

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: P298898

Luminaire Tested: **GLNA-AF-08-LED-E1-SLL-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298898  
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-08-LED-E1-SLL-7030  
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill  
Light Eliminator Left OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

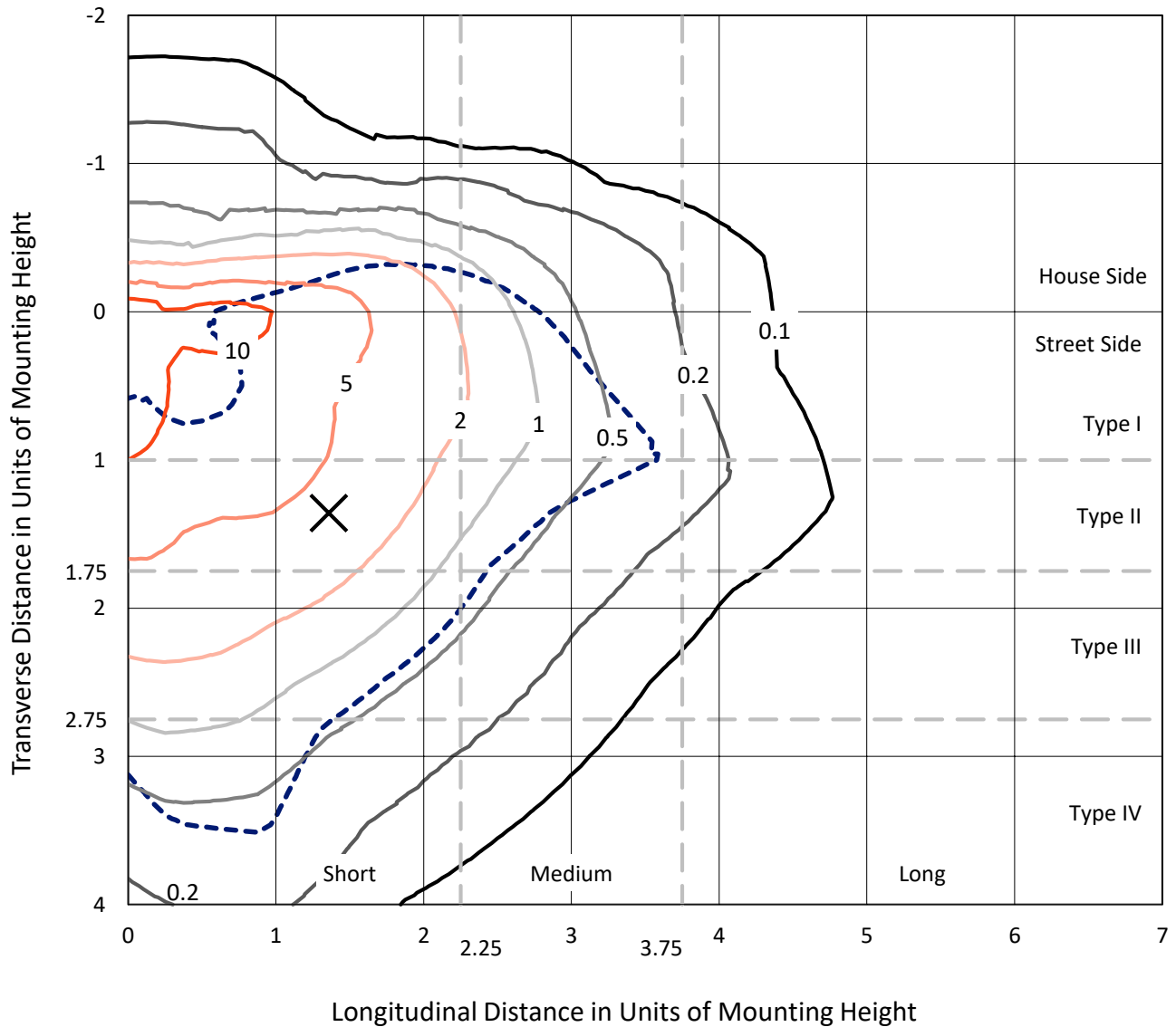
Lumens per Lamp: N/A  
Luminaire Lumens: 40418.6 lumens  
Efficiency: N/A  
Efficacy: 90.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current (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

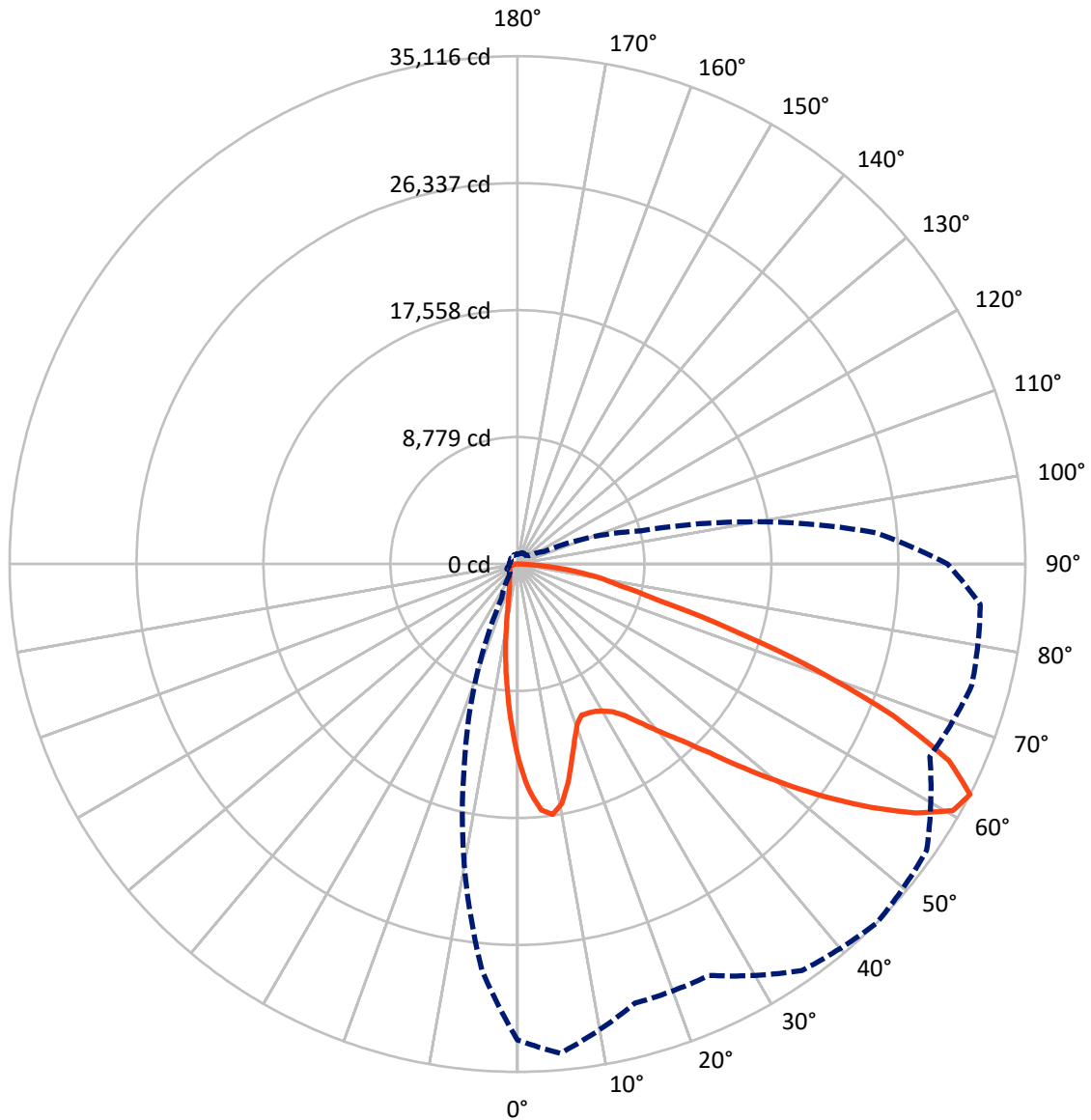
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 17.9 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	6688.7	0.0	6688.7
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	33729.9	0.0	33729.9
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	40418.6	0.0	40418.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	994.1	2.5
10°-20°	1822.8	4.5
20°-30°	2657.7	6.6
30°-40°	4093.3	10.1
40°-50°	6024.2	14.9
50°-60°	8836.2	21.9
60°-70°	9877.6	24.4
70°-80°	4835.9	12.0
80°-90°	1276.8	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°	40418.6	100.0
0°-180°	40418.6	100.0



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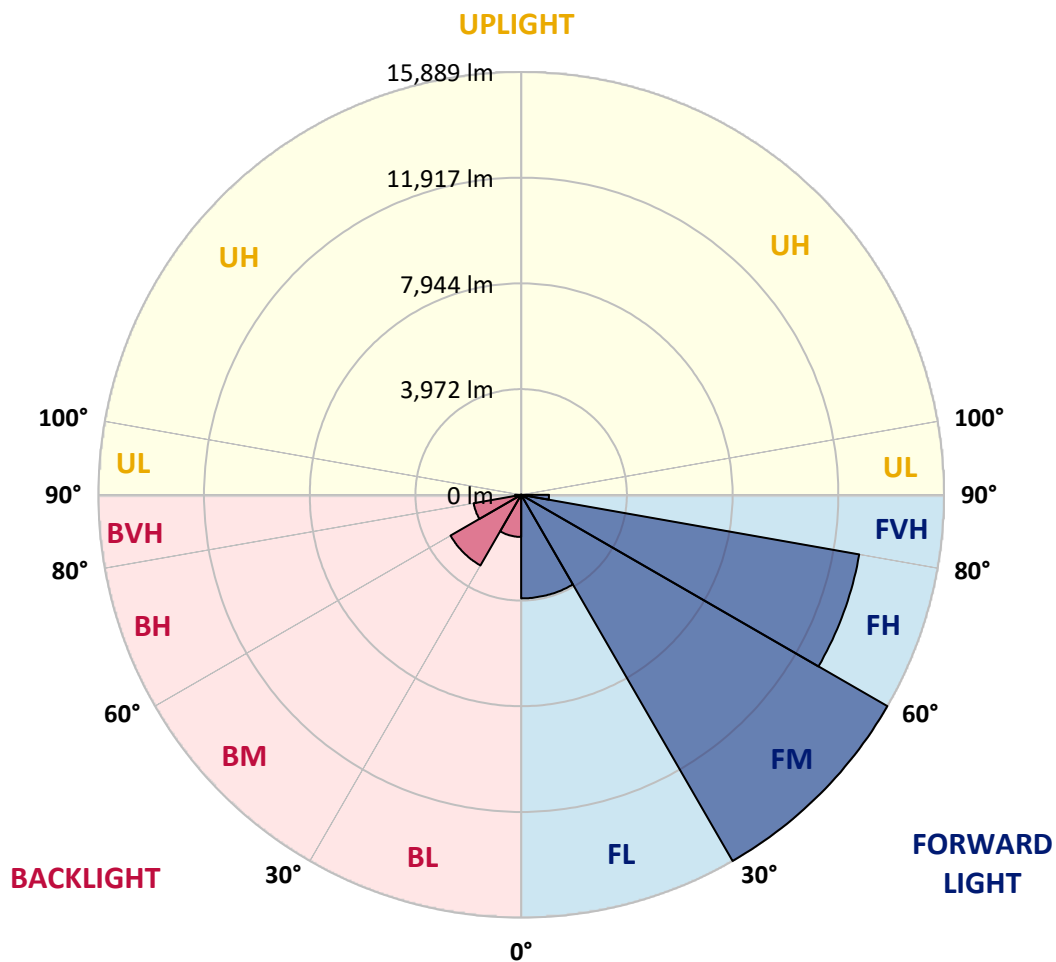
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3892.2	9.6			
FM (30°-60°)	15888.9	39.3			
FH (60°-80°)	12900.2	31.9			G5
FVH (80°-90°)	1048.6	2.6			G5
BL (0°-30°)	1582.4	3.9	B3/2500		
BM (30°-60°)	3064.7	7.6	B3/5000		
BH (60°-80°)	1813.3	4.5	B3/2500		G3/2500
BVH (80°-90°)	228.3	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°	13656.0	13656.0	13656.0	13656.0	13656.0	13656.0	13656.0	13656.0	13656.0	13656.0	13656.0
2.5°	14188.3	14415.5	14857.7	15188.0	15591.2	15684.3	15813.4	15686.4	15462.1	15164.2	15066.9
5°	13342.3	13827.0	14899.5	15844.4	16684.0	17074.9	17184.5	16861.4	16210.8	15355.4	14833.2
7.5°	11984.8	12673.6	14126.3	15517.7	16754.7	17486.0	17468.0	16719.3	15522.0	14128.5	13291.1
10°	10813.5	11600.4	13267.3	14822.3	16135.1	16844.1	16570.0	15613.6	14184.0	12579.9	11671.8
12.5°	10158.5	10929.6	12620.3	14181.8	15279.6	15524.1	15315.0	14377.3	13030.7	11409.2	10613.7
15°	10044.6	10892.1	12362.8	13633.7	14248.9	14036.1	13786.6	13366.8	12415.4	11031.3	10202.5
17.5°	10536.5	11469.1	12658.5	13251.4	13146.8	12775.3	12704.7	12751.5	12522.9	11451.1	10496.1
20°	11478.5	12597.9	13362.5	13071.8	12309.4	11798.0	11816.0	12529.4	13206.7	12515.7	11424.4
22.5°	12799.9	14078.0	14377.3	13167.0	11956.0	11349.4	11496.5	12652.0	14298.0	14071.5	12678.0
25°	14510.7	15675.6	15460.0	13513.2	11991.3	11404.9	11522.5	13074.0	15586.2	15626.6	14229.4
27.5°	16168.3	17248.7	16368.0	13973.4	12138.4	11536.2	11692.0	13737.5	16817.4	17315.1	16002.4
30°	17461.5	18213.1	16728.0	14393.2	12427.0	11791.5	11984.8	14368.7	17377.8	18454.7	17366.3
32.5°	18532.6	19072.1	17301.4	14913.2	12957.8	12193.3	12533.7	15135.4	18184.2	19539.5	18701.4
35°	19900.9	20054.5	18014.7	15493.1	13777.9	12893.6	13315.6	15886.2	18953.1	20634.4	20017.0
37.5°	21505.7	21308.1	18687.7	16286.5	14838.2	13988.5	14337.6	16710.7	19585.7	21876.5	21360.8
40°	23091.8	22615.8	19533.0	17517.0	16384.6	15279.6	15692.9	17590.6	20177.1	23120.7	22674.2
42.5°	24440.6	23735.9	20365.4	18870.2	17823.6	16704.2	17197.5	18477.1	20741.2	24182.4	23813.8
45°	25438.2	24562.5	21158.8	20169.9	19807.8	18596.8	18830.5	19491.9	21352.1	25069.6	24751.5
47.5°	26328.9	25393.4	22056.1	21481.2	21543.2	21058.5	20682.8	20674.1	22072.7	25793.8	25638.0
50°	27521.9	26546.8	23020.4	22831.5	24147.1	23824.7	22995.9	22053.9	22982.9	26616.0	26598.0
52.5°	29166.5	28373.8	24198.3	24287.0	26578.5	26789.1	25762.0	23712.1	24408.9	28124.2	28018.2
55°	31111.0	30648.0	25803.1	25960.4	29559.6	29711.0	28690.4	25784.4	26507.1	30309.0	30013.3
57.5°	32627.9	32530.5	27562.3	27969.1	31786.2	32466.3	31528.7	28184.8	28870.7	32148.2	31406.0
60°	33232.3	33705.5	29435.5	29995.2	33846.1	34598.4	33776.9	30292.4	30966.1	32910.6	31310.8
62.5°	32906.3	33963.0	31430.6	31383.7	34305.6	35116.3	34538.6	31465.9	32519.7	32123.7	29726.9
65°	31397.4	33036.9	32588.2	31025.9	32732.5	32798.8	32612.0	30941.5	32886.1	29637.5	26664.3
67.5°	28110.5	30470.5	31063.4	27960.5	28488.5	28055.7	27741.9	28070.8	30974.7	25911.3	22409.5
70°	22896.4	26447.2	26730.7	22363.3	22123.2	21831.8	21207.8	23013.9	27204.6	21236.7	17781.8
72.5°	16835.4	20568.1	21440.8	16401.9	15291.2	15350.3	14857.7	17343.2	22118.8	15775.2	13275.9
75°	11518.1	14893.0	16775.6	11444.6	10112.4	10136.2	10073.4	12289.2	17617.3	10973.6	9934.2
77.5°	8414.5	10640.3	12652.0	7693.9	7469.6	7331.8	7298.6	8598.4	13506.7	7968.0	7714.1
80°	6751.9	7861.2	8498.1	5332.4	5734.2	5723.4	5538.7	5912.3	8820.6	5828.0	5769.5
82.5°	4684.0	6041.5	6885.4	4179.1	3870.4	3805.5	3850.9	4403.4	6234.8	3983.6	3788.2
85°	2471.1	4012.5	6819.0	3703.8	2297.3	1832.8	2280.0	3605.7	5401.7	2111.2	1847.9
87.5°	315.9	1159.8	4514.5	1477.9	906.7	488.3	1082.6	2030.4	3468.6	430.6	375.8
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	13656.0	13656.0	13656.0	13656.0	13656.0	13656.0	13656.0	13656.0	13656.0	13656.0	13656.0
2.5°	14815.8	14520.1	14133.5	13775.0	13404.3	13035.0	12553.2	12251.0	12042.5	12002.1	11914.1
5°	14455.9	13473.5	12731.3	12089.4	11507.3	10684.3	10229.2	9851.3	9649.3	9629.8	9580.8
7.5°	12795.5	11440.2	10438.4	9529.6	8705.1	8040.8	7307.3	6966.1	6825.5	6858.7	6891.8
10°	11068.8	9554.1	8402.9	7473.9	6747.6	6187.9	5599.3	5201.9	4925.6	4870.1	4859.3
12.5°	9807.3	8145.4	7028.2	6371.8	5810.6	5283.4	4659.5	4189.9	3832.9	3710.3	3628.8
15°	9273.5	7456.6	6286.0	5579.1	4958.8	4290.2	3710.3	3219.1	2890.9	2784.1	2724.3
17.5°	9387.5	7265.5	5774.6	4870.1	4077.4	3379.2	2648.5	2228.0	2030.4	1979.9	1979.9
20°	9983.3	7230.1	5351.9	4217.3	3227.7	2419.2	1819.8	1579.6	1515.4	1508.9	1526.2
22.5°	10818.5	7354.9	5037.4	3651.1	2508.6	1766.4	1417.3	1328.6	1299.7	1307.0	1326.4
25°	12062.7	7774.7	4808.8	3146.2	1968.4	1446.2	1263.7	1211.0	1197.3	1215.4	1239.9
27.5°	13537.7	8194.5	4666.0	2766.1	1661.8	1322.1	1201.7	1146.8	1155.5	1177.9	1199.5
30°	14833.2	8539.3	4441.7	2495.6	1566.6	1328.6	1201.7	1126.6	1118.0	1122.3	1128.8
32.5°	15995.9	8772.2	4179.1	2237.4	1351.0	1180.0	1122.3	1111.5	1061.7	1043.7	1046.6
35°	16997.7	8772.2	4021.9	2086.7	1211.0	1046.6	953.5	898.0	872.8	874.9	900.2
37.5°	17964.2	8596.2	3944.0	2001.6	1135.3	995.4	913.1	864.1	830.9	824.4	828.8
40°	18816.8	8340.9	3855.3	1966.2	1077.6	964.4	887.2	846.1	810.7	799.9	802.1
42.5°	19501.3	8133.9	3757.2	1920.1	1041.5	942.0	868.4	833.1	793.4	781.9	779.7
45°	20241.3	8065.4	3628.8	1826.3	1059.6	944.2	864.1	826.6	786.2	773.2	768.9
47.5°	21216.5	8281.0	3495.3	1715.2	1097.8	955.7	870.6	826.6	784.0	773.2	768.9
50°	22444.8	8787.4	3325.8	1552.9	1059.6	986.7	868.4	819.4	784.0	773.2	764.6
52.5°	24023.0	9471.9	3104.4	1366.8	1037.2	1061.7	864.1	806.4	773.2	758.1	742.2
55°	25940.2	10031.6	2839.0	1213.2	986.7	1041.5	857.6	791.2	755.9	733.5	719.8
57.5°	27344.5	10233.5	2500.0	1113.7	915.3	1008.4	848.2	771.1	733.5	715.5	698.2
60°	27066.8	9842.6	2212.9	1050.9	872.8	911.0	841.7	753.0	713.3	700.4	683.8
62.5°	24843.1	8820.6	2028.2	1022.1	846.1	830.9	848.2	735.7	696.0	681.6	677.3
65°	21507.9	7311.6	1955.4	1015.6	824.4	784.0	789.1	715.5	675.1	664.3	660.0
67.5°	17741.4	5901.5	1891.2	1037.2	795.6	750.9	729.2	688.8	654.9	644.1	635.4
70°	13990.7	4908.3	1861.6	1024.2	760.2	717.7	693.9	660.0	631.1	619.6	613.1
72.5°	11266.4	4145.9	1845.8	1010.5	713.3	673.0	650.6	621.7	590.7	586.4	579.9
75°	9534.6	3259.5	1691.4	968.7	660.0	619.6	604.4	577.7	546.7	546.7	542.4
77.5°	7354.9	2357.1	1406.5	857.6	604.4	559.7	546.7	526.5	491.2	497.7	495.5
80°	5432.7	1537.8	1100.0	711.2	535.9	493.4	486.1	466.7	428.4	437.8	437.8
82.5°	3721.8	1008.4	791.2	582.1	457.3	417.6	417.6	397.4	355.6	359.9	373.6
85°	1868.8	693.9	590.7	450.8	355.6	335.4	335.4	320.2	277.7	279.9	297.9
87.5°	569.1	417.6	390.9	322.4	255.3	251.0	239.5	228.6	202.0	199.8	211.3
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°	13656.0	13656.0	13656.0	13656.0	13656.0	13656.0	13656.0	13656.0	13656.0	13656.0	13656.0
2.5°	11777.8	11650.9	11498.7	11160.4	11047.2	11039.9	11143.1	11035.6	11240.5	11153.9	11249.1
5°	9497.8	9374.5	9202.8	8772.2	8509.7	8331.5	8247.9	7999.0	8178.6	8047.3	8157.0
7.5°	6985.6	7014.5	6901.2	6648.1	6076.8	5790.4	5621.7	5470.2	5601.5	5587.8	5796.9
10°	4910.5	4987.7	4908.3	4653.0	4189.9	4032.7	4063.7	4123.6	4295.2	4383.2	4705.6
12.5°	3535.0	3530.7	3479.5	3250.8	2946.4	2963.7	3090.7	3194.6	3352.5	3446.3	3774.5
15°	2639.2	2599.5	2577.1	2390.3	2217.2	2255.4	2317.5	2328.3	2428.6	2484.1	2751.0
17.5°	1995.1	2015.3	2039.1	1906.3	1775.1	1750.6	1702.2	1641.6	1671.2	1682.0	1814.7
20°	1583.9	1664.0	1724.6	1630.8	1498.1	1426.0	1363.9	1324.3	1324.3	1322.1	1359.6
22.5°	1384.1	1441.8	1506.8	1441.8	1322.1	1259.4	1224.0	1193.0	1188.7	1188.7	1224.0
25°	1275.9	1317.8	1379.8	1335.8	1246.4	1199.5	1166.3	1126.6	1111.5	1106.4	1131.0
27.5°	1221.9	1239.9	1270.9	1230.5	1155.5	1133.1	1124.5	1089.1	1068.2	1057.4	1082.6
30°	1131.0	1126.6	1128.8	1089.1	1028.5	1026.4	1041.5	1048.7	1041.5	1039.4	1077.6
32.5°	1046.6	1037.2	1035.0	999.7	944.2	931.2	944.2	957.9	973.0	995.4	1039.4
35°	939.8	962.2	975.2	944.2	877.1	837.4	822.3	797.7	784.0	784.0	835.2
37.5°	855.4	906.7	926.8	898.0	824.4	768.9	742.2	737.9	740.0	748.7	797.7
40°	826.6	864.1	881.4	853.3	779.7	729.2	713.3	709.0	713.3	727.1	775.4
42.5°	808.6	835.2	833.1	797.7	737.9	702.5	693.9	688.8	693.9	706.9	760.2
45°	793.4	810.7	793.4	750.9	696.0	677.3	679.4	677.3	681.6	696.0	746.5
47.5°	779.7	786.2	764.6	722.0	664.3	660.0	668.6	675.1	679.4	691.7	744.4
50°	760.2	760.2	740.0	696.0	637.6	639.8	650.6	666.5	668.6	681.6	724.9
52.5°	735.7	733.5	719.8	677.3	615.3	621.7	621.7	639.8	644.1	660.0	704.7
55°	715.5	711.2	704.7	664.3	595.8	606.6	600.1	606.6	617.4	633.3	681.6
57.5°	698.2	688.8	688.8	652.8	579.9	584.2	569.1	577.7	590.7	604.4	654.9
60°	679.4	670.8	675.1	637.6	555.4	551.1	544.6	561.9	566.9	582.1	633.3
62.5°	660.0	652.8	654.9	619.6	538.1	526.5	526.5	542.4	544.6	566.9	615.3
65°	644.1	635.4	633.3	602.3	517.9	504.9	511.4	517.9	522.2	544.6	590.7
67.5°	629.0	610.9	610.9	586.4	495.5	481.8	495.5	493.4	500.6	520.0	557.6
70°	608.8	584.2	586.4	575.6	473.2	457.3	468.8	466.7	471.0	484.0	522.2
72.5°	577.7	557.6	561.9	557.6	450.8	428.4	432.8	432.8	432.8	444.3	484.0
75°	538.1	522.2	535.9	546.7	424.1	393.1	397.4	397.4	390.9	397.4	446.5
77.5°	488.3	479.7	524.4	509.2	393.1	355.6	355.6	351.3	338.3	346.9	399.6
80°	435.7	428.4	484.0	426.3	357.8	309.4	304.4	292.8	279.9	286.3	340.4
82.5°	380.1	373.6	406.8	326.7	309.4	255.3	244.5	224.3	211.3	217.8	266.2
85°	311.6	311.6	313.8	246.7	235.1	195.5	182.5	155.8	139.9	144.3	191.1
87.5°	222.2	228.6	211.3	168.8	139.9	108.9	100.3	84.4	70.7	82.2	100.3
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°	13656.0	13656.0	13656.0	13656.0	13656.0	13656.0	13656.0	13656.0
2.5°	11738.1	11982.7	12260.3	12615.2	12920.3	13419.4	13899.8	14188.3
5°	8776.6	9183.4	9689.0	10341.0	10947.6	11857.9	12762.4	13342.3
7.5°	6280.9	6716.6	7263.3	8076.2	8934.5	10095.8	11291.7	11984.8
10°	5197.6	5644.0	6103.5	6652.4	7354.9	8618.6	10031.6	10813.5
12.5°	4299.6	4777.0	5272.6	5850.3	6500.9	7629.7	9258.4	10158.5
15°	3290.5	3823.5	4407.8	5139.1	5954.2	7259.0	9067.2	10044.6
17.5°	2255.4	2851.2	3568.2	4470.5	5468.0	7138.5	9409.8	10536.5
20°	1552.9	1986.4	2753.1	3810.5	5010.7	7123.4	10066.9	11478.5
22.5°	1299.7	1493.1	2052.8	3203.9	4666.0	7314.5	11087.5	12799.9
25°	1201.7	1317.8	1639.5	2677.4	4415.0	7754.5	12491.9	14510.7
27.5°	1144.7	1248.5	1488.7	2333.3	4217.3	8265.2	13858.0	16168.3
30°	1166.3	1273.1	1446.2	2157.4	3948.3	8691.4	15071.2	17461.5
32.5°	1050.9	1097.8	1239.9	2001.6	3755.0	9049.2	16132.9	18532.6
35°	895.8	977.3	1106.4	1928.7	3759.3	9289.4	17290.6	19900.9
37.5°	853.3	935.5	1028.5	1902.0	3810.5	9545.4	18619.2	21505.7
40°	826.6	902.3	982.4	1886.9	3859.6	9778.4	19921.8	23091.8
42.5°	808.6	877.1	977.3	1832.8	3884.1	9987.6	20992.2	24440.6
45°	806.4	877.1	995.4	1779.4	3921.6	10211.9	21890.2	25438.2
47.5°	808.6	906.7	962.2	1715.2	3921.6	10587.0	22943.2	26328.9
50°	799.9	955.7	926.8	1624.3	3830.7	11298.2	24387.3	27521.9
52.5°	795.6	949.2	857.6	1484.4	3672.8	12427.0	26238.1	29166.5
55°	784.0	915.3	808.6	1275.9	3488.8	13658.2	28220.1	31111.0
57.5°	773.2	810.7	781.9	1093.5	3203.9	14524.4	29584.1	32627.9
60°	866.3	709.0	760.2	1004.0	2823.8	14761.8	29531.4	33232.3
62.5°	802.1	664.3	731.4	984.5	2557.7	14095.3	28166.8	32906.3
65°	629.0	635.4	702.5	1041.5	2486.3	12329.6	25749.0	31397.4
67.5°	575.6	606.6	673.0	1115.8	2493.5	9871.5	22136.9	28110.5
70°	542.4	575.6	639.8	1153.3	2510.8	7359.2	17501.2	22896.4
72.5°	504.9	533.7	602.3	1159.8	2394.7	5345.4	13489.4	16835.4
75°	459.5	486.1	548.9	1010.5	1984.2	3708.1	10318.7	11518.1
77.5°	409.0	428.4	481.8	779.7	1473.6	2373.0	7745.1	8414.5
80°	349.1	359.9	404.6	571.3	1008.4	1484.4	6128.0	6751.9
82.5°	279.9	284.2	313.8	428.4	654.9	953.5	4104.1	4684.0
85°	197.6	197.6	215.7	311.6	446.5	604.4	2228.0	2471.1
87.5°	93.0	95.2	95.2	170.9	233.0	307.3	513.6	315.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)