

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: P269256

Luminaire Tested: **GLEON-AF-04-LED-E1-SLR-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269256  
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-04-LED-E1-SLR-7027-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20111.5 lumens  
Efficiency: N/A  
Efficacy: 78.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G4

Input Watts (W): 258  
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

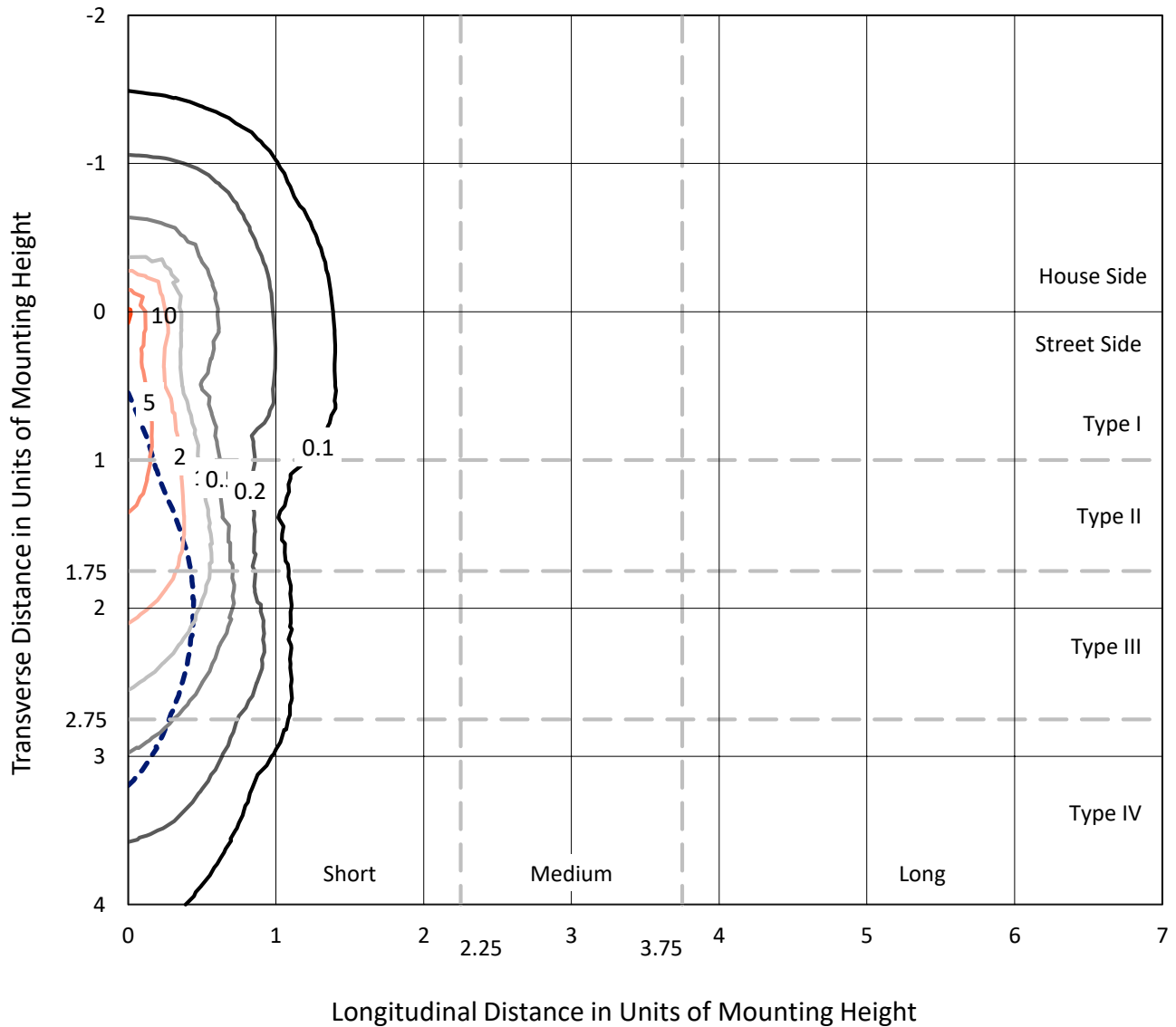


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

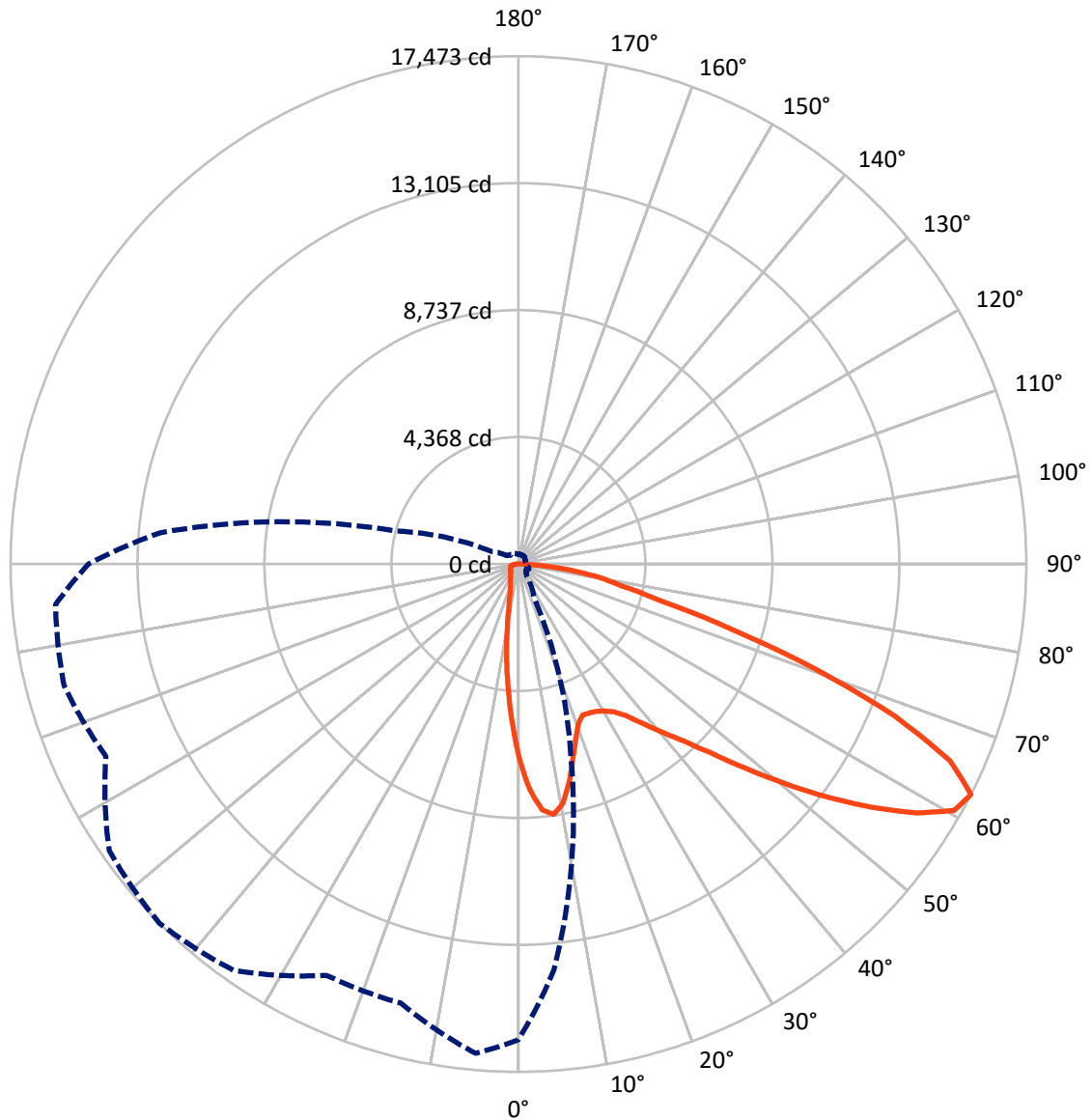


Based on 25 foot mounting height. Maximum calculated value = 10.9 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3328.2	0.0	3328.2
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	16783.4	0.0	16783.4
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	20111.5	0.0	20111.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	494.6	2.5
10°-20°	907.0	4.5
20°-30°	1322.4	6.6
30°-40°	2036.7	10.1
40°-50°	2997.5	14.9
50°-60°	4396.7	21.9
60°-70°	4914.9	24.4
70°-80°	2406.3	12.0
80°-90°	635.3	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°	20111.5	100.0
0°-180°	20111.5	100.0



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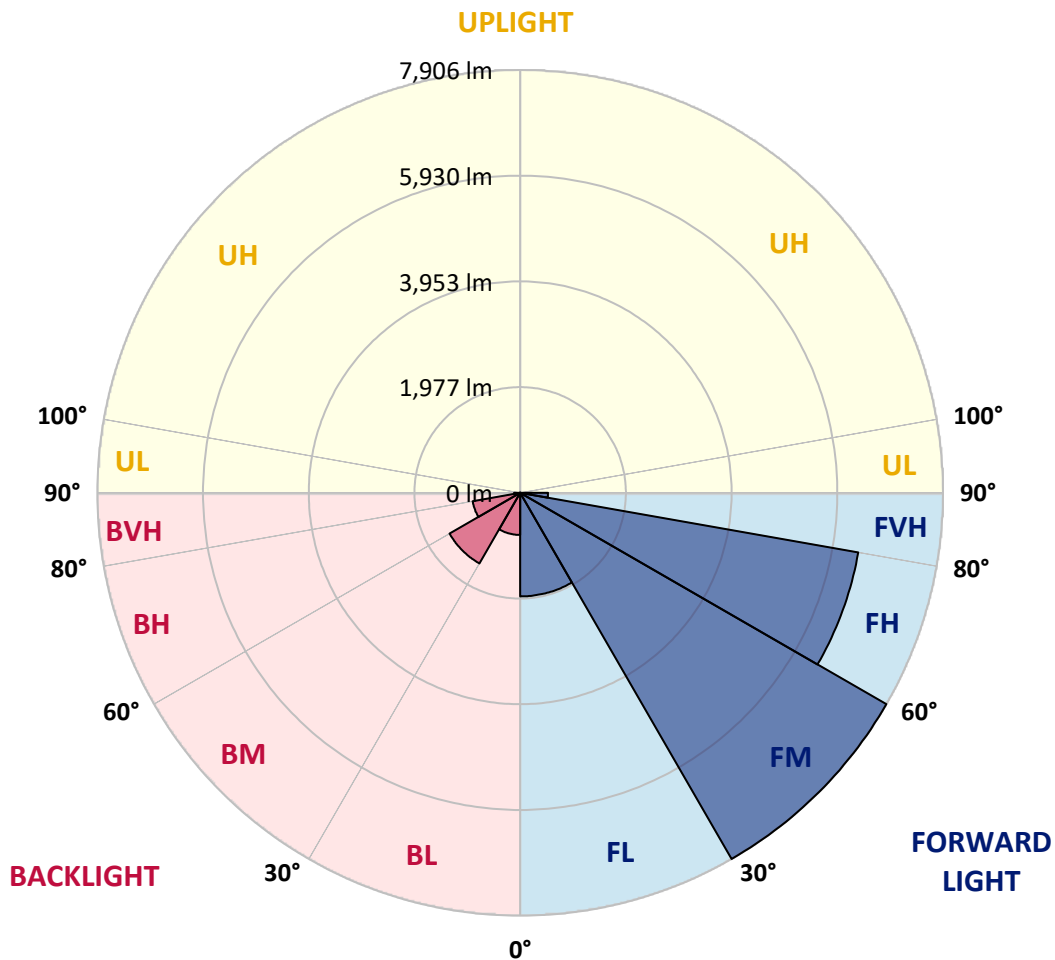
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1936.7	9.6			
FM (30°-60°)	7906.0	39.3			
FH (60°-80°)	6418.9	31.9			G3/7500
FVH (80°-90°)	521.7	2.6			G4/750
BL (0°-30°)	787.4	3.9	B2/1000		
BM (30°-60°)	1525.0	7.6	B2/2500		
BH (60°-80°)	902.3	4.5	B2/1000		G2/1000
BVH (80°-90°)	113.6	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8
2.5°	7060.0	6916.4	6677.6	6428.8	6277.4	6100.5	5962.3	5840.7	5597.5	5549.9	5592.9
5°	6638.8	6350.3	5900.3	5447.1	5145.2	4821.4	4569.3	4367.0	4058.5	4004.4	4069.5
7.5°	5963.4	5618.4	5023.6	4445.4	4018.7	3614.2	3342.1	3125.5	2884.4	2780.4	2787.1
10°	5380.8	4991.6	4288.5	3659.3	3310.1	3037.0	2808.1	2586.0	2341.6	2181.3	2137.1
12.5°	5054.7	4606.9	3796.4	3234.8	2911.0	2623.5	2376.9	2139.3	1878.4	1714.8	1668.3
15°	4998.2	4511.7	3611.8	2962.9	2557.1	2193.4	1902.7	1637.3	1368.7	1236.0	1208.4
17.5°	5242.6	4682.1	3552.2	2720.7	2224.5	1775.5	1418.5	1122.2	903.2	837.0	831.4
20°	5711.3	5009.3	3544.4	2493.1	1896.1	1369.7	988.3	772.8	676.7	657.7	658.8
22.5°	6369.2	5516.8	3639.6	2321.7	1594.2	1021.6	743.0	646.8	609.2	591.4	591.4
25°	7220.3	6215.5	3858.4	2196.7	1332.1	815.9	655.7	598.1	562.7	550.7	552.7
27.5°	8045.1	6895.4	4112.7	2098.4	1160.8	740.7	621.3	569.3	538.4	526.2	531.7
30°	8688.5	7499.1	4324.9	1964.6	1073.6	719.7	633.5	580.5	536.2	517.5	518.5
32.5°	9221.6	8027.4	4502.9	1868.4	996.1	616.9	546.2	523.0	517.5	495.2	484.2
35°	9902.5	8603.4	4622.4	1870.6	959.6	550.7	486.4	445.5	415.6	390.3	390.3
37.5°	10700.7	9264.6	4749.5	1896.1	946.4	511.9	465.4	424.4	397.0	372.5	368.1
40°	11490.1	9912.4	4865.6	1920.3	938.5	488.7	448.9	411.2	385.8	361.5	354.9
42.5°	12161.2	10445.3	4969.5	1932.6	912.0	486.4	436.7	402.4	378.0	351.5	344.9
45°	12657.6	10891.9	5081.2	1951.3	885.5	495.2	436.7	401.4	371.4	346.0	339.4
47.5°	13100.9	11416.0	5268.0	1951.3	853.5	478.6	451.0	402.4	370.3	343.8	338.3
50°	13694.5	12134.7	5621.8	1905.9	808.1	461.0	475.5	397.9	360.4	339.4	332.8
52.5°	14512.7	13055.5	6183.5	1827.5	738.4	426.8	472.1	395.9	350.5	328.3	320.6
55°	15480.0	14041.6	6795.9	1735.7	634.7	402.4	455.5	390.3	339.4	315.0	307.3
57.5°	16235.1	14720.5	7227.0	1594.2	544.0	389.1	403.5	384.7	326.2	300.8	294.0
60°	16535.8	14693.9	7345.4	1405.2	499.6	378.0	352.7	431.1	315.0	289.7	281.9
62.5°	16373.2	14015.1	7013.6	1272.4	489.8	363.8	330.5	399.0	306.2	281.9	270.8
65°	15622.7	12812.3	6134.7	1237.1	518.5	349.4	316.3	312.9	294.0	270.8	259.8
67.5°	13987.5	11014.7	4912.0	1240.4	555.1	335.0	301.8	286.3	277.4	258.7	248.7
70°	11392.8	8708.4	3661.6	1249.4	573.7	318.4	286.3	269.8	259.8	241.0	234.4
72.5°	8376.9	6711.9	2660.1	1191.8	577.2	299.7	265.3	250.9	241.0	221.2	215.7
75°	5731.1	5134.3	1845.2	987.2	503.1	273.1	242.2	228.9	222.2	197.8	194.6
77.5°	4186.7	3854.0	1180.7	732.9	388.1	239.8	213.3	203.5	199.1	172.5	168.1
80°	3359.8	3049.1	738.4	502.0	284.1	201.2	179.1	173.6	169.2	142.7	139.2
82.5°	2330.6	2041.9	474.2	326.2	213.3	155.9	141.6	139.2	132.7	108.3	105.0
85°	1229.4	1108.9	300.8	222.2	154.8	107.3	98.5	98.5	95.1	71.9	69.7
87.5°	157.1	255.4	152.5	116.2	85.1	47.5	47.5	46.4	49.8	41.0	35.4
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°	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8
2.5°	5491.2	5544.3	5493.6	5496.8	5553.2	5721.2	5797.5	5860.5	5928.1	5972.2	5992.1
5°	3980.0	4103.8	4145.9	4234.3	4364.8	4579.2	4664.4	4726.3	4767.1	4791.5	4801.4
7.5°	2721.9	2797.1	2881.0	3023.8	3307.7	3434.0	3490.3	3475.9	3429.4	3412.9	3396.3
10°	2051.9	2022.1	2006.5	2085.1	2315.0	2442.2	2481.9	2443.3	2417.9	2423.4	2451.0
12.5°	1589.8	1537.8	1474.7	1465.9	1617.4	1731.4	1756.7	1758.9	1805.4	1846.2	1907.1
15°	1158.6	1153.2	1122.2	1103.4	1189.5	1282.4	1293.5	1313.4	1355.5	1385.2	1438.4
17.5°	817.0	846.8	871.1	883.4	948.6	1014.9	1002.8	992.7	985.0	985.0	1010.5
20°	658.8	678.8	709.8	745.1	811.4	857.9	828.1	788.3	759.4	750.7	753.9
22.5°	593.7	609.2	626.8	657.7	717.4	749.5	717.4	688.8	660.1	650.1	646.8
25°	560.5	580.5	597.1	620.2	664.4	686.6	655.7	634.7	616.9	604.7	595.8
27.5°	541.7	559.5	563.9	574.8	612.5	632.3	616.9	608.1	597.1	586.0	574.8
30°	521.8	518.5	510.7	511.9	541.7	561.6	560.5	562.7	561.6	558.2	556.1
32.5°	476.6	469.9	463.3	469.9	497.5	515.2	516.3	520.7	520.7	519.6	528.5
35°	397.0	409.1	416.9	436.7	469.9	485.4	478.6	467.7	447.7	435.6	434.5
37.5°	367.0	369.3	382.5	410.2	446.6	461.0	451.0	425.6	412.4	410.2	413.5
40°	352.7	354.9	362.6	388.1	424.4	438.9	430.1	411.2	399.0	397.9	403.5
42.5°	342.8	344.9	349.4	367.0	397.0	414.6	415.6	402.4	388.1	389.1	394.6
45°	337.3	338.3	337.3	346.0	373.6	394.6	403.5	394.6	382.5	384.7	391.4
47.5°	336.1	332.8	328.3	330.5	359.3	380.3	391.4	388.1	382.5	384.7	390.3
50°	331.7	323.8	318.4	317.3	346.0	368.1	378.0	378.0	380.3	384.7	390.3
52.5°	318.4	309.6	309.6	306.2	337.3	358.2	364.8	365.9	369.3	377.0	384.7
55°	301.8	298.4	301.8	296.4	330.5	350.5	353.8	356.0	358.2	364.8	375.9
57.5°	287.5	283.1	290.7	288.5	325.0	342.8	342.8	347.1	347.1	356.0	364.8
60°	279.7	270.8	274.3	276.4	317.3	336.1	333.9	338.3	340.5	348.3	354.9
62.5°	269.8	262.0	262.0	267.5	308.5	326.2	325.0	328.3	337.3	339.4	346.0
65°	257.6	254.3	250.9	257.6	299.7	315.0	316.3	320.6	328.3	330.5	336.1
67.5°	245.4	246.6	239.8	246.6	291.9	304.0	304.0	312.9	316.3	320.6	326.2
70°	232.1	233.3	227.7	235.4	286.3	291.9	290.7	302.9	305.2	308.5	314.0
72.5°	215.7	215.7	213.3	224.4	277.4	279.7	277.4	287.5	288.5	291.9	294.0
75°	197.8	197.8	195.7	211.1	271.9	266.4	259.8	267.5	269.8	271.9	271.9
77.5°	174.7	176.8	176.8	195.7	253.1	260.9	238.8	243.3	246.6	247.7	244.2
80°	146.0	151.5	153.7	178.0	212.3	241.0	213.3	216.8	217.7	217.7	213.3
82.5°	111.7	121.6	127.1	153.7	162.6	202.3	185.7	189.1	185.7	179.1	176.8
85°	77.3	90.6	97.2	117.1	122.7	155.9	154.8	154.8	148.1	139.2	138.2
87.5°	42.0	49.8	54.2	69.7	84.0	105.0	113.8	110.5	105.0	99.5	100.6
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°	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8
2.5°	6096.1	6246.5	6486.3	6669.8	6854.4	7032.4	7224.8	7371.9	7496.7	7545.5	7693.5
5°	4902.1	5089.9	5316.6	5725.6	6015.3	6334.8	6704.1	7192.8	7380.7	7640.5	8066.2
7.5°	3465.9	3636.2	4001.1	4331.5	4741.8	5193.9	5692.5	6366.8	6613.4	7030.2	7723.4
10°	2588.0	2786.1	3079.0	3357.5	3719.2	4181.3	4753.9	5507.9	5807.5	6259.7	7058.0
12.5°	2085.1	2318.3	2629.0	2891.0	3170.7	3496.9	4053.0	4880.0	5281.2	5677.1	6484.1
15°	1601.9	1846.2	2134.8	2467.6	2776.0	3127.5	3710.3	4614.7	5076.7	5489.2	6177.9
17.5°	1108.9	1317.9	1681.5	2028.7	2423.4	2873.4	3615.1	4670.9	5222.7	5698.0	6231.0
20°	786.0	905.4	1204.0	1606.3	2098.4	2663.3	3597.5	4967.3	5684.7	6227.6	6571.5
22.5°	661.2	705.3	878.9	1248.1	1816.5	2506.4	3659.3	5383.0	6308.3	7001.5	7114.2
25°	602.6	629.1	719.7	979.5	1565.4	2392.5	3868.3	6002.0	7080.0	7775.4	7755.4
27.5°	570.5	598.1	657.7	827.0	1376.5	2321.7	4077.2	6736.2	7962.2	8615.6	8368.0
30°	560.5	598.1	661.2	779.4	1241.5	2210.0	4248.7	7380.7	8641.1	9182.7	8646.5
32.5°	552.7	558.2	587.0	672.2	1113.3	2079.5	4364.8	7959.0	9305.5	9722.3	9047.9
35°	446.6	474.2	520.7	602.6	1038.1	2001.1	4364.8	8457.5	9960.0	10267.3	9430.3
37.5°	430.1	454.5	495.2	564.9	996.1	1962.3	4277.4	8938.5	10628.8	10885.3	9745.5
40°	421.2	441.1	479.9	536.2	978.4	1918.2	4150.3	9362.9	11282.3	11504.5	10039.5
42.5°	414.6	432.3	468.7	518.5	955.2	1869.6	4047.5	9703.5	11849.4	12032.8	10320.4
45°	411.2	430.1	469.9	527.3	908.7	1805.4	4013.2	10071.6	12315.9	12474.0	10624.4
47.5°	411.2	433.4	475.5	546.2	853.5	1739.1	4120.4	10557.1	12757.0	12834.4	10982.6
50°	407.9	432.3	490.8	527.3	772.8	1654.9	4372.5	11168.4	13234.5	13243.5	11436.0
52.5°	401.4	430.1	528.5	516.3	679.8	1544.5	4713.0	11953.2	13941.1	13994.2	12145.7
55°	393.5	426.8	518.5	490.8	603.7	1412.9	4991.6	12907.3	14934.0	15080.9	13189.4
57.5°	383.7	422.4	502.0	455.5	553.9	1243.8	5092.2	13606.1	15627.0	15996.3	14365.7
60°	374.9	419.0	453.3	434.5	523.0	1101.1	4897.6	13467.8	15579.6	16375.6	15408.2
62.5°	365.9	422.4	413.5	421.2	508.6	1009.3	4389.1	12361.2	14791.2	15984.1	16181.0
65°	356.0	392.5	390.3	410.2	505.2	972.9	3638.3	10701.8	13267.7	14747.0	16363.3
67.5°	342.8	362.6	373.6	395.9	516.3	940.9	2936.4	8827.9	11150.7	12893.1	15412.6
70°	328.3	344.9	357.0	378.0	509.7	926.4	2442.2	6961.8	8847.8	10566.9	13536.5
72.5°	309.6	323.8	335.0	354.9	503.1	918.7	2063.0	5606.3	6605.6	7849.5	11005.9
75°	287.5	300.8	308.5	328.3	482.0	841.4	1621.9	4743.9	4943.0	5460.3	8766.0
77.5°	262.0	271.9	278.7	300.8	426.8	699.8	1172.9	3659.3	3838.5	3964.5	6720.7
80°	232.1	242.2	245.4	266.4	353.8	547.2	765.0	2703.1	2871.2	2899.9	4389.1
82.5°	197.8	207.9	207.9	227.7	289.7	393.5	502.0	1851.8	1885.0	1982.3	3102.1
85°	159.2	166.9	166.9	176.8	224.4	294.0	344.9	929.7	919.9	1050.3	2687.5
87.5°	113.8	119.5	125.0	127.1	160.3	194.6	207.9	283.1	186.8	214.4	1725.7
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):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8
2.5°	7805.3	7868.3	7804.1	7757.8	7557.6	7393.0	7172.8	7060.0
5°	8390.1	8550.3	8496.2	8301.6	7883.7	7413.9	6879.8	6638.8
7.5°	8319.4	8691.9	8700.8	8337.0	7721.2	7029.1	6306.1	5963.4
10°	7768.7	8245.3	8381.2	8028.5	7375.2	6601.3	5772.1	5380.8
12.5°	7154.0	7620.6	7724.5	7603.0	7056.7	6279.6	5438.2	5054.7
15°	6651.1	6859.9	6983.9	7090.0	6783.7	6151.4	5419.5	4998.2
17.5°	6344.8	6321.6	6356.9	6541.5	6593.6	6298.3	5706.9	5242.6
20°	6234.2	5879.3	5870.6	6124.9	6504.0	6648.9	6268.6	5711.3
22.5°	6295.1	5720.1	5647.1	5949.0	6551.6	7154.0	7004.9	6369.2
25°	6505.0	5733.4	5674.9	5966.7	6724.1	7692.5	7799.8	7220.3
27.5°	6835.7	5817.5	5740.1	6039.7	6952.8	8144.7	8582.4	8045.1
30°	7149.6	5963.4	5867.2	6183.5	7161.7	8323.8	9062.2	8688.5
32.5°	7531.1	6236.5	6067.3	6447.7	7420.4	8608.9	9490.1	9221.6
35°	7904.7	6625.5	6415.5	6855.5	7709.1	8963.8	9978.7	9902.5
37.5°	8314.9	7134.2	6960.5	7382.9	8103.7	9298.9	10602.2	10700.7
40°	8752.6	7808.5	7603.0	8152.4	8716.3	9718.9	11253.4	11490.1
42.5°	9193.9	8557.1	8311.6	8868.7	9389.5	10133.5	11810.6	12161.2
45°	9699.1	9369.6	9253.5	9856.1	10036.3	10528.2	12221.9	12657.6
47.5°	10287.2	10291.6	10478.5	10719.5	10688.6	10974.9	12635.4	13100.9
50°	10973.8	11442.5	11854.9	12015.2	11360.8	11454.6	13209.1	13694.5
52.5°	11798.5	12819.0	13329.7	13224.7	12084.9	12040.6	14118.0	14512.7
55°	12830.0	14276.0	14783.5	14708.4	12917.4	12838.8	15250.0	15480.0
57.5°	14024.0	15687.9	16154.4	15816.1	13916.7	13714.5	16186.5	16235.1
60°	15073.2	16806.7	17215.7	16841.0	14925.0	14646.4	16771.4	16535.8
62.5°	15656.9	17186.0	17473.3	17069.9	15616.0	15639.2	16899.5	16373.2
65°	15396.1	16227.4	16320.2	16287.1	15438.0	16215.2	16438.5	15622.7
67.5°	13967.7	13804.1	13959.9	14175.4	13912.3	15456.7	15161.7	13987.5
70°	11451.4	10552.6	10863.3	11008.0	11127.5	13300.9	13159.5	11392.8
72.5°	8629.9	7393.0	7638.3	7608.5	8161.2	10668.6	10234.1	8376.9
75°	6114.9	5012.6	5043.5	5031.3	5694.7	8347.1	7410.6	5731.1
77.5°	4278.4	3631.8	3648.3	3716.8	3828.5	6295.1	5294.5	4186.7
80°	2941.9	2756.2	2847.9	2853.5	2653.4	4228.7	3911.5	3359.8
82.5°	2191.2	1915.9	1893.8	1925.8	2079.5	3426.1	3006.0	2330.6
85°	1794.4	1134.3	912.0	1143.2	1843.0	3393.0	1996.7	1229.4
87.5°	1010.5	538.4	243.3	451.0	735.3	2246.5	577.2	157.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)