.1	155.2	153.7	145.0	130.0	132.4	130.9	132.4	134.8	138.2	148.9
57.5°	152.3	150.3	150.3	142.6	126.6	127.5	124.1	126.1	129.0	131.9	143.0
60°	148.4	146.4	147.4	139.2	121.2	120.3	118.8	122.7	123.7	127.0	138.2
62.5°	144.0	142.6	143.0	135.3	117.3	114.9	114.9	118.3	118.8	123.7	134.3
65°	140.6	138.7	138.2	131.4	113.0	110.1	111.5	113.0	114.0	118.8	129.0
67.5°	137.2	133.3	133.3	128.0	108.1	105.2	108.1	107.6	109.1	113.5	121.7
70°	132.9	127.5	128.0	125.6	103.3	99.9	102.3	101.8	102.8	105.7	114.0
72.5°	126.1	121.7	122.7	121.7	98.4	93.6	94.6	94.6	94.6	97.0	105.7
75°	117.3	114.0	116.9	119.3	92.6	85.8	86.8	86.8	85.3	86.8	97.5
77.5°	106.7	104.7	114.4	111.0	85.8	77.6	77.6	76.6	73.7	75.6	87.3
80°	95.0	93.6	105.7	93.1	78.1	67.4	66.4	64.0	61.1	62.6	74.2
82.5°	82.9	81.5	88.7	71.3	67.4	55.8	53.3	49.0	46.1	47.5	58.2
85°	67.9	67.9	68.4	53.8	51.4	42.7	39.8	33.9	30.5	31.5	41.7
87.5°	48.5	49.9	46.1	36.9	30.5	23.8	21.8	18.4	15.5	17.9	21.8
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2
2.5°	2561.7	2615.1	2675.7	2753.3	2819.7	2928.8	3033.5	3096.6
5°	1915.4	2004.1	2114.7	2256.7	2389.1	2587.9	2785.3	2911.8
7.5°	1370.8	1465.9	1585.1	1762.6	1949.8	2203.4	2464.3	2615.6
10°	1134.2	1231.7	1332.0	1451.8	1605.0	1880.9	2189.3	2360.0
12.5°	938.3	1042.5	1150.7	1276.7	1418.8	1665.2	2020.6	2217.0
15°	718.1	834.5	962.0	1121.6	1299.5	1584.2	1978.9	2192.2
17.5°	492.2	622.1	778.8	975.6	1193.3	1558.0	2053.6	2299.4
20°	338.9	433.5	600.8	831.6	1093.5	1554.6	2197.1	2505.0
22.5°	283.7	325.9	448.0	699.2	1018.3	1596.3	2419.7	2793.5
25°	262.3	287.5	357.9	584.3	963.5	1692.3	2726.1	3166.9
27.5°	249.7	272.5	324.9	509.1	920.3	1803.8	3024.3	3528.6
30°	254.6	277.8	315.7	470.8	861.7	1896.9	3289.1	3810.8
32.5°	229.4	239.5	270.6	436.9	819.5	1975.0	3520.9	4044.6
35°	195.4	213.4	241.5	420.9	820.5	2027.4	3773.5	4343.3
37.5°	186.2	204.1	224.5	415.1	831.6	2083.1	4063.5	4693.4
40°	180.4	196.9	214.3	411.7	842.3	2134.1	4347.6	5039.6
42.5°	176.5	191.5	213.4	400.0	847.6	2179.6	4581.4	5333.9
45°	176.0	191.5	217.2	388.4	855.9	2228.6	4777.3	5551.6
47.5°	176.5	197.8	210.0	374.3	855.9	2310.6	5007.1	5746.1
50°	174.6	208.5	202.2	354.5	836.0	2465.7	5322.3	6006.5
52.5°	173.6	207.1	187.2	323.9	801.5	2712.1	5726.2	6365.3
55°	171.2	199.8	176.5	278.3	761.3	2980.7	6158.7	6789.6
57.5°	168.7	177.0	170.7	238.6	699.2	3169.8	6456.5	7120.8
60°	189.1	154.7	165.8	219.2	616.3	3221.7	6444.8	7252.7
62.5°	175.0	145.0	159.5	214.8	558.1	3076.2	6147.1	7181.4
65°	137.2	138.7	153.2	227.4	542.6	2690.7	5619.5	6852.2
67.5°	125.6	132.4	146.9	243.4	544.1	2154.4	4831.1	6135.0
70°	118.3	125.6	139.7	251.7	547.9	1606.0	3819.6	4996.9
72.5°	110.1	116.4	131.4	253.1	522.7	1166.7	2943.8	3674.1
75°	100.4	106.2	119.8	220.6	433.0	809.3	2251.9	2513.7
77.5°	89.2	93.6	105.2	170.2	321.5	517.9	1690.4	1836.3
80°	76.1	78.6	88.3	124.6	220.1	323.9	1337.4	1473.6
82.5°	61.1	62.1	68.4	93.6	143.0	208.0	895.6	1022.2
85°	43.2	43.2	47.0	67.9	97.5	131.9	486.4	539.2
87.5°	20.4	20.9	20.9	37.3	50.9	66.9	112.0	68.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)