

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: P193887

Luminaire Tested: **GLEON-AF-09-LED-E1-SLR-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193887  
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-09-LED-E1-SLR-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3000K, 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: 41862 lumens  
Efficiency: N/A  
Efficacy: 72.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 575  
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

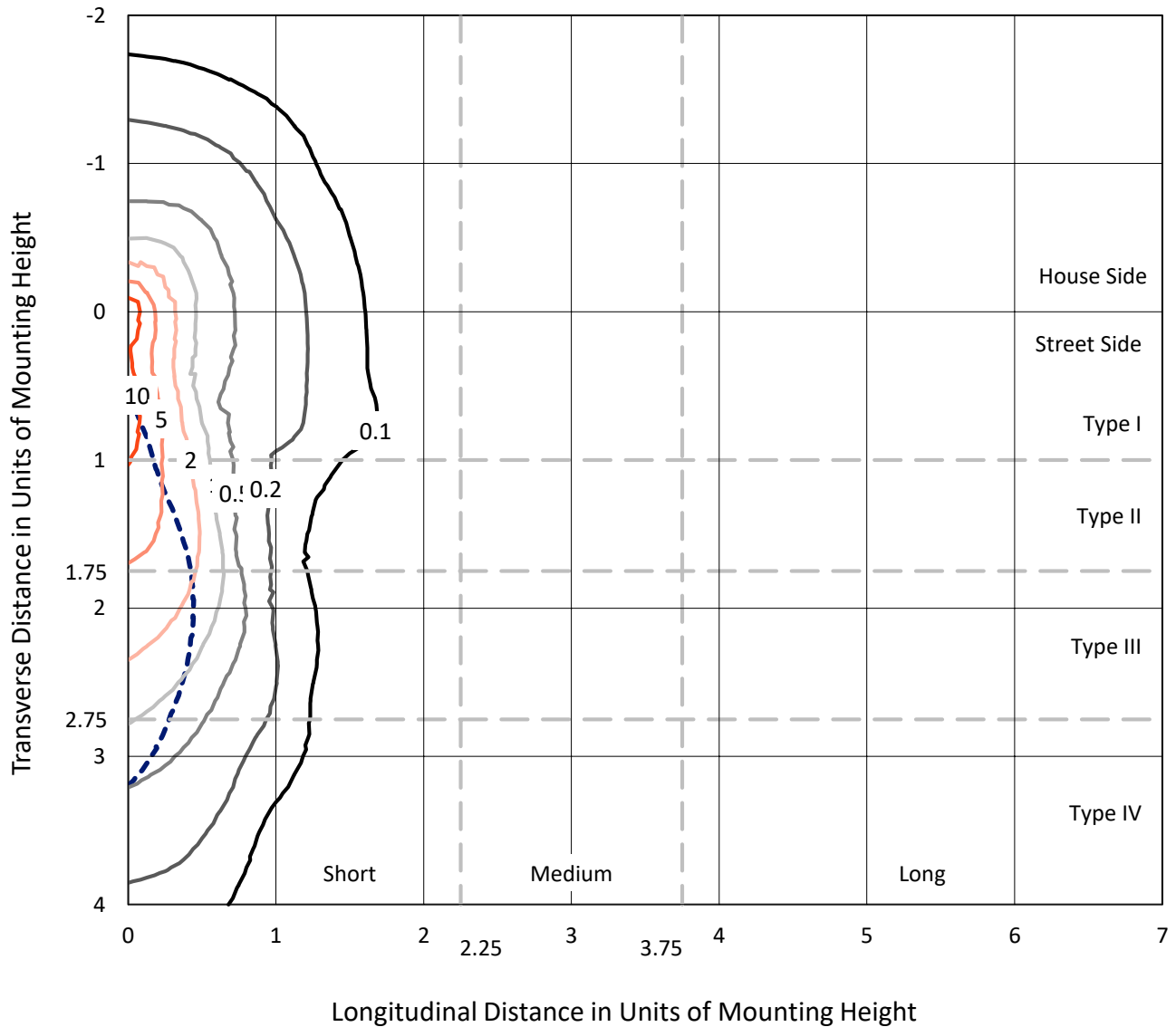


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

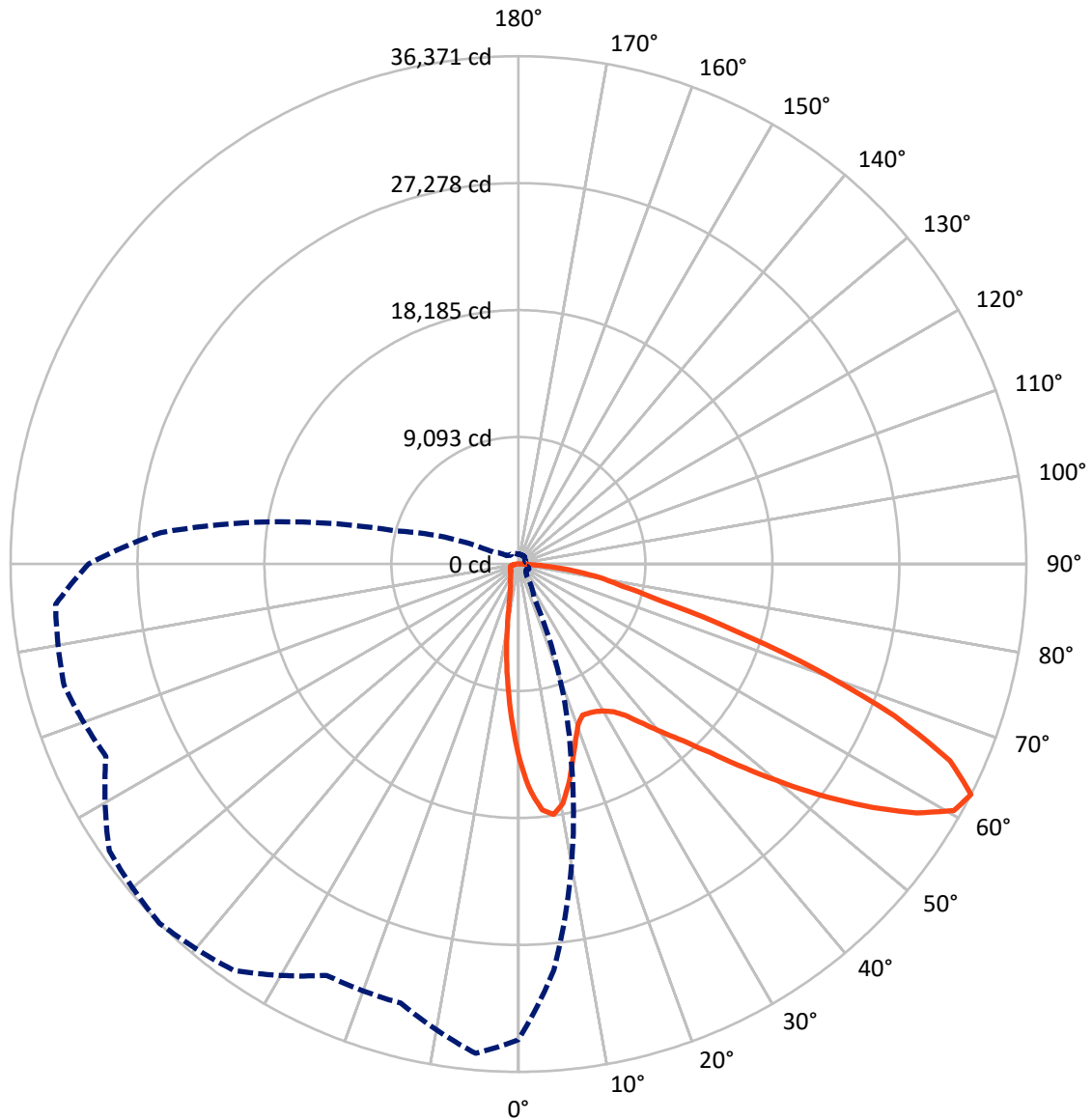


Based on 30 foot mounting height. Maximum calculated value = 15.7 fc  
 Type IV - Short - Non-Cutoff

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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	6927.6	0.0	6927.6
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	34934.4	0.0	34934.4
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	41862.0	0.0	41862.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1029.6	2.5
10°-20°	1887.9	4.5
20°-30°	2752.6	6.6
30°-40°	4239.4	10.1
40°-50°	6239.3	14.9
50°-60°	9151.7	21.9
60°-70°	10230.3	24.4
70°-80°	5008.6	12.0
80°-90°	1322.4	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°	41862.0	100.0
0°-180°	41862.0	100.0

**Coefficient of Utilization**



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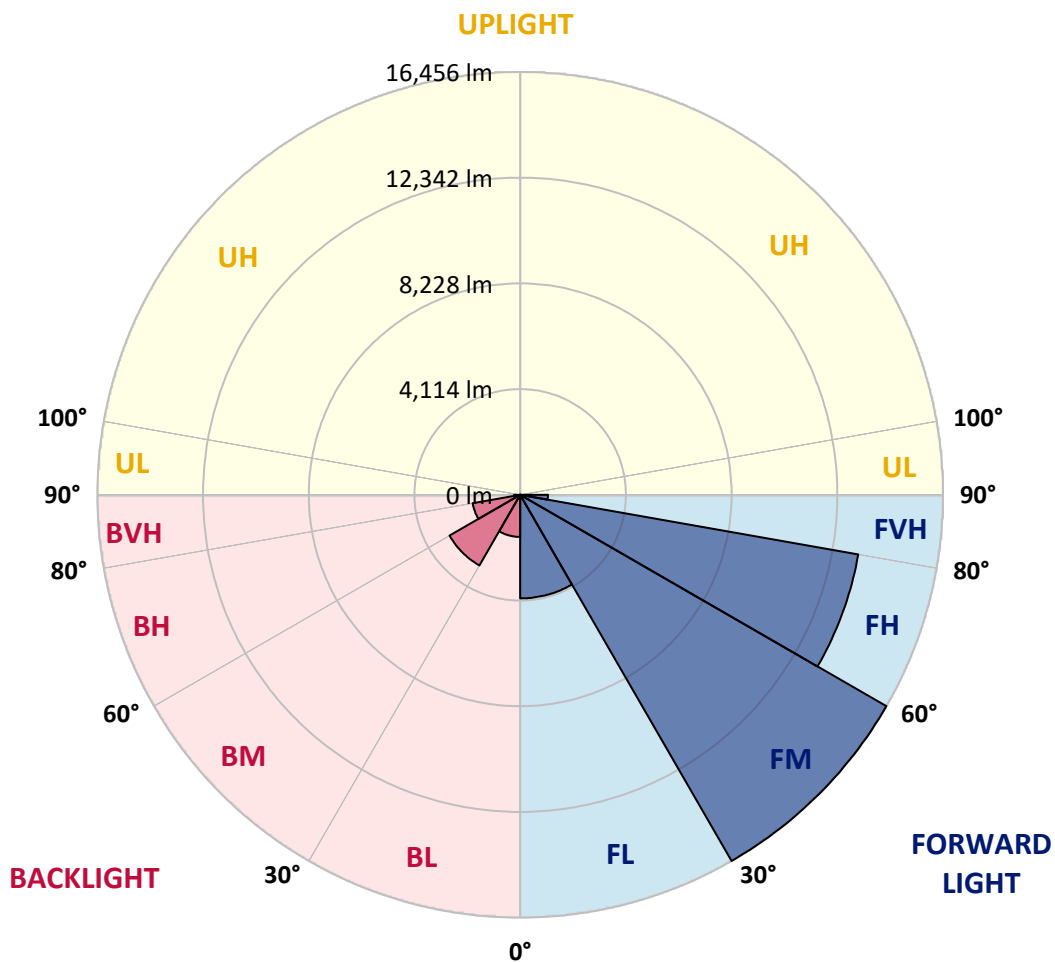
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4031.2	9.6			
FM	(30°-60°)	16456.3	39.3			
FH	(60°-80°)	13360.9	31.9			G5
FVH	(80°-90°)	1086.0	2.6			G5
BL	(0°-30°)	1639.0	3.9	B3/2500		
BM	(30°-60°)	3174.2	7.6	B3/5000		
BH	(60°-80°)	1878.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	236.4	0.6			G3/500
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°	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2
2.5°	14695.5	14396.4	13899.3	13381.5	13066.3	12698.1	12410.4	12157.3	11651.0	11552.1	11641.8
5°	13818.8	13218.2	12281.6	11338.1	10709.8	10035.6	9510.9	9089.8	8447.7	8335.0	8470.8
7.5°	12412.7	11694.8	10456.7	9253.2	8364.9	7522.7	6956.6	6505.5	6003.9	5787.5	5801.4
10°	11200.0	10390.0	8926.4	7617.0	6889.8	6321.4	5845.1	5382.5	4874.0	4540.3	4448.2
12.5°	10521.1	9589.1	7902.4	6733.3	6059.1	5460.8	4947.6	4452.8	3909.8	3569.2	3472.5
15°	10403.8	9391.2	7518.1	6167.2	5322.7	4565.6	3960.4	3408.1	2848.9	2572.8	2515.2
17.5°	10912.3	9745.6	7393.8	5663.3	4630.0	3695.7	2952.5	2335.7	1880.1	1742.0	1730.5
20°	11888.1	10426.8	7377.7	5189.2	3946.6	2851.2	2057.3	1608.5	1408.3	1369.2	1371.5
22.5°	13257.3	11483.0	7575.6	4832.5	3318.3	2126.3	1546.4	1346.2	1268.0	1231.1	1231.1
25°	15029.2	12937.4	8031.2	4572.5	2773.0	1698.3	1364.6	1245.0	1171.3	1146.0	1150.6
27.5°	16745.9	14352.6	8560.5	4367.7	2416.3	1541.8	1293.3	1185.1	1120.7	1095.4	1106.9
30°	18085.2	15609.1	9002.3	4089.3	2234.5	1498.1	1318.6	1208.1	1116.1	1077.0	1079.3
32.5°	19194.4	16709.1	9372.8	3889.0	2073.4	1284.1	1136.8	1088.5	1077.0	1030.9	1007.9
35°	20611.9	17908.0	9621.4	3893.6	1997.5	1146.0	1012.5	927.4	865.3	812.3	812.3
37.5°	22273.4	19284.1	9886.0	3946.6	1969.8	1065.5	968.8	883.7	826.1	775.5	766.3
40°	23916.5	20632.7	10127.6	3997.2	1953.7	1017.1	934.3	856.1	803.1	752.5	738.7
42.5°	25313.3	21741.8	10343.9	4022.5	1898.5	1012.5	909.0	837.6	787.0	731.8	718.0
45°	26346.6	22671.5	10576.4	4061.6	1843.3	1030.9	909.0	835.3	773.2	720.3	706.5
47.5°	27269.3	23762.3	10965.3	4061.6	1776.5	996.4	938.9	837.6	770.9	715.7	704.2
50°	28505.1	25258.1	11701.7	3967.3	1682.2	959.6	989.5	828.4	750.2	706.5	692.7
52.5°	30208.0	27175.0	12870.7	3803.9	1537.2	888.3	982.6	823.8	729.5	683.5	667.4
55°	32221.5	29227.7	14145.5	3612.9	1320.9	837.6	948.1	812.3	706.5	655.8	639.7
57.5°	33793.3	30640.6	15043.0	3318.3	1132.2	810.0	839.9	800.8	678.9	625.9	612.1
60°	34419.2	30585.4	15289.2	2924.8	1040.1	787.0	734.1	897.5	655.8	602.9	586.8
62.5°	34080.9	29172.4	14598.9	2648.7	1019.4	757.1	688.1	830.7	637.4	586.8	563.8
65°	32518.4	26668.7	12769.4	2575.1	1079.3	727.2	658.1	651.2	612.1	563.8	540.8
67.5°	29114.9	22927.0	10224.3	2582.0	1155.2	697.3	628.2	596.0	577.6	538.5	517.8
70°	23714.0	18126.6	7621.6	2600.4	1194.3	662.7	596.0	561.5	540.8	501.7	487.9
72.5°	17436.3	13970.6	5536.7	2480.7	1201.2	623.6	552.3	522.4	501.7	460.2	448.7
75°	11929.5	10686.8	3840.7	2055.0	1047.1	568.4	504.0	476.4	462.5	411.9	405.0
77.5°	8714.7	8022.0	2457.7	1525.7	807.7	499.4	444.1	423.4	414.2	359.0	349.8
80°	6993.4	6346.7	1537.2	1044.7	591.4	418.8	372.8	361.3	352.1	296.9	290.0
82.5°	4851.0	4250.3	987.2	678.9	444.1	324.5	294.6	290.0	276.1	225.5	218.6
85°	2558.9	2308.1	625.9	462.5	322.2	223.2	204.8	204.8	197.9	149.6	145.0
87.5°	326.8	531.6	317.6	241.6	177.2	99.0	99.0	96.7	103.6	85.1	73.6
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2
2.5°	11430.1	11540.6	11434.7	11441.6	11559.0	11908.8	12067.5	12198.7	12339.1	12431.1	12472.6
5°	8284.4	8542.1	8629.5	8813.6	9085.2	9531.6	9708.8	9837.7	9922.8	9973.4	9994.2
7.5°	5665.6	5822.1	5997.0	6293.8	6885.2	7147.6	7264.9	7235.0	7138.4	7103.8	7069.3
10°	4271.0	4208.9	4176.7	4340.1	4818.7	5083.4	5166.2	5085.7	5032.7	5044.3	5101.8
12.5°	3309.1	3201.0	3069.8	3051.4	3366.7	3603.7	3656.6	3661.2	3757.9	3843.0	3969.6
15°	2411.7	2400.2	2335.7	2296.6	2476.1	2669.4	2692.4	2733.8	2821.3	2883.4	2993.9
17.5°	1700.6	1762.7	1813.4	1838.7	1974.4	2112.5	2087.2	2066.5	2050.4	2050.4	2103.3
20°	1371.5	1412.9	1477.4	1551.0	1689.1	1785.7	1723.6	1640.8	1580.9	1562.5	1569.4
22.5°	1235.7	1268.0	1304.8	1369.2	1493.5	1560.2	1493.5	1433.7	1373.8	1353.1	1346.2
25°	1166.7	1208.1	1242.7	1291.0	1383.0	1429.1	1364.6	1320.9	1284.1	1258.8	1240.4
27.5°	1127.6	1164.4	1173.6	1196.6	1274.9	1316.3	1284.1	1265.7	1242.7	1219.6	1196.6
30°	1086.2	1079.3	1063.2	1065.5	1127.6	1169.0	1166.7	1171.3	1169.0	1162.1	1157.5
32.5°	991.8	978.0	964.2	978.0	1035.5	1072.4	1074.7	1083.9	1083.9	1081.6	1100.0
35°	826.1	851.4	867.6	909.0	978.0	1010.2	996.4	973.4	932.0	906.7	904.4
37.5°	764.0	768.6	796.2	853.7	929.7	959.6	938.9	886.0	858.4	853.7	860.7
40°	734.1	738.7	754.8	807.7	883.7	913.6	895.2	856.1	830.7	828.4	839.9
42.5°	713.4	718.0	727.2	764.0	826.1	863.0	865.3	837.6	807.7	810.0	821.5
45°	701.9	704.2	701.9	720.3	777.8	821.5	839.9	821.5	796.2	800.8	814.6
47.5°	699.6	692.7	683.5	688.1	747.9	791.6	814.6	807.7	796.2	800.8	812.3
50°	690.4	674.3	662.7	660.4	720.3	766.3	787.0	787.0	791.6	800.8	812.3
52.5°	662.7	644.3	644.3	637.4	701.9	745.6	759.4	761.7	768.6	784.7	800.8
55°	628.2	621.3	628.2	616.7	688.1	729.5	736.4	741.0	745.6	759.4	782.4
57.5°	598.3	589.1	605.2	600.6	676.6	713.4	713.4	722.6	722.6	741.0	759.4
60°	582.2	563.8	570.7	575.3	660.4	699.6	695.0	704.2	708.8	724.9	738.7
62.5°	561.5	545.4	545.4	556.9	642.0	678.9	676.6	683.5	701.9	706.5	720.3
65°	536.2	529.3	522.4	536.2	623.6	655.8	658.1	667.4	683.5	688.1	699.6
67.5°	510.9	513.2	499.4	513.2	607.5	632.8	632.8	651.2	658.1	667.4	678.9
70°	483.3	485.6	474.0	490.2	596.0	607.5	605.2	630.5	635.1	642.0	653.5
72.5°	448.7	448.7	444.1	467.1	577.6	582.2	577.6	598.3	600.6	607.5	612.1
75°	411.9	411.9	407.3	439.5	566.1	554.6	540.8	556.9	561.5	566.1	566.1
77.5°	363.6	368.2	368.2	407.3	527.0	543.1	497.1	506.3	513.2	515.5	508.6
80°	303.8	315.3	319.9	370.5	441.8	501.7	444.1	451.0	453.3	453.3	444.1
82.5°	232.4	253.1	264.6	319.9	338.3	421.1	386.6	393.5	386.6	372.8	368.2
85°	161.1	188.7	202.5	243.9	255.4	324.5	322.2	322.2	308.4	290.0	287.7
87.5°	87.4	103.6	112.8	145.0	174.9	218.6	237.0	230.1	218.6	207.1	209.4
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):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2
2.5°	12688.9	13001.8	13501.2	13883.2	14267.5	14638.0	15038.4	15344.5	15604.5	15705.8	16014.1
5°	10203.6	10594.8	11066.5	11918.0	12520.9	13185.9	13954.5	14971.7	15362.9	15903.7	16789.6
7.5°	7214.3	7568.7	8328.1	9016.1	9869.9	10811.1	11848.9	13252.7	13765.8	14633.4	16076.3
10°	5387.1	5799.0	6408.9	6988.8	7741.3	8703.2	9895.2	11464.6	12088.3	13029.5	14690.9
12.5°	4340.1	4825.6	5472.3	6017.7	6599.9	7278.7	8436.2	10157.5	10992.9	11816.7	13496.6
15°	3334.5	3843.0	4443.6	5136.3	5778.3	6510.1	7722.9	9605.3	10567.2	11425.5	12859.2
17.5°	2308.1	2743.0	3500.1	4222.7	5044.3	5980.8	7525.0	9722.6	10870.9	11860.4	12969.6
20°	1636.2	1884.7	2506.0	3343.7	4367.7	5543.6	7488.1	10339.3	11832.8	12962.7	13678.4
22.5°	1376.1	1468.2	1829.5	2598.1	3780.9	5216.8	7617.0	11204.6	13130.7	14573.6	14808.3
25°	1254.2	1309.4	1498.1	2038.9	3258.5	4979.8	8051.9	12493.3	14737.0	16184.4	16143.0
27.5°	1187.4	1245.0	1369.2	1721.3	2865.0	4832.5	8486.9	14021.3	16573.3	17933.3	17417.9
30°	1166.7	1245.0	1376.1	1622.4	2584.3	4600.1	8843.6	15362.9	17986.3	19113.9	17997.8
32.5°	1150.6	1162.1	1221.9	1399.1	2317.3	4328.6	9085.2	16566.4	19369.3	20236.8	18833.1
35°	929.7	987.2	1083.9	1254.2	2160.8	4165.2	9085.2	17604.3	20731.6	21371.3	19629.3
37.5°	895.2	945.8	1030.9	1175.9	2073.4	4084.6	8903.4	18605.3	22123.8	22657.7	20285.2
40°	876.8	918.2	998.7	1116.1	2036.6	3992.6	8638.7	19489.0	23483.9	23946.4	20897.3
42.5°	863.0	899.8	975.7	1079.3	1988.2	3891.3	8424.7	20197.7	24664.4	25046.4	21481.8
45°	856.1	895.2	978.0	1097.7	1891.6	3757.9	8353.4	20964.0	25635.5	25964.6	22114.6
47.5°	856.1	902.1	989.5	1136.8	1776.5	3619.8	8576.6	21974.3	26553.7	26714.8	22860.2
50°	849.1	899.8	1021.7	1097.7	1608.5	3444.9	9101.3	23246.8	27547.8	27566.2	23803.7
52.5°	835.3	895.2	1100.0	1074.7	1415.2	3214.8	9810.1	24880.7	29018.3	29128.7	25281.1
55°	819.2	888.3	1079.3	1021.7	1256.5	2940.9	10390.0	26866.6	31084.7	31390.8	27453.4
57.5°	798.5	879.1	1044.7	948.1	1152.9	2588.9	10599.4	28321.0	32527.6	33296.2	29901.9
60°	780.1	872.2	943.5	904.4	1088.5	2292.0	10194.4	28033.3	32428.7	34085.5	32072.0
62.5°	761.7	879.1	860.7	876.8	1058.6	2101.0	9135.8	25729.8	30787.9	33270.9	33680.5
65°	741.0	816.9	812.3	853.7	1051.7	2025.1	7573.3	22275.7	27616.8	30695.8	34060.2
67.5°	713.4	754.8	777.8	823.8	1074.7	1958.3	6112.0	18375.2	23210.0	26836.7	32081.2
70°	683.5	718.0	743.3	787.0	1060.9	1928.4	5083.4	14490.7	18416.6	21995.0	28176.0
72.5°	644.3	674.3	697.3	738.7	1047.1	1912.3	4294.1	11669.4	13749.7	16338.6	22908.5
75°	598.3	625.9	642.0	683.5	1003.3	1751.2	3375.9	9874.5	10288.7	11365.7	18246.3
77.5°	545.4	566.1	579.9	625.9	888.3	1456.7	2441.6	7617.0	7989.8	8252.1	13989.1
80°	483.3	504.0	510.9	554.6	736.4	1139.1	1592.4	5626.5	5976.2	6036.1	9135.8
82.5°	411.9	432.6	432.6	474.0	602.9	819.2	1044.7	3854.5	3923.6	4126.1	6457.2
85°	331.4	347.5	347.5	368.2	467.1	612.1	718.0	1935.3	1914.6	2186.1	5594.2
87.5°	237.0	248.5	260.0	264.6	333.7	405.0	432.6	589.1	388.9	446.4	3592.2
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):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2	14143.2
2.5°	16246.5	16377.7	16244.2	16147.6	15731.1	15388.2	14930.3	14695.5
5°	17463.9	17797.6	17684.8	17279.8	16409.9	15431.9	14320.4	13818.8
7.5°	17316.6	18092.1	18110.5	17353.4	16071.7	14631.1	13126.1	12412.7
10°	16170.6	17162.4	17445.5	16711.4	15351.4	13740.5	12014.6	11200.0
12.5°	14891.1	15862.2	16078.6	15825.4	14688.6	13070.9	11319.7	10521.1
15°	13844.1	14279.0	14536.7	14757.7	14120.2	12803.9	11280.5	10403.8
17.5°	13206.6	13158.3	13232.0	13616.3	13724.4	13110.0	11878.8	10912.3
20°	12976.5	12237.8	12219.4	12748.7	13538.0	13839.5	13047.9	11888.1
22.5°	13103.1	11906.5	11754.6	12382.8	13637.0	14891.1	14580.5	13257.3
25°	13540.3	11934.1	11812.1	12419.6	13996.0	16011.8	16235.0	15029.2
27.5°	14228.4	12109.0	11947.9	12571.5	14472.3	16953.0	17864.3	16745.9
30°	14881.9	12412.7	12212.5	12870.7	14907.2	17325.8	18863.0	18085.2
32.5°	15675.8	12981.1	12629.0	13420.7	15445.7	17919.5	19753.6	19194.4
35°	16453.7	13791.2	13353.9	14269.8	16046.3	18658.2	20770.7	20611.9
37.5°	17307.4	14849.7	14488.4	15367.5	16867.9	19355.5	22068.6	22273.4
40°	18218.7	16253.4	15825.4	16969.1	18142.7	20229.9	23424.0	23916.5
42.5°	19136.9	17811.4	17300.5	18460.3	19544.2	21092.9	24583.8	25313.3
45°	20188.5	19502.8	19261.1	20515.3	20890.4	21914.4	25439.9	26346.6
47.5°	21412.8	21422.0	21810.9	22312.5	22248.1	22844.1	26300.5	27269.3
50°	22841.8	23817.5	24675.9	25009.6	23647.2	23842.8	27494.9	28505.1
52.5°	24558.5	26682.5	27745.7	27527.1	25154.5	25062.5	29386.5	30208.0
55°	26705.5	29715.5	30771.8	30615.3	26887.3	26724.0	31742.9	32221.5
57.5°	29190.9	32654.2	33625.3	32921.1	28967.6	28546.5	33692.0	33793.3
60°	31374.7	34983.0	35834.4	35054.3	31066.3	30486.4	34909.4	34419.2
62.5°	32589.7	35772.3	36370.6	35530.7	32504.6	32552.9	35176.3	34080.9
65°	32046.7	33777.2	33970.5	33901.4	32134.1	33751.9	34216.7	32518.4
67.5°	29073.5	28732.9	29057.4	29506.1	28958.4	32173.2	31558.8	29114.9
70°	23835.9	21965.1	22611.7	22913.2	23161.7	27685.9	27391.3	23714.0
72.5°	17963.2	15388.2	15899.1	15836.9	16987.5	22206.7	21302.3	17436.3
75°	12728.0	10433.7	10498.1	10472.8	11853.5	17374.1	15425.0	11929.5
77.5°	8905.7	7559.5	7594.0	7736.7	7969.1	13103.1	11020.5	8714.7
80°	6123.5	5736.9	5927.9	5939.4	5522.9	8802.1	8141.7	6993.4
82.5°	4561.0	3988.0	3942.0	4008.7	4328.6	7131.5	6257.0	4851.0
85°	3734.9	2361.0	1898.5	2379.5	3836.1	7062.4	4156.0	2558.9
87.5°	2103.3	1120.7	506.3	938.9	1530.3	4676.1	1201.2	326.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)