

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: P193875

Luminaire Tested: **GLEON-AF-07-LED-E1-SLR-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193875  
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-07-LED-E1-SLR-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K, 1050mA 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: 30193 lumens  
Efficiency: N/A  
Efficacy: 77.2 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

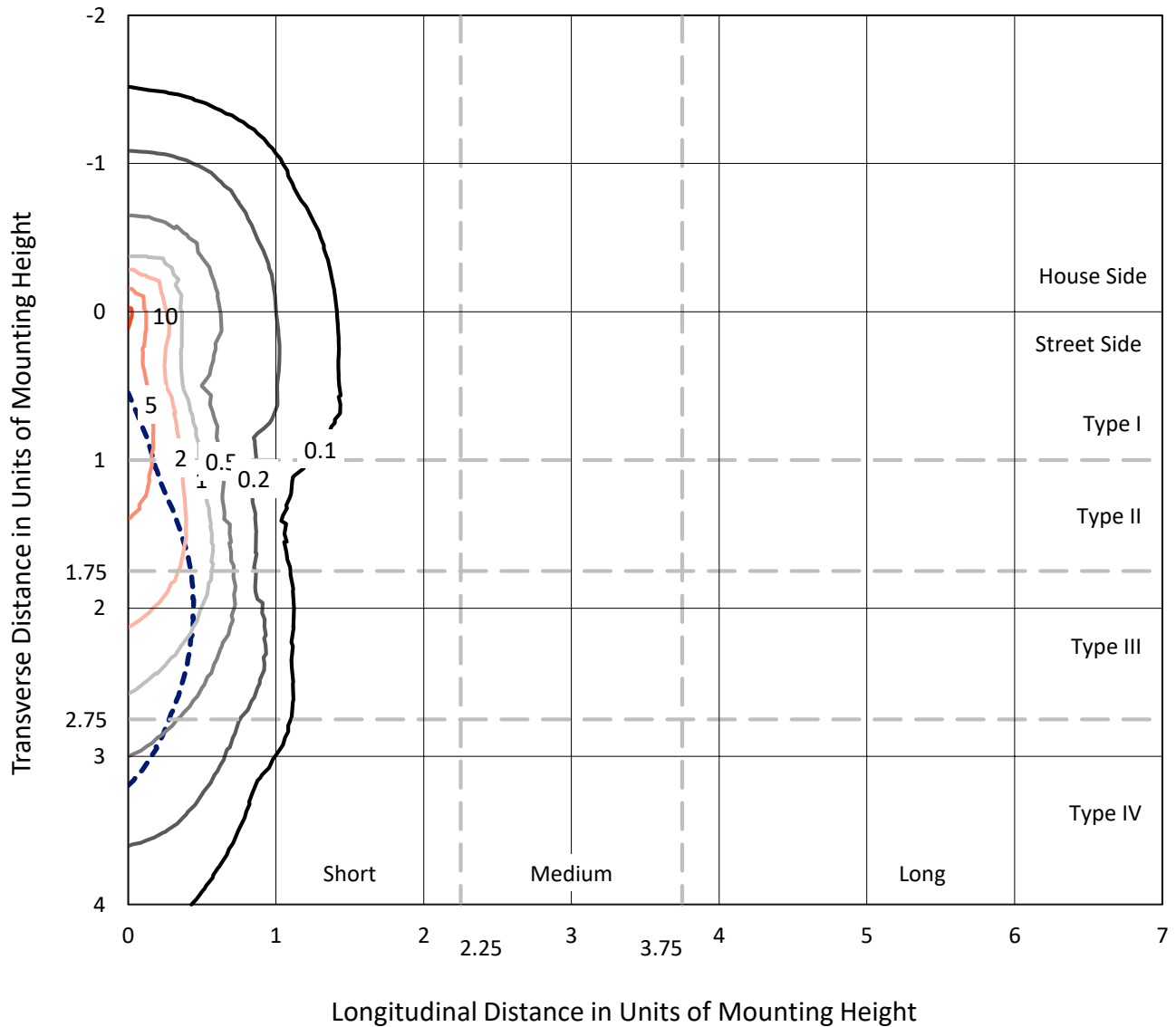
Input Watts (W): 391  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

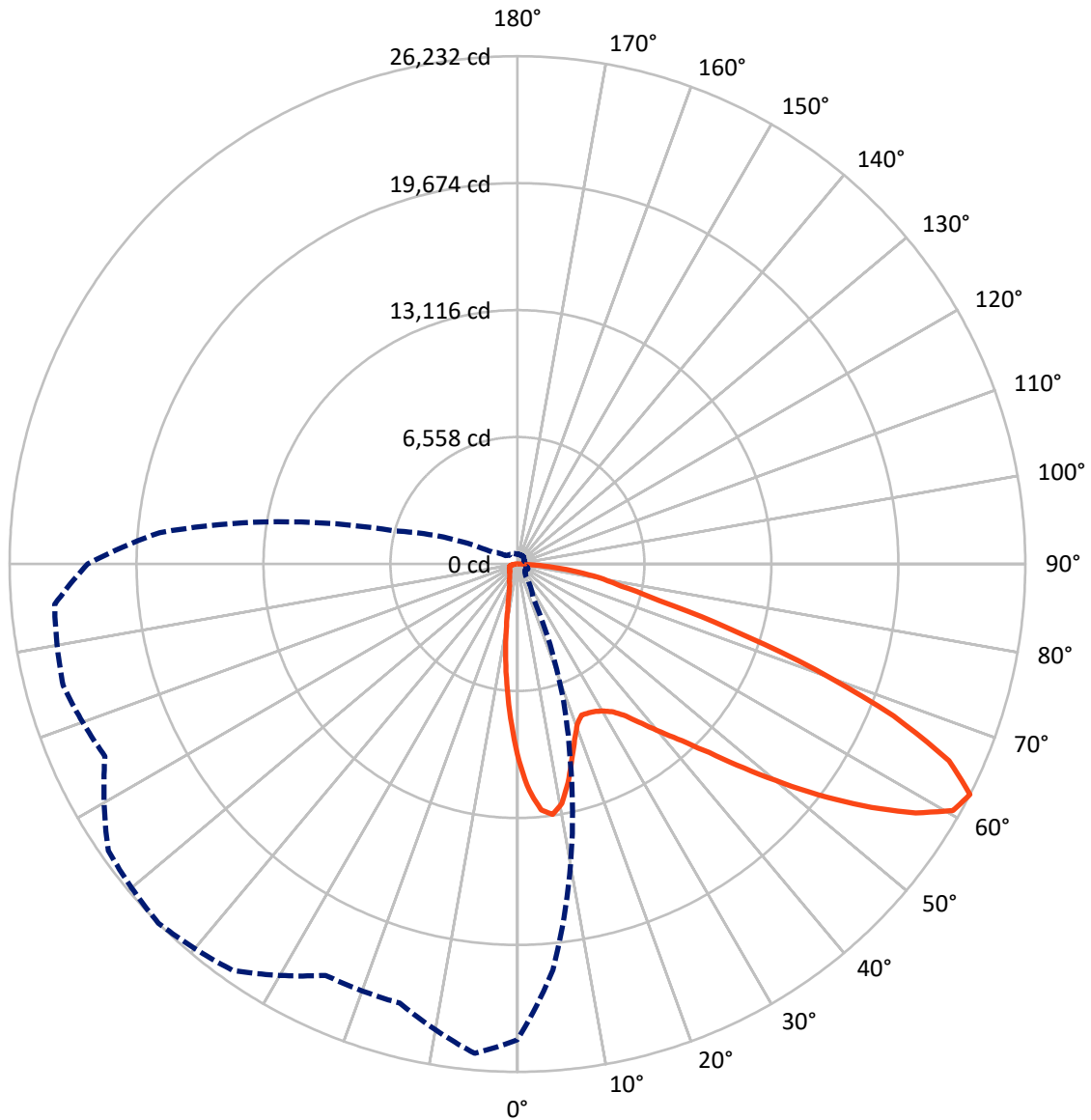
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.3 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	4996.5	0.0	4996.5
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	25196.5	0.0	25196.5
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	30193.0	0.0	30193.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	742.6	2.5
10°-20°	1361.7	4.5
20°-30°	1985.3	6.6
30°-40°	3057.7	10.1
40°-50°	4500.1	14.9
50°-60°	6600.7	21.9
60°-70°	7378.6	24.4
70°-80°	3612.5	12.0
80°-90°	953.8	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°	30193.0	100.0
0°-180°	30193.0	100.0

**Coefficient of Utilization**



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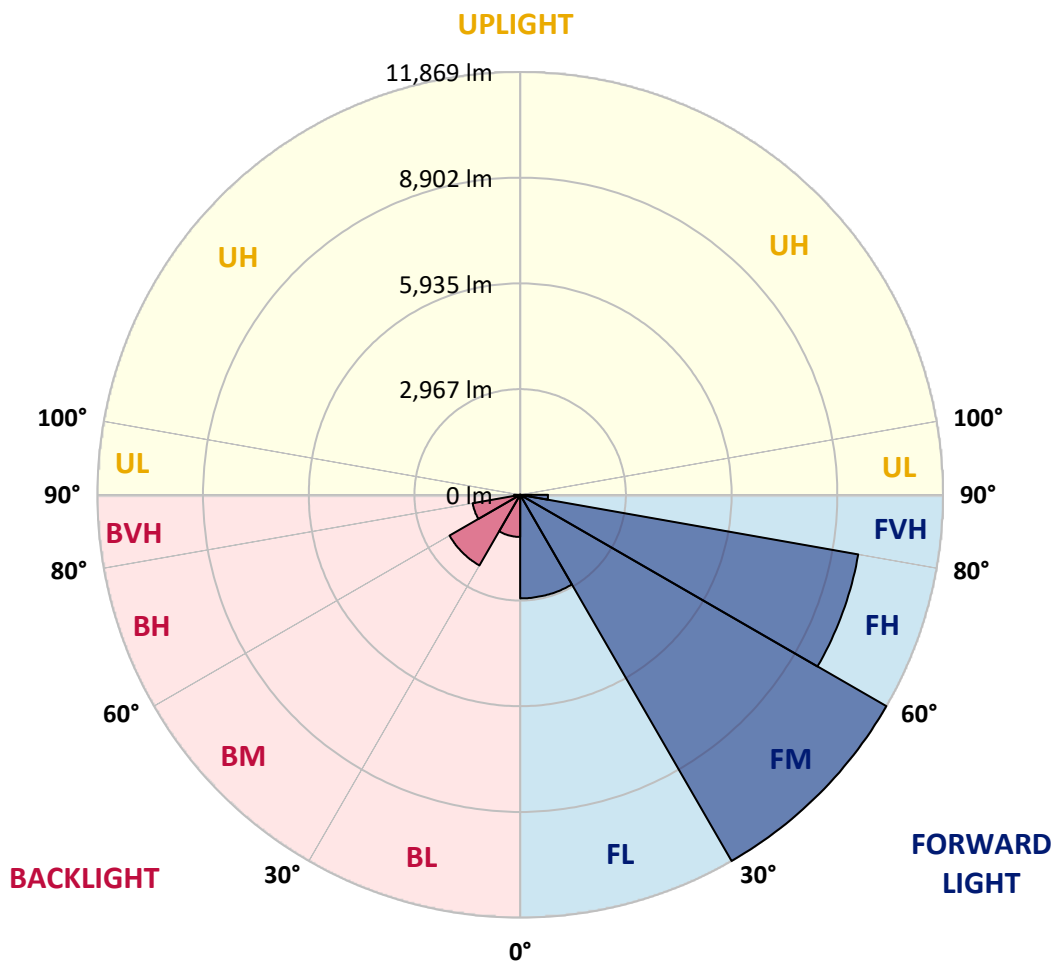
CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-8030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2907.5	9.6			
FM	(30°-60°)	11869.1	39.3			
FH	(60°-80°)	9636.6	31.9			G4/12000
FVH	(80°-90°)	783.3	2.6			G5
BL	(0°-30°)	1182.1	3.9	B3/2500		
BM	(30°-60°)	2289.4	7.6	B2/2500		
BH	(60°-80°)	1354.6	4.5	B3/2500		G3/2500
BVH	(80°-90°)	170.5	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°	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8
2.5°	10599.2	10383.4	10024.9	9651.4	9424.1	9158.5	8951.0	8768.5	8403.3	8331.9	8396.7
5°	9966.8	9533.6	8858.1	8177.6	7724.5	7238.2	6859.7	6556.0	6092.9	6011.6	6109.5
7.5°	8952.7	8434.8	7541.9	6673.9	6033.2	5425.7	5017.4	4692.1	4330.3	4174.3	4184.2
10°	8078.0	7493.8	6438.2	5493.8	4969.3	4559.3	4215.8	3882.2	3515.3	3274.7	3208.3
12.5°	7588.4	6916.2	5699.6	4856.4	4370.1	3938.6	3568.5	3211.6	2819.9	2574.3	2504.6
15°	7503.7	6773.4	5422.4	4448.1	3839.0	3292.9	2856.4	2458.1	2054.8	1855.6	1814.1
17.5°	7870.5	7029.0	5332.8	4084.6	3339.4	2665.6	2129.5	1684.6	1356.0	1256.4	1248.1
20°	8574.3	7520.3	5321.2	3742.7	2846.5	2056.4	1483.8	1160.2	1015.8	987.6	989.2
22.5°	9561.8	8282.2	5463.9	3485.5	2393.4	1533.6	1115.4	971.0	914.5	888.0	888.0
25°	10839.8	9331.1	5792.5	3297.9	2000.0	1224.9	984.2	897.9	844.8	826.6	829.9
27.5°	12078.0	10351.9	6174.3	3150.2	1742.7	1112.0	932.8	854.8	808.3	790.0	798.3
30°	13044.0	11258.1	6492.9	2949.4	1611.6	1080.5	951.0	871.4	805.0	776.8	778.4
32.5°	13844.0	12051.4	6760.2	2805.0	1495.4	926.1	819.9	785.1	776.8	743.6	727.0
35°	14866.4	12916.2	6939.4	2808.3	1440.7	826.6	730.3	668.9	624.1	585.9	585.9
37.5°	16064.7	13908.7	7130.3	2846.5	1420.7	768.5	698.8	637.3	595.9	559.3	552.7
40°	17249.8	14881.3	7304.6	2883.0	1409.1	733.6	673.9	617.4	579.3	542.7	532.8
42.5°	18257.2	15681.3	7460.6	2901.2	1369.3	730.3	655.6	604.1	567.6	527.8	517.8
45°	19002.5	16351.9	7628.2	2929.5	1329.5	743.6	655.6	602.5	557.7	519.5	509.5
47.5°	19668.0	17138.6	7908.7	2929.5	1281.3	718.7	677.2	604.1	556.0	516.2	507.9
50°	20559.3	18217.4	8439.8	2861.4	1213.3	692.1	713.7	597.5	541.1	509.5	499.6
52.5°	21787.5	19600.0	9283.0	2743.6	1108.7	640.7	708.7	594.2	526.1	492.9	481.3
55°	23239.8	21080.5	10202.5	2605.8	952.7	604.1	683.8	585.9	509.5	473.0	461.4
57.5°	24373.4	22099.6	10849.8	2393.4	816.6	584.2	605.8	577.6	489.6	451.5	441.5
60°	24824.9	22059.7	11027.4	2109.5	750.2	567.6	529.5	647.3	473.0	434.9	423.2
62.5°	24580.9	21040.6	10529.5	1910.4	735.3	546.1	496.3	599.2	459.8	423.2	406.6
65°	23453.9	19234.8	9210.0	1857.3	778.4	524.5	474.7	469.7	441.5	406.6	390.0
67.5°	20999.2	16536.1	7374.3	1862.2	833.2	502.9	453.1	429.9	416.6	388.4	373.4
70°	17103.7	13073.8	5497.1	1875.5	861.4	478.0	429.9	405.0	390.0	361.8	351.9
72.5°	12575.9	10076.3	3993.4	1789.2	866.4	449.8	398.3	376.8	361.8	331.9	323.7
75°	8604.1	7707.9	2770.1	1482.2	755.2	410.0	363.5	343.6	333.6	297.1	292.1
77.5°	6285.5	5785.9	1772.6	1100.4	582.6	360.2	320.3	305.4	298.8	258.9	252.3
80°	5044.0	4577.6	1108.7	753.5	426.6	302.1	268.9	260.6	253.9	214.1	209.1
82.5°	3498.8	3065.6	712.0	489.6	320.3	234.0	212.4	209.1	199.2	162.7	157.7
85°	1845.6	1664.7	451.5	333.6	232.4	161.0	147.7	147.7	142.7	107.9	104.6
87.5°	235.7	383.4	229.0	174.3	127.8	71.4	71.4	69.7	74.7	61.4	53.1
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°	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8
2.5°	8244.0	8323.6	8247.3	8252.3	8336.9	8589.2	8703.7	8798.3	8899.6	8966.0	8995.8
5°	5975.1	6161.0	6224.1	6356.8	6552.7	6874.7	7002.5	7095.4	7156.8	7193.4	7208.3
7.5°	4086.3	4199.2	4325.3	4539.4	4966.0	5155.2	5239.8	5218.3	5148.5	5123.6	5098.8
10°	3080.5	3035.7	3012.4	3130.3	3475.5	3666.4	3726.1	3668.0	3629.9	3638.2	3679.7
12.5°	2386.7	2308.7	2214.1	2200.8	2428.2	2599.2	2637.3	2640.7	2710.4	2771.8	2863.1
15°	1739.4	1731.1	1684.6	1656.4	1785.9	1925.3	1941.9	1971.8	2034.9	2079.7	2159.3
17.5°	1226.6	1271.4	1307.9	1326.1	1424.1	1523.7	1505.4	1490.5	1478.8	1478.8	1517.0
20°	989.2	1019.1	1065.6	1118.7	1218.3	1288.0	1243.2	1183.4	1140.2	1127.0	1131.9
22.5°	891.3	914.5	941.1	987.6	1077.2	1125.3	1077.2	1034.0	990.9	975.9	971.0
25°	841.5	871.4	896.3	931.1	997.5	1030.7	984.2	952.7	926.1	907.9	894.6
27.5°	813.3	839.8	846.5	863.1	919.5	949.4	926.1	912.9	896.3	879.7	863.1
30°	783.4	778.4	766.8	768.5	813.3	843.2	841.5	844.8	843.2	838.2	834.9
32.5°	715.4	705.4	695.4	705.4	746.9	773.4	775.1	781.7	781.7	780.1	793.4
35°	595.9	614.1	625.7	655.6	705.4	728.6	718.7	702.1	672.2	653.9	652.3
37.5°	551.0	554.4	574.3	615.8	670.5	692.1	677.2	639.0	619.1	615.8	620.7
40°	529.5	532.8	544.4	582.6	637.3	658.9	645.6	617.4	599.2	597.5	605.8
42.5°	514.5	517.8	524.5	551.0	595.9	622.4	624.1	604.1	582.6	584.2	592.5
45°	506.2	507.9	506.2	519.5	561.0	592.5	605.8	592.5	574.3	577.6	587.6
47.5°	504.6	499.6	492.9	496.3	539.4	571.0	587.6	582.6	574.3	577.6	585.9
50°	497.9	486.3	478.0	476.3	519.5	552.7	567.6	567.6	571.0	577.6	585.9
52.5°	478.0	464.7	464.7	459.8	506.2	537.8	547.7	549.4	554.4	566.0	577.6
55°	453.1	448.1	453.1	444.8	496.3	526.1	531.1	534.4	537.8	547.7	564.3
57.5°	431.5	424.9	436.5	433.2	488.0	514.5	514.5	521.2	521.2	534.4	547.7
60°	419.9	406.6	411.6	414.9	476.3	504.6	501.2	507.9	511.2	522.8	532.8
62.5°	405.0	393.4	393.4	401.7	463.1	489.6	488.0	492.9	506.2	509.5	519.5
65°	386.7	381.7	376.8	386.7	449.8	473.0	474.7	481.3	492.9	496.3	504.6
67.5°	368.5	370.1	360.2	370.1	438.2	456.4	456.4	469.7	474.7	481.3	489.6
70°	348.5	350.2	341.9	353.5	429.9	438.2	436.5	454.8	458.1	463.1	471.4
72.5°	323.7	323.7	320.3	336.9	416.6	419.9	416.6	431.5	433.2	438.2	441.5
75°	297.1	297.1	293.8	317.0	408.3	400.0	390.0	401.7	405.0	408.3	408.3
77.5°	262.2	265.6	265.6	293.8	380.1	391.7	358.5	365.1	370.1	371.8	366.8
80°	219.1	227.4	230.7	267.2	318.7	361.8	320.3	325.3	327.0	327.0	320.3
82.5°	167.6	182.6	190.9	230.7	244.0	303.7	278.8	283.8	278.8	268.9	265.6
85°	116.2	136.1	146.1	175.9	184.2	234.0	232.4	232.4	222.4	209.1	207.5
87.5°	63.1	74.7	81.3	104.6	126.1	157.7	171.0	166.0	157.7	149.4	151.0
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°	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8
2.5°	9151.9	9377.6	9737.8	10013.3	10290.4	10557.7	10846.5	11067.2	11254.8	11327.8	11550.2
5°	7359.3	7641.5	7981.7	8595.8	9030.7	9510.4	10064.7	10798.3	11080.5	11470.5	12109.5
7.5°	5203.3	5458.9	6006.6	6502.9	7118.7	7797.5	8546.1	9558.5	9928.6	10554.3	11595.0
10°	3885.5	4182.6	4622.4	5040.7	5583.4	6277.2	7136.9	8268.9	8718.7	9397.5	10595.8
12.5°	3130.3	3480.5	3946.9	4340.2	4760.2	5249.8	6084.6	7326.1	7928.6	8522.8	9734.4
15°	2405.0	2771.8	3205.0	3704.6	4167.6	4695.4	5570.1	6927.8	7621.6	8240.7	9274.7
17.5°	1664.7	1978.4	2524.5	3045.6	3638.2	4313.7	5427.4	7012.4	7840.7	8554.4	9354.3
20°	1180.1	1359.3	1807.5	2411.6	3150.2	3998.3	5400.8	7457.3	8534.4	9349.4	9865.6
22.5°	992.5	1058.9	1319.5	1873.9	2727.0	3762.7	5493.8	8081.3	9470.5	10511.2	10680.5
25°	904.6	944.4	1080.5	1470.5	2350.2	3591.7	5807.5	9010.8	10629.0	11673.0	11643.1
27.5°	856.4	897.9	987.6	1241.5	2066.4	3485.5	6121.2	10112.9	11953.5	12934.4	12562.6
30°	841.5	897.9	992.5	1170.1	1863.9	3317.8	6378.4	11080.5	12972.6	13785.9	12980.9
32.5°	829.9	838.2	881.3	1009.1	1671.4	3122.0	6552.7	11948.5	13970.1	14595.8	13583.4
35°	670.5	712.0	781.7	904.6	1558.5	3004.1	6552.7	12697.1	14952.7	15414.1	14157.7
37.5°	645.6	682.2	743.6	848.1	1495.4	2946.1	6421.6	13419.1	15956.8	16341.9	14630.7
40°	632.4	662.2	720.3	805.0	1468.9	2879.7	6230.7	14056.4	16937.7	17271.4	15072.2
42.5°	622.4	649.0	703.7	778.4	1434.0	2806.6	6076.3	14567.6	17789.2	18064.7	15493.8
45°	617.4	645.6	705.4	791.7	1364.3	2710.4	6024.9	15120.3	18489.6	18727.0	15950.2
47.5°	617.4	650.6	713.7	819.9	1281.3	2610.8	6185.9	15849.0	19151.9	19268.0	16488.0
50°	612.4	649.0	736.9	791.7	1160.2	2484.6	6564.3	16766.8	19868.9	19882.1	17168.5
52.5°	602.5	645.6	793.4	775.1	1020.7	2318.7	7075.5	17945.2	20929.4	21009.1	18234.0
55°	590.9	640.7	778.4	736.9	906.2	2121.2	7493.8	19377.6	22419.9	22640.6	19800.8
57.5°	575.9	634.0	753.5	683.8	831.5	1867.2	7644.8	20426.5	23460.6	24014.9	21566.8
60°	562.7	629.0	680.5	652.3	785.1	1653.1	7352.7	20219.1	23389.2	24584.2	23131.9
62.5°	549.4	634.0	620.7	632.4	763.5	1515.4	6589.2	18557.7	22205.8	23996.7	24292.1
65°	534.4	589.2	585.9	615.8	758.5	1460.6	5462.2	16066.4	19918.7	22139.4	24566.0
67.5°	514.5	544.4	561.0	594.2	775.1	1412.4	4408.3	13253.1	16740.2	19356.0	23138.6
70°	492.9	517.8	536.1	567.6	765.1	1390.9	3666.4	10451.4	13283.0	15863.9	20322.0
72.5°	464.7	486.3	502.9	532.8	755.2	1379.3	3097.1	8416.6	9917.0	11784.2	16522.8
75°	431.5	451.5	463.1	492.9	723.7	1263.1	2434.9	7122.0	7420.7	8197.5	13160.2
77.5°	393.4	408.3	418.3	451.5	640.7	1050.6	1761.0	5493.8	5762.7	5951.9	10089.6
80°	348.5	363.5	368.5	400.0	531.1	821.6	1148.5	4058.1	4310.4	4353.5	6589.2
82.5°	297.1	312.0	312.0	341.9	434.9	590.9	753.5	2780.1	2829.9	2975.9	4657.3
85°	239.0	250.6	250.6	265.6	336.9	441.5	517.8	1395.8	1380.9	1576.8	4034.9
87.5°	171.0	179.3	187.6	190.9	240.7	292.1	312.0	424.9	280.5	322.0	2590.9
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):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8	10200.8
2.5°	11717.8	11812.4	11716.2	11646.5	11346.0	11098.7	10768.5	10599.2
5°	12595.8	12836.5	12755.2	12463.1	11835.7	11130.3	10328.6	9966.8
7.5°	12489.6	13049.0	13062.2	12516.2	11591.7	10552.7	9467.2	8952.7
10°	11663.1	12378.4	12582.6	12053.1	11072.2	9910.4	8665.6	8078.0
12.5°	10740.2	11440.7	11596.7	11414.1	10594.2	9427.4	8164.3	7588.4
15°	9985.1	10298.7	10484.6	10644.0	10184.2	9234.8	8136.1	7503.7
17.5°	9525.3	9490.4	9543.6	9820.7	9898.7	9455.6	8567.6	7870.5
20°	9359.3	8826.5	8813.3	9195.0	9764.3	9981.7	9410.8	8574.3
22.5°	9450.6	8587.5	8478.0	8931.1	9835.7	10740.2	10516.2	9561.8
25°	9766.0	8607.5	8519.5	8957.7	10094.6	11548.5	11709.5	10839.8
27.5°	10262.2	8733.6	8617.4	9067.2	10438.2	12227.4	12884.6	12078.0
30°	10733.6	8952.7	8808.3	9283.0	10751.9	12496.3	13605.0	13044.0
32.5°	11306.2	9362.6	9108.7	9679.7	11140.2	12924.5	14247.3	13844.0
35°	11867.2	9946.9	9631.5	10292.1	11573.4	13457.3	14980.9	14866.4
37.5°	12483.0	10710.4	10449.8	11083.8	12166.0	13960.2	15917.0	16064.7
40°	13140.2	11722.8	11414.1	12239.0	13085.5	14590.9	16894.6	17249.8
42.5°	13802.5	12846.5	12478.0	13314.5	14096.3	15213.3	17731.1	18257.2
45°	14561.0	14066.4	13892.1	14796.7	15067.2	15805.8	18348.5	19002.5
47.5°	15444.0	15450.6	15731.1	16092.9	16046.5	16476.3	18969.3	19668.0
50°	16474.7	17178.4	17797.5	18038.2	17055.6	17196.7	19830.7	20559.3
52.5°	17712.8	19244.8	20011.6	19853.9	18142.7	18076.3	21195.0	21787.5
55°	19261.4	21432.3	22194.2	22081.3	19392.5	19274.7	22894.6	23239.8
57.5°	21053.9	23551.8	24252.3	23744.4	20892.9	20589.2	24300.4	24373.4
60°	22629.0	25231.5	25845.6	25283.0	22406.6	21988.4	25178.4	24824.9
62.5°	23505.4	25800.8	26232.3	25626.5	23444.0	23478.8	25370.9	24580.9
65°	23113.7	24361.8	24501.2	24451.4	23176.7	24343.5	24678.8	23453.9
67.5°	20969.3	20723.6	20957.7	21281.3	20886.3	23205.0	22761.8	20999.2
70°	17191.7	15842.3	16308.7	16526.1	16705.4	19968.4	19756.0	17103.7
72.5°	12956.0	11098.7	11467.2	11422.4	12252.3	16016.6	15364.3	12575.9
75°	9180.1	7525.3	7571.8	7553.5	8549.4	12531.1	11125.3	8604.1
77.5°	6423.2	5452.3	5477.2	5580.1	5747.7	9450.6	7948.5	6285.5
80°	4416.6	4137.8	4275.5	4283.8	3983.4	6348.5	5872.2	5044.0
82.5°	3289.6	2876.3	2843.2	2891.3	3122.0	5143.6	4512.9	3498.8
85°	2693.8	1702.9	1369.3	1716.2	2766.8	5093.8	2997.5	1845.6
87.5°	1517.0	808.3	365.1	677.2	1103.7	3372.6	866.4	235.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)