

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: P269571

Luminaire Tested: **GLEON-AF-08-LED-E1-SLL-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269571
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-08-LED-E1-SLL-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 29427.8 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

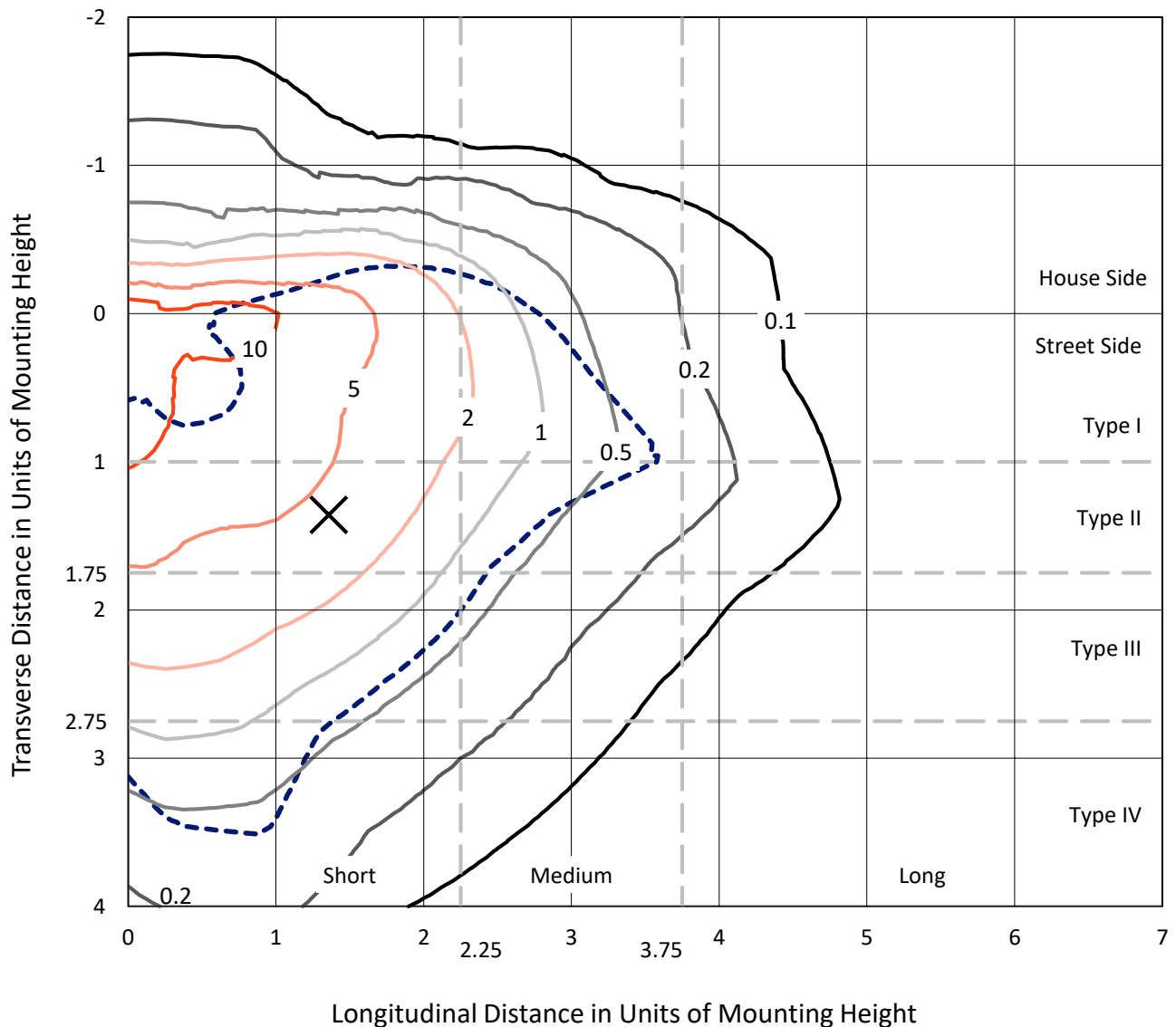
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

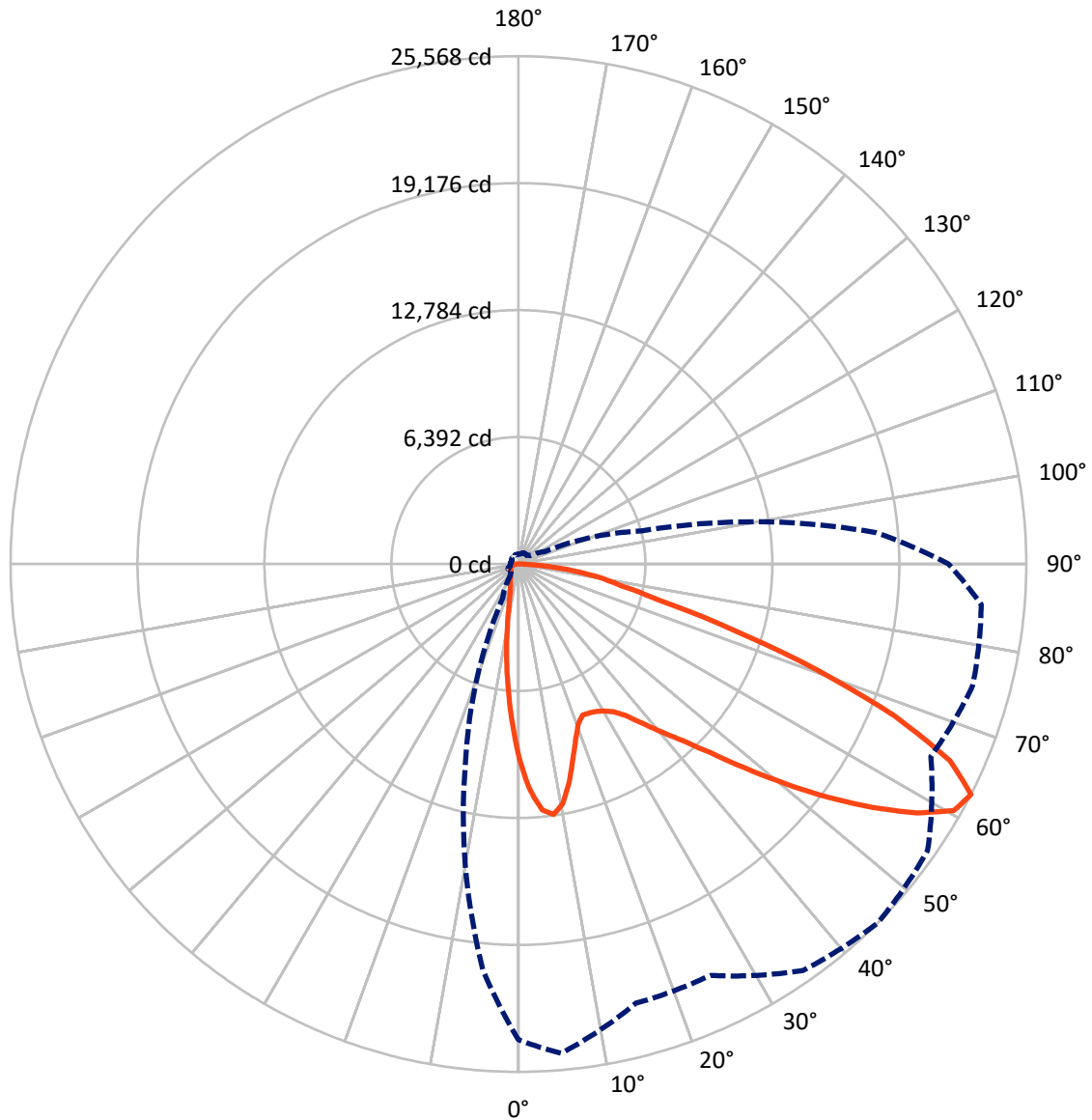
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 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	4869.9	0.0	4869.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	24557.9	0.0	24557.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	29427.8	0.0	29427.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	723.8	2.5
10°-20°	1327.2	4.5
20°-30°	1935.0	6.6
30°-40°	2980.2	10.1
40°-50°	4386.1	14.9
50°-60°	6433.4	21.9
60°-70°	7191.6	24.4
70°-80°	3520.9	12.0
80°-90°	929.6	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°	29427.8	100.0
0°-180°	29427.8	100.0



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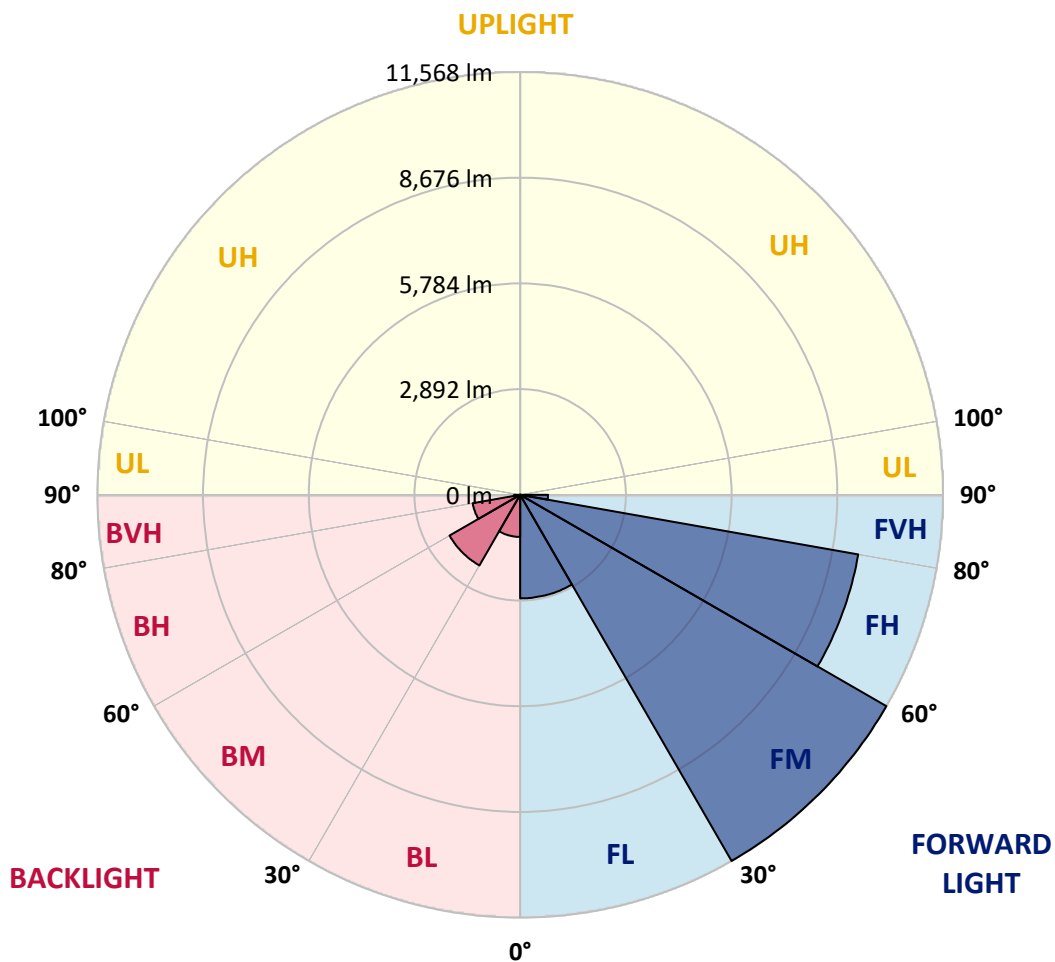
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2833.8	9.6			
FM	(30°-60°)	11568.3	39.3			
FH	(60°-80°)	9392.3	31.9			G4/12000
FVH	(80°-90°)	763.4	2.6			G5
BL	(0°-30°)	1152.1	3.9	B3/2500		
BM	(30°-60°)	2231.4	7.6	B2/2500		
BH	(60°-80°)	1320.2	4.5	B3/2500		G3/2500
BVH	(80°-90°)	166.2	0.6			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4
2.5°	10330.5	10495.5	10817.5	11058.5	11351.3	11419.3	11513.0	11420.8	11257.5	11040.7	10969.6
5°	9714.2	10066.9	10848.2	11535.8	12147.2	12432.0	12511.1	12276.5	11802.7	11179.8	10799.7
7.5°	8725.7	9227.3	10285.2	11298.0	12199.0	12731.1	12718.3	12173.0	11301.1	10286.9	9677.0
10°	7873.3	8446.0	9659.1	10791.6	11747.7	12263.7	12064.6	11367.4	10327.3	9159.3	8497.6
12.5°	7396.0	7957.4	9188.5	10325.7	11124.8	11302.7	11150.8	10467.9	9487.7	8306.7	7727.7
15°	7313.6	7929.9	9000.7	9926.1	10374.2	10218.8	10037.8	9732.0	9039.6	8031.7	7428.4
17.5°	7671.0	8350.5	9215.9	9647.8	9571.8	9301.7	9249.8	9284.0	9117.3	8337.6	7641.9
20°	8356.9	9172.2	9728.7	9516.9	8962.0	8590.0	8602.9	9122.1	9615.5	9112.3	8318.1
22.5°	9319.5	10249.7	10467.9	9586.4	8704.8	8263.1	8369.9	9211.1	10409.7	10244.8	9230.5
25°	10565.1	11412.7	11255.9	9838.7	8730.6	8303.6	8389.4	9518.4	11348.1	11377.2	10359.7
27.5°	11771.8	12558.0	11917.5	10173.7	8837.3	8399.1	8512.2	10002.2	12244.3	12606.6	11650.6
30°	12713.4	13260.2	12179.5	10479.4	9047.6	8585.0	8725.7	10461.5	12651.9	13436.5	12643.9
32.5°	13493.1	13886.2	12596.9	10858.0	9434.3	8877.9	9125.3	11019.7	13239.1	14225.9	13616.0
35°	14489.7	14601.2	13116.2	11280.0	10031.3	9387.4	9694.8	11566.4	13798.9	15023.4	14573.7
37.5°	15657.5	15513.5	13606.4	11857.5	10802.8	10185.0	10438.9	12166.6	14259.9	15927.7	15552.4
40°	16812.6	16466.4	14221.1	12753.9	11928.9	11124.8	11425.7	12807.1	14690.3	16833.6	16508.4
42.5°	17794.5	17281.8	14827.8	13738.9	12977.0	12161.8	12520.8	13452.7	15101.0	17606.9	17338.4
45°	18520.8	17883.5	15405.3	14685.3	14421.7	13540.1	13709.8	14192.0	15546.0	18252.3	18021.0
47.5°	19169.6	18488.5	16058.7	15639.9	15685.0	15332.5	15058.9	15052.5	16070.0	18779.6	18666.4
50°	20038.2	19328.1	16760.8	16623.3	17581.0	17346.5	16743.0	16057.2	16733.3	19378.2	19365.3
52.5°	21235.4	20657.9	17618.2	17682.9	19350.7	19504.4	18757.0	17263.9	17771.9	20476.7	20399.0
55°	22650.9	22314.3	18786.2	18901.0	21521.7	21631.6	20889.1	18773.1	19298.9	22066.9	21851.7
57.5°	23755.7	23684.5	20067.3	20363.4	23142.6	23637.6	22954.8	20520.3	21020.2	23406.2	22865.9
60°	24195.7	24540.3	21431.0	21838.8	24642.1	25190.6	24592.0	22055.5	22545.7	23961.1	22796.4
62.5°	23957.8	24728.0	22883.8	22849.7	24977.1	25567.5	25147.0	22909.7	23676.4	23388.5	21643.0
65°	22859.4	24053.3	23726.6	22589.3	23831.8	23880.3	23744.4	22527.9	23943.3	21578.2	19413.8
67.5°	20467.0	22184.9	22616.8	20356.9	20742.0	20426.5	20198.4	20437.8	22552.0	18865.5	16315.9
70°	16670.2	19255.3	19462.4	16282.0	16107.2	15895.4	15440.7	16755.9	19806.9	15461.8	12946.4
72.5°	12257.3	14974.8	15610.7	11941.8	11133.0	11176.6	10817.5	12627.7	16104.0	11485.5	9665.7
75°	8386.0	10843.4	12213.5	8332.7	7362.1	7379.8	7334.7	8947.4	12826.5	7989.7	7232.7
77.5°	6126.3	7747.2	9211.1	5602.0	5438.7	5338.4	5314.2	6260.5	9833.8	5801.1	5616.7
80°	4916.2	5723.5	6187.6	3882.5	4175.2	4167.1	4032.9	4304.7	6422.3	4243.1	4201.2
82.5°	3410.1	4398.6	5013.3	3042.9	2818.1	2771.1	2803.4	3206.2	4539.2	2900.4	2758.2
85°	1798.9	2921.6	4964.7	2696.7	1672.6	1334.6	1659.8	2625.4	3932.6	1536.8	1345.9
87.5°	229.6	844.4	3287.2	1075.8	660.1	355.9	787.9	1478.6	2525.1	313.9	273.4
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°	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4
2.5°	10786.7	10571.6	10290.1	10029.7	9759.5	9491.0	9140.0	8919.9	8767.8	8738.7	8674.0
5°	10524.6	9809.6	9269.3	8801.9	8378.0	7779.4	7447.8	7172.7	7025.6	7011.0	6975.5
7.5°	9316.2	8329.4	7599.9	6938.2	6338.1	5854.4	5320.5	5071.4	4969.6	4993.8	5018.0
10°	8059.4	6956.0	6118.0	5441.9	4912.9	4505.3	4076.6	3787.0	3586.5	3546.0	3537.9
12.5°	7140.4	5930.4	5116.7	4639.6	4230.3	3846.8	3392.3	3051.0	2790.6	2701.6	2641.6
15°	6752.2	5428.9	4576.4	4062.0	3610.6	3123.8	2701.6	2344.0	2104.5	2026.9	1983.3
17.5°	6834.8	5289.8	4204.3	3546.0	2968.4	2460.5	1928.3	1622.6	1478.6	1441.4	1441.4
20°	7268.2	5264.0	3896.9	3070.3	2350.4	1761.7	1324.9	1150.2	1103.3	1098.4	1111.4
22.5°	7876.5	5354.5	3667.3	2657.8	1826.3	1286.1	1032.2	967.4	946.4	951.1	965.8
25°	8782.4	5660.3	3500.7	2290.7	1433.2	1053.2	920.5	881.6	872.0	884.9	902.6
27.5°	9856.6	5966.1	3397.1	2014.0	1210.0	962.5	875.2	834.7	841.3	857.3	873.5
30°	10799.7	6216.8	3233.8	1816.6	1140.5	967.4	875.2	820.2	813.7	816.9	821.8
32.5°	11645.6	6386.6	3042.9	1628.9	983.6	859.0	816.9	808.8	773.3	760.3	761.9
35°	12375.3	6386.6	2928.0	1519.0	881.6	761.9	694.0	653.5	635.7	637.3	655.1
37.5°	13079.0	6258.9	2871.4	1457.5	826.6	724.8	664.8	629.4	605.0	600.2	603.4
40°	13700.2	6072.8	2806.7	1431.7	784.6	702.0	645.4	616.3	590.5	582.5	584.0
42.5°	14198.4	5922.3	2735.5	1397.7	758.7	685.9	632.4	606.6	577.5	569.4	567.8
45°	14737.1	5872.2	2641.6	1329.8	771.6	687.6	629.4	601.8	572.7	563.0	559.7
47.5°	15447.3	6029.2	2544.5	1248.9	799.1	695.6	634.2	601.8	571.1	563.0	559.7
50°	16341.8	6398.0	2421.7	1130.7	771.6	718.3	632.4	597.0	571.1	563.0	556.5
52.5°	17490.4	6896.2	2259.9	994.9	755.5	773.3	629.4	587.2	563.0	551.6	540.3
55°	18886.4	7303.8	2067.4	883.3	718.3	758.7	624.4	576.0	550.0	533.9	524.2
57.5°	19908.9	7451.0	1819.8	810.5	666.5	734.5	617.9	561.4	533.9	520.8	507.9
60°	19706.6	7166.4	1611.2	765.1	635.7	663.3	613.2	548.3	519.3	509.6	498.2
62.5°	18087.4	6422.3	1477.0	744.2	616.3	605.0	617.9	535.5	506.4	496.7	493.3
65°	15659.2	5323.7	1423.5	739.2	600.2	571.1	574.2	520.8	491.8	483.6	480.5
67.5°	12917.2	4296.6	1376.7	755.5	579.1	546.8	530.5	501.4	477.2	469.2	462.6
70°	10186.6	3573.5	1355.6	745.8	553.3	522.5	504.7	480.5	459.5	451.3	446.5
72.5°	8203.3	3018.7	1344.4	736.0	519.3	490.1	473.9	452.9	430.3	427.1	422.3
75°	6941.6	2373.1	1231.0	705.3	480.5	451.3	440.0	420.5	397.9	397.9	394.7
77.5°	5354.5	1716.3	1024.0	624.4	440.0	407.7	397.9	383.3	357.5	362.3	360.7
80°	3955.2	1119.5	800.7	517.7	389.9	359.1	354.3	339.6	312.3	318.7	318.7
82.5°	2709.6	734.5	576.0	423.8	333.2	304.2	304.2	289.6	258.8	262.0	271.7
85°	1360.5	504.7	430.3	328.4	258.8	244.2	244.2	232.9	202.2	203.8	216.9
87.5°	414.1	304.2	284.8	234.5	185.9	182.7	174.7	166.6	147.2	145.5	153.7
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°	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4
2.5°	8575.3	8483.1	8371.6	8125.6	8043.2	8038.3	8112.8	8035.0	8183.9	8120.8	8190.3
5°	6915.6	6825.1	6700.5	6386.6	6195.7	6066.3	6004.8	5823.6	5954.7	5859.3	5938.5
7.5°	5086.1	5107.0	5024.5	4840.1	4424.3	4215.7	4092.8	3982.7	4078.1	4068.5	4220.5
10°	3575.1	3631.7	3573.5	3387.4	3051.0	2936.1	2958.7	3002.4	3127.0	3191.7	3426.2
12.5°	2573.7	2570.5	2533.3	2366.7	2145.1	2158.0	2250.3	2326.3	2441.1	2509.1	2748.5
15°	1921.8	1892.6	1876.5	1740.6	1614.4	1641.9	1687.2	1695.3	1768.1	1808.6	2002.7
17.5°	1452.6	1467.2	1485.1	1388.1	1292.5	1274.8	1239.1	1195.5	1216.6	1224.6	1321.6
20°	1153.5	1211.6	1255.3	1187.4	1090.4	1038.5	993.3	964.2	964.2	962.5	990.0
22.5°	1007.8	1049.8	1096.8	1049.8	962.5	917.2	891.4	868.8	865.4	865.4	891.4
25°	928.6	959.3	1004.6	972.2	907.5	873.5	849.3	820.2	808.8	805.6	823.3
27.5°	889.7	902.6	925.3	896.1	841.3	825.1	818.5	792.7	778.1	769.9	787.9
30°	823.3	820.2	821.8	792.7	748.9	747.4	758.7	763.6	758.7	757.1	784.6
32.5°	761.9	755.5	753.9	727.9	687.6	677.9	687.6	697.3	708.6	724.8	757.1
35°	684.2	700.5	710.2	687.6	639.0	609.9	598.5	580.8	571.1	571.1	608.2
37.5°	622.9	660.1	674.5	653.5	600.2	559.7	540.3	537.0	538.8	545.1	580.8
40°	601.8	629.4	642.2	621.2	567.8	530.5	519.3	516.0	519.3	529.0	564.6
42.5°	588.7	608.2	606.6	580.8	537.0	511.1	504.7	501.4	504.7	514.4	553.3
45°	577.5	590.5	577.5	546.8	506.4	493.3	495.1	493.3	496.7	506.4	543.6
47.5°	567.8	572.7	556.5	525.8	483.6	480.5	486.9	491.8	495.1	503.1	541.9
50°	553.3	553.3	538.8	506.4	464.2	466.0	473.9	485.4	486.9	496.7	527.3
52.5°	535.5	533.9	524.2	493.3	448.2	452.9	452.9	466.0	469.2	480.5	512.8
55°	520.8	517.7	512.8	483.6	433.5	441.6	436.8	441.6	449.7	461.0	496.7
57.5°	507.9	501.4	501.4	475.7	422.3	425.4	414.1	420.5	430.3	440.0	477.2
60°	495.1	488.6	491.8	464.2	404.4	401.3	396.3	409.3	412.5	423.8	461.0
62.5°	480.5	475.7	477.2	451.3	391.5	383.3	383.3	394.7	396.3	412.5	448.2
65°	469.2	462.6	461.0	438.5	376.8	367.1	372.1	376.8	380.2	396.3	430.3
67.5°	457.7	444.9	444.9	427.1	360.7	351.1	360.7	359.1	364.0	378.5	406.0
70°	443.3	425.4	427.1	419.0	344.6	333.2	341.4	339.6	343.0	352.7	380.2
72.5°	420.5	406.0	409.3	406.0	328.4	312.3	315.5	315.5	315.5	323.5	352.7
75°	391.5	380.2	389.9	397.9	308.9	286.3	289.6	289.6	284.8	289.6	325.1
77.5°	355.9	349.4	381.8	370.5	286.3	258.8	258.8	255.6	245.9	252.3	291.2
80°	317.0	312.3	352.7	310.6	260.5	224.8	221.6	213.5	203.8	208.6	247.6
82.5°	276.6	271.7	296.0	237.8	224.8	185.9	178.0	163.4	153.7	158.6	194.2
85°	226.5	226.5	228.1	179.7	171.4	142.3	132.7	113.2	101.9	105.1	139.1
87.5°	161.8	166.6	153.7	123.0	101.9	79.3	72.9	61.4	51.7	59.8	72.9
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4	9942.4
2.5°	8546.3	8724.2	8926.4	9185.2	9406.8	9770.9	10120.2	10330.5
5°	6389.9	6685.8	7054.7	7528.6	7970.3	8633.6	9292.0	9714.2
7.5°	4573.2	4890.3	5288.2	5880.2	6504.6	7350.7	8221.1	8725.7
10°	3783.8	4108.8	4443.7	4843.3	5354.5	6275.0	7303.8	7873.3
12.5°	3130.2	3478.0	3838.7	4259.4	4733.3	5555.1	6740.9	7396.0
15°	2395.8	2784.0	3209.5	3741.7	4335.4	5285.0	6601.7	7313.6
17.5°	1641.9	2075.4	2598.0	3254.7	3981.1	5197.7	6851.0	7671.0
20°	1130.7	1446.2	2004.3	2774.3	3647.8	5186.3	7329.7	8356.9
22.5°	946.4	1087.0	1494.7	2332.7	3397.1	5325.4	8072.2	9319.5
25°	875.2	959.3	1193.8	1949.3	3214.3	5645.7	9094.6	10565.1
27.5°	833.1	909.2	1083.8	1698.5	3070.3	6017.7	10089.6	11771.8
30°	849.3	927.0	1053.2	1570.7	2874.7	6328.4	10972.7	12713.4
32.5°	765.1	799.1	902.6	1457.5	2733.9	6588.8	11746.0	13493.1
35°	651.9	711.7	805.6	1404.1	2737.1	6763.5	12588.8	14489.7
37.5°	621.2	681.0	748.9	1384.7	2774.3	6949.6	13556.2	15657.5
40°	601.8	656.8	715.1	1373.4	2809.9	7119.4	14504.2	16812.6
42.5°	588.7	639.0	711.7	1334.6	2827.8	7271.5	15283.9	17794.5
45°	587.2	639.0	724.8	1295.7	2855.3	7434.9	15937.4	18520.8
47.5°	588.7	660.1	700.5	1248.9	2855.3	7708.3	16704.3	19169.6
50°	582.5	695.6	674.5	1182.4	2788.9	8225.9	17755.7	20038.2
52.5°	579.1	690.7	624.4	1080.7	2674.1	9047.6	19103.3	21235.4
55°	571.1	666.5	588.7	928.6	2539.8	9943.9	20546.3	22650.9
57.5°	563.0	590.5	569.4	795.9	2332.7	10574.8	21539.5	23755.7
60°	630.9	516.0	553.3	731.2	2056.1	10748.0	21500.7	24195.7
62.5°	584.0	483.6	532.2	716.7	1861.9	10262.5	20507.3	23957.8
65°	457.7	462.6	511.1	758.7	1810.2	8976.6	18747.4	22859.4
67.5°	419.0	441.6	490.1	812.1	1815.0	7187.3	16117.0	20467.0
70°	394.7	419.0	466.0	839.6	1828.1	5357.9	12742.5	16670.2
72.5°	367.1	388.2	438.5	844.4	1743.9	3892.1	9821.0	12257.3
75°	334.9	354.3	399.6	736.0	1444.6	2699.9	7512.5	8386.0
77.5°	297.7	312.3	351.1	567.8	1072.5	1727.7	5639.2	6126.3
80°	254.0	262.0	294.5	415.7	734.5	1080.7	4461.6	4916.2
82.5°	203.8	207.1	228.1	312.3	477.2	694.0	2987.9	3410.1
85°	144.0	144.0	156.9	226.5	325.1	440.0	1622.6	1798.9
87.5°	67.9	69.6	69.6	124.5	169.9	223.3	373.6	229.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)