

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: P269171

Luminaire Tested: **GLEON-AF-03-LED-E1-SLL-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269171
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: GLEON-AF-03-LED-E1-SLL-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 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: 11210.5 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 124
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

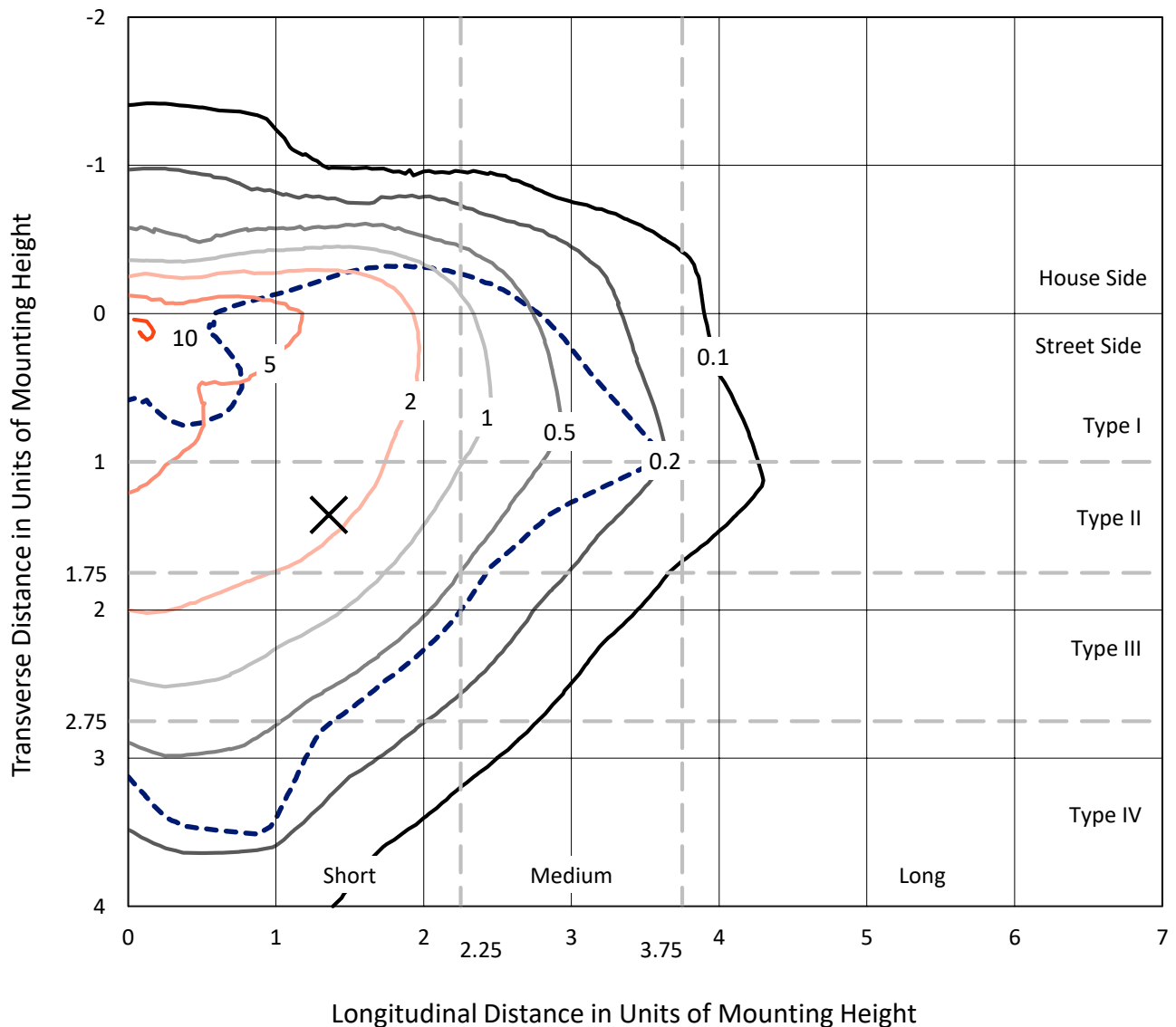


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Iso-Footcandle Lines of Horizontal Illumination

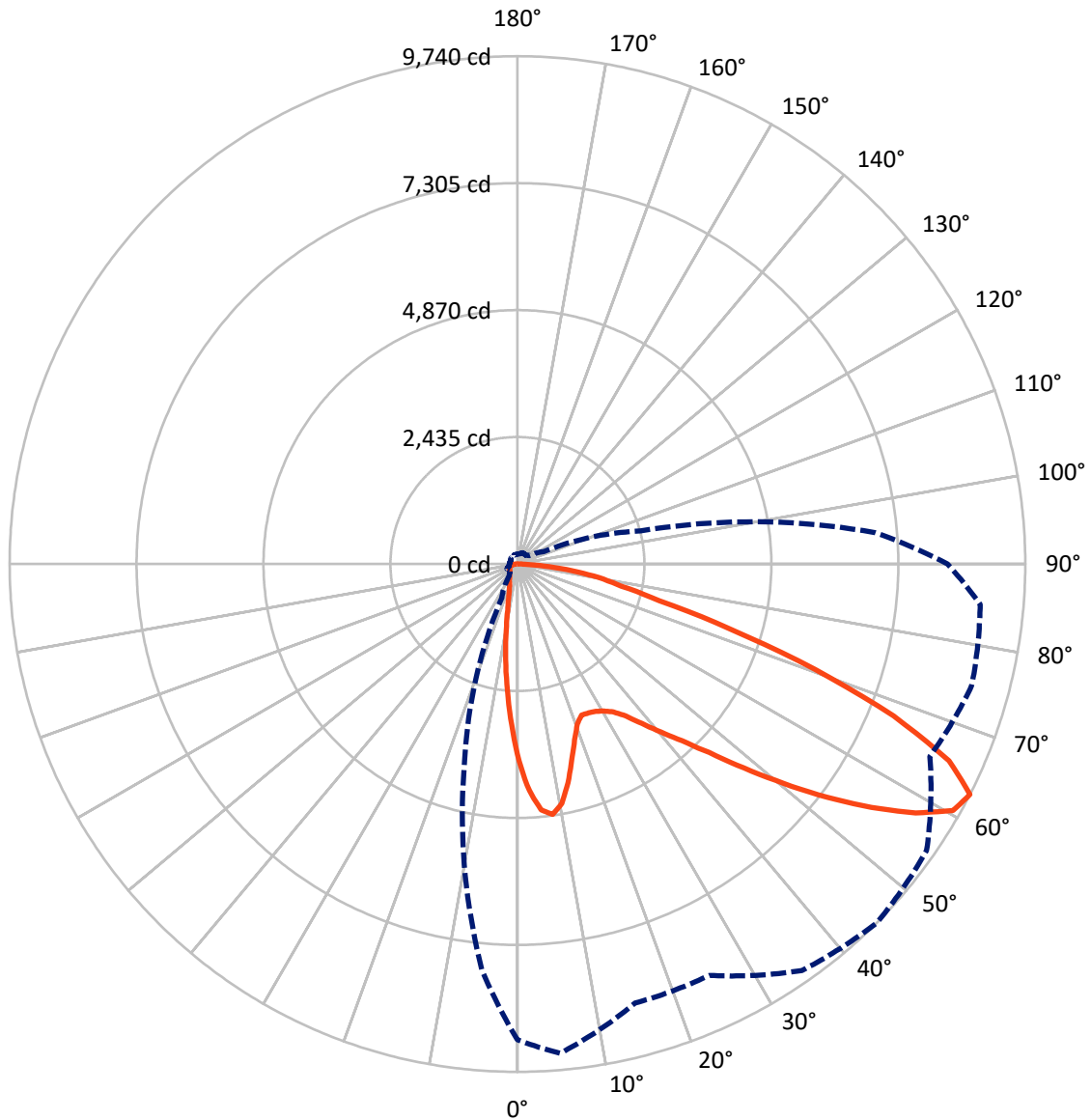
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.1 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	1855.2	0.0	1855.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	9355.3	0.0	9355.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	11210.5	0.0	11210.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.7	2.5
10°-20°	505.6	4.5
20°-30°	737.1	6.6
30°-40°	1135.3	10.1
40°-50°	1670.9	14.9
50°-60°	2450.8	21.9
60°-70°	2739.6	24.4
70°-80°	1341.3	12.0
80°-90°	354.1	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°	11210.5	100.0
0°-180°	11210.5	100.0

Coefficient of Utilization



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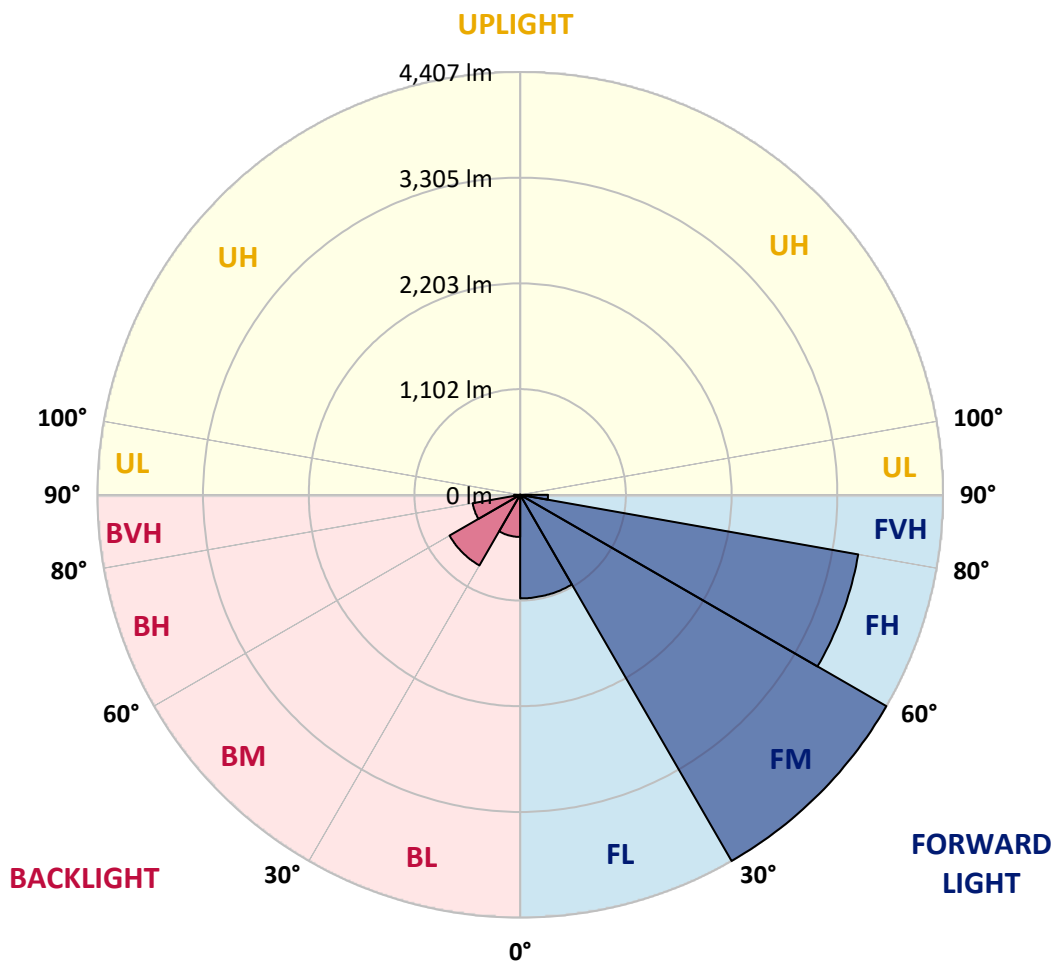
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1079.5	9.6			
FM	(30°-60°)	4406.9	39.3			
FH	(60°-80°)	3578.0	31.9			G2/5000
FVH	(80°-90°)	290.8	2.6			G3/500
BL	(0°-30°)	438.9	3.9	B1/500		
BM	(30°-60°)	850.0	7.6	B1/1000		
BH	(60°-80°)	502.9	4.5	B2/1000		G2/1000
BVH	(80°-90°)	63.3	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6
2.5°	3935.5	3998.3	4121.0	4212.7	4324.4	4350.1	4385.9	4350.9	4288.5	4206.0	4178.8
5°	3700.6	3835.0	4132.7	4394.5	4627.4	4736.0	4766.0	4676.8	4496.1	4259.0	4114.1
7.5°	3324.1	3515.1	3918.1	4303.9	4647.2	4849.9	4845.0	4637.3	4305.1	3918.8	3686.5
10°	2999.4	3217.5	3679.6	4111.1	4475.3	4671.8	4596.0	4330.4	3934.1	3489.2	3237.2
12.5°	2817.5	3031.4	3500.3	3933.6	4237.9	4305.8	4247.8	3987.8	3614.3	3164.5	2943.8
15°	2786.2	3020.9	3428.8	3781.3	3952.1	3892.9	3823.8	3707.3	3443.7	3059.6	2829.8
17.5°	2922.2	3181.1	3510.8	3675.3	3646.4	3543.5	3523.7	3536.6	3473.1	3176.1	2911.1
20°	3183.6	3494.1	3706.1	3625.4	3414.1	3272.3	3277.2	3475.1	3663.0	3471.4	3168.9
22.5°	3550.2	3904.7	3987.8	3651.9	3316.1	3147.8	3188.5	3509.0	3965.6	3902.7	3516.3
25°	4024.8	4347.6	4287.9	3748.1	3326.0	3163.2	3195.9	3626.1	4323.1	4334.1	3946.6
27.5°	4484.5	4784.1	4539.9	3875.6	3366.6	3199.7	3242.7	3810.3	4664.4	4802.5	4438.3
30°	4843.1	5051.4	4639.7	3992.1	3446.6	3270.5	3324.1	3985.3	4819.8	5118.6	4816.6
32.5°	5140.2	5289.8	4798.7	4136.2	3593.9	3381.9	3476.4	4197.9	5043.4	5419.4	5187.1
35°	5519.7	5562.3	4996.6	4297.1	3821.4	3576.2	3693.2	4406.2	5256.6	5723.1	5551.9
37.5°	5964.7	5909.9	5183.3	4517.1	4115.3	3879.9	3976.6	4634.9	5432.3	6067.6	5924.7
40°	6404.7	6272.9	5417.5	4858.6	4544.3	4237.9	4352.6	4878.9	5596.3	6412.7	6288.9
42.5°	6778.8	6583.5	5648.6	5233.9	4943.6	4633.0	4769.8	5124.8	5752.7	6707.4	6605.0
45°	7055.5	6812.7	5868.5	5594.4	5493.9	5158.1	5222.7	5406.4	5922.3	6953.2	6865.0
47.5°	7302.6	7043.3	6117.5	5958.0	5975.3	5840.9	5736.8	5734.2	6121.9	7154.1	7111.0
50°	7633.5	7363.0	6385.1	6332.6	6697.5	6608.1	6378.2	6117.0	6374.6	7382.1	7377.2
52.5°	8089.5	7869.6	6711.6	6736.3	7371.6	7430.2	7145.5	6576.8	6770.2	7800.5	7771.0
55°	8628.8	8500.7	7156.5	7200.4	8198.7	8240.5	7957.6	7151.6	7351.9	8406.2	8324.4
57.5°	9049.7	9022.5	7644.7	7757.5	8816.1	9004.7	8744.7	7817.2	8007.6	8916.5	8710.8
60°	9217.2	9348.7	8164.2	8319.5	9387.4	9596.4	9368.3	8402.0	8588.8	9127.9	8684.3
62.5°	9126.7	9420.0	8717.5	8704.5	9514.9	9740.0	9579.6	8727.5	9019.5	8909.7	8244.9
65°	8708.3	9163.2	9038.7	8605.5	9078.7	9097.1	9045.5	8582.0	9121.2	8220.2	7395.7
67.5°	7796.8	8451.3	8615.9	7755.0	7901.6	7781.5	7694.5	7785.8	8591.2	7186.8	6215.6
70°	6350.5	7335.3	7414.3	6202.5	6136.1	6055.4	5882.1	6383.1	7545.5	5890.1	4931.9
72.5°	4669.4	5704.6	5946.9	4549.1	4241.1	4257.6	4121.0	4810.6	6134.9	4375.5	3682.2
75°	3194.6	4130.8	4652.7	3174.3	2804.6	2811.3	2794.1	3408.4	4886.3	3043.6	2755.3
77.5°	2333.7	2951.2	3509.0	2134.2	2071.9	2033.7	2024.4	2384.9	3746.2	2209.9	2139.7
80°	1872.7	2180.2	2357.2	1479.0	1590.5	1587.5	1536.3	1639.9	2446.5	1616.4	1600.4
82.5°	1299.0	1675.6	1909.7	1159.2	1073.6	1055.7	1067.9	1221.4	1729.1	1104.9	1050.7
85°	685.2	1113.0	1891.3	1027.3	637.2	508.4	632.2	1000.3	1498.2	585.4	512.8
87.5°	87.6	321.8	1252.2	409.7	251.4	135.6	300.2	563.2	961.9	119.6	104.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6
2.5°	4109.1	4027.2	3920.1	3820.9	3717.8	3615.6	3481.8	3398.0	3340.1	3328.9	3304.3
5°	4009.3	3736.9	3531.1	3353.1	3191.6	2963.6	2837.2	2732.5	2676.4	2670.8	2657.2
7.5°	3549.1	3173.2	2895.1	2643.2	2414.5	2230.2	2026.8	1932.0	1893.2	1902.4	1911.7
10°	3070.1	2649.9	2330.7	2073.1	1871.6	1716.3	1553.0	1442.7	1366.2	1350.8	1347.7
12.5°	2720.2	2259.1	1949.2	1767.4	1611.5	1465.5	1292.3	1162.2	1063.1	1029.2	1006.3
15°	2572.2	2068.2	1743.4	1547.4	1375.5	1190.0	1029.2	892.9	801.7	772.2	755.6
17.5°	2603.6	2015.2	1601.7	1350.8	1130.8	937.3	734.5	618.2	563.2	549.0	549.0
20°	2768.8	2005.2	1484.5	1169.7	895.4	671.2	504.7	438.2	420.2	418.4	423.5
22.5°	3000.6	2039.8	1397.0	1012.5	695.7	489.9	393.2	368.6	360.5	362.3	367.9
25°	3345.6	2156.3	1333.5	872.7	546.0	401.3	350.7	335.8	332.2	337.1	344.0
27.5°	3754.8	2272.7	1294.2	767.2	461.0	366.7	333.5	318.0	320.4	326.7	332.8
30°	4114.1	2368.3	1231.8	692.1	434.5	368.6	333.5	312.4	309.9	311.3	313.1
32.5°	4436.4	2433.0	1159.2	620.5	374.8	327.3	311.3	308.1	294.6	289.7	290.2
35°	4714.3	2433.0	1115.4	578.7	335.8	290.2	264.5	249.0	242.3	242.8	249.5
37.5°	4982.4	2384.3	1093.9	555.2	314.9	276.0	253.3	239.7	230.4	228.6	229.8
40°	5219.1	2313.4	1069.3	545.5	298.9	267.4	245.9	234.7	224.9	221.8	222.5
42.5°	5408.9	2256.2	1042.0	532.4	289.1	261.2	240.9	231.1	220.1	216.9	216.3
45°	5614.0	2237.0	1006.3	506.6	293.9	261.9	239.7	229.2	218.2	214.4	213.2
47.5°	5884.6	2296.7	969.5	475.7	304.4	265.0	241.6	229.2	217.5	214.4	213.2
50°	6225.4	2437.3	922.5	430.7	293.9	273.7	240.9	227.5	217.5	214.4	212.0
52.5°	6663.0	2627.2	860.9	378.9	287.7	294.6	239.7	223.7	214.4	210.2	205.8
55°	7194.7	2782.4	787.5	336.4	273.7	289.1	238.0	219.4	209.6	203.3	199.7
57.5°	7584.3	2838.5	693.3	308.7	254.0	279.8	235.4	213.8	203.3	198.4	193.6
60°	7507.2	2729.9	613.8	291.5	242.3	252.7	233.6	208.9	197.8	194.2	189.8
62.5°	6890.4	2446.5	562.7	283.4	234.7	230.4	235.4	203.9	192.9	189.3	187.9
65°	5965.4	2028.2	542.2	281.6	228.6	217.5	218.7	198.4	187.3	184.2	183.1
67.5°	4920.7	1636.8	524.4	287.7	220.7	208.2	202.1	191.0	181.7	178.8	176.2
70°	3880.6	1361.3	516.4	284.1	210.7	199.1	192.2	183.1	175.0	171.9	170.0
72.5°	3125.1	1149.9	512.2	280.5	197.8	186.7	180.6	172.6	163.9	162.8	160.8
75°	2644.3	904.1	468.9	268.8	183.1	171.9	167.7	160.2	151.6	151.6	150.3
77.5°	2039.8	653.8	390.0	238.0	167.7	155.2	151.6	146.1	136.3	138.0	137.4
80°	1506.7	426.4	305.1	197.2	148.5	136.8	134.9	129.4	118.9	121.5	121.5
82.5°	1032.2	279.8	219.4	161.4	126.9	115.8	115.8	110.3	98.6	99.8	103.6
85°	518.2	192.2	163.9	125.1	98.6	93.1	93.1	88.8	77.1	77.7	82.6
87.5°	157.7	115.8	108.4	89.3	70.8	69.7	66.6	63.5	56.1	55.4	58.5
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°	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6
2.5°	3266.7	3231.7	3189.2	3095.5	3063.9	3062.1	3090.4	3061.0	3117.7	3093.7	3120.2
5°	2634.5	2600.0	2552.5	2433.0	2360.2	2311.0	2287.5	2218.5	2268.4	2232.1	2262.3
7.5°	1937.6	1945.5	1914.1	1843.9	1685.5	1606.0	1559.1	1517.1	1553.6	1549.8	1607.7
10°	1361.9	1383.5	1361.3	1290.4	1162.2	1118.5	1127.2	1143.8	1191.2	1215.9	1305.2
12.5°	980.5	979.2	965.0	901.5	817.2	822.0	857.3	886.2	929.9	955.7	1047.1
15°	732.1	721.0	714.8	663.0	615.0	625.5	642.7	645.8	673.5	689.0	762.9
17.5°	553.4	558.9	565.8	528.7	492.5	485.7	472.1	455.4	463.4	466.5	503.5
20°	439.5	461.5	478.2	452.3	415.3	395.7	378.4	367.2	367.2	366.7	377.2
22.5°	383.9	399.9	417.8	399.9	366.7	349.4	339.6	330.9	329.7	329.7	339.6
25°	353.8	365.4	382.7	370.5	345.7	332.8	323.5	312.4	308.1	307.0	313.7
27.5°	338.9	344.0	352.4	341.4	320.4	314.2	311.8	302.0	296.4	293.3	300.2
30°	313.7	312.4	313.1	302.0	285.3	284.8	289.1	291.0	289.1	288.4	298.9
32.5°	290.2	287.7	287.2	277.2	261.9	258.3	261.9	265.5	269.9	276.0	288.4
35°	260.7	266.8	270.5	261.9	243.4	232.3	228.0	221.3	217.5	217.5	231.8
37.5°	237.2	251.4	256.9	249.0	228.6	213.2	205.8	204.6	205.3	207.7	221.3
40°	229.2	239.7	244.7	236.7	216.3	202.1	197.8	196.5	197.8	201.5	215.1
42.5°	224.2	231.8	231.1	221.3	204.6	194.8	192.2	191.0	192.2	196.0	210.7
45°	220.1	224.9	220.1	208.2	192.9	187.9	188.6	187.9	189.3	192.9	207.1
47.5°	216.3	218.2	212.0	200.3	184.2	183.1	185.5	187.3	188.6	191.7	206.4
50°	210.7	210.7	205.3	192.9	176.8	177.4	180.6	185.0	185.5	189.3	201.0
52.5°	203.9	203.3	199.7	187.9	170.7	172.6	172.6	177.4	178.8	183.1	195.3
55°	198.4	197.2	195.3	184.2	165.2	168.3	166.4	168.3	171.3	175.6	189.3
57.5°	193.6	191.0	191.0	181.2	160.8	162.1	157.7	160.2	163.9	167.7	181.7
60°	188.6	186.0	187.3	176.8	154.1	152.8	150.9	155.9	157.2	161.4	175.6
62.5°	183.1	181.2	181.7	171.9	149.1	146.1	146.1	150.3	150.9	157.2	170.7
65°	178.8	176.2	175.6	167.1	143.5	139.9	141.8	143.5	144.8	150.9	163.9
67.5°	174.5	169.5	169.5	162.8	137.4	133.8	137.4	136.8	138.7	144.2	154.7
70°	168.8	162.1	162.8	159.5	131.2	126.9	130.1	129.4	130.7	134.3	144.8
72.5°	160.2	154.7	155.9	154.7	125.1	118.9	120.2	120.2	120.2	123.2	134.3
75°	149.1	144.8	148.5	151.6	117.7	109.1	110.3	110.3	108.4	110.3	123.8
77.5°	135.6	133.0	145.4	141.2	109.1	98.6	98.6	97.3	93.7	96.1	110.9
80°	120.8	118.9	134.3	118.3	99.3	85.7	84.4	81.3	77.7	79.5	94.3
82.5°	105.5	103.6	112.7	90.5	85.7	70.8	67.8	62.3	58.5	60.4	73.9
85°	86.2	86.2	86.9	68.5	65.3	54.3	50.6	43.2	38.8	40.1	53.0
87.5°	61.7	63.5	58.5	46.8	38.8	30.3	27.8	23.4	19.8	22.7	27.8
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°	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6
2.5°	3255.6	3323.5	3400.5	3499.1	3583.5	3722.1	3855.3	3935.5
5°	2434.1	2547.0	2687.5	2868.1	3036.4	3289.0	3539.9	3700.6
7.5°	1742.2	1862.9	2014.4	2240.2	2478.0	2800.2	3131.9	3324.1
10°	1441.4	1565.2	1692.9	1845.1	2039.8	2390.5	2782.4	2999.4
12.5°	1192.5	1324.9	1462.4	1622.6	1803.2	2116.1	2568.0	2817.5
15°	912.7	1060.5	1222.7	1425.4	1651.5	2013.3	2515.0	2786.2
17.5°	625.5	790.7	989.8	1239.9	1516.6	1980.0	2609.8	2922.2
20°	430.7	550.9	763.5	1056.9	1389.7	1975.7	2792.2	3183.6
22.5°	360.5	414.1	569.4	888.7	1294.2	2028.7	3075.1	3550.2
25°	333.5	365.4	454.8	742.5	1224.5	2150.7	3464.7	4024.8
27.5°	317.5	346.3	413.0	647.0	1169.7	2292.5	3843.6	4484.5
30°	323.5	353.2	401.3	598.5	1095.0	2410.8	4180.1	4843.1
32.5°	291.5	304.4	344.0	555.2	1041.5	2510.0	4474.6	5140.2
35°	248.3	271.2	307.0	534.9	1042.8	2576.6	4795.7	5519.7
37.5°	236.7	259.4	285.3	527.6	1056.9	2647.5	5164.3	5964.7
40°	229.2	250.2	272.4	523.3	1070.4	2712.2	5525.4	6404.7
42.5°	224.2	243.4	271.2	508.4	1077.2	2770.1	5822.4	6778.8
45°	223.7	243.4	276.0	493.6	1087.7	2832.3	6071.4	7055.5
47.5°	224.2	251.4	266.8	475.7	1087.7	2936.5	6363.5	7302.6
50°	221.8	265.0	256.9	450.5	1062.4	3133.6	6764.0	7633.5
52.5°	220.7	263.2	238.0	411.7	1018.7	3446.6	7277.3	8089.5
55°	217.5	254.0	224.2	353.8	967.6	3788.2	7827.0	8628.8
57.5°	214.4	224.9	216.9	303.2	888.7	4028.4	8205.5	9049.7
60°	240.3	196.5	210.7	278.6	783.2	4094.5	8190.7	9217.2
62.5°	222.5	184.2	202.7	273.1	709.3	3909.6	7812.3	9126.7
65°	174.5	176.2	194.8	289.1	689.5	3419.6	7141.7	8708.3
67.5°	159.5	168.3	186.7	309.3	691.4	2738.0	6139.7	7796.8
70°	150.3	159.5	177.4	319.8	696.4	2040.9	4854.3	6350.5
72.5°	139.9	148.0	167.1	321.8	664.3	1482.7	3741.4	4669.4
75°	127.6	134.9	152.3	280.5	550.3	1028.5	2861.9	3194.6
77.5°	113.4	118.9	133.8	216.3	408.5	658.2	2148.2	2333.7
80°	96.7	99.8	112.2	158.5	279.8	411.7	1699.7	1872.7
82.5°	77.7	79.0	86.9	118.9	181.7	264.5	1138.2	1299.0
85°	54.8	54.8	59.7	86.2	123.8	167.7	618.2	685.2
87.5°	26.0	26.5	26.5	47.4	64.7	85.0	142.3	87.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)