

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: P299378

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299378  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194679)  
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-SLR-7030  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill  
Light Eliminator Right OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

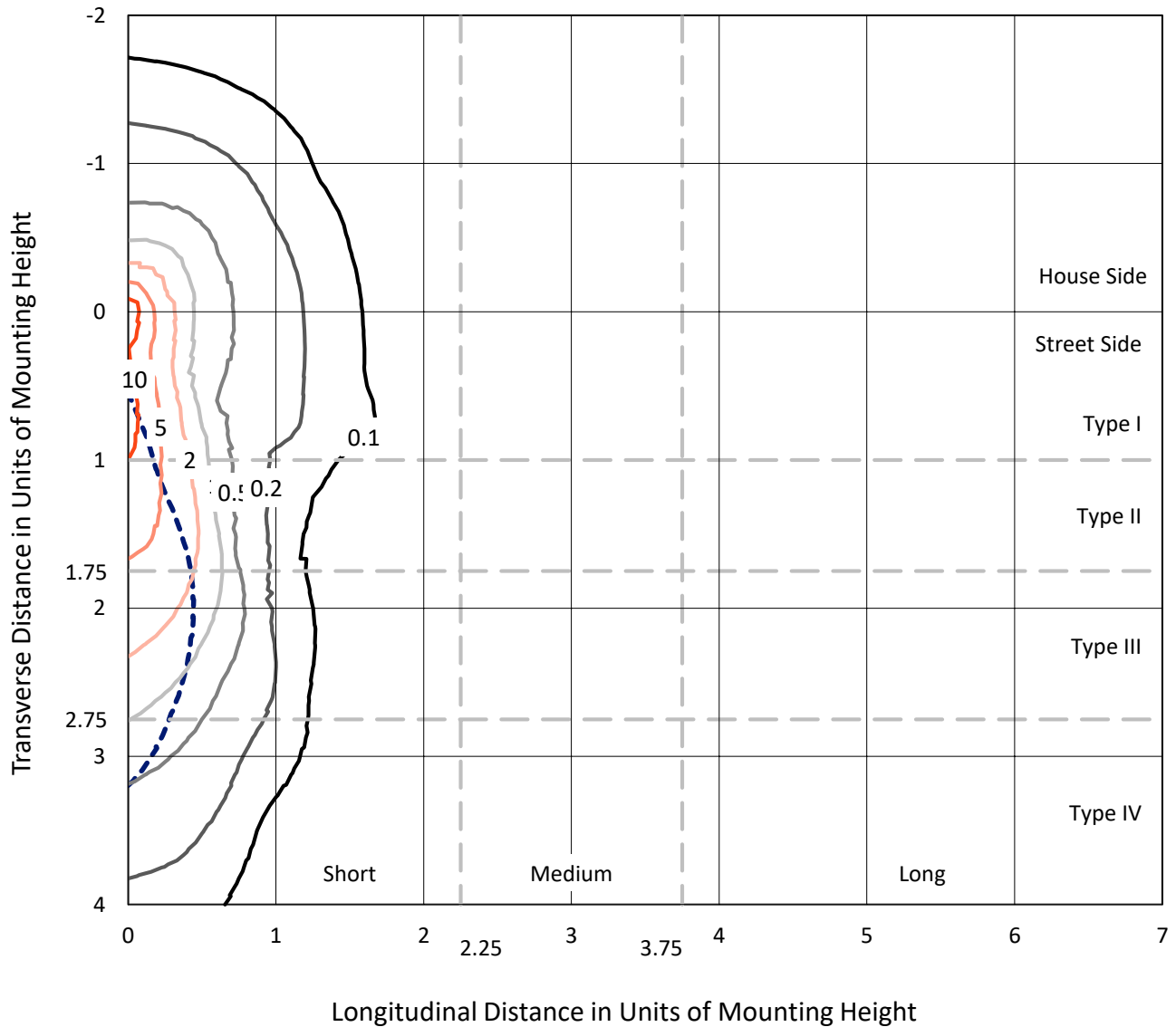
Lumens per Lamp: N/A  
Luminaire Lumens: 40418.6 lumens  
Efficiency: N/A  
Efficacy: 90.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current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

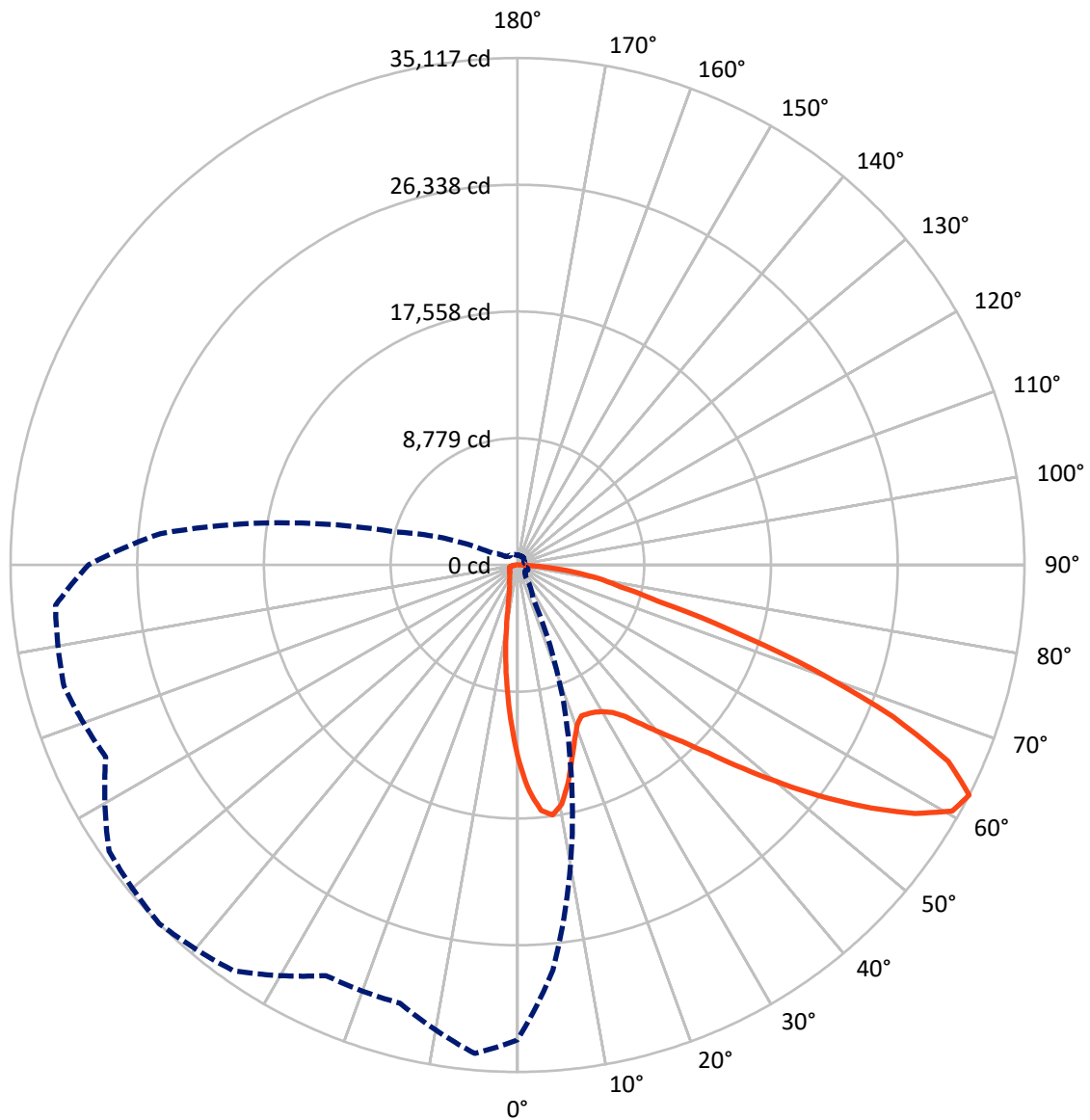
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.2 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	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°	4093.2	10.1
40°-50°	6024.2	14.9
50°-60°	8836.2	21.9
60°-70°	9877.6	24.4
70°-80°	4836.0	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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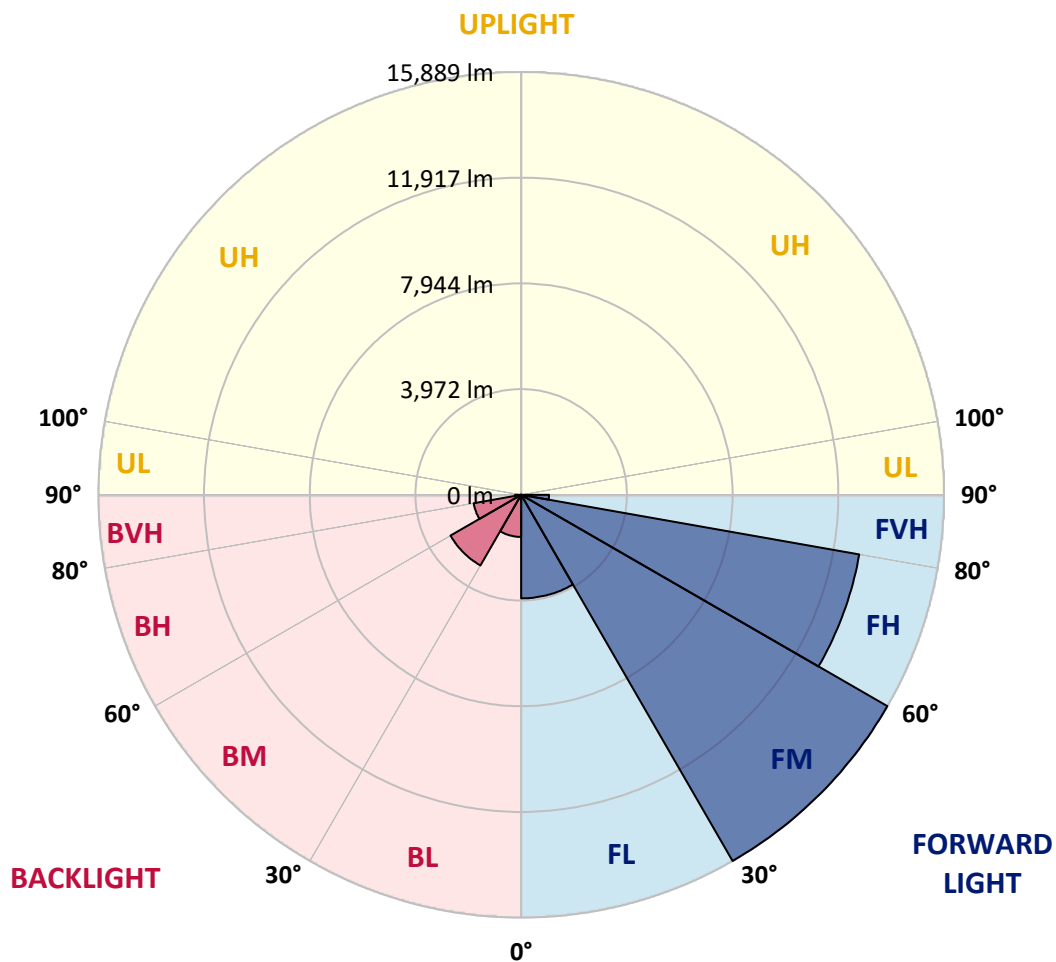
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

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°	13655.8	13655.8	13655.8	13655.8	13655.8	13655.8	13655.8	13655.8	13655.8	13655.8	13655.8
2.5°	14188.5	13900.0	13419.7	12920.0	12615.9	12260.1	11982.3	11738.1	11249.1	11153.6	11240.4
5°	13342.4	12762.6	11857.9	10947.1	10340.4	9689.3	9182.8	8776.5	8156.4	8047.4	8178.6
7.5°	11985.0	11291.5	10096.2	8933.9	8076.3	7263.1	6716.9	6281.1	5796.8	5588.2	5601.0
10°	10813.9	10031.7	8618.5	7354.6	6652.4	6103.5	5643.4	5196.8	4705.7	4383.6	4294.8
12.5°	10158.1	9258.8	7629.7	6501.0	5849.9	5272.8	4777.0	4299.5	3774.8	3445.9	3353.1
15°	10045.1	9067.1	7259.1	5954.8	5138.9	4408.4	3823.9	3290.5	2750.4	2484.0	2428.2
17.5°	10536.1	9409.5	7138.7	5467.8	4470.3	3568.3	2850.6	2255.3	1815.4	1682.3	1670.8
20°	11477.8	10067.3	7123.2	5010.5	3810.5	2753.1	1986.3	1553.1	1360.1	1321.7	1324.4
22.5°	12800.2	11087.0	7314.2	4666.1	3203.8	2052.9	1493.2	1299.5	1224.2	1188.5	1188.5
25°	14510.7	12491.5	7754.1	4415.2	2677.1	1639.9	1317.7	1202.0	1130.7	1106.5	1111.2
27.5°	16168.8	13857.6	8265.3	4217.4	2332.7	1488.5	1248.4	1144.2	1082.3	1057.4	1068.8
30°	17461.6	15071.0	8691.8	3948.4	2157.1	1446.2	1273.3	1166.3	1077.6	1039.9	1041.9
32.5°	18532.4	16133.1	9049.6	3754.6	2001.8	1239.7	1097.7	1050.7	1039.9	995.5	973.3
35°	19901.2	17290.7	9289.7	3759.4	1928.4	1106.5	977.3	895.3	835.4	784.3	784.3
37.5°	21505.5	18619.2	9545.3	3810.5	1902.2	1028.5	935.6	852.9	797.7	748.6	739.9
40°	23091.5	19921.4	9778.8	3859.6	1886.1	982.0	902.0	826.7	775.5	726.4	713.0
42.5°	24440.8	20992.2	9987.3	3883.8	1832.9	977.3	877.8	808.5	760.1	706.3	693.5
45°	25438.3	21889.5	10211.9	3921.5	1779.8	995.5	877.8	806.5	746.6	695.5	682.1
47.5°	26328.9	22942.9	10587.3	3921.5	1715.2	961.9	906.7	808.5	744.6	690.8	680.0
50°	27522.2	24387.0	11298.2	3830.7	1624.4	926.2	955.1	799.8	724.4	682.1	668.6
52.5°	29166.1	26238.1	12426.9	3672.6	1484.5	857.6	948.4	795.7	704.2	659.9	644.4
55°	31110.7	28219.7	13657.8	3488.3	1275.3	808.5	915.5	784.3	682.1	632.9	617.5
57.5°	32628.1	29583.8	14524.2	3203.8	1093.0	782.3	811.2	773.5	655.1	604.0	591.2
60°	33232.2	29530.7	14762.3	2823.7	1004.2	760.1	709.0	866.4	632.9	581.8	566.4
62.5°	32905.9	28166.6	14095.7	2557.4	984.1	731.2	664.6	801.8	615.5	566.4	544.2
65°	31397.2	25749.1	12329.4	2486.1	1041.9	702.2	635.6	628.9	591.2	544.2	522.0
67.5°	28110.7	22136.4	9871.6	2492.8	1115.2	673.3	606.7	575.8	557.6	519.9	499.8
70°	22896.5	17501.9	7358.6	2510.9	1152.9	639.7	575.8	542.1	522.0	484.3	470.8
72.5°	16835.4	13489.0	5346.1	2395.2	1159.6	602.0	533.4	504.5	484.3	444.6	433.2
75°	11518.2	10318.2	3708.2	1984.3	1011.0	548.9	486.3	460.1	446.6	397.5	390.8
77.5°	8414.0	7745.4	2373.1	1473.1	779.6	482.3	429.1	409.0	400.2	346.4	337.7
80°	6752.6	6127.7	1484.5	1009.0	571.1	404.3	359.9	349.1	339.7	286.5	279.8
82.5°	4683.6	4103.7	953.1	655.1	429.1	313.4	284.5	279.8	266.4	217.9	211.2
85°	2470.6	2228.4	604.0	446.6	310.8	215.2	197.8	197.8	191.0	144.6	139.9
87.5°	315.5	513.2	306.7	233.4	170.8	95.5	95.5	93.5	100.2	82.1	71.3
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	13655.8	13655.8	13655.8	13655.8	13655.8	13655.8	13655.8	13655.8	13655.8	13655.8	13655.8
2.5°	11035.9	11142.9	11040.6	11047.3	11160.3	11498.0	11651.4	11777.8	11913.7	12002.5	12042.2
5°	7999.0	8247.8	8331.9	8509.5	8771.8	9203.0	9373.8	9498.3	9581.0	9629.4	9649.6
7.5°	5470.5	5621.2	5790.0	6076.6	6647.6	6901.2	7014.2	6985.3	6892.5	6858.8	6825.9
10°	4123.9	4064.1	4032.4	4190.5	4652.6	4908.2	4988.3	4910.2	4859.1	4870.5	4925.7
12.5°	3195.0	3090.8	2964.3	2946.1	3250.8	3479.5	3530.7	3534.7	3628.2	3710.2	3832.7
15°	2328.7	2317.2	2255.3	2217.7	2390.5	2577.5	2599.7	2639.4	2724.2	2784.0	2890.3
17.5°	1641.9	1701.8	1750.9	1775.1	1906.2	2039.4	2015.2	1995.0	1979.6	1979.6	2030.7
20°	1324.4	1364.1	1426.7	1497.3	1631.1	1724.0	1664.1	1584.1	1526.2	1508.7	1515.4
22.5°	1193.3	1224.2	1259.8	1321.7	1442.1	1506.7	1442.1	1384.3	1326.4	1306.3	1299.5
25°	1126.7	1166.3	1200.0	1246.4	1335.2	1379.6	1317.7	1275.3	1239.7	1215.4	1197.3
27.5°	1089.0	1124.0	1133.4	1155.6	1230.9	1270.6	1239.7	1222.2	1200.0	1177.8	1155.6
30°	1048.6	1041.9	1026.4	1028.5	1089.0	1128.7	1126.7	1130.7	1128.7	1122.0	1117.9
32.5°	957.8	944.4	930.9	944.4	999.5	1035.2	1037.9	1046.6	1046.6	1044.6	1062.1
35°	797.7	822.0	837.4	877.8	944.4	975.3	961.9	939.7	900.0	875.1	873.1
37.5°	737.9	741.9	768.8	824.0	898.0	926.2	906.7	855.6	828.7	824.0	830.7
40°	709.0	713.0	728.5	779.6	852.9	881.8	864.3	826.7	801.8	799.8	811.2
42.5°	688.8	693.5	702.2	737.9	797.7	833.4	835.4	808.5	779.6	782.3	793.0
45°	677.3	680.0	677.3	695.5	750.7	793.0	811.2	793.0	768.8	773.5	786.3
47.5°	675.3	668.6	659.9	664.6	722.4	764.1	786.3	779.6	768.8	773.5	784.3
50°	666.6	651.1	639.7	637.7	695.5	739.9	760.1	760.1	764.1	773.5	784.3
52.5°	639.7	622.2	622.2	615.5	677.3	719.7	733.2	735.2	741.9	757.4	773.5
55°	606.7	600.0	606.7	595.3	664.6	704.2	711.0	715.7	719.7	733.2	755.4
57.5°	577.8	569.0	584.5	579.8	653.1	688.8	688.8	697.5	697.5	715.7	733.2
60°	562.3	544.2	550.9	555.6	637.7	675.3	671.3	680.0	684.1	700.2	713.0
62.5°	542.1	526.7	526.7	537.4	620.2	655.1	653.1	659.9	677.3	682.1	695.5
65°	517.9	511.2	504.5	517.9	602.0	632.9	635.6	644.4	659.9	664.6	675.3
67.5°	493.0	495.7	482.3	495.7	586.5	610.8	610.8	628.9	635.6	644.4	655.1
70°	466.8	468.8	457.4	473.5	575.8	586.5	584.5	608.7	613.4	620.2	630.9
72.5°	433.2	433.2	429.1	451.3	557.6	562.3	557.6	577.8	579.8	586.5	591.2
75°	397.5	397.5	393.5	424.4	546.9	535.4	522.0	537.4	542.1	546.9	546.9
77.5°	351.1	355.8	355.8	393.5	508.5	524.7	479.6	489.0	495.7	497.7	491.0
80°	293.3	304.7	308.7	357.8	426.4	484.3	429.1	435.2	437.9	437.9	429.1
82.5°	224.7	244.2	255.6	308.7	326.9	406.3	373.3	380.0	373.3	359.9	355.8
85°	155.4	182.3	195.7	235.4	246.9	313.4	310.8	310.8	298.0	279.8	277.8
87.5°	84.8	100.2	109.0	139.9	168.8	211.2	228.7	222.0	211.2	199.8	202.5
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°	13655.8	13655.8	13655.8	13655.8	13655.8	13655.8	13655.8	13655.8	13655.8	13655.8	13655.8
2.5°	12251.4	12553.4	13035.6	13404.3	13775.5	14133.4	14520.2	14815.4	15066.3	15164.5	15461.8
5°	9852.1	10229.4	10684.8	11506.8	12089.3	12730.9	13473.5	14455.6	14832.9	15355.6	16210.5
7.5°	6965.8	7307.5	8040.7	8705.2	9529.9	10438.6	11440.2	12795.5	13291.2	14128.7	15521.7
10°	5201.5	5599.0	6187.6	6747.9	7474.3	8403.2	9554.1	11069.5	11671.5	12580.3	14184.5
12.5°	4190.5	4659.3	5283.5	5810.2	6372.5	7027.7	8145.6	9807.0	10614.2	11409.2	13030.9
15°	3219.2	3710.2	4290.7	4959.3	5578.8	6285.8	7456.8	9274.3	10202.5	11031.9	12415.5
17.5°	2228.4	2648.2	3379.3	4076.8	4870.5	5774.6	7265.8	9387.3	10495.8	11451.6	12522.4
20°	1580.0	1819.5	2419.5	3228.6	4217.4	5352.1	7230.1	9982.6	11424.7	12515.7	13206.5
22.5°	1328.5	1417.2	1766.3	2508.3	3650.4	5036.7	7354.6	10818.0	12677.8	14070.8	14297.5
25°	1210.7	1264.6	1446.2	1968.8	3145.9	4808.0	7774.3	12062.3	14228.9	15626.6	15586.3
27.5°	1146.2	1202.0	1321.7	1662.1	2766.5	4666.1	8194.0	13538.1	16002.0	17314.9	16817.2
30°	1126.7	1202.0	1328.5	1566.6	2495.5	4441.4	8538.4	14832.9	17366.1	18455.1	17377.5
32.5°	1111.2	1122.0	1179.8	1350.6	2237.2	4179.1	8771.8	15995.2	18701.2	19539.3	18184.0
35°	898.0	953.1	1046.6	1210.7	2086.5	4021.7	8771.8	16997.5	20016.9	20634.4	18952.8
37.5°	864.3	913.4	995.5	1135.4	2001.8	3943.7	8596.3	17964.0	21360.8	21876.7	19585.8
40°	846.8	886.5	964.6	1077.6	1966.1	3854.9	8340.7	18816.9	22673.8	23120.5	20177.0
42.5°	833.4	869.0	942.4	1041.9	1919.7	3757.3	8134.2	19501.0	23813.9	24182.5	20741.3
45°	826.7	864.3	944.4	1060.1	1826.2	3628.2	8065.6	20240.9	24751.6	25069.1	21352.1
47.5°	826.7	871.1	955.1	1097.7	1715.2	3495.0	8280.8	21216.9	25638.1	25793.5	22071.8
50°	819.9	869.0	986.8	1060.1	1553.1	3326.2	8787.3	22445.1	26598.0	26615.5	22983.2
52.5°	806.5	864.3	1062.1	1037.9	1366.1	3104.2	9472.0	24023.1	28017.9	28124.2	24409.2
55°	791.0	857.6	1041.9	986.8	1213.4	2839.9	10031.7	25940.1	30012.9	30308.2	26507.2
57.5°	770.8	848.9	1009.0	915.5	1113.2	2499.5	10234.1	27344.6	31406.0	32147.9	28870.8
60°	753.4	842.1	910.7	873.1	1050.7	2213.0	9842.7	27066.8	31310.4	32910.0	30966.1
62.5°	735.2	848.9	830.7	846.8	1021.7	2028.7	8820.9	24842.4	29726.4	32123.7	32519.2
65°	715.7	789.0	784.3	824.0	1015.7	1955.3	7312.2	21507.5	26664.6	29637.6	32885.8
67.5°	688.8	728.5	750.7	795.7	1037.9	1890.8	5901.0	17741.4	22409.5	25911.2	30974.8
70°	659.9	693.5	717.7	760.1	1024.4	1861.9	4908.2	13990.8	17781.8	21236.4	27204.7
72.5°	622.2	651.1	673.3	713.0	1011.0	1846.4	4146.1	11267.3	13275.8	15775.3	22118.9
75°	577.8	604.0	620.2	659.9	968.6	1691.0	3259.6	9533.9	9934.1	10974.0	17617.0
77.5°	526.7	546.9	559.6	604.0	857.6	1406.5	2357.6	7354.6	7714.4	7967.4	13506.5
80°	466.8	486.3	493.0	535.4	711.0	1099.8	1537.6	5432.2	5769.9	5827.7	8820.9
82.5°	397.5	417.7	417.7	457.4	581.8	791.0	1009.0	3721.7	3788.3	3984.0	6234.6
85°	320.2	335.6	335.6	355.8	451.3	591.2	693.5	1868.6	1848.4	2110.7	5401.3
87.5°	228.7	240.1	250.9	255.6	322.2	390.8	417.7	569.0	375.3	431.2	3468.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P299378

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**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	13655.8	13655.8	13655.8	13655.8	13655.8	13655.8	13655.8	13655.8
2.5°	15686.5	15813.0	15683.8	15591.0	15188.7	14857.8	14415.2	14188.5
5°	16861.6	17183.8	17074.8	16684.0	15843.9	14899.5	13826.7	13342.4
7.5°	16719.7	17468.3	17485.8	16755.3	15517.7	14126.7	12673.8	11985.0
10°	15613.2	16570.3	16844.1	16135.1	14822.2	13267.0	11600.2	10813.9
12.5°	14377.6	15315.2	15524.4	15279.6	14182.5	12620.0	10929.6	10158.1
15°	13366.6	13787.0	14035.2	14249.1	13633.6	12362.3	10891.3	10045.1
17.5°	12751.1	12704.7	12776.0	13146.6	13250.9	12657.6	11469.1	10536.1
20°	12529.2	11816.2	11798.0	12309.2	13071.3	13362.5	12597.8	11477.8
22.5°	12651.6	11496.0	11349.4	11956.1	13166.8	14377.6	14077.6	12800.2
25°	13073.3	11522.9	11404.5	11991.7	13513.2	15459.8	15675.1	14510.7
27.5°	13737.9	11691.7	11535.7	12138.4	13973.3	16368.5	17248.4	16168.8
30°	14368.8	11985.0	11791.3	12426.9	14393.0	16728.4	18212.9	17461.6
32.5°	15135.6	12533.9	12193.5	12957.6	14913.0	17301.5	19072.5	18532.4
35°	15886.3	13315.5	12893.7	13777.6	15492.8	18015.2	20054.6	19901.2
37.5°	16710.9	14337.9	13988.8	14837.6	16286.5	18687.8	21307.7	21505.5
40°	17590.7	15693.2	15279.6	16384.0	17517.4	19532.6	22616.6	23091.5
42.5°	18477.3	17197.2	16704.2	17823.5	18870.1	20365.3	23735.9	24440.8
45°	19492.3	18830.4	18597.0	19807.7	20170.3	21159.0	24562.6	25438.3
47.5°	20674.8	20683.5	21058.8	21543.1	21481.2	22056.3	25394.0	26328.9
50°	22054.3	22996.0	23825.4	24146.9	22831.9	23020.9	26546.8	27522.2
52.5°	23711.7	25762.6	26789.0	26577.8	24287.5	24198.0	28373.0	29166.1
55°	25784.8	28691.2	29710.9	29559.6	25960.3	25802.2	30648.6	31110.7
57.5°	28184.0	31528.4	32466.0	31786.0	27968.8	27562.5	32530.6	32628.1
60°	30292.7	33777.0	34599.0	33845.6	29995.4	29435.1	33705.7	33232.2
62.5°	31465.8	34539.1	35116.9	34305.7	31383.8	31430.2	33963.3	32905.9
65°	30941.8	32612.7	32799.0	32732.4	31025.9	32587.8	33037.1	31397.2
67.5°	28071.0	27742.1	28055.6	28488.7	27960.1	31063.6	30470.3	28110.7
70°	23014.2	21207.5	21832.4	22122.9	22363.1	26731.1	26446.6	22896.5
72.5°	17343.9	14857.8	15350.9	15291.0	16401.5	21440.9	20567.8	16835.4
75°	12289.0	10074.0	10135.9	10111.7	11444.9	16774.8	14893.5	11518.2
77.5°	8598.3	7298.8	7332.4	7469.6	7694.3	12651.6	10640.4	8414.0
80°	5912.5	5539.1	5723.4	5734.9	5332.6	8498.7	7861.1	6752.6
82.5°	4403.7	3850.2	3805.8	3870.3	4179.1	6885.8	6040.9	4683.6
85°	3606.0	2279.6	1832.9	2297.7	3703.5	6819.2	4012.9	2470.6
87.5°	2030.7	1082.3	489.0	906.7	1477.8	4514.7	1159.6	315.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)