

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: P269335

Luminaire Tested: **GLEON-AF-05-LED-E1-SLR-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269335  
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-05-LED-E1-SLR-7027-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 800mA 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: 18352.7 lumens  
Efficiency: N/A  
Efficacy: 87.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G3

Input Watts (W): 210  
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

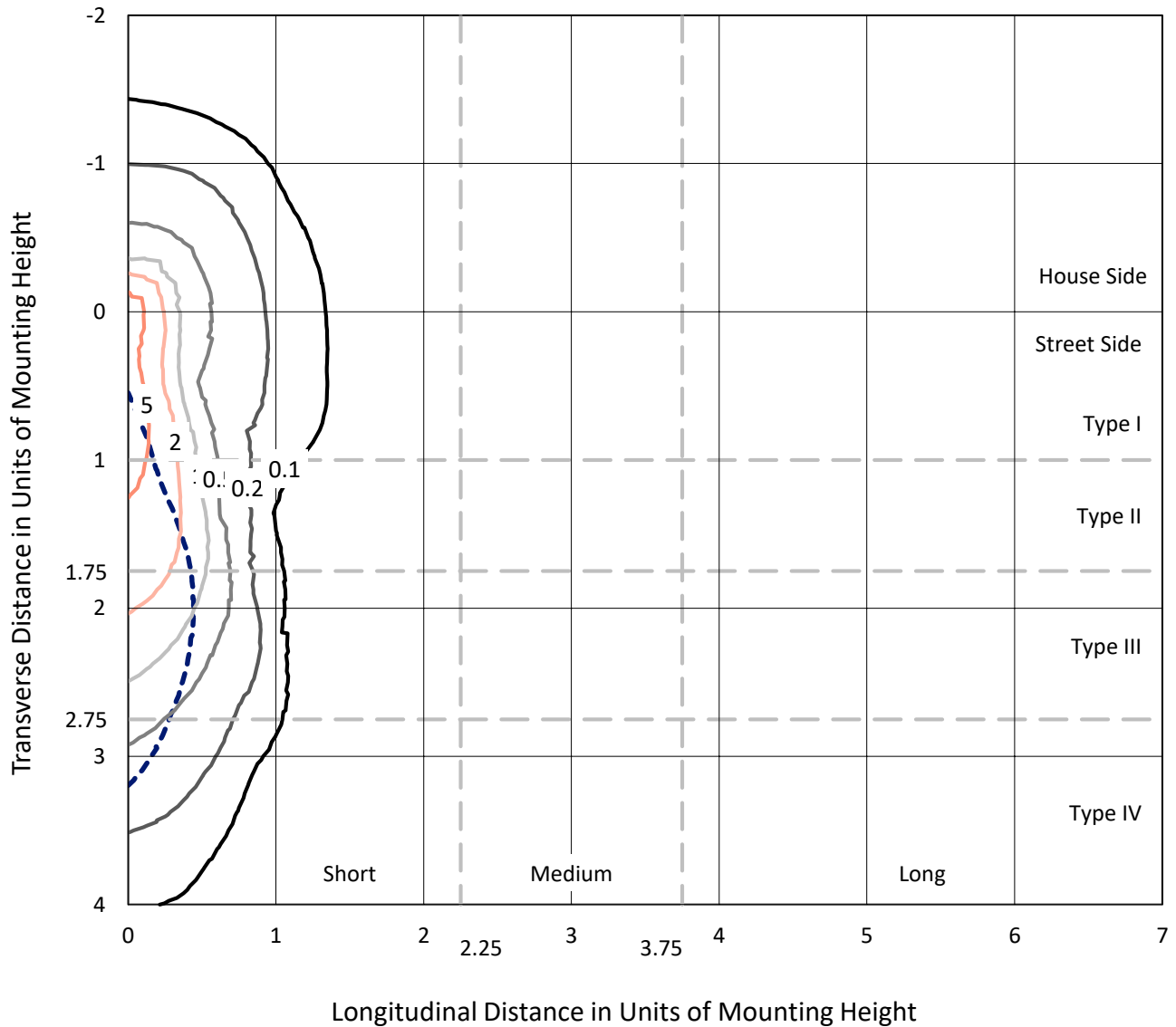


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### Iso-Footcandle Lines of Horizontal Illumination

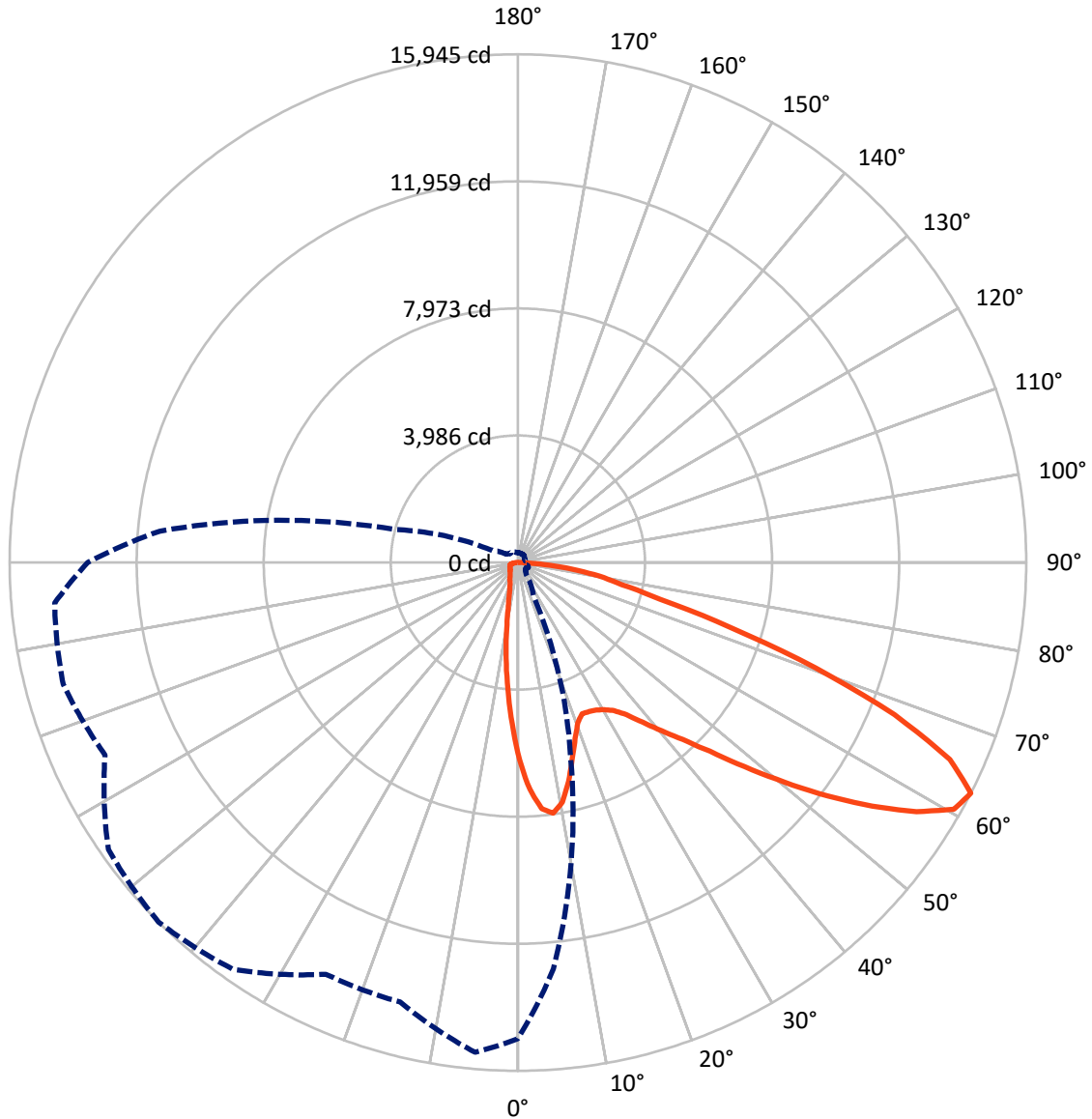
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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	3037.1	0.0	3037.1
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	15315.6	0.0	15315.6
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	18352.7	0.0	18352.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	451.4	2.5
10°-20°	827.7	4.5
20°-30°	1206.8	6.6
30°-40°	1858.6	10.1
40°-50°	2735.4	14.9
50°-60°	4012.2	21.9
60°-70°	4485.1	24.4
70°-80°	2195.8	12.0
80°-90°	579.8	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°	18352.7	100.0
0°-180°	18352.7	100.0



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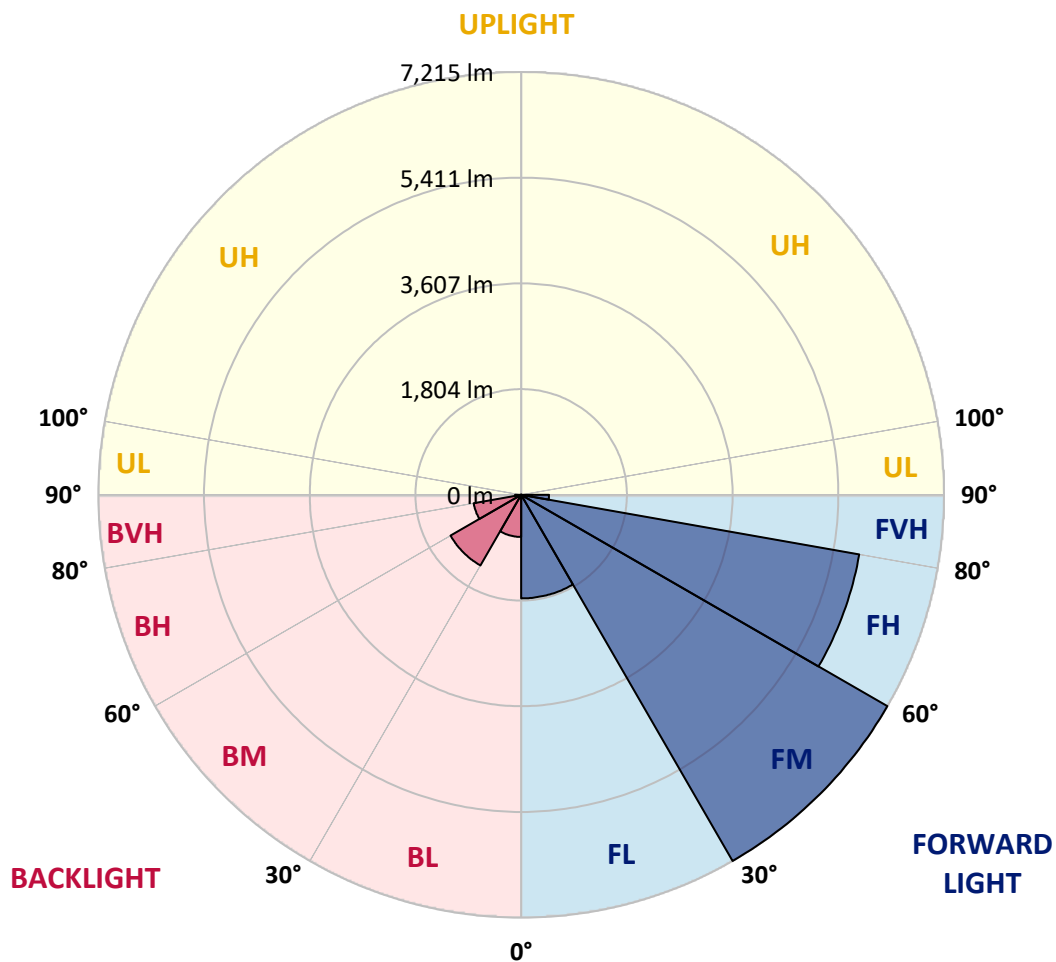
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1767.3	9.6			
FM (30°-60°)	7214.6	39.3			
FH (60°-80°)	5857.6	31.9			G3/7500
FVH (80°-90°)	476.1	2.6			G3/500
BL (0°-30°)	718.5	3.9	B2/1000		
BM (30°-60°)	1391.6	7.6	B2/2500		
BH (60°-80°)	823.4	4.5	B2/1000		G2/1000
BVH (80°-90°)	103.6	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6
2.5°	6442.6	6311.5	6093.7	5866.7	5728.4	5566.9	5440.9	5329.9	5107.9	5064.6	5103.9
5°	6058.3	5795.0	5384.4	4970.7	4695.4	4399.7	4169.7	3985.1	3703.6	3654.1	3713.7
7.5°	5441.8	5127.0	4584.3	4056.7	3667.2	3297.9	3049.8	2852.1	2632.2	2537.4	2543.5
10°	4910.1	4555.0	3913.5	3339.4	3020.6	2771.5	2562.5	2359.8	2136.8	1990.6	1950.1
12.5°	4612.5	4204.0	3464.5	2952.0	2656.4	2394.1	2169.0	1952.1	1714.1	1564.8	1522.4
15°	4561.1	4117.2	3296.1	2703.8	2333.5	2001.7	1736.2	1494.2	1249.1	1127.9	1102.7
17.5°	4784.1	4272.6	3241.5	2482.8	2029.9	1620.3	1294.4	1024.0	824.3	763.6	758.7
20°	5211.8	4571.3	3234.4	2275.0	1730.2	1250.0	902.0	705.2	617.5	600.2	601.2
22.5°	5812.2	5034.3	3321.3	2118.7	1454.7	932.3	678.0	590.1	556.0	539.7	539.7
25°	6589.0	5671.9	3520.9	2004.7	1215.6	744.5	598.4	545.8	513.6	502.4	504.5
27.5°	7341.6	6292.4	3752.9	1914.8	1059.3	676.0	567.0	519.6	491.4	480.2	485.3
30°	7928.7	6843.2	3946.8	1792.7	979.6	656.8	578.1	529.7	489.2	472.1	473.1
32.5°	8415.1	7325.4	4109.1	1705.1	908.9	563.0	498.4	477.2	472.1	451.9	441.8
35°	9036.5	7851.0	4218.1	1707.0	875.7	502.4	443.9	406.6	379.4	356.2	356.2
37.5°	9764.8	8454.4	4334.1	1730.2	863.6	467.1	424.7	387.3	362.1	340.0	336.0
40°	10485.2	9045.6	4440.1	1752.5	856.5	445.9	409.5	375.3	352.0	329.9	323.8
42.5°	11097.7	9531.8	4535.0	1763.6	832.3	443.9	398.5	367.2	344.9	320.9	314.8
45°	11550.5	9939.4	4636.8	1780.7	808.1	451.9	398.5	366.1	339.0	315.8	309.7
47.5°	11955.2	10417.6	4807.3	1780.7	778.8	436.8	411.7	367.2	337.9	313.8	308.7
50°	12497.0	11073.3	5130.1	1739.3	737.5	420.6	433.8	363.2	328.9	309.7	303.6
52.5°	13243.5	11913.9	5642.7	1667.7	673.9	389.4	430.7	361.2	319.7	299.7	292.6
55°	14126.2	12813.8	6201.5	1583.9	579.0	367.2	415.6	356.2	309.7	287.5	280.5
57.5°	14815.2	13433.2	6594.9	1454.7	496.4	355.1	368.2	351.1	297.6	274.4	268.4
60°	15089.6	13408.9	6703.0	1282.3	456.0	344.9	321.9	393.5	287.5	264.3	257.3
62.5°	14941.4	12789.4	6400.3	1161.1	446.9	332.0	301.7	364.3	279.5	257.3	247.2
65°	14256.5	11691.8	5598.2	1128.9	473.1	318.8	288.5	285.5	268.4	247.2	237.2
67.5°	12764.2	10051.5	4482.5	1132.0	506.5	305.8	275.4	261.2	253.2	236.1	227.0
70°	10396.4	7946.9	3341.3	1139.9	523.6	290.5	261.2	246.1	237.2	219.9	213.8
72.5°	7644.2	6124.9	2427.3	1087.6	526.6	273.4	242.2	229.0	219.9	201.8	196.6
75°	5230.0	4685.2	1683.9	900.9	459.0	249.2	221.0	208.9	202.7	180.6	177.5
77.5°	3820.6	3517.0	1077.4	668.9	354.1	218.9	194.8	185.6	181.5	157.5	153.3
80°	3065.9	2782.5	673.9	458.0	259.3	183.7	163.4	158.5	154.4	130.2	127.1
82.5°	2126.6	1863.4	432.9	297.6	194.8	142.2	129.1	127.1	121.0	98.9	95.8
85°	1121.9	1011.9	274.4	202.7	141.3	97.8	89.8	89.8	86.7	65.5	63.6
87.5°	143.3	233.0	139.2	105.9	77.7	43.4	43.4	42.4	45.5	37.3	32.2
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°	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6
2.5°	5011.0	5059.6	5013.1	5016.1	5067.6	5220.9	5290.6	5348.0	5409.6	5449.9	5468.2
5°	3631.9	3744.9	3783.3	3864.0	3983.1	4178.7	4256.3	4312.9	4350.2	4372.5	4381.6
7.5°	2483.9	2552.4	2629.1	2759.2	3018.6	3133.6	3185.0	3171.8	3129.5	3114.5	3099.2
10°	1872.4	1845.2	1831.1	1902.7	2112.5	2228.7	2264.9	2229.7	2206.3	2211.4	2236.7
12.5°	1450.8	1403.3	1345.8	1337.8	1475.9	1579.8	1603.0	1605.1	1647.5	1684.9	1740.2
15°	1057.2	1052.3	1024.0	1006.9	1085.5	1170.3	1180.5	1198.6	1236.8	1264.2	1312.6
17.5°	745.6	772.8	795.0	806.0	865.5	926.2	915.1	906.0	898.9	898.9	922.1
20°	601.2	619.4	647.7	679.9	740.6	783.0	755.7	719.4	693.1	685.0	688.0
22.5°	541.8	556.0	572.0	600.2	654.8	684.0	654.8	628.5	602.4	593.2	590.1
25°	511.5	529.7	544.8	566.0	606.4	626.5	598.4	579.0	563.0	551.9	543.7
27.5°	494.3	510.4	514.5	524.6	558.9	577.2	563.0	555.0	544.8	534.8	524.6
30°	476.2	473.1	466.1	467.1	494.3	512.6	511.5	513.6	512.6	509.5	507.5
32.5°	434.8	428.9	422.7	428.9	454.1	470.2	471.2	475.2	475.2	474.1	482.2
35°	362.1	373.2	380.3	398.5	428.9	443.0	436.8	426.8	408.5	397.5	396.5
37.5°	335.0	337.0	349.1	374.4	407.7	420.6	411.7	388.3	376.3	374.4	377.3
40°	321.9	323.8	330.9	354.1	387.3	400.6	392.5	375.3	364.3	363.2	368.2
42.5°	312.8	314.8	318.8	335.0	362.1	378.4	379.4	367.2	354.1	355.1	360.2
45°	307.7	308.7	307.7	315.8	340.9	360.2	368.2	360.2	349.1	351.1	357.2
47.5°	306.7	303.6	299.7	301.7	327.9	347.0	357.2	354.1	349.1	351.1	356.2
50°	302.6	295.6	290.5	289.6	315.8	336.0	344.9	344.9	347.0	351.1	356.2
52.5°	290.5	282.4	282.4	279.5	307.7	326.9	332.9	333.9	337.0	344.1	351.1
55°	275.4	272.4	275.4	270.4	301.7	319.7	322.9	324.8	326.9	332.9	343.1
57.5°	262.3	258.3	265.3	263.4	296.6	312.8	312.8	316.8	316.8	324.8	332.9
60°	255.3	247.2	250.2	252.2	289.6	306.7	304.6	308.7	310.8	317.8	323.8
62.5°	246.1	239.0	239.0	244.2	281.4	297.6	296.6	299.7	307.7	309.7	315.8
65°	235.0	232.0	229.0	235.0	273.4	287.5	288.5	292.6	299.7	301.7	306.7
67.5°	223.9	224.9	218.9	224.9	266.3	277.4	277.4	285.5	288.5	292.6	297.6
70°	211.9	212.9	207.8	214.9	261.2	266.3	265.3	276.4	278.5	281.4	286.5
72.5°	196.6	196.6	194.8	204.9	253.2	255.3	253.2	262.3	263.4	266.3	268.4
75°	180.6	180.6	178.6	192.6	248.2	243.1	237.2	244.2	246.1	248.2	248.2
77.5°	159.4	161.4	161.4	178.6	231.0	238.1	217.8	221.9	224.9	226.1	223.0
80°	133.2	138.2	140.2	162.5	193.8	219.9	194.8	197.7	198.7	198.7	194.8
82.5°	101.9	111.0	116.1	140.2	148.3	184.6	169.5	172.6	169.5	163.4	161.4
85°	70.6	82.7	88.8	107.0	112.0	142.2	141.3	141.3	135.1	127.1	126.1
87.5°	38.4	45.5	49.4	63.6	76.6	95.8	103.9	100.9	95.8	90.8	91.7
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°	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6
2.5°	5562.9	5700.1	5919.0	6086.6	6255.0	6417.4	6593.0	6727.1	6841.2	6885.6	7020.8
5°	4473.3	4644.9	4851.7	5224.9	5489.4	5780.9	6117.7	6563.7	6735.2	6972.4	7360.7
7.5°	3162.8	3318.2	3651.2	3952.7	4327.0	4739.6	5194.7	5810.1	6035.2	6415.4	7048.0
10°	2361.7	2542.4	2809.7	3063.9	3393.8	3815.6	4338.2	5026.1	5299.6	5712.2	6440.7
12.5°	1902.7	2115.6	2399.2	2638.2	2893.4	3191.0	3698.5	4453.2	4819.3	5180.5	5917.0
15°	1461.8	1684.9	1948.2	2251.8	2533.3	2854.2	3385.8	4211.1	4632.7	5009.0	5637.7
17.5°	1011.9	1202.7	1534.5	1851.2	2211.4	2622.1	3299.0	4262.5	4765.9	5199.7	5686.0
20°	717.2	826.4	1098.6	1465.9	1914.8	2430.4	3282.9	4532.8	5187.6	5682.9	5996.7
22.5°	603.3	643.6	802.0	1139.1	1657.6	2287.2	3339.4	4912.2	5756.6	6389.1	6492.1
25°	549.9	574.0	656.8	893.9	1428.6	2183.2	3530.1	5477.1	6460.8	7095.4	7077.2
27.5°	520.6	545.8	600.2	754.7	1256.0	2118.7	3720.7	6147.1	7265.9	7862.1	7636.1
30°	511.5	545.8	603.3	711.3	1132.9	2016.8	3877.2	6735.2	7885.3	8379.7	7890.4
32.5°	504.5	509.5	535.7	613.5	1016.0	1897.7	3983.1	7262.8	8491.7	8872.0	8256.6
35°	407.7	432.9	475.2	549.9	947.4	1826.1	3983.1	7717.9	9089.0	9369.4	8605.8
37.5°	392.5	414.7	451.9	515.5	908.9	1790.7	3903.3	8156.7	9699.3	9933.4	8893.2
40°	384.4	402.5	437.8	489.2	892.8	1750.3	3787.3	8544.1	10295.6	10498.3	9161.5
42.5°	378.4	394.4	427.8	473.1	871.6	1706.1	3693.6	8855.0	10813.1	10980.6	9417.8
45°	375.3	392.5	428.9	481.2	829.2	1647.5	3662.2	9190.9	11238.9	11383.1	9695.2
47.5°	375.3	395.4	433.8	498.4	778.8	1586.9	3760.0	9633.8	11641.3	11712.0	10022.1
50°	372.3	394.4	448.0	481.2	705.2	1510.3	3990.1	10191.6	12077.3	12085.3	10435.8
52.5°	366.1	392.5	482.2	471.2	620.5	1409.4	4300.8	10907.9	12721.8	12770.3	11083.5
55°	359.1	389.4	473.1	448.0	550.8	1289.3	4555.0	11778.5	13627.8	13762.0	12035.9
57.5°	350.1	385.5	458.0	415.6	505.4	1135.0	4646.8	12416.3	14260.5	14597.4	13109.3
60°	342.1	382.4	413.6	396.5	477.2	1004.8	4469.2	12290.2	14217.0	14943.5	14060.7
62.5°	333.9	385.5	377.3	384.4	464.1	921.1	4005.3	11280.2	13497.8	14586.3	14765.9
65°	324.8	358.2	356.2	374.4	461.1	887.9	3320.1	9766.0	12107.4	13457.4	14932.3
67.5°	312.8	330.9	340.9	361.2	471.2	858.6	2679.6	8055.9	10175.6	11765.6	14064.8
70°	299.7	314.8	325.8	344.9	465.1	845.5	2228.7	6352.9	8074.1	9642.9	12352.7
72.5°	282.4	295.6	305.8	323.8	459.0	838.4	1882.6	5115.9	6028.0	7163.1	10043.3
75°	262.3	274.4	281.4	299.7	439.9	767.7	1480.0	4329.1	4510.7	4982.8	7999.3
77.5°	239.0	248.2	254.2	274.4	389.4	638.6	1070.4	3339.4	3502.9	3617.8	6133.0
80°	211.9	221.0	223.9	243.1	322.9	499.4	698.2	2466.7	2620.0	2646.2	4005.3
82.5°	180.6	189.6	189.6	207.8	264.3	359.1	458.0	1689.8	1720.2	1808.8	2830.9
85°	145.3	152.4	152.4	161.4	204.9	268.4	314.8	848.4	839.3	958.4	2452.6
87.5°	103.9	109.0	114.1	116.1	146.2	177.5	189.6	258.3	170.5	195.7	1574.9
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°	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6	6200.6
2.5°	7122.7	7180.2	7121.7	7079.3	6896.6	6746.4	6545.6	6442.6
5°	7656.3	7802.6	7753.2	7575.6	7194.3	6765.6	6278.3	6058.3
7.5°	7591.8	7931.8	7939.8	7607.9	7045.9	6414.3	5754.6	5441.8
10°	7089.3	7524.2	7648.3	7326.4	6730.2	6023.9	5267.3	4910.1
12.5°	6528.4	6954.1	7049.0	6938.0	6439.6	5730.4	4962.6	4612.5
15°	6069.4	6260.1	6373.0	6470.0	6190.5	5613.4	4945.4	4561.1
17.5°	5789.9	5768.7	5801.1	5969.4	6016.9	5747.5	5207.8	4784.1
20°	5689.1	5365.1	5357.1	5589.2	5935.2	6067.3	5720.2	5211.8
22.5°	5744.5	5220.0	5153.3	5428.7	5978.6	6528.4	6392.2	5812.2
25°	5936.2	5232.0	5178.5	5444.8	6136.0	7019.7	7117.6	6589.0
27.5°	6237.9	5308.8	5238.0	5511.6	6344.8	7432.3	7832.0	7341.6
30°	6524.4	5441.8	5354.1	5642.7	6535.4	7595.8	8269.7	7928.7
32.5°	6872.5	5691.0	5536.8	5883.8	6771.6	7856.0	8660.2	8415.1
35°	7213.5	6046.2	5854.6	6256.1	7034.8	8180.0	9106.1	9036.5
37.5°	7587.8	6510.2	6351.8	6737.3	7395.0	8485.6	9675.0	9764.8
40°	7987.3	7125.6	6938.0	7439.5	7954.0	8869.0	10269.3	10485.2
42.5°	8389.8	7808.6	7584.7	8093.2	8568.4	9247.3	10777.9	11097.7
45°	8850.8	8550.2	8444.2	8994.1	9158.6	9607.6	11153.0	11550.5
47.5°	9387.6	9391.6	9562.1	9782.1	9753.7	10015.2	11530.5	11955.2
50°	10014.0	10441.9	10818.2	10964.4	10367.2	10452.9	12054.0	12497.0
52.5°	10766.6	11697.9	12163.9	12068.1	11028.0	10987.7	12883.3	13243.5
55°	11708.0	13027.6	13490.7	13422.0	11787.6	11716.1	13916.5	14126.2
57.5°	12797.6	14315.8	14741.6	14433.0	12699.7	12515.0	14770.9	14815.2
60°	13754.9	15336.9	15710.2	15368.2	13619.8	13365.5	15304.7	15089.6
62.5°	14287.6	15682.9	15945.3	15577.0	14250.4	14271.6	15421.7	14941.4
65°	14049.6	14808.3	14893.0	14862.7	14087.8	14797.2	15000.9	14256.5
67.5°	12746.1	12596.8	12739.0	12935.9	12695.7	14105.0	13835.7	12764.2
70°	10450.0	9629.7	9913.2	10045.3	10154.4	12137.8	12008.6	10396.4
72.5°	7875.4	6746.4	6970.3	6943.1	7447.5	9735.7	9339.1	7644.2
75°	5580.1	4574.2	4602.5	4591.3	5196.8	7617.0	6762.5	5230.0
77.5°	3904.4	3314.1	3329.3	3391.8	3493.7	5744.5	4831.5	3820.6
80°	2684.7	2515.2	2598.8	2603.8	2421.3	3858.9	3569.3	3065.9
82.5°	1999.5	1748.5	1728.2	1757.4	1897.7	3126.6	2743.2	2126.6
85°	1637.4	1035.0	832.3	1043.2	1681.7	3096.3	1822.0	1121.9
87.5°	922.1	491.4	221.9	411.7	670.9	2050.0	526.6	143.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)