

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: P298946

Luminaire Tested: **GLNA-AF-06-LED-E1-SLL-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298946  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191289)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-06-LED-E1-SLL-7030-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill  
Light Eliminator Left OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24369.1 lumens  
Efficiency: N/A  
Efficacy: 97.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 249  
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

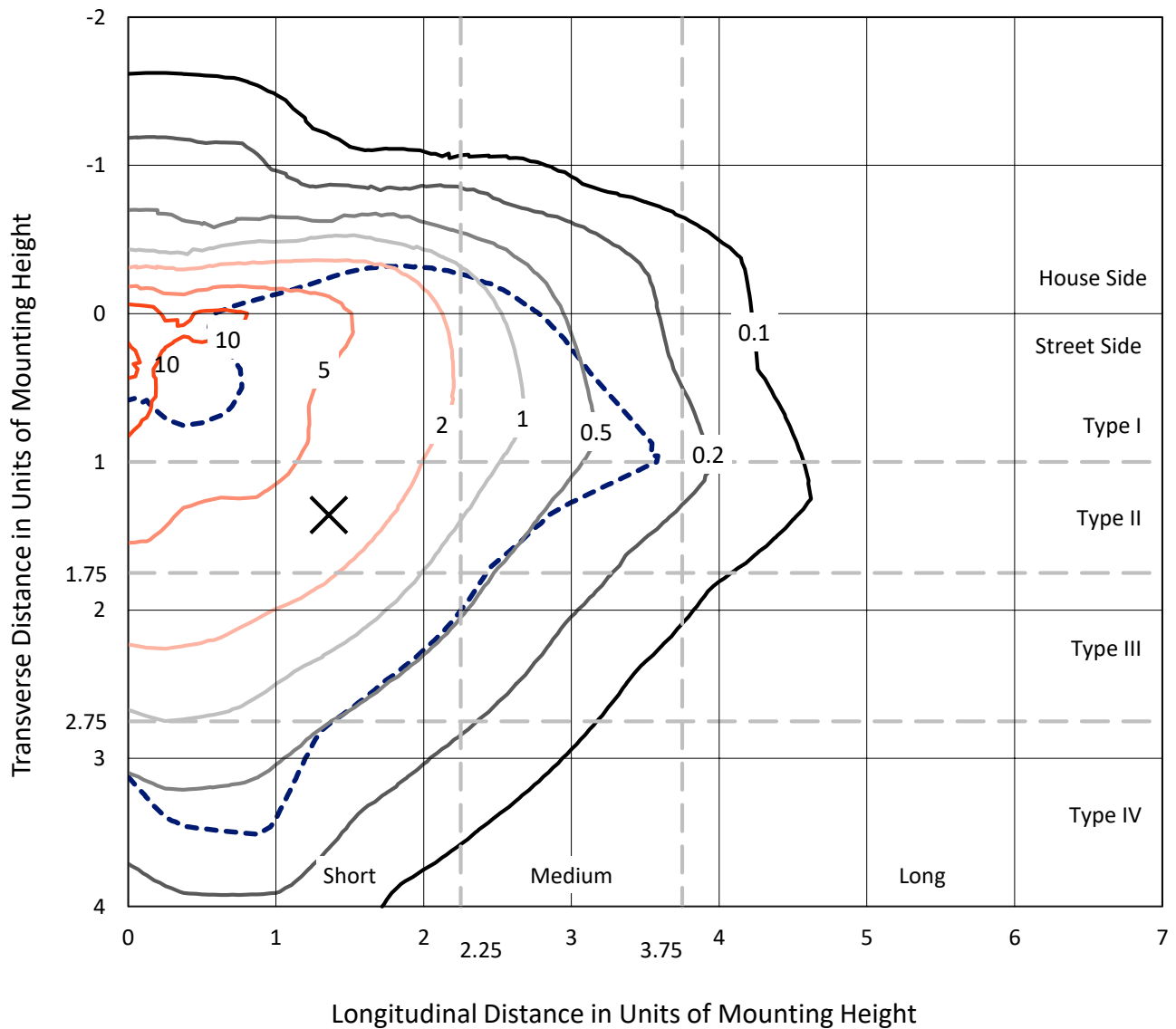


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### Iso-Footcandle Lines of Horizontal Illumination

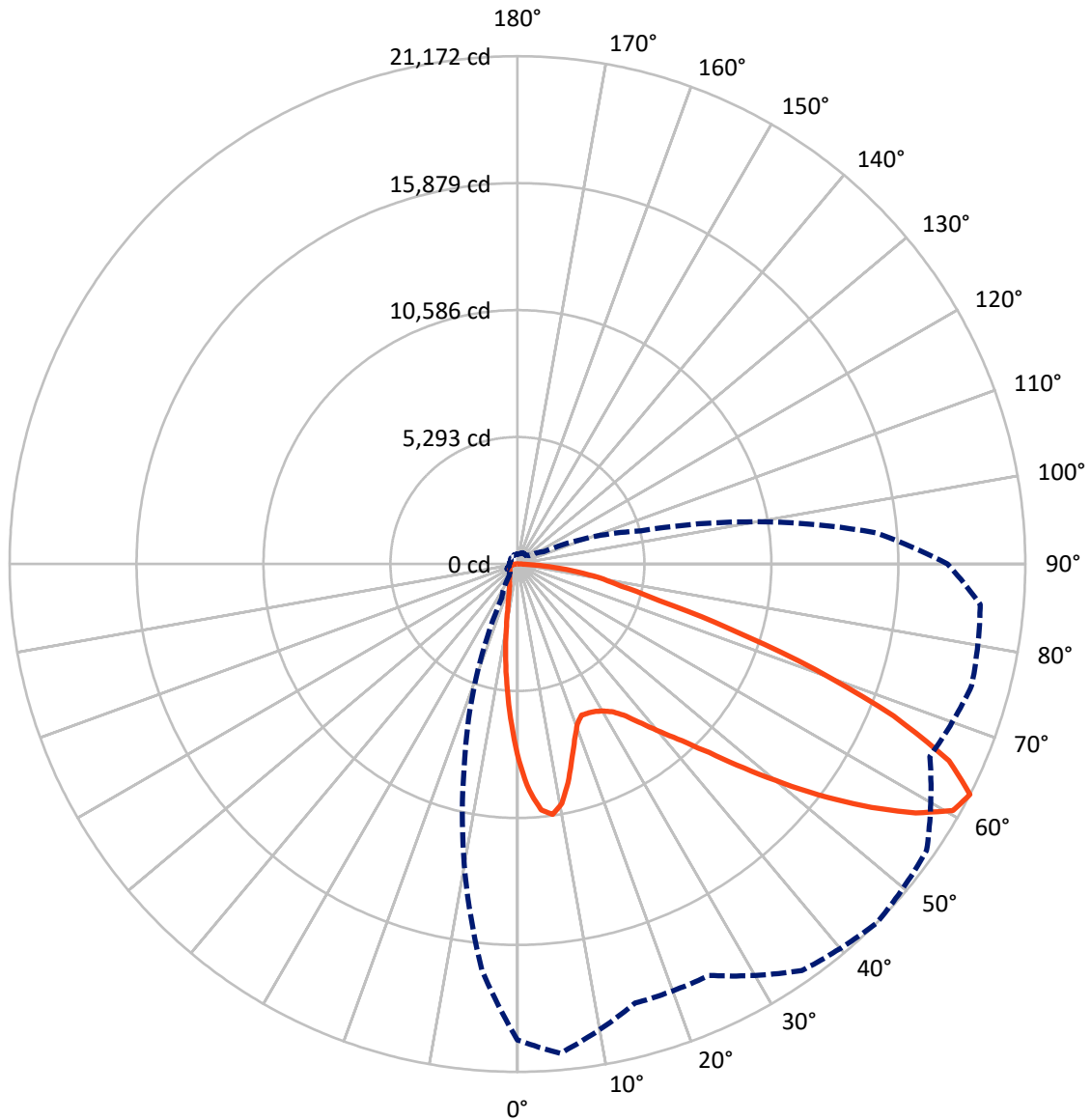
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 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
<b>House Side</b>	Lumens	4032.7	0.0	4032.7
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	20336.3	0.0	20336.3
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	24369.1	0.0	24369.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	599.3	2.5
10°-20°	1099.0	4.5
20°-30°	1602.4	6.6
30°-40°	2467.9	10.1
40°-50°	3632.1	14.9
50°-60°	5327.5	21.9
60°-70°	5955.4	24.4
70°-80°	2915.6	12.0
80°-90°	769.8	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°	24369.1	100.0
0°-180°	24369.1	100.0



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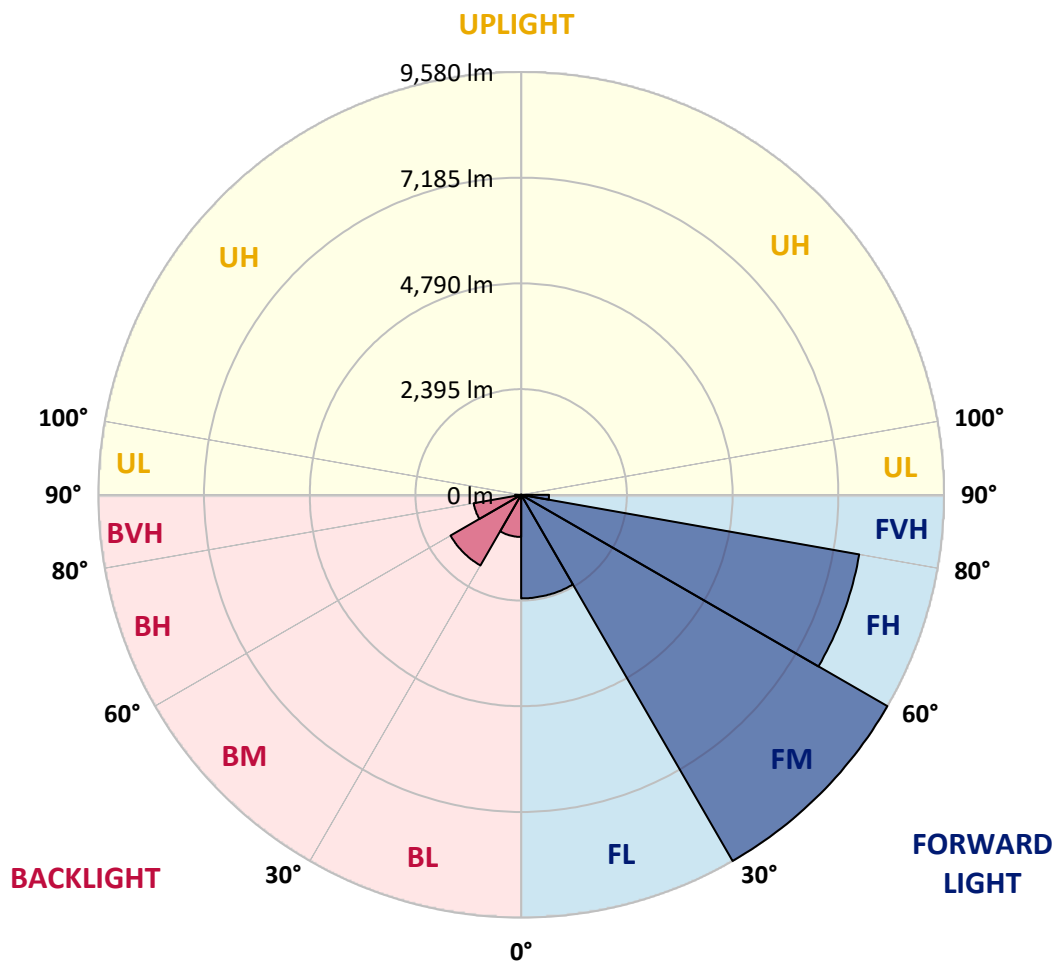
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2346.7	9.6			
FM	(30°-60°)	9579.7	39.3			
FH	(60°-80°)	7777.8	31.9			G4/12000
FVH	(80°-90°)	632.2	2.6			G4/750
BL	(0°-30°)	954.1	3.9	B2/1000		
BM	(30°-60°)	1847.8	7.6	B2/2500		
BH	(60°-80°)	1093.3	4.5	B3/2500		G3/2500
BVH	(80°-90°)	137.6	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8233.4	8233.4	8233.4	8233.4	8233.4	8233.4	8233.4	8233.4	8233.4	8233.4	8233.4
2.5°	8554.4	8691.4	8957.9	9157.1	9400.2	9456.3	9534.1	9457.6	9322.4	9142.8	9084.1
5°	8044.3	8336.5	8983.2	9552.8	10059.0	10294.7	10360.8	10166.0	9773.8	9258.0	8943.2
7.5°	7225.8	7641.1	8517.0	9355.9	10101.7	10542.6	10531.7	10080.3	9358.5	8518.3	8013.4
10°	6519.6	6994.1	7999.0	8936.6	9728.1	10155.6	9990.3	9413.7	8551.8	7584.6	7037.1
12.5°	6124.7	6589.6	7609.0	8550.5	9212.3	9359.8	9233.7	8668.3	7856.4	6878.8	6399.2
15°	6056.0	6567.0	7453.7	8220.0	8590.9	8462.6	8312.2	8059.1	7485.5	6650.9	6151.3
17.5°	6352.6	6914.9	7632.0	7989.5	7926.4	7702.5	7659.8	7688.1	7550.3	6904.0	6328.3
20°	6920.6	7595.5	8056.5	7881.2	7421.5	7113.2	7124.1	7554.2	7962.5	7545.9	6887.9
22.5°	7717.3	8487.8	8668.3	7938.6	7208.4	6842.7	6931.4	7628.1	8620.5	8483.9	7643.8
25°	8748.8	9451.1	9321.1	8147.3	7229.8	6876.2	6947.1	7882.5	9397.2	9421.5	8579.2
27.5°	9748.1	10399.5	9868.6	8424.8	7318.5	6955.4	7049.3	8282.6	10139.5	10439.6	9648.1
30°	10527.8	10981.0	10085.6	8677.9	7492.4	7109.3	7225.8	8663.1	10477.4	11126.7	10470.4
32.5°	11173.6	11498.9	10431.3	8991.4	7812.5	7351.5	7556.8	9125.4	10963.6	11780.7	11275.4
35°	11998.6	12091.2	10861.4	9341.1	8306.9	7773.8	8028.2	9578.1	11427.1	12440.8	12068.6
37.5°	12966.2	12847.0	11267.1	9819.4	8946.2	8433.9	8644.4	10075.1	11808.5	13189.7	12878.8
40°	13922.4	13635.4	11776.8	10561.3	9878.6	9212.3	9461.5	10605.7	12165.1	13939.8	13670.7
42.5°	14735.7	14310.8	12278.6	11377.1	10746.1	10071.2	10368.7	11140.1	12505.2	14580.0	14357.8
45°	15337.1	14809.2	12757.0	12160.8	11942.5	11212.3	11353.2	11752.0	12873.5	15114.9	14923.1
47.5°	15874.2	15310.1	13298.0	12951.4	12988.8	12696.5	12470.0	12464.8	13308.0	15551.5	15457.5
50°	16593.4	16005.5	13879.4	13765.5	14558.7	14364.3	13864.6	13296.7	13856.8	16047.2	16036.4
52.5°	17584.9	17107.0	14589.5	14643.0	16024.6	16151.6	15532.3	14296.4	14716.5	16956.6	16892.6
55°	18757.4	18478.2	15557.1	15651.9	17822.0	17913.3	17297.9	15545.8	15981.6	18273.8	18095.5
57.5°	19671.9	19613.2	16617.8	16863.1	19164.4	19574.5	19009.2	16993.1	17406.6	19382.7	18935.2
60°	20036.3	20321.6	17747.2	18084.6	20406.4	20860.0	20364.7	18263.8	18670.0	19842.4	18877.8
62.5°	19839.8	20476.9	18950.0	18921.7	20683.4	21172.2	20823.9	18971.3	19606.7	19367.9	17922.8
65°	18930.0	19918.5	19648.0	18706.0	19735.0	19775.0	19662.3	18655.2	19827.6	17868.9	16076.4
67.5°	16948.3	18371.2	18728.7	16857.8	17176.2	16915.2	16726.1	16924.4	18675.2	15622.4	13511.1
70°	13804.6	15945.5	16116.4	13483.2	13338.4	13162.7	12786.6	13875.5	16402.1	12804.0	10720.9
72.5°	10150.4	12400.8	12927.0	9889.0	9219.3	9255.0	8957.9	10456.5	13335.8	9511.1	8004.3
75°	6944.5	8979.3	10114.3	6900.1	6096.9	6111.3	6073.4	7409.4	10621.8	6616.2	5989.5
77.5°	5073.2	6415.2	7628.1	4638.8	4503.5	4420.5	4400.5	5184.1	8143.4	4804.0	4651.0
80°	4070.8	4739.7	5123.7	3215.0	3457.2	3450.7	3339.4	3564.7	5318.1	3513.8	3478.5
82.5°	2824.1	3642.5	4151.3	2519.7	2333.5	2294.4	2321.8	2654.9	3759.0	2401.8	2284.0
85°	1489.9	2419.2	4111.3	2233.1	1385.1	1105.0	1374.6	2173.9	3256.8	1272.9	1114.1
87.5°	190.5	699.3	2721.9	891.1	546.6	294.4	652.7	1224.2	2091.3	259.6	226.6
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°	8233.4	8233.4	8233.4	8233.4	8233.4	8233.4	8233.4	8233.4	8233.4	8233.4	8233.4
2.5°	8932.7	8754.4	8521.3	8305.2	8081.7	7859.0	7568.5	7386.3	7260.6	7236.3	7183.2
5°	8715.7	8123.4	7675.9	7288.9	6938.0	6441.8	6167.4	5939.5	5817.7	5806.0	5776.4
7.5°	7714.6	6897.5	6293.5	5745.5	5248.5	4848.0	4405.7	4200.0	4115.2	4135.2	4155.2
10°	6673.6	5760.3	5066.3	4506.2	4068.2	3730.8	3375.9	3136.3	2969.7	2936.3	2929.7
12.5°	5913.0	4911.0	4237.4	3841.7	3503.3	3185.4	2809.3	2526.2	2310.9	2237.0	2187.8
15°	5591.2	4495.7	3789.9	3363.7	2989.7	2586.6	2237.0	1940.8	1743.0	1678.6	1642.5
17.5°	5659.9	4380.5	3481.6	2936.3	2458.3	2037.4	1596.9	1343.3	1224.2	1193.7	1193.7
20°	6019.1	4359.2	3226.8	2542.7	1946.1	1458.6	1097.2	952.4	913.7	909.8	920.2
22.5°	6522.7	4434.4	3037.2	2201.3	1512.5	1065.0	854.5	801.0	783.6	788.0	799.7
25°	7272.8	4687.5	2899.3	1896.9	1186.8	871.9	761.9	730.2	721.9	732.8	747.5
27.5°	8162.1	4940.6	2813.2	1667.7	1001.9	797.1	724.5	691.4	696.7	710.1	723.2
30°	8943.2	5148.5	2677.9	1504.7	944.5	801.0	724.5	679.3	674.1	676.7	680.6
32.5°	9644.2	5288.9	2519.7	1349.0	814.5	711.5	676.7	670.1	640.1	629.3	631.0
35°	10248.2	5288.9	2424.9	1258.1	730.2	631.0	574.9	541.4	526.2	527.5	542.7
37.5°	10830.9	5182.8	2377.9	1206.8	684.5	600.1	550.5	521.0	501.0	497.1	499.7
40°	11345.0	5028.9	2324.4	1185.5	649.7	581.4	534.9	510.1	488.8	482.3	483.6
42.5°	11757.7	4904.1	2265.3	1157.6	628.0	567.9	523.6	502.3	478.4	471.4	470.1
45°	12203.8	4862.7	2187.8	1101.1	638.8	569.2	521.0	498.4	474.0	466.2	463.6
47.5°	12791.8	4992.8	2107.4	1034.1	661.9	576.2	524.9	498.4	472.7	466.2	463.6
50°	13532.4	5298.1	2005.2	936.3	638.8	594.9	523.6	494.0	472.7	466.2	461.0
52.5°	14483.9	5710.7	1871.7	824.1	625.3	640.1	521.0	486.2	466.2	457.1	447.5
55°	15639.8	6048.2	1711.7	731.5	594.9	628.0	517.1	477.1	455.7	442.3	434.0
57.5°	16486.5	6170.0	1507.3	671.4	551.9	608.0	511.4	464.9	442.3	431.4	421.0
60°	16319.0	5934.3	1334.2	633.6	526.2	549.2	507.5	454.0	430.1	422.3	412.3
62.5°	14978.3	5318.1	1222.9	616.2	510.1	501.0	511.4	443.6	419.7	411.0	408.3
65°	12967.5	4408.3	1178.9	612.3	497.1	472.7	475.8	431.4	407.0	400.5	397.9
67.5°	10696.6	3558.1	1140.2	625.3	479.7	452.7	439.7	415.3	394.9	388.3	383.1
70°	8435.2	2959.3	1122.4	617.5	458.4	432.7	418.3	397.9	380.5	373.6	369.6
72.5°	6792.7	2499.6	1112.8	609.3	430.1	405.7	392.3	374.9	356.2	353.6	349.6
75°	5748.6	1965.2	1019.8	584.0	397.9	373.6	364.4	348.3	329.6	329.6	327.0
77.5°	4434.4	1421.2	848.0	517.1	364.4	337.5	329.6	317.5	296.1	300.1	298.8
80°	3275.5	927.1	663.2	428.8	323.1	297.5	293.1	281.4	258.3	264.0	264.0
82.5°	2243.9	608.0	477.1	350.9	275.7	251.8	251.8	239.6	214.4	217.0	225.3
85°	1126.8	418.3	356.2	271.8	214.4	202.2	202.2	193.1	167.4	168.7	179.6
87.5°	343.1	251.8	235.7	194.4	153.9	151.3	144.4	137.9	121.8	120.5	127.4
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°	8233.4	8233.4	8233.4	8233.4	8233.4	8233.4	8233.4	8233.4	8233.4	8233.4	8233.4
2.5°	7101.0	7024.5	6932.7	6728.8	6660.5	6656.2	6718.3	6653.6	6777.1	6724.9	6782.3
5°	5726.4	5652.0	5548.5	5288.9	5130.6	5023.2	4972.8	4822.7	4931.0	4851.9	4918.0
7.5°	4211.7	4229.1	4160.9	4008.2	3663.8	3491.2	3389.4	3298.1	3377.2	3369.0	3495.1
10°	2960.6	3007.1	2959.3	2805.4	2526.2	2431.4	2450.1	2486.2	2589.7	2642.7	2837.1
12.5°	2131.3	2128.7	2097.8	1960.0	1776.5	1786.9	1863.4	1926.1	2021.3	2077.8	2275.7
15°	1591.2	1567.3	1553.8	1441.2	1336.8	1359.8	1397.2	1403.8	1464.2	1497.7	1658.6
17.5°	1202.9	1215.0	1229.4	1149.4	1070.2	1055.4	1026.3	989.8	1007.6	1014.1	1094.1
20°	955.0	1003.3	1039.8	983.2	903.2	859.7	822.3	798.4	798.4	797.1	819.7
22.5°	834.5	869.3	908.4	869.3	797.1	759.3	738.0	719.3	716.7	716.7	738.0
25°	769.3	794.5	831.9	805.4	751.5	723.2	703.2	679.3	670.1	667.1	681.9
27.5°	736.7	747.5	766.2	741.9	696.7	683.2	678.0	656.7	644.0	637.5	652.7
30°	681.9	679.3	680.6	656.7	620.1	618.8	628.0	632.3	628.0	626.7	649.7
32.5°	631.0	625.3	624.0	602.7	569.2	561.4	569.2	577.5	586.6	600.1	626.7
35°	566.6	580.1	587.9	569.2	528.8	504.9	495.8	481.0	472.7	472.7	503.6
37.5°	515.8	546.6	558.8	541.4	497.1	463.6	447.5	444.9	446.2	451.4	481.0
40°	498.4	521.0	531.4	514.5	470.1	439.7	430.1	427.5	430.1	438.4	467.5
42.5°	487.5	503.6	502.3	481.0	444.9	423.6	418.3	415.3	418.3	426.2	458.4
45°	478.4	488.8	478.4	452.7	419.7	408.3	409.7	408.3	411.0	419.7	450.1
47.5°	470.1	474.0	461.0	435.3	400.5	397.9	403.1	407.0	409.7	417.0	448.8
50°	458.4	458.4	446.2	419.7	384.4	385.7	392.3	401.8	403.1	411.0	437.0
52.5°	443.6	442.3	434.0	408.3	370.9	374.9	374.9	385.7	388.3	397.9	424.9
55°	431.4	428.8	424.9	400.5	359.2	365.7	361.8	365.7	372.3	381.8	411.0
57.5°	421.0	415.3	415.3	393.6	349.6	352.2	343.1	348.3	356.2	364.4	394.9
60°	409.7	404.4	407.0	384.4	334.9	332.2	328.3	338.8	341.8	350.9	381.8
62.5°	397.9	393.6	394.9	373.6	324.4	317.5	317.5	327.0	328.3	341.8	370.9
65°	388.3	383.1	381.8	363.1	312.2	304.4	308.3	312.2	314.8	328.3	356.2
67.5°	379.2	368.3	368.3	353.6	298.8	290.5	298.8	297.5	301.8	313.5	336.2
70°	367.0	352.2	353.6	347.0	285.3	275.7	282.7	281.4	284.0	291.8	314.8
72.5°	348.3	336.2	338.8	336.2	271.8	258.3	260.9	260.9	260.9	267.9	291.8
75°	324.4	314.8	323.1	329.6	255.7	237.0	239.6	239.6	235.7	239.6	269.2
77.5°	294.4	289.2	316.2	307.0	237.0	214.4	214.4	211.8	204.0	209.2	240.9
80°	262.7	258.3	291.8	257.0	215.7	186.6	183.5	176.6	168.7	172.6	205.3
82.5°	229.2	225.3	245.3	197.0	186.6	153.9	147.4	135.2	127.4	131.3	160.5
85°	187.9	187.9	189.2	148.7	141.8	117.9	110.0	93.9	84.4	87.0	115.2
87.5°	133.9	137.9	127.4	101.8	84.4	65.7	60.4	50.9	42.6	49.6	60.4
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):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	8233.4	8233.4	8233.4	8233.4	8233.4	8233.4	8233.4	8233.4
2.5°	7077.1	7224.5	7392.0	7605.9	7789.9	8090.8	8380.4	8554.4
5°	5291.5	5536.8	5841.6	6234.8	6600.5	7149.3	7694.6	8044.3
7.5°	3786.9	4049.5	4379.2	4869.3	5386.8	6086.9	6807.9	7225.8
10°	3133.7	3402.9	3679.9	4010.8	4434.4	5196.3	6048.2	6519.6
12.5°	2592.3	2880.2	3178.9	3527.3	3919.5	4600.1	5582.0	6124.7
15°	1983.9	2305.3	2657.5	3098.5	3589.9	4376.6	5466.8	6056.0
17.5°	1359.8	1719.1	2151.3	2695.3	3296.8	4303.9	5673.3	6352.6
20°	936.3	1197.6	1659.9	2297.4	3021.1	4294.8	6069.5	6920.6
22.5°	783.6	900.2	1237.6	1931.7	2813.2	4410.0	6684.9	7717.3
25°	724.5	794.5	988.5	1614.2	2661.9	4675.3	7531.6	8748.8
27.5°	690.1	752.8	897.6	1406.8	2542.7	4983.2	8355.2	9748.1
30°	703.2	767.6	871.9	1300.7	2380.5	5240.2	9086.7	10527.8
32.5°	633.6	661.9	747.5	1206.8	2263.9	5455.9	9726.8	11173.6
35°	540.1	589.3	667.1	1162.8	2266.6	5600.7	10424.8	11998.6
37.5°	514.5	564.0	620.1	1146.8	2297.4	5755.1	11225.8	12966.2
40°	498.4	544.0	592.3	1137.6	2327.0	5895.6	12011.2	13922.4
42.5°	487.5	528.8	589.3	1105.0	2341.8	6021.7	12656.5	14735.7
45°	486.2	528.8	600.1	1072.8	2364.4	6156.9	13198.0	15337.1
47.5°	487.5	546.6	580.1	1034.1	2364.4	6383.1	13832.9	15874.2
50°	482.3	576.2	558.8	979.3	2309.6	6811.8	14703.5	16593.4
52.5°	479.7	572.3	517.1	895.0	2214.4	7492.4	15819.4	17584.9
55°	472.7	551.9	487.5	769.3	2103.5	8234.7	17014.4	18757.4
57.5°	466.2	488.8	471.4	659.3	1931.7	8757.0	17836.7	19671.9
60°	522.3	427.5	458.4	605.3	1702.5	8900.1	17805.0	20036.3
62.5°	483.6	400.5	441.0	593.6	1542.1	8498.3	16982.2	19839.8
65°	379.2	383.1	423.6	628.0	1499.0	7433.7	15524.5	18930.0
67.5°	347.0	365.7	405.7	672.7	1503.4	5951.7	13346.7	16948.3
70°	327.0	347.0	385.7	695.4	1513.8	4437.0	10551.8	13804.6
72.5°	304.4	321.8	363.1	699.3	1443.8	3222.8	8133.0	10150.4
75°	277.0	293.1	330.9	609.3	1196.3	2235.7	6221.3	6944.5
77.5°	246.6	258.3	290.5	470.1	888.4	1430.7	4669.7	5073.2
80°	210.5	217.0	244.0	344.4	608.0	895.0	3694.7	4070.8
82.5°	168.7	171.3	189.2	258.3	394.9	574.9	2474.4	2824.1
85°	119.2	119.2	130.0	187.9	269.2	364.4	1343.3	1489.9
87.5°	56.1	57.4	57.4	103.1	140.5	185.3	309.6	190.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)