

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: P299444

Luminaire Tested: **GLNA-AF-09-LED-E1-SLR-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299444  
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-09-LED-E1-SLR-7030-800  
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill  
Light Eliminator Right OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36424.9 lumens  
Efficiency: N/A  
Efficacy: 97.4 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): 374  
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

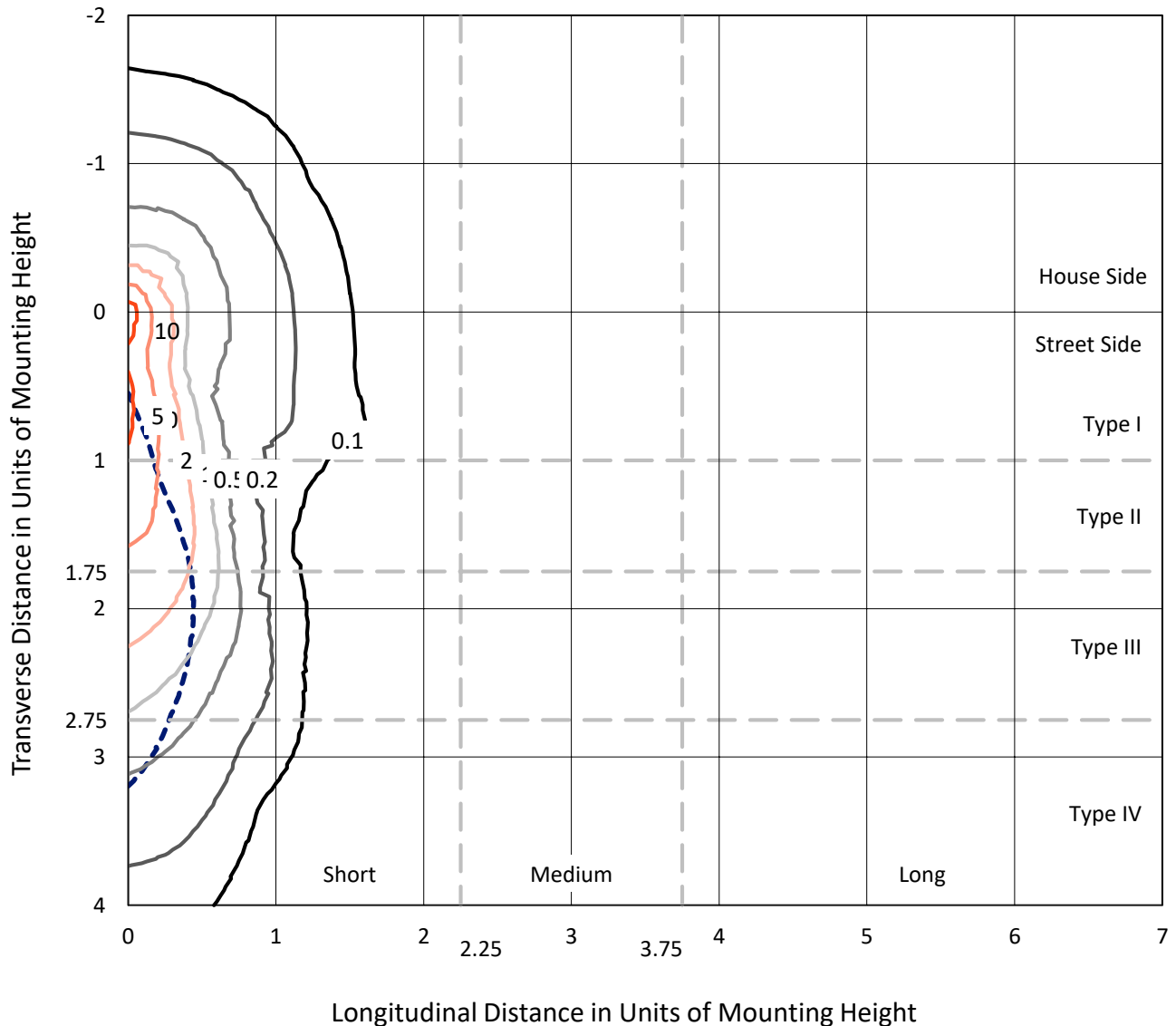


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### Iso-Footcandle Lines of Horizontal Illumination

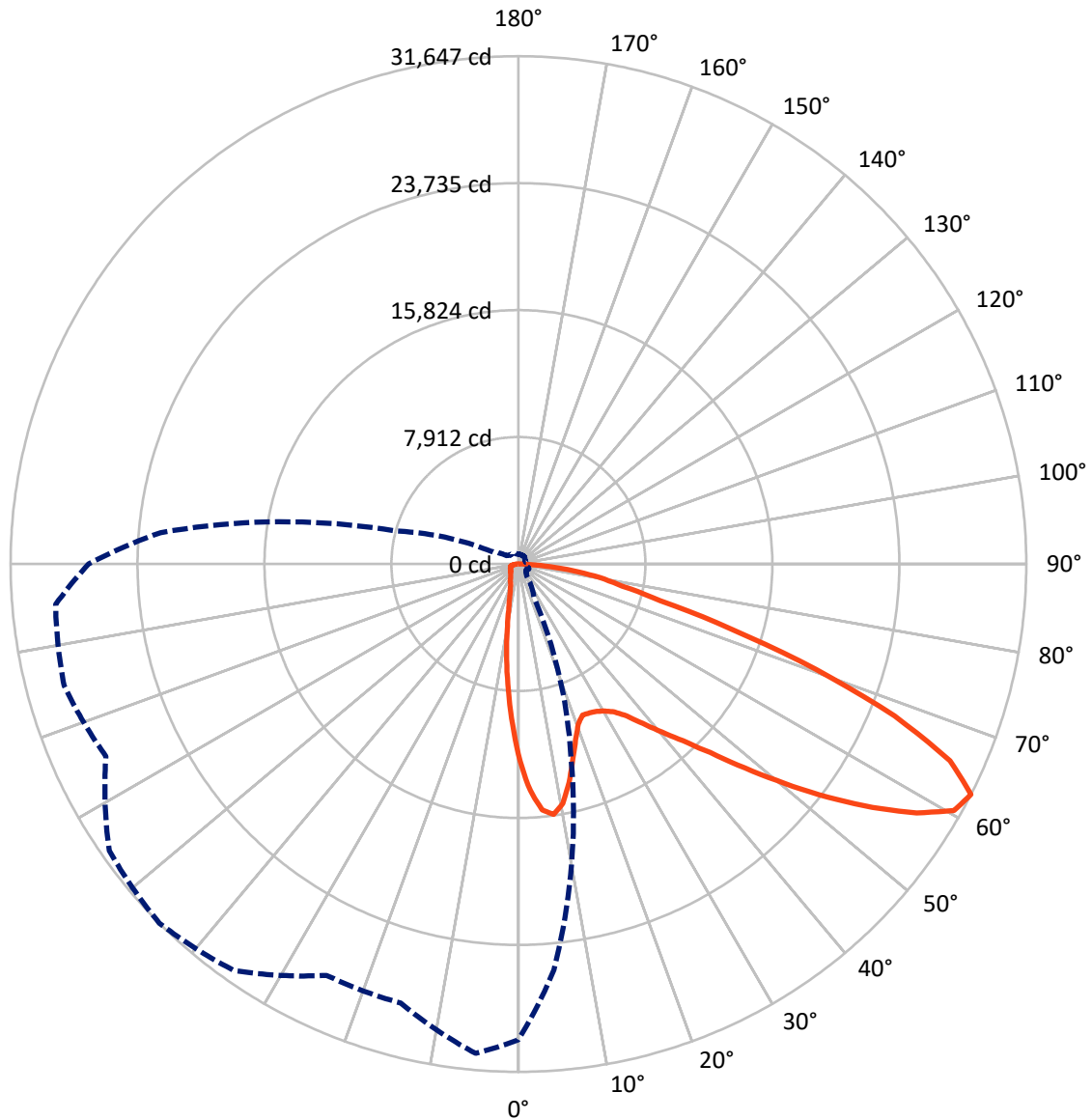
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.7 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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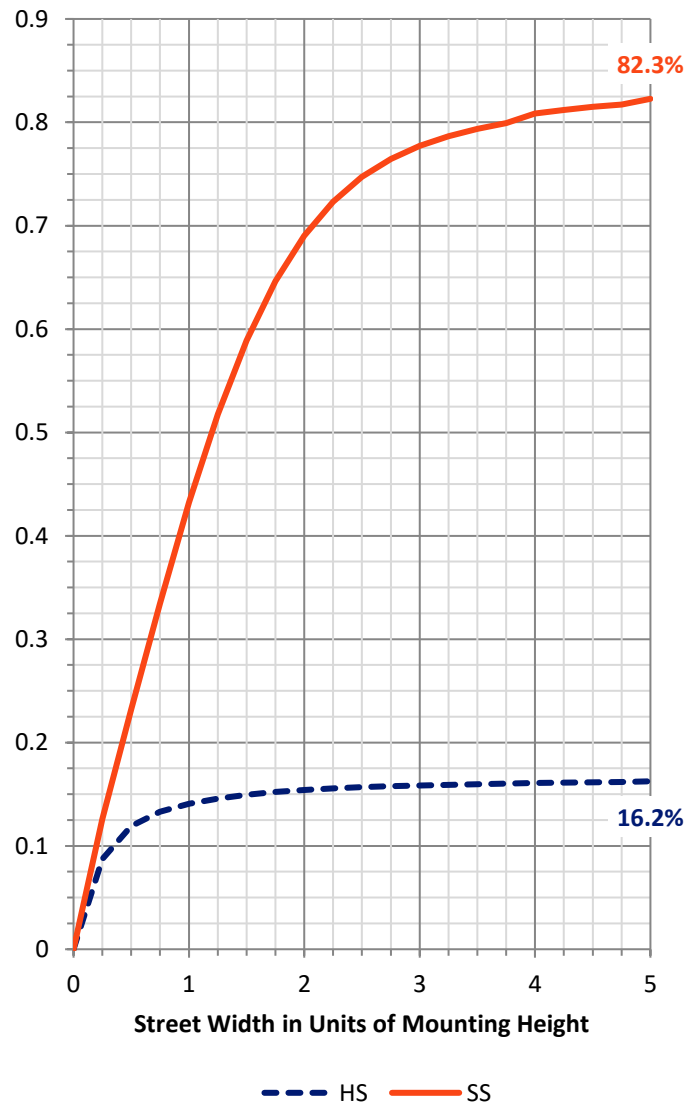
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6027.8	0.0	6027.8
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	30397.0	0.0	30397.0
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	36424.9	0.0	36424.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	895.8	2.5
10°-20°	1642.7	4.5
20°-30°	2395.1	6.6
30°-40°	3688.8	10.1
40°-50°	5428.9	14.9
50°-60°	7963.1	21.9
60°-70°	8901.6	24.4
70°-80°	4358.1	12.0
80°-90°	1150.6	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°	36424.9	100.0
0°-180°	36424.9	100.0

**Coefficient of Utilization**



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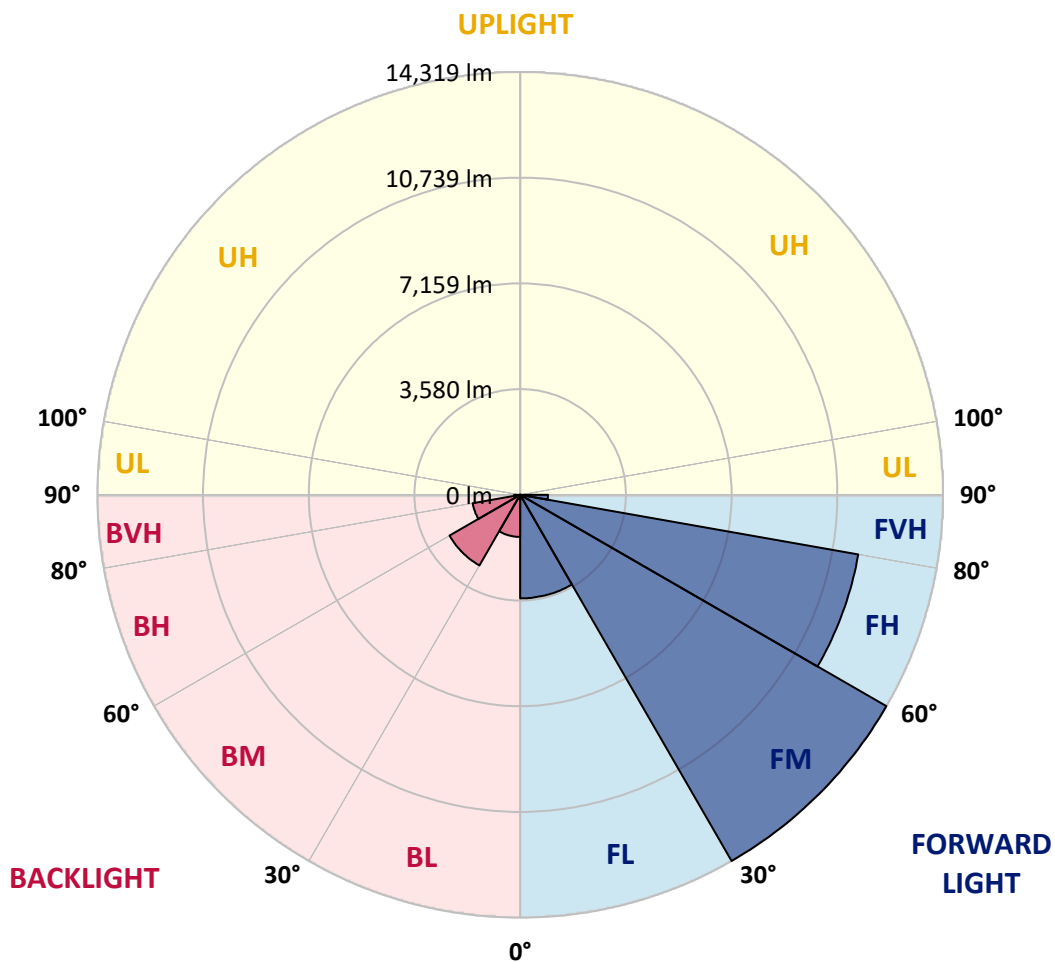
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3507.6	9.6			
FM (30°-60°)	14318.9	39.3			
FH (60°-80°)	11625.6	31.9			G4/12000
FVH (80°-90°)	944.9	2.6			G5
BL (0°-30°)	1426.1	3.9	B3/2500		
BM (30°-60°)	2761.9	7.6	B3/5000		
BH (60°-80°)	1634.2	4.5	B3/2500		G3/2500
BVH (80°-90°)	205.7	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-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	12306.5	12306.5	12306.5	12306.5	12306.5	12306.5	12306.5	12306.5	12306.5	12306.5	12306.5
2.5°	12786.6	12526.5	12093.7	11643.3	11369.4	11048.7	10798.3	10578.3	10137.6	10051.5	10129.7
5°	12024.0	11501.5	10686.2	9865.4	9318.7	8731.9	8275.5	7909.3	7350.4	7252.2	7370.4
7.5°	10800.8	10175.8	9098.6	8051.2	7278.3	6545.4	6053.2	5660.4	5224.0	5036.1	5047.6
10°	9745.4	9040.4	7766.9	6627.9	5995.0	5500.4	5085.8	4683.3	4240.8	3950.4	3870.4
12.5°	9154.4	8344.0	6875.8	5858.6	5271.9	4751.8	4305.0	3874.6	3401.8	3105.4	3021.8
15°	9052.6	8171.2	6541.8	5366.4	4631.2	3972.8	3446.1	2965.4	2478.6	2238.6	2188.3
17.5°	9495.1	8479.7	6433.3	4927.6	4028.6	3215.7	2569.0	2032.5	1636.1	1516.0	1505.7
20°	10343.7	9072.6	6419.4	4515.4	3434.0	2481.1	1790.0	1399.7	1225.7	1191.1	1193.6
22.5°	11535.4	9991.5	6591.5	4205.0	2887.2	1850.0	1345.7	1171.1	1103.2	1071.1	1071.1
25°	13076.9	11257.2	6987.9	3978.9	2412.6	1477.8	1187.5	1083.2	1019.0	997.2	1001.4
27.5°	14571.2	12488.3	7448.6	3800.7	2102.2	1341.5	1125.1	1031.1	975.3	952.9	963.2
30°	15736.2	13581.9	7833.0	3558.2	1944.0	1303.3	1147.5	1051.1	971.1	937.1	939.0
32.5°	16701.2	14539.0	8155.4	3383.7	1804.0	1117.2	989.3	946.8	937.1	897.1	877.1
35°	17934.8	15582.2	8371.8	3387.9	1737.9	997.2	880.8	806.8	752.9	706.8	706.8
37.5°	19380.5	16779.4	8602.2	3434.0	1714.3	926.8	843.2	768.6	718.9	674.7	666.8
40°	20809.9	17953.0	8812.5	3478.2	1699.7	885.0	812.9	745.0	698.9	654.7	642.5
42.5°	22025.9	18918.0	9000.4	3500.0	1651.8	880.8	791.1	728.6	685.0	636.5	625.0
45°	22924.8	19726.6	9202.9	3534.0	1603.9	897.1	791.1	726.8	672.9	626.8	614.7
47.5°	23727.4	20675.9	9541.1	3534.0	1545.7	866.8	817.1	728.6	671.0	622.5	612.8
50°	24802.7	21977.4	10181.9	3452.1	1463.9	834.7	860.8	720.7	652.8	614.7	602.5
52.5°	26284.2	23645.5	11199.0	3309.7	1337.8	772.9	854.7	717.1	634.7	594.7	580.7
55°	28036.7	25431.3	12308.3	3143.6	1149.3	728.6	825.0	706.8	614.7	570.4	556.5
57.5°	29404.2	26660.6	13089.1	2887.2	985.0	705.0	731.0	697.1	590.4	544.3	532.8
60°	29948.5	26612.8	13303.7	2544.7	905.0	685.0	638.9	780.7	570.4	524.3	510.4
62.5°	29654.5	25383.4	12702.9	2304.7	886.8	658.9	598.9	722.6	554.6	510.4	490.4
65°	28294.9	23204.9	11111.1	2240.4	939.0	632.8	572.8	566.8	532.8	490.4	470.4
67.5°	25333.1	19949.1	8896.2	2246.5	1005.0	606.8	546.8	518.9	502.5	468.6	450.4
70°	20634.1	15772.6	6631.5	2262.8	1039.0	576.5	518.9	488.6	470.4	436.4	424.3
72.5°	15171.9	12156.2	4817.9	2158.6	1045.0	542.5	480.7	454.6	436.4	400.7	390.4
75°	10380.1	9298.7	3341.8	1788.2	911.1	494.6	438.3	414.6	402.5	358.2	352.2
77.5°	7582.6	6980.1	2138.6	1327.5	702.6	434.6	386.7	368.6	360.7	312.2	304.3
80°	6085.4	5522.2	1337.8	909.3	514.6	364.3	324.3	314.6	306.1	258.2	252.2
82.5°	4220.8	3698.3	858.9	590.4	386.7	282.5	256.4	252.2	240.0	196.4	190.3
85°	2226.5	2008.2	544.3	402.5	280.1	194.0	178.2	178.2	172.2	130.3	126.1
87.5°	284.3	462.5	276.4	210.3	154.0	86.1	86.1	84.3	90.3	74.0	64.3
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°	12306.5	12306.5	12306.5	12306.5	12306.5	12306.5	12306.5	12306.5	12306.5	12306.5	12306.5
2.5°	9945.5	10041.8	9949.7	9955.8	10057.6	10361.9	10500.1	10614.1	10736.5	10816.5	10852.3
5°	7208.6	7432.9	7508.6	7668.7	7905.1	8293.6	8447.6	8559.8	8634.3	8678.0	8696.1
7.5°	4930.0	5065.8	5217.9	5476.2	5990.8	6219.3	6321.2	6295.1	6211.4	6181.1	6151.4
10°	3716.4	3662.5	3634.0	3776.4	4192.9	4423.2	4495.4	4425.1	4379.0	4389.3	4439.0
12.5°	2879.3	2785.4	2671.4	2655.0	2929.6	3135.7	3181.8	3185.4	3269.7	3343.6	3454.0
15°	2098.6	2088.3	2032.5	1998.5	2154.3	2322.8	2342.9	2378.6	2455.0	2508.9	2604.7
17.5°	1479.7	1533.6	1577.9	1599.7	1717.9	1837.9	1816.1	1797.9	1784.0	1784.0	1830.0
20°	1193.6	1229.3	1285.7	1349.3	1470.0	1553.6	1499.7	1427.5	1375.4	1359.6	1365.7
22.5°	1075.3	1103.2	1135.4	1191.1	1299.6	1357.8	1299.6	1247.5	1195.4	1177.2	1171.1
25°	1015.3	1051.1	1081.4	1123.2	1203.3	1243.3	1187.5	1149.3	1117.2	1095.4	1079.0
27.5°	981.4	1012.9	1021.4	1041.4	1109.3	1145.1	1117.2	1101.4	1081.4	1061.4	1041.4
30°	945.0	939.0	925.0	926.8	981.4	1017.2	1015.3	1019.0	1017.2	1011.1	1007.5
32.5°	863.2	851.1	838.9	851.1	900.8	932.9	935.3	943.2	943.2	941.4	957.1
35°	718.9	740.7	754.7	791.1	851.1	878.9	866.8	846.8	811.1	788.6	786.8
37.5°	665.0	668.6	692.9	742.6	809.2	834.7	817.1	771.1	746.8	742.6	748.6
40°	638.9	642.5	656.5	702.6	768.6	794.7	778.9	745.0	722.6	720.7	731.0
42.5°	620.7	625.0	632.8	665.0	718.9	751.0	752.9	728.6	702.6	705.0	714.7
45°	610.4	612.8	610.4	626.8	676.5	714.7	731.0	714.7	692.9	697.1	708.6
47.5°	608.6	602.5	594.7	598.9	651.0	688.6	708.6	702.6	692.9	697.1	706.8
50°	600.7	586.8	576.5	574.7	626.8	666.8	685.0	685.0	688.6	697.1	706.8
52.5°	576.5	560.7	560.7	554.6	610.4	648.6	660.7	662.5	668.6	682.5	697.1
55°	546.8	540.7	546.8	536.5	598.9	634.7	640.7	645.0	648.6	660.7	680.7
57.5°	520.7	512.8	526.8	522.5	588.6	620.7	620.7	628.6	628.6	645.0	660.7
60°	506.8	490.4	496.5	500.7	574.7	608.6	605.0	612.8	616.5	631.0	642.5
62.5°	488.6	474.6	474.6	484.3	558.9	590.4	588.6	594.7	610.4	614.7	626.8
65°	466.8	460.7	454.6	466.8	542.5	570.4	572.8	580.7	594.7	598.9	608.6
67.5°	444.3	446.7	434.6	446.7	528.6	550.4	550.4	566.8	572.8	580.7	590.4
70°	420.7	422.5	412.2	426.7	518.9	528.6	526.8	548.6	552.8	558.9	568.6
72.5°	390.4	390.4	386.7	406.7	502.5	506.8	502.5	520.7	522.5	528.6	532.8
75°	358.2	358.2	354.6	382.5	492.8	482.5	470.4	484.3	488.6	492.8	492.8
77.5°	316.4	320.7	320.7	354.6	458.3	472.8	432.2	440.7	446.7	448.6	442.5
80°	264.3	274.6	278.2	322.5	384.3	436.4	386.7	392.2	394.6	394.6	386.7
82.5°	202.5	220.0	230.3	278.2	294.6	366.1	336.4	342.5	336.4	324.3	320.7
85°	140.0	164.3	176.4	212.2	222.5	282.5	280.1	280.1	268.5	252.2	250.3
87.5°	76.4	90.3	98.2	126.1	152.1	190.3	206.1	200.0	190.3	180.0	182.5
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°	12306.5	12306.5	12306.5	12306.5	12306.5	12306.5	12306.5	12306.5	12306.5	12306.5	12306.5
2.5°	11040.8	11313.0	11747.6	12079.8	12414.4	12736.9	13085.4	13351.5	13577.6	13666.1	13934.1
5°	8878.6	9218.7	9629.0	10369.8	10894.7	11473.0	12142.2	13027.2	13367.3	13838.3	14608.7
7.5°	6277.5	6585.4	7246.2	7845.1	8588.2	9407.2	10309.8	11531.2	11978.0	12732.6	13988.0
10°	4687.5	5045.8	5576.2	6081.1	6735.8	7572.9	8610.1	9975.8	10518.3	11337.2	12782.9
12.5°	3776.4	4199.0	4761.5	5236.1	5742.9	6333.3	7340.7	8838.0	9565.4	10281.9	11743.4
15°	2901.1	3343.6	3866.8	4469.3	5027.6	5664.7	6720.0	8357.9	9194.4	9941.8	11188.7
17.5°	2008.2	2386.5	3045.4	3674.0	4389.3	5204.0	6547.9	8459.7	9458.7	10320.1	11285.1
20°	1423.9	1639.7	2180.4	2909.6	3800.7	4823.3	6515.7	8996.2	10295.8	11279.0	11901.6
22.5°	1197.2	1277.2	1591.8	2260.4	3289.7	4539.0	6627.9	9749.1	11425.1	12680.5	12884.8
25°	1091.1	1139.6	1303.3	1774.3	2835.1	4332.9	7006.1	10870.5	12823.0	14082.6	14046.2
27.5°	1032.9	1083.2	1191.1	1497.9	2493.2	4205.0	7384.4	12200.4	14420.8	15604.1	15155.5
30°	1015.3	1083.2	1197.2	1411.8	2248.9	4002.6	7694.7	13367.3	15650.1	16631.5	15660.4
32.5°	1001.4	1011.1	1063.2	1217.2	2016.1	3766.1	7905.1	14414.8	16853.4	17608.7	16387.2
35°	809.2	858.9	943.2	1091.1	1880.3	3624.3	7905.1	15318.0	18039.1	18595.5	17080.1
37.5°	778.9	823.2	897.1	1023.2	1804.0	3554.0	7746.9	16189.0	19250.2	19715.1	17650.5
40°	763.2	798.9	869.3	971.1	1771.8	3474.0	7516.5	16957.7	20433.4	20835.9	18183.3
42.5°	751.0	783.2	849.2	939.0	1730.0	3386.1	7330.4	17574.1	21460.9	21793.1	18691.9
45°	745.0	778.9	851.1	955.3	1645.8	3269.7	7268.6	18240.9	22305.9	22592.0	19242.3
47.5°	745.0	785.0	860.8	989.3	1545.7	3149.7	7462.6	19120.5	23104.8	23244.9	19890.9
50°	738.9	783.2	889.3	955.3	1399.7	2997.5	7919.0	20227.3	23969.8	23985.6	20712.3
52.5°	726.8	778.9	957.1	935.3	1231.1	2797.5	8536.1	21649.4	25249.5	25345.3	21997.4
55°	712.9	772.9	939.0	889.3	1093.5	2559.3	9040.4	23377.0	27047.4	27313.5	23888.0
57.5°	694.7	765.0	909.3	825.0	1003.2	2252.5	9222.9	24642.7	28302.8	28971.4	26018.1
60°	678.9	758.9	820.8	786.8	946.8	1994.3	8870.1	24392.3	28216.7	29658.2	27906.3
62.5°	662.5	765.0	748.6	763.2	920.8	1828.2	7949.3	22387.7	26789.2	28949.5	29306.0
65°	645.0	711.0	706.8	742.6	915.3	1762.1	6589.7	19382.3	24029.9	26709.1	29636.3
67.5°	620.7	656.5	676.5	717.1	935.3	1703.9	5317.9	15988.4	20195.2	23350.9	27914.2
70°	594.7	625.0	646.8	685.0	923.2	1677.9	4423.2	12608.4	16024.8	19138.1	24516.6
72.5°	560.7	586.8	606.8	642.5	911.1	1663.9	3736.4	10154.0	11964.0	14216.5	19933.4
75°	520.7	544.3	558.9	594.7	872.9	1523.9	2937.5	8591.9	8952.5	9889.7	15876.2
77.5°	474.6	492.8	504.3	544.3	772.9	1267.5	2124.6	6627.9	6952.2	7180.1	12171.9
80°	420.7	438.3	444.3	482.5	640.7	991.1	1385.7	4895.4	5199.7	5251.9	7949.3
82.5°	358.2	376.4	376.4	412.2	524.3	712.9	909.3	3353.9	3414.0	3590.4	5618.6
85°	288.5	302.5	302.5	320.7	406.7	532.8	625.0	1683.9	1665.8	1902.2	4867.6
87.5°	206.1	216.4	226.1	230.3	290.4	352.2	376.4	512.8	338.2	388.6	3125.4
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: P299444

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**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	12306.5	12306.5	12306.5	12306.5	12306.5	12306.5	12306.5	12306.5
2.5°	14136.5	14250.5	14134.1	14050.5	13688.0	13389.7	12990.9	12786.6
5°	15195.5	15485.9	15387.7	15035.5	14278.4	13427.3	12460.5	12024.0
7.5°	15067.6	15742.3	15758.0	15099.7	13984.4	12730.8	11421.5	10800.8
10°	14070.5	14933.0	15179.8	14540.8	13357.6	11956.1	10454.0	9745.4
12.5°	12956.9	13801.9	13990.4	13769.8	12781.1	11373.0	9849.7	9154.4
15°	12045.8	12424.7	12648.4	12841.1	12286.5	11140.8	9815.1	9052.6
17.5°	11491.2	11449.4	11513.6	11847.6	11941.6	11406.9	10335.8	9495.1
20°	11291.2	10648.6	10632.3	11092.9	11779.7	12042.2	11353.0	10343.7
22.5°	11401.5	10360.1	10227.9	10774.7	11865.8	12956.9	12686.6	11535.4
25°	11781.6	10384.3	10277.6	10806.8	12178.0	13932.3	14126.2	13076.9
27.5°	12380.5	10536.5	10395.8	10939.0	12592.6	14751.2	15544.1	14571.2
30°	12949.0	10800.8	10626.2	11199.0	12970.9	15075.5	16413.3	15736.2
32.5°	13640.1	11295.4	10988.7	11677.3	13439.4	15591.9	17188.0	16701.2
35°	14316.6	11999.8	11619.7	12416.2	13962.0	16235.1	18073.0	17934.8
37.5°	15059.7	12921.2	12606.6	13371.5	14677.2	16841.3	19202.3	19380.5
40°	15852.6	14142.6	13769.8	14765.1	15786.5	17602.6	20381.9	20809.9
42.5°	16651.5	15498.0	15053.7	16062.3	17005.5	18353.1	21390.6	22025.9
45°	17566.2	16969.8	16759.4	17850.5	18177.3	19068.3	22135.6	22924.8
47.5°	18631.9	18639.8	18978.0	19414.5	19358.7	19877.0	22884.8	23727.4
50°	19875.2	20723.8	21471.2	21761.0	20575.9	20746.2	23923.8	24802.7
52.5°	21368.8	23217.0	24142.0	23951.7	21887.6	21807.0	25569.5	26284.2
55°	23237.0	25856.3	26775.2	26638.8	23395.2	23252.7	27620.2	28036.7
57.5°	25399.2	28413.1	29258.1	28645.2	25205.2	24839.1	29316.3	29404.2
60°	27299.5	30439.5	31180.3	30501.3	27031.6	26526.7	30375.3	29948.5
62.5°	28356.7	31126.3	31647.0	30916.0	28282.8	28324.6	30607.4	29654.5
65°	27884.5	29390.2	29558.1	29498.1	27960.3	29367.8	29772.7	28294.9
67.5°	25297.4	25000.9	25283.4	25673.8	25197.3	27994.2	27459.6	25333.1
70°	20740.2	19112.0	19675.1	19937.0	20153.4	24089.9	23833.5	20634.1
72.5°	15630.1	13389.7	13834.1	13780.1	14780.9	19322.3	18535.5	15171.9
75°	11074.8	9078.6	9134.4	9112.6	10314.0	15117.3	13421.9	10380.1
77.5°	7748.7	6577.6	6607.9	6731.5	6934.0	11401.5	9589.0	7582.6
80°	5328.2	4991.8	5157.9	5168.2	4805.7	7659.0	7084.3	6085.4
82.5°	3968.6	3469.7	3429.7	3487.9	3766.1	6205.4	5444.0	4220.8
85°	3249.7	2054.3	1651.8	2070.7	3337.6	6145.4	3616.4	2226.5
87.5°	1830.0	975.3	440.7	817.1	1331.8	4068.6	1045.0	284.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)