

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: P269576

Luminaire Tested: **GLEON-AF-08-LED-E1-SLR-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269576  
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-08-LED-E1-SLR-7027-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 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: 39956.1 lumens  
Efficiency: N/A  
Efficacy: 78.2 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): 511  
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

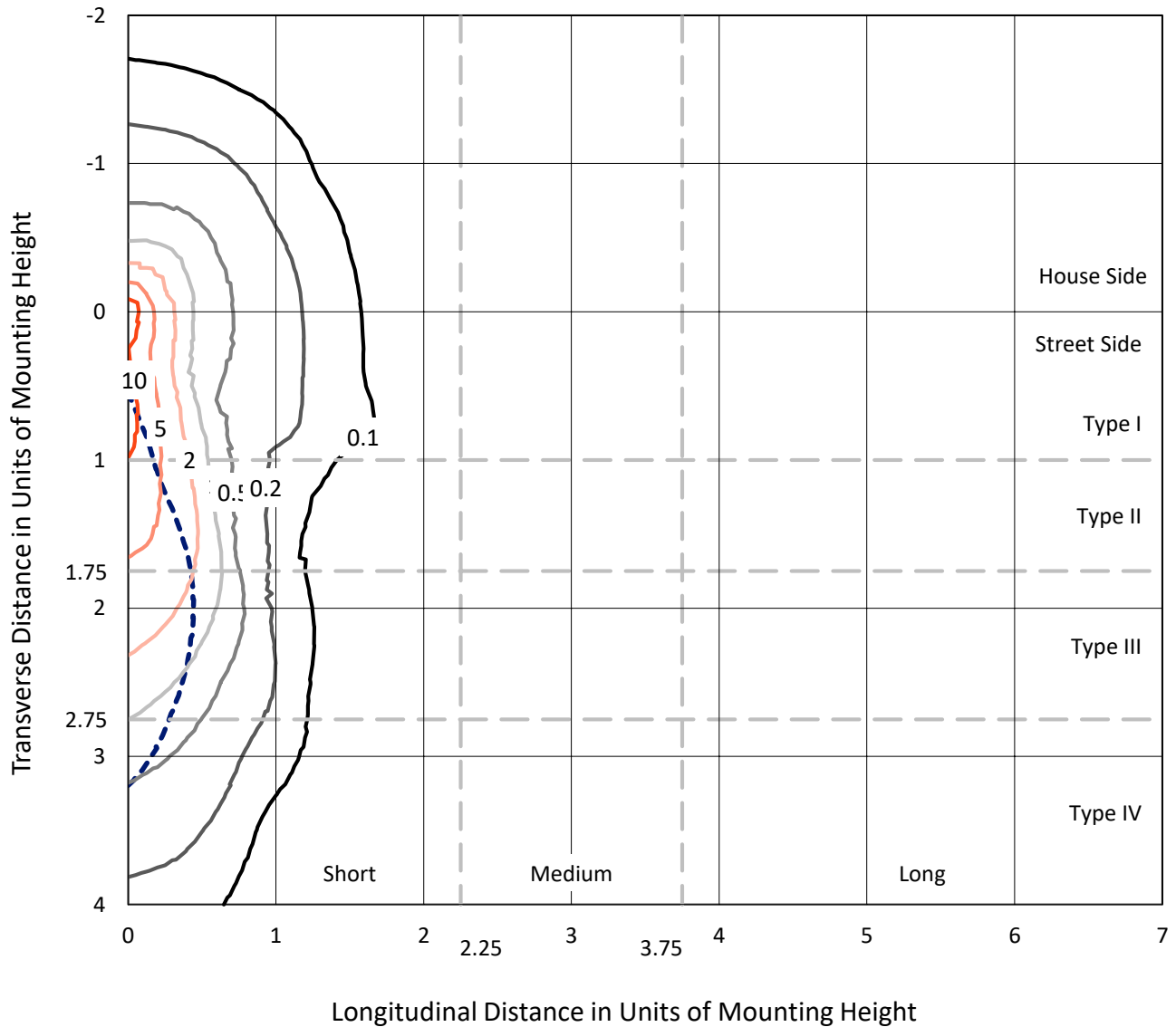


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

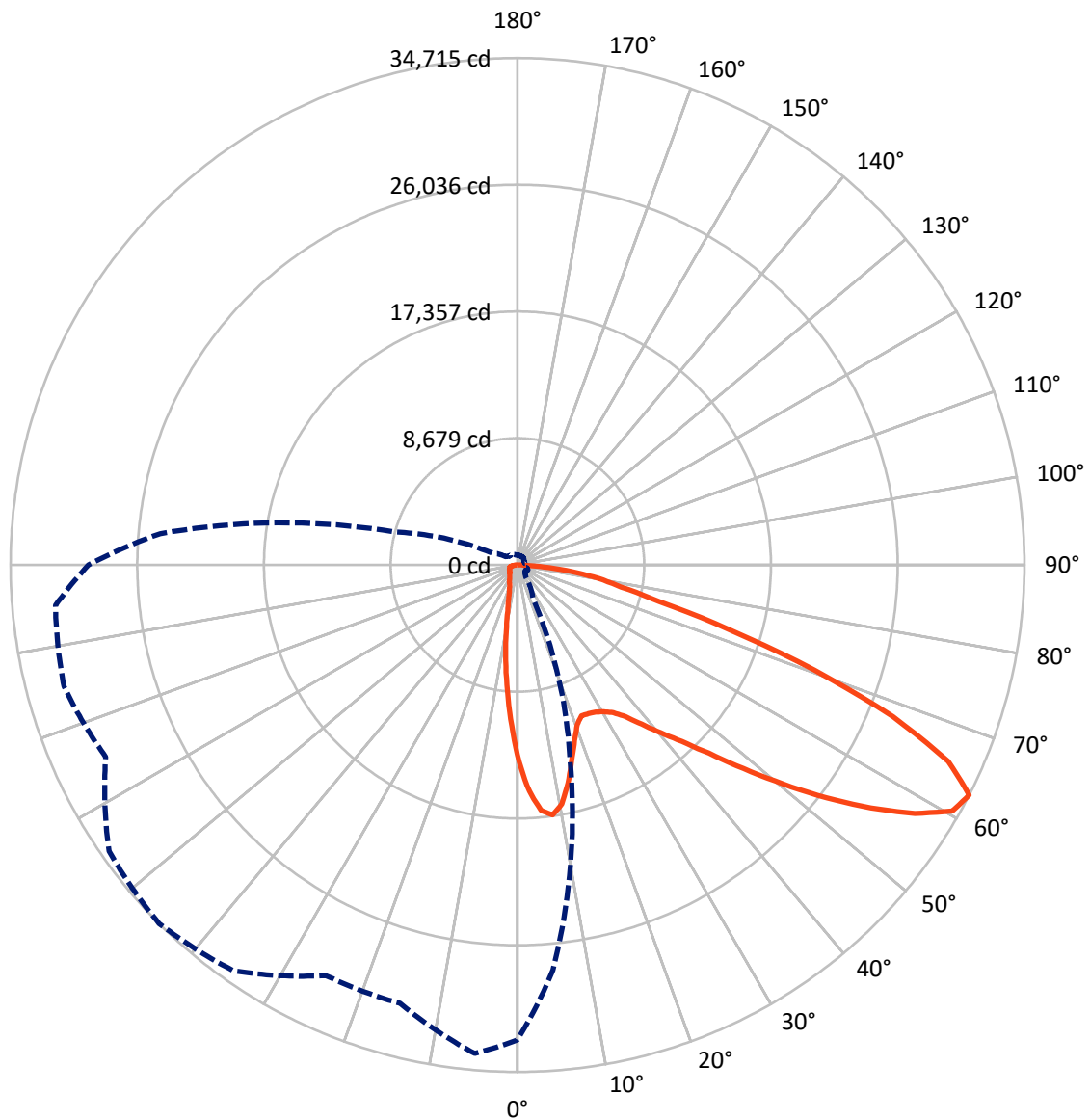


Based on 30 foot mounting height. Maximum calculated value = 15 fc  
 Type IV - Short - Non-Cutoff

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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	6612.2	0.0	6612.2
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	33343.9	0.0	33343.9
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	39956.1	0.0	39956.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	982.7	2.5
10°-20°	1802.0	4.5
20°-30°	2627.3	6.6
30°-40°	4046.4	10.1
40°-50°	5955.3	14.9
50°-60°	8735.1	21.9
60°-70°	9764.6	24.4
70°-80°	4780.6	12.0
80°-90°	1262.2	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°	39956.1	100.0
0°-180°	39956.1	100.0

**Coefficient of Utilization**



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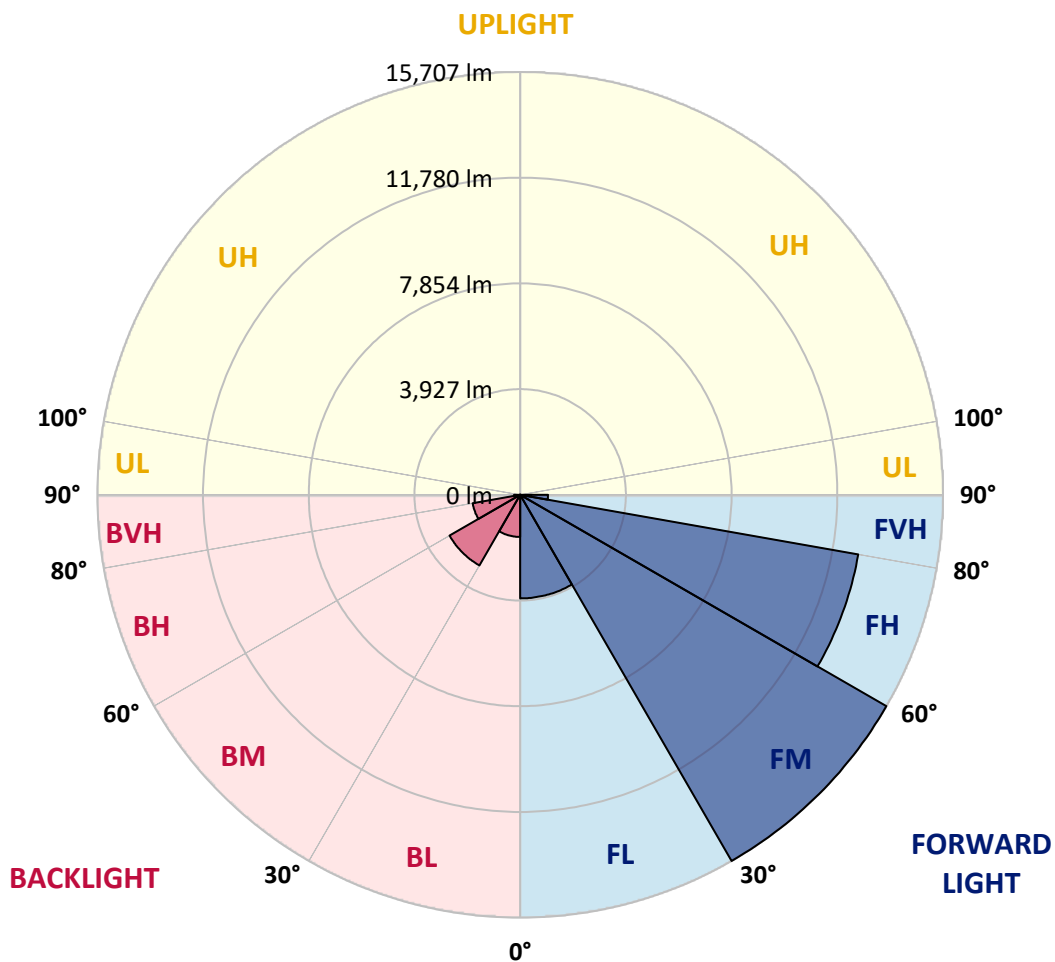
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3847.6	9.6			
FM (30°-60°)	15707.1	39.3			
FH (60°-80°)	12752.6	31.9			G5
FVH (80°-90°)	1036.6	2.6			G5
BL (0°-30°)	1564.3	3.9	B3/2500		
BM (30°-60°)	3029.7	7.6	B3/5000		
BH (60°-80°)	1792.6	4.5	B3/2500		G3/2500
BVH (80°-90°)	225.6	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°	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3
2.5°	14026.5	13741.0	13266.4	12772.3	12471.3	12119.9	11845.4	11603.8	11120.6	11026.2	11111.9
5°	13189.6	12616.3	11722.4	10821.9	10222.3	9578.6	9077.9	8675.9	8063.1	7955.5	8085.0
7.5°	11847.6	11162.2	9980.6	8831.9	7984.0	7180.2	6639.8	6209.4	5730.5	5524.0	5537.2
10°	10690.1	9916.8	8520.0	7270.3	6576.1	6033.6	5579.0	5137.4	4652.1	4333.6	4245.7
12.5°	10042.2	9152.7	7542.6	6426.7	5783.2	5212.1	4722.3	4250.2	3731.7	3406.7	3314.4
15°	9930.1	8963.6	7175.8	5886.5	5080.4	4357.8	3780.1	3252.9	2719.2	2455.6	2400.7
17.5°	10415.5	9301.9	7057.2	5405.5	4419.2	3527.5	2818.1	2229.5	1794.5	1662.8	1651.8
20°	11346.9	9952.1	7041.9	4953.0	3767.0	2721.3	1963.7	1535.4	1344.3	1306.9	1309.1
22.5°	12653.6	10960.2	7230.6	4612.5	3167.2	2029.5	1476.1	1284.9	1210.2	1175.2	1175.2
25°	14344.9	12348.5	7665.5	4364.3	2646.6	1621.0	1302.5	1188.3	1118.0	1093.9	1098.2
27.5°	15983.5	13699.2	8170.8	4168.9	2306.3	1471.7	1234.5	1131.1	1069.6	1045.4	1056.4
30°	17261.8	14898.5	8592.5	3903.0	2132.8	1429.9	1258.5	1153.2	1065.3	1027.9	1030.1
32.5°	18320.6	15948.4	8946.1	3711.9	1979.0	1225.6	1085.1	1038.9	1027.9	984.1	962.1
35°	19673.5	17092.7	9183.4	3716.4	1906.6	1093.9	966.4	885.2	825.8	775.3	775.3
37.5°	21259.4	18406.2	9435.8	3767.0	1880.2	1016.9	924.6	843.4	788.5	740.3	731.4
40°	22827.5	19693.4	9666.5	3815.2	1864.8	970.8	891.7	817.1	766.6	718.3	705.1
42.5°	24160.9	20751.9	9873.0	3839.4	1812.2	966.4	867.7	799.5	751.3	698.4	685.2
45°	25147.1	21639.4	10094.9	3876.7	1759.3	984.1	867.7	797.3	738.0	687.6	674.3
47.5°	26027.9	22680.4	10466.1	3876.7	1695.6	951.0	896.1	799.5	735.8	683.2	672.1
50°	27207.3	24108.2	11168.8	3786.6	1605.6	915.9	944.5	790.7	715.9	674.3	661.2
52.5°	28832.7	25937.8	12284.7	3630.7	1467.2	847.8	937.9	786.3	696.2	652.3	637.0
55°	30754.6	27897.0	13501.5	3448.5	1260.7	799.5	905.0	775.3	674.3	625.9	610.6
57.5°	32254.7	29245.6	14358.1	3167.2	1080.7	773.1	801.6	764.4	647.9	597.5	584.3
60°	32852.2	29192.8	14593.1	2791.7	992.7	751.3	700.7	856.7	625.9	575.5	560.2
62.5°	32529.3	27844.3	13934.1	2528.1	973.0	722.6	656.8	792.9	608.4	560.2	538.2
65°	31037.9	25454.6	12188.1	2457.9	1030.1	694.1	628.2	621.5	584.3	538.2	516.2
67.5°	27789.3	21883.2	9758.7	2464.4	1102.6	665.6	599.6	568.8	551.3	514.0	494.2
70°	22634.4	17301.4	7274.7	2481.9	1139.9	632.5	568.8	535.8	516.2	478.8	465.6
72.5°	16642.4	13334.6	5284.5	2367.8	1146.5	595.2	527.1	498.6	478.8	439.4	428.3
75°	11386.3	10200.3	3665.9	1961.4	999.4	542.5	481.0	454.6	441.4	393.2	386.6
77.5°	8317.9	7656.9	2345.8	1456.2	770.9	476.6	423.9	404.1	395.3	342.7	333.9
80°	6674.9	6057.8	1467.2	997.2	564.5	399.7	355.8	344.8	336.1	283.3	276.8
82.5°	4630.1	4056.8	942.3	647.9	423.9	309.6	281.1	276.8	263.6	215.2	208.6
85°	2442.4	2203.1	597.5	441.4	307.5	213.1	195.6	195.6	189.0	142.8	138.3
87.5°	311.9	507.5	303.1	230.7	169.2	94.4	94.4	92.3	98.9	81.2	70.2
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3
2.5°	10909.7	11015.1	10914.0	10920.8	11032.8	11366.6	11518.2	11643.3	11777.3	11865.2	11904.7
5°	7907.2	8153.1	8236.6	8412.4	8671.6	9097.7	9266.7	9389.9	9471.1	9519.3	9539.1
7.5°	5407.6	5556.9	5723.9	6007.2	6571.7	6822.2	6934.1	6905.6	6813.4	6780.3	6747.4
10°	4076.6	4017.3	3986.6	4142.4	4599.3	4851.9	4930.9	4854.1	4803.6	4814.6	4869.5
12.5°	3158.5	3055.2	2930.0	2912.5	3213.3	3439.6	3490.2	3494.5	3586.8	3668.0	3788.8
15°	2301.8	2290.9	2229.5	2192.0	2363.4	2547.9	2569.8	2609.3	2692.8	2752.1	2857.6
17.5°	1623.1	1682.4	1730.9	1755.0	1884.6	2016.3	1992.3	1972.4	1957.0	1957.0	2007.5
20°	1309.1	1348.6	1410.1	1480.3	1612.2	1704.4	1645.2	1566.0	1509.0	1491.4	1498.0
22.5°	1179.5	1210.2	1245.4	1306.9	1425.5	1489.2	1425.5	1368.4	1311.3	1291.6	1284.9
25°	1113.5	1153.2	1186.1	1232.3	1320.1	1363.9	1302.5	1260.7	1225.6	1201.5	1183.8
27.5°	1076.3	1111.5	1120.1	1142.1	1216.8	1256.4	1225.6	1208.0	1186.1	1164.2	1142.1
30°	1036.7	1030.1	1014.7	1016.9	1076.3	1115.8	1113.5	1118.0	1115.8	1109.1	1104.8
32.5°	946.6	933.5	920.4	933.5	988.3	1023.6	1025.8	1034.5	1034.5	1032.3	1049.8
35°	788.5	812.6	828.1	867.7	933.5	964.2	951.0	929.0	889.5	865.3	863.2
37.5°	729.2	733.6	760.0	814.9	887.3	915.9	896.1	845.7	819.3	814.9	821.5
40°	700.7	705.1	720.4	770.9	843.4	872.0	854.4	817.1	792.9	790.7	801.6
42.5°	680.8	685.2	694.1	729.2	788.5	823.7	825.8	799.5	770.9	773.1	784.1
45°	670.0	672.1	670.0	687.6	742.4	784.1	801.6	784.1	760.0	764.4	777.6
47.5°	667.7	661.2	652.3	656.8	713.9	755.6	777.6	770.9	760.0	764.4	775.3
50°	658.9	643.5	632.5	630.4	687.6	731.4	751.3	751.3	755.6	764.4	775.3
52.5°	632.5	615.0	615.0	608.4	670.0	711.6	724.8	727.0	733.6	748.9	764.4
55°	599.6	593.1	599.6	588.7	656.8	696.2	702.8	707.2	711.6	724.8	746.9
57.5°	571.1	562.2	577.7	573.3	645.7	680.8	680.8	689.7	689.7	707.2	724.8
60°	555.7	538.2	544.7	549.1	630.4	667.7	663.3	672.1	676.6	691.9	705.1
62.5°	535.8	520.6	520.6	531.5	612.9	647.9	645.7	652.3	670.0	674.3	687.6
65°	511.8	505.1	498.6	511.8	595.2	625.9	628.2	637.0	652.3	656.8	667.7
67.5°	487.6	489.8	476.6	489.8	579.9	604.0	604.0	621.5	628.2	637.0	647.9
70°	461.3	463.4	452.4	467.8	568.8	579.9	577.7	601.9	606.3	612.9	623.9
72.5°	428.3	428.3	423.9	445.9	551.3	555.7	551.3	571.1	573.3	579.9	584.3
75°	393.2	393.2	388.7	419.5	540.3	529.3	516.2	531.5	535.8	540.3	540.3
77.5°	347.0	351.4	351.4	388.7	503.1	518.3	474.5	483.2	489.8	492.0	485.4
80°	290.0	300.9	305.3	353.7	421.8	478.8	423.9	430.5	432.8	432.8	423.9
82.5°	221.8	241.6	252.7	305.3	322.9	401.9	369.1	375.6	369.1	355.8	351.4
85°	153.8	180.1	193.2	232.8	243.8	309.6	307.5	307.5	294.4	276.8	274.5
87.5°	83.5	98.9	107.6	138.3	166.9	208.6	226.3	219.6	208.6	197.6	199.9
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°	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3
2.5°	12111.2	12409.8	12886.5	13251.2	13617.9	13971.6	14353.7	14645.8	14894.1	14990.7	15285.0
5°	9739.1	10112.4	10562.7	11375.3	11950.8	12585.7	13319.2	14290.1	14663.5	15179.6	16025.3
7.5°	6885.9	7224.1	7948.9	8605.7	9420.5	10318.9	11309.5	12649.4	13139.1	13967.1	15344.4
10°	5141.9	5535.0	6117.1	6670.6	7388.7	8306.9	9444.7	10942.7	11537.9	12436.2	14022.1
12.5°	4142.4	4605.9	5223.1	5743.8	6299.4	6947.3	8052.1	9695.0	10492.5	11278.7	12882.1
15°	3182.7	3668.0	4241.3	4902.5	5515.2	6213.8	7371.2	9167.9	10086.1	10905.3	12273.7
17.5°	2203.1	2618.2	3340.7	4030.4	4814.6	5708.5	7182.4	9280.0	10376.1	11320.5	12379.2
20°	1561.7	1798.9	2391.9	3191.4	4168.9	5291.2	7147.3	9868.6	11294.1	12372.5	13055.6
22.5°	1313.5	1401.4	1746.1	2479.9	3608.8	4979.3	7270.3	10694.5	12533.0	13910.1	14134.1
25°	1197.0	1249.8	1429.9	1946.1	3110.1	4753.1	7685.4	11924.6	14066.0	15447.6	15408.1
27.5°	1133.3	1188.3	1306.9	1642.9	2734.6	4612.5	8100.5	13382.9	15818.8	17116.8	16624.8
30°	1113.5	1188.3	1313.5	1548.5	2466.6	4390.6	8441.0	14663.5	17167.4	18243.7	17178.4
32.5°	1098.2	1109.1	1166.3	1335.4	2211.7	4131.6	8671.6	15812.1	18487.5	19315.4	17975.7
35°	887.3	942.3	1034.5	1197.0	2062.5	3975.5	8671.6	16802.7	19787.8	20398.4	18735.6
37.5°	854.4	902.7	984.1	1122.4	1979.0	3898.6	8498.1	17758.2	21116.5	21626.2	19361.6
40°	836.9	876.3	953.2	1065.3	1943.8	3810.8	8245.5	18601.7	22414.7	22856.1	19945.8
42.5°	823.7	858.8	931.4	1030.1	1897.7	3714.2	8041.2	19278.2	23541.4	23906.1	20503.8
45°	817.1	854.4	933.5	1047.8	1805.5	3586.8	7973.0	20009.6	24468.4	24782.4	21107.8
47.5°	817.1	861.0	944.5	1085.1	1695.6	3455.1	8186.2	20973.7	25344.7	25498.5	21819.4
50°	810.5	858.8	975.2	1047.8	1535.4	3288.1	8686.9	22188.5	26293.6	26311.1	22720.0
52.5°	797.3	854.4	1049.8	1025.8	1350.8	3068.4	9363.5	23748.0	27697.1	27802.5	24130.1
55°	782.0	847.8	1030.1	975.2	1199.2	2807.1	9916.8	25643.5	29669.5	29961.7	26203.5
57.5°	762.1	839.0	997.2	905.0	1100.5	2471.0	10116.8	27031.5	31046.7	31780.2	28540.6
60°	744.5	832.5	900.6	863.2	1038.9	2187.6	9730.3	26757.1	30952.3	32533.6	30611.8
62.5°	727.0	839.0	821.5	836.9	1010.4	2005.3	8719.8	24558.5	29386.2	31756.2	32147.1
65°	707.2	779.6	775.3	814.9	1003.8	1932.9	7228.5	21261.5	26359.4	29298.3	32509.5
67.5°	680.8	720.4	742.4	786.3	1025.8	1869.2	5833.8	17538.6	22153.3	25614.9	30620.5
70°	652.3	685.2	709.4	751.3	1012.6	1840.5	4851.9	13831.1	17578.2	20993.6	26893.2
72.5°	615.0	643.5	665.6	705.1	999.4	1825.3	4098.5	11138.2	13123.8	15594.8	21865.6
75°	571.1	597.5	612.9	652.3	957.7	1671.4	3222.2	9424.9	9820.4	10848.2	17415.6
77.5°	520.6	540.3	553.4	597.5	847.8	1390.3	2330.5	7270.3	7626.0	7876.3	13352.1
80°	461.3	481.0	487.6	529.3	702.8	1087.3	1519.9	5370.2	5704.1	5761.3	8719.8
82.5°	393.2	413.0	413.0	452.4	575.5	782.0	997.2	3679.1	3744.9	3938.2	6163.2
85°	316.4	331.7	331.7	351.4	445.9	584.3	685.2	1847.3	1827.4	2086.7	5339.5
87.5°	226.3	237.2	248.2	252.7	318.4	386.6	413.0	562.2	371.2	426.1	3428.7
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: P269576

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**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3	13499.3
2.5°	15506.9	15632.0	15504.7	15412.4	15014.9	14687.6	14250.5	14026.5
5°	16668.8	16987.3	16879.6	16493.2	15662.8	14729.2	13668.4	13189.6
7.5°	16528.3	17268.4	17285.9	16563.4	15339.9	13965.1	12528.5	11847.6
10°	15434.4	16381.0	16651.3	15950.6	14652.4	13115.0	11467.7	10690.1
12.5°	14213.2	15140.0	15346.6	15104.9	14019.8	12475.8	10804.3	10042.2
15°	13213.8	13628.9	13875.0	14085.8	13477.5	12221.0	10766.9	9930.1
17.5°	12605.3	12559.3	12629.5	12996.4	13099.5	12513.1	11338.0	10415.5
20°	12385.7	11680.8	11663.1	12168.4	12921.7	13209.3	12453.8	11346.9
22.5°	12506.6	11364.4	11219.4	11819.1	13016.1	14213.2	13916.6	12653.6
25°	12923.8	11390.8	11274.4	11854.3	13358.8	15282.9	15495.9	14344.9
27.5°	13580.5	11557.7	11404.0	11999.2	13813.3	16181.2	17051.0	15983.5
30°	14204.4	11847.6	11656.4	12284.7	14228.6	16537.0	18004.2	17261.8
32.5°	14962.2	12390.1	12054.0	12809.7	14742.5	17103.6	18854.3	18320.6
35°	15704.6	13163.3	12746.0	13620.1	15315.8	17808.8	19825.1	19673.5
37.5°	16519.4	14173.6	13828.8	14667.9	16100.0	18474.3	21063.8	21259.4
40°	17389.2	15513.5	15104.9	16196.6	17316.7	19308.9	22357.6	22827.5
42.5°	18265.5	17000.5	16512.9	17619.8	18654.4	20132.5	23464.5	24160.9
45°	19269.5	18614.9	18384.3	19581.3	19939.3	20916.8	24281.6	25147.1
47.5°	20437.9	20446.7	20818.0	21296.7	21235.3	21804.1	25103.1	26027.9
50°	21801.9	22733.1	23552.4	23870.9	22570.6	22757.3	26243.1	27207.3
52.5°	23440.5	25467.8	26482.6	26273.8	24009.3	23921.4	28048.6	28832.7
55°	25489.6	28362.6	29370.9	29221.4	25663.1	25507.3	30297.8	30754.6
57.5°	27861.9	31167.6	32094.5	31422.4	27648.8	27246.9	32158.1	32254.7
60°	29946.3	33390.3	34203.0	33458.5	29652.0	29098.4	33320.0	32852.2
62.5°	31106.0	34143.7	34714.7	33913.1	31024.8	31070.8	33574.8	32529.3
65°	30587.6	32239.5	32423.9	32357.9	30671.1	32215.1	32658.9	31037.9
67.5°	27749.8	27424.7	27734.5	28162.8	27639.9	30708.4	30122.0	27789.3
70°	22750.7	20965.1	21582.1	21870.0	22107.2	26425.4	26144.2	22634.4
72.5°	17145.4	14687.6	15175.2	15115.9	16214.1	21195.7	20332.4	16642.4
75°	12148.5	9958.7	10020.1	9996.0	11313.9	16583.2	14722.7	11386.3
77.5°	8500.2	7215.2	7248.2	7384.4	7606.3	12506.6	10518.8	8317.9
80°	5844.7	5475.7	5658.1	5669.1	5271.4	8401.4	7771.0	6674.9
82.5°	4353.4	3806.5	3762.6	3826.2	4131.6	6806.7	5972.1	4630.1
85°	3564.8	2253.6	1812.2	2271.2	3661.5	6740.9	3966.7	2442.4
87.5°	2007.5	1069.6	483.2	896.1	1460.6	4463.1	1146.5	311.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)