

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: P193873

Luminaire Tested: **GLEON-AF-05-LED-E1-SLR-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193873  
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-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 21334 lumens  
Efficiency: N/A  
Efficacy: 76.5 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 - G4

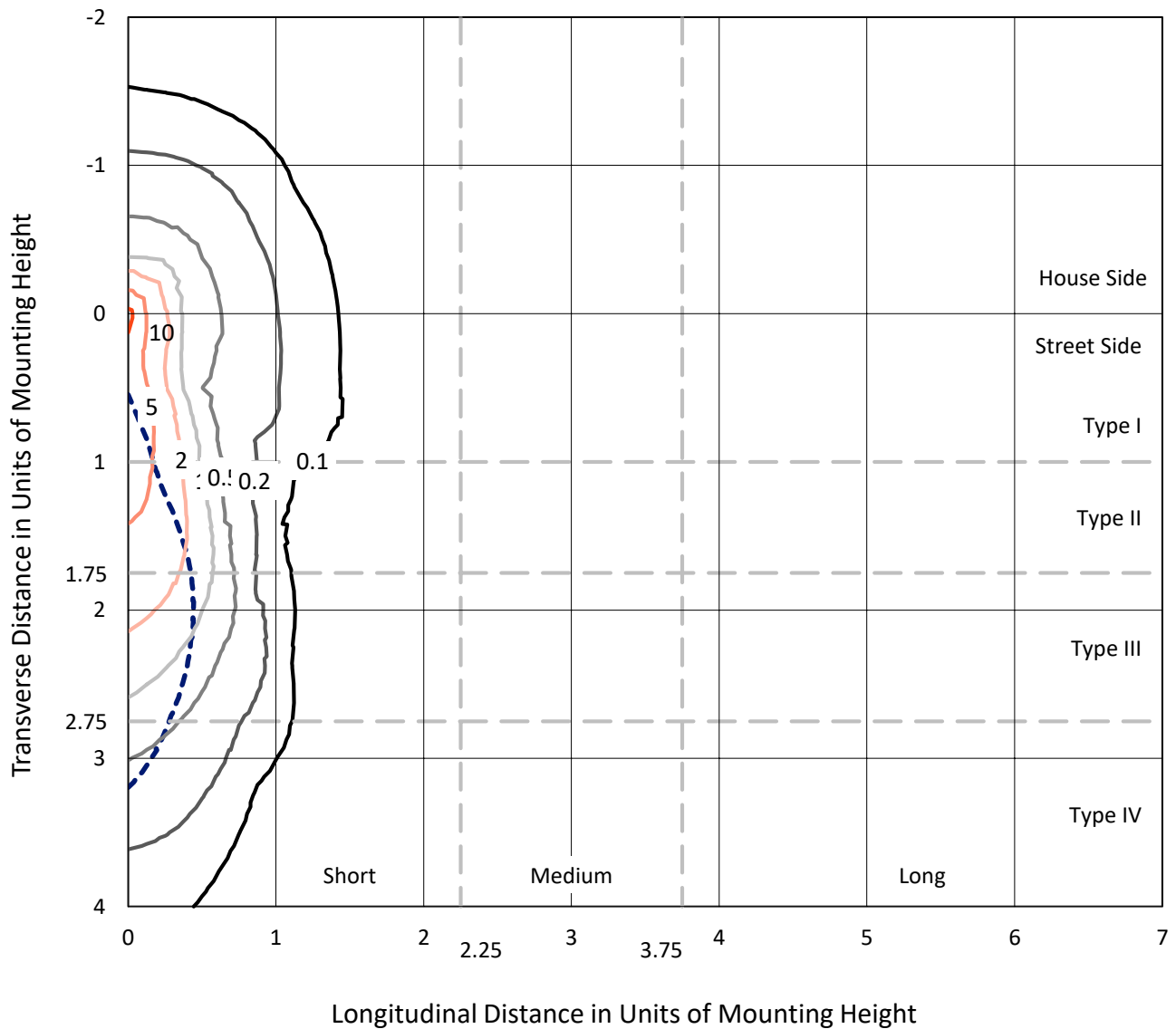
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

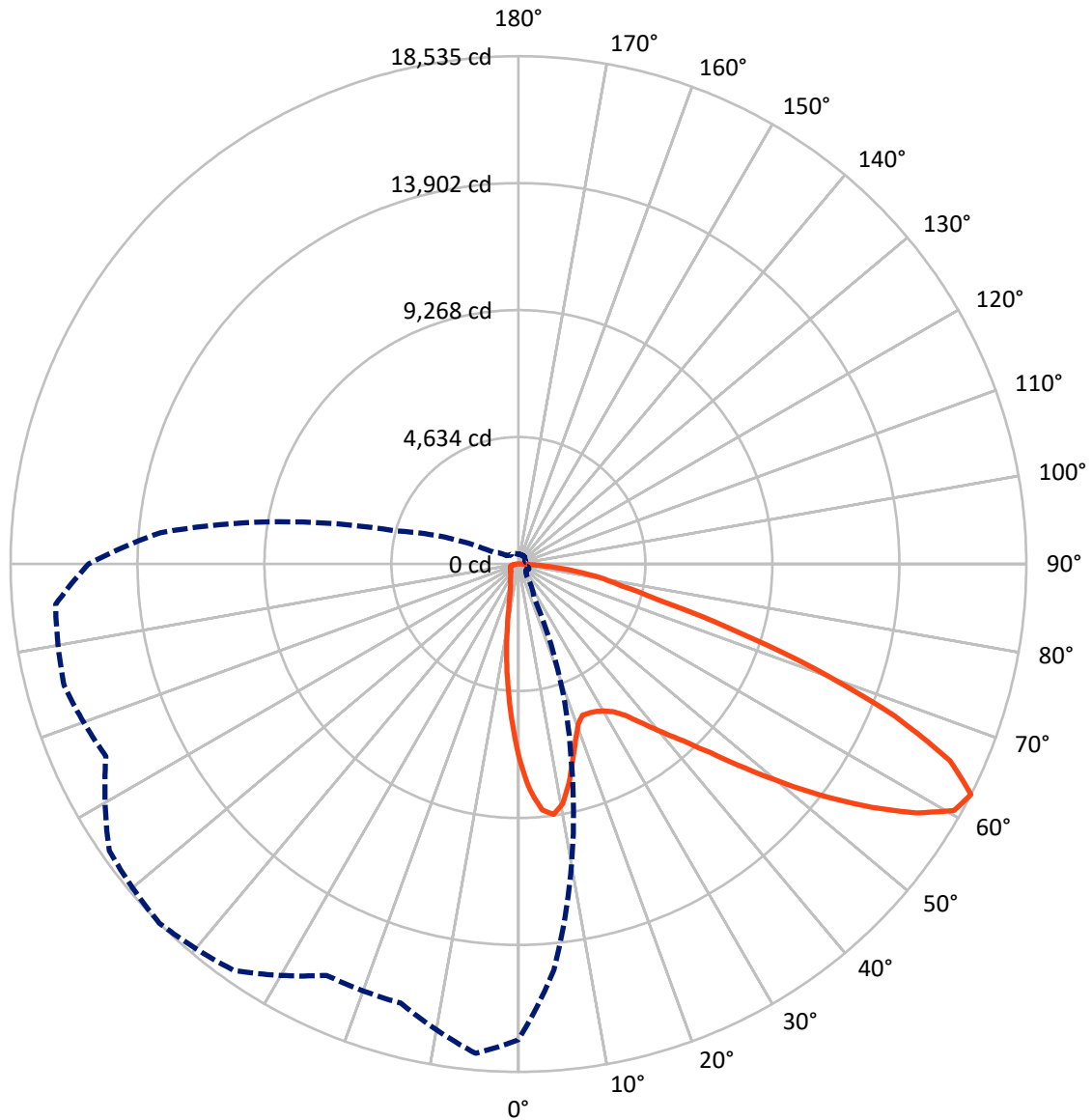
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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	3530.5	0.0	3530.5
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	17803.5	0.0	17803.5
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	21334.0	0.0	21334.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	524.7	2.5
10°-20°	962.1	4.5
20°-30°	1402.8	6.6
30°-40°	2160.5	10.1
40°-50°	3179.7	14.9
50°-60°	4664.0	21.9
60°-70°	5213.7	24.4
70°-80°	2552.5	12.0
80°-90°	673.9	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°	21334.0	100.0
0°-180°	21334.0	100.0

**Coefficient of Utilization**



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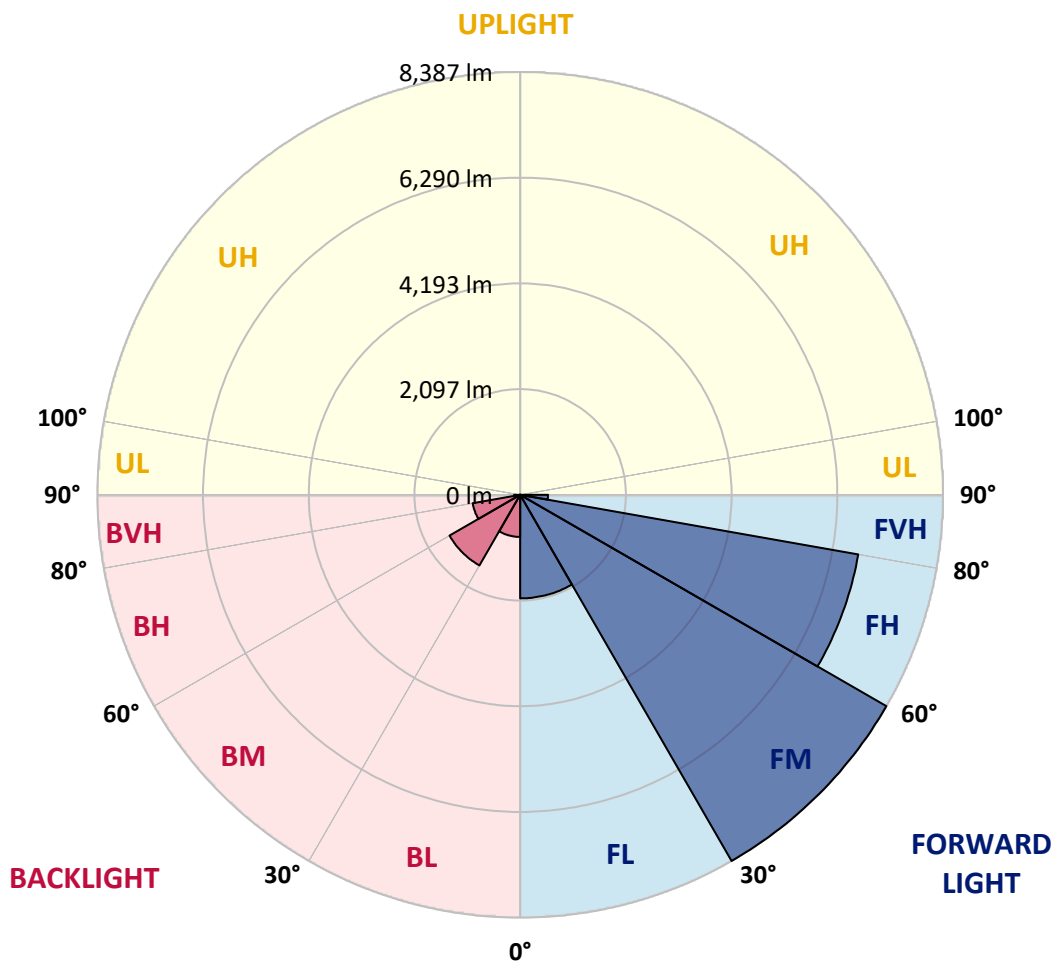
CATALOG NUMBER: GLEON-AF-05-LED-E1-SLR-8030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2054.4	9.6			
FM	(30°-60°)	8386.6	39.3			
FH	(60°-80°)	6809.1	31.9			G3/7500
FVH	(80°-90°)	553.5	2.6			G4/750
BL	(0°-30°)	835.3	3.9	B2/1000		
BM	(30°-60°)	1617.6	7.6	B2/2500		
BH	(60°-80°)	957.1	4.5	B2/1000		G2/1000
BVH	(80°-90°)	120.5	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8
2.5°	7489.2	7336.8	7083.5	6819.6	6658.9	6471.3	6324.7	6195.7	5937.7	5887.2	5933.0
5°	7042.4	6736.3	6259.0	5778.2	5458.0	5114.4	4847.0	4632.4	4305.2	4247.7	4316.9
7.5°	6325.9	5960.0	5329.0	4715.7	4263.0	3833.7	3545.2	3315.4	3059.7	2949.5	2956.5
10°	5707.8	5295.0	4549.1	3881.8	3511.2	3221.6	2978.8	2743.1	2483.9	2313.9	2266.9
12.5°	5361.9	4886.9	4027.3	3431.5	3087.9	2783.0	2521.4	2269.3	1992.5	1818.9	1769.7
15°	5302.0	4786.0	3831.4	3143.0	2712.6	2326.8	2018.3	1736.9	1451.9	1311.1	1281.8
17.5°	5561.2	4966.6	3768.1	2886.2	2359.6	1883.5	1504.6	1190.3	958.1	887.8	881.9
20°	6058.5	5313.8	3759.9	2644.6	2011.3	1453.0	1048.4	819.8	717.7	697.8	699.0
22.5°	6756.3	5852.1	3860.7	2462.8	1691.1	1083.6	788.1	686.1	646.2	627.4	627.4
25°	7659.3	6593.2	4092.9	2330.3	1413.2	865.5	695.4	634.5	596.9	584.0	586.4
27.5°	8534.2	7314.5	4362.7	2225.9	1231.4	785.7	659.1	604.0	571.1	558.2	564.1
30°	9216.7	7954.8	4587.8	2084.0	1138.7	763.5	672.0	615.7	568.8	548.9	550.0
32.5°	9782.0	8515.4	4776.6	1982.0	1056.7	654.4	579.3	554.7	548.9	525.4	513.7
35°	10504.4	9126.4	4903.3	1984.3	1018.0	584.0	516.0	472.6	441.0	414.0	414.0
37.5°	11351.1	9827.7	5038.2	2011.3	1003.9	543.0	493.7	450.3	421.0	395.2	390.5
40°	12188.5	10515.0	5161.3	2037.1	995.7	518.4	476.1	436.3	409.3	383.5	376.5
42.5°	12900.3	11080.2	5271.5	2050.0	967.5	516.0	463.2	426.9	401.1	372.9	365.9
45°	13426.9	11554.0	5390.0	2069.9	939.4	525.4	463.2	425.7	394.0	367.1	360.0
47.5°	13897.2	12109.9	5588.2	2069.9	905.4	507.8	478.5	426.9	392.9	364.7	358.9
50°	14527.0	12872.2	5963.5	2021.8	857.3	489.0	504.3	422.2	382.3	360.0	353.0
52.5°	15394.8	13849.1	6559.2	1938.6	783.4	452.7	500.8	419.8	371.8	348.3	340.1
55°	16421.0	14895.2	7208.9	1841.2	673.2	426.9	483.2	414.0	360.0	334.2	326.0
57.5°	17222.0	15615.3	7666.3	1691.1	577.0	412.8	428.1	408.1	346.0	319.0	312.0
60°	17541.0	15587.1	7791.8	1490.6	530.1	401.1	374.1	457.4	334.2	307.3	299.1
62.5°	17368.6	14867.1	7440.0	1349.8	519.5	385.8	350.7	423.4	324.9	299.1	287.3
65°	16572.3	13591.1	6507.6	1312.3	550.0	370.6	335.4	331.9	312.0	287.3	275.6
67.5°	14837.7	11684.2	5210.6	1315.8	588.7	355.3	320.2	303.7	294.4	274.4	263.9
70°	12085.3	9237.8	3884.2	1325.2	608.7	337.8	303.7	286.2	275.6	255.7	248.6
72.5°	8886.0	7119.8	2821.7	1264.2	612.2	317.8	281.5	266.2	255.7	234.6	228.7
75°	6079.6	5446.3	1957.3	1047.3	533.6	289.7	256.8	242.8	235.7	209.9	206.4
77.5°	4441.2	4088.2	1252.5	777.5	411.6	254.5	226.3	215.8	211.1	183.0	178.3
80°	3564.0	3234.5	783.4	532.4	301.4	213.4	190.0	184.1	179.4	151.3	147.8
82.5°	2472.2	2166.1	503.1	346.0	226.3	165.4	150.1	147.8	140.7	114.9	111.4
85°	1304.1	1176.3	319.0	235.7	164.2	113.8	104.4	104.4	100.9	76.2	73.9
87.5°	166.5	270.9	161.8	123.1	90.3	50.4	50.4	49.3	52.8	43.4	37.5
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8
2.5°	5825.1	5881.4	5827.4	5831.0	5890.8	6069.0	6149.9	6216.8	6288.3	6335.2	6356.4
5°	4221.9	4353.3	4397.8	4491.7	4630.1	4857.6	4947.9	5013.5	5056.9	5082.7	5093.3
7.5°	2887.3	2967.1	3056.2	3207.5	3508.9	3642.6	3702.4	3687.2	3637.9	3620.3	3602.7
10°	2176.6	2145.0	2128.6	2211.8	2455.8	2590.6	2632.8	2591.8	2564.8	2570.7	2600.0
12.5°	1686.4	1631.3	1564.5	1555.1	1715.7	1836.5	1863.5	1865.9	1915.1	1958.5	2023.0
15°	1229.1	1223.2	1190.3	1170.4	1261.9	1360.4	1372.1	1393.2	1437.8	1469.5	1525.8
17.5°	866.7	898.3	924.1	937.0	1006.2	1076.6	1063.7	1053.1	1044.9	1044.9	1071.9
20°	699.0	720.1	752.9	790.4	860.8	910.1	878.4	836.2	805.7	796.3	799.8
22.5°	629.8	646.2	665.0	697.8	761.1	795.1	761.1	730.6	700.1	689.6	686.1
25°	594.6	615.7	633.3	657.9	704.8	728.3	695.4	673.2	654.4	641.5	632.1
27.5°	574.7	593.4	598.1	609.8	649.7	670.8	654.4	645.0	633.3	621.6	609.8
30°	553.5	550.0	541.8	543.0	574.7	595.8	594.6	596.9	595.8	592.2	589.9
32.5°	505.5	498.4	491.4	498.4	527.7	546.5	547.7	552.4	552.4	551.2	560.6
35°	421.0	433.9	442.1	463.2	498.4	514.8	507.8	496.1	475.0	462.1	460.9
37.5°	389.4	391.7	405.8	435.1	473.8	489.0	478.5	451.5	437.4	435.1	438.6
40°	374.1	376.5	384.7	411.6	450.3	465.6	456.2	436.3	423.4	422.2	428.1
42.5°	363.6	365.9	370.6	389.4	421.0	439.8	441.0	426.9	411.6	412.8	418.7
45°	357.7	358.9	357.7	367.1	396.4	418.7	428.1	418.7	405.8	408.1	415.2
47.5°	356.5	353.0	348.3	350.7	381.1	403.4	415.2	411.6	405.8	408.1	414.0
50°	351.8	343.6	337.8	336.6	367.1	390.5	401.1	401.1	403.4	408.1	414.0
52.5°	337.8	328.4	328.4	324.9	357.7	380.0	387.0	388.2	391.7	399.9	408.1
55°	320.2	316.6	320.2	314.3	350.7	371.8	375.3	377.6	380.0	387.0	398.7
57.5°	304.9	300.2	308.4	306.1	344.8	363.6	363.6	368.2	368.2	377.6	387.0
60°	296.7	287.3	290.8	293.2	336.6	356.5	354.2	358.9	361.2	369.4	376.5
62.5°	286.2	277.9	277.9	283.8	327.2	346.0	344.8	348.3	357.7	360.0	367.1
65°	273.3	269.7	266.2	273.3	317.8	334.2	335.4	340.1	348.3	350.7	356.5
67.5°	260.4	261.5	254.5	261.5	309.6	322.5	322.5	331.9	335.4	340.1	346.0
70°	246.3	247.5	241.6	249.8	303.7	309.6	308.4	321.3	323.7	327.2	333.1
72.5°	228.7	228.7	226.3	238.1	294.4	296.7	294.4	304.9	306.1	309.6	312.0
75°	209.9	209.9	207.6	224.0	288.5	282.6	275.6	283.8	286.2	288.5	288.5
77.5°	185.3	187.6	187.6	207.6	268.6	276.8	253.3	258.0	261.5	262.7	259.2
80°	154.8	160.7	163.0	188.8	225.2	255.7	226.3	229.9	231.0	231.0	226.3
82.5°	118.4	129.0	134.9	163.0	172.4	214.6	197.0	200.5	197.0	190.0	187.6
85°	82.1	96.2	103.2	124.3	130.2	165.4	164.2	164.2	157.1	147.8	146.6
87.5°	44.6	52.8	57.5	73.9	89.1	111.4	120.8	117.3	111.4	105.5	106.7
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°	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8
2.5°	6466.6	6626.1	6880.6	7075.3	7271.1	7459.9	7664.0	7820.0	7952.5	8004.1	8161.2
5°	5200.0	5399.4	5639.8	6073.7	6381.0	6719.9	7111.6	7630.0	7829.3	8104.9	8556.4
7.5°	3676.6	3857.2	4244.2	4594.9	5030.0	5509.6	6038.5	6753.9	7015.4	7457.6	8192.9
10°	2745.4	2955.4	3266.1	3561.7	3945.2	4435.4	5042.9	5842.7	6160.5	6640.2	7486.9
12.5°	2211.8	2459.3	2788.8	3066.8	3363.5	3709.4	4299.3	5176.6	5602.3	6022.1	6878.2
15°	1699.3	1958.5	2264.6	2617.6	2944.8	3317.7	3935.8	4895.1	5385.3	5822.7	6553.4
17.5°	1176.3	1397.9	1783.8	2152.0	2570.7	3048.0	3834.9	4954.9	5540.1	6044.4	6609.7
20°	833.8	960.5	1277.1	1704.0	2225.9	2825.2	3816.2	5269.2	6030.3	6606.1	6970.9
22.5°	701.3	748.2	932.3	1324.0	1926.8	2658.6	3881.8	5710.2	6691.8	7427.1	7546.7
25°	639.2	667.3	763.5	1039.1	1660.6	2537.8	4103.5	6366.9	7510.3	8248.0	8226.9
27.5°	605.1	634.5	697.8	877.2	1460.1	2462.8	4325.1	7145.6	8446.2	9139.3	8876.6
30°	594.6	634.5	701.3	826.8	1317.0	2344.3	4506.9	7829.3	9166.3	9740.9	9172.1
32.5°	586.4	592.2	622.7	713.0	1181.0	2206.0	4630.1	8442.7	9871.1	10313.2	9597.9
35°	473.8	503.1	552.4	639.2	1101.2	2122.7	4630.1	8971.6	10565.4	10891.4	10003.6
37.5°	456.2	482.0	525.4	599.3	1056.7	2081.6	4537.4	9481.8	11274.9	11547.0	10337.9
40°	446.8	467.9	509.0	568.8	1037.9	2034.7	4402.5	9932.1	11968.0	12203.7	10649.8
42.5°	439.8	458.5	497.2	550.0	1013.3	1983.1	4293.5	10293.3	12569.6	12764.3	10947.7
45°	436.3	456.2	498.4	559.4	964.0	1915.1	4257.1	10683.8	13064.5	13232.2	11270.2
47.5°	436.3	459.7	504.3	579.3	905.4	1844.7	4370.9	11198.7	13532.5	13614.6	11650.2
50°	432.7	458.5	520.7	559.4	819.8	1755.6	4638.3	11847.2	14039.1	14048.5	12131.0
52.5°	425.7	456.2	560.6	547.7	721.2	1638.3	4999.5	12679.9	14788.5	14844.8	12883.9
55°	417.5	452.7	550.0	520.7	640.3	1498.8	5295.0	13692.0	15841.6	15997.6	13991.0
57.5°	406.9	448.0	532.4	483.2	587.6	1319.4	5401.7	14433.1	16576.9	16968.6	15238.8
60°	397.6	444.5	480.8	460.9	554.7	1168.1	5195.3	14286.5	16526.5	17370.9	16344.7
62.5°	388.2	448.0	438.6	446.8	539.5	1070.7	4655.9	13112.6	15690.3	16955.7	17164.5
65°	377.6	416.3	414.0	435.1	536.0	1032.0	3859.5	11352.3	14074.3	15643.4	17358.0
67.5°	363.6	384.7	396.4	419.8	547.7	998.0	3114.8	9364.5	11828.4	13676.7	16349.4
70°	348.3	365.9	378.8	401.1	540.6	982.8	2590.6	7384.9	9385.6	11209.2	14359.3
72.5°	328.4	343.6	355.3	376.5	533.6	974.6	2188.4	5947.1	7007.2	8326.6	11674.8
75°	304.9	319.0	327.2	348.3	511.3	892.5	1720.4	5032.3	5243.4	5792.3	9298.8
77.5°	277.9	288.5	295.5	319.0	452.7	742.4	1244.3	3881.8	4071.8	4205.5	7129.2
80°	246.3	256.8	260.4	282.6	375.3	580.5	811.5	2867.4	3045.7	3076.1	4655.9
82.5°	209.9	220.5	220.5	241.6	307.3	417.5	532.4	1964.4	1999.6	2102.8	3290.8
85°	168.9	177.1	177.1	187.6	238.1	312.0	365.9	986.3	975.7	1114.1	2851.0
87.5°	120.8	126.7	132.5	134.9	170.0	206.4	220.5	300.2	198.2	227.5	1830.7
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):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8	7207.8
2.5°	8279.7	8346.5	8278.5	8229.2	8017.0	7842.2	7608.9	7489.2
5°	8900.1	9070.1	9012.6	8806.2	8362.9	7864.5	7298.1	7042.4
7.5°	8825.0	9220.2	9229.6	8843.8	8190.5	7456.4	6689.4	6325.9
10°	8241.0	8746.4	8890.7	8516.6	7823.5	7002.5	6123.0	5707.8
12.5°	7588.9	8083.8	8194.1	8065.1	7485.7	6661.3	5768.8	5361.9
15°	7055.3	7277.0	7408.3	7520.9	7196.0	6525.2	5748.9	5302.0
17.5°	6730.5	6705.8	6743.4	6939.2	6994.3	6681.2	6053.8	5561.2
20°	6613.2	6236.7	6227.3	6497.1	6899.3	7053.0	6649.5	6058.5
22.5°	6677.7	6067.9	5990.5	6310.6	6949.8	7588.9	7430.6	6756.3
25°	6900.5	6081.9	6019.8	6329.4	7132.7	8160.1	8273.8	7659.3
27.5°	7251.2	6171.1	6089.0	6406.8	7375.5	8639.7	9104.1	8534.2
30°	7584.2	6325.9	6223.8	6559.2	7597.1	8829.7	9613.1	9216.7
32.5°	7988.8	6615.5	6436.1	6839.5	7871.6	9132.3	10067.0	9782.0
35°	8385.2	7028.3	6805.5	7272.3	8177.6	9508.7	10585.3	10504.4
37.5°	8820.3	7567.8	7383.7	7831.7	8596.3	9864.1	11246.8	11351.1
40°	9284.7	8283.2	8065.1	8647.9	9246.0	10309.7	11937.5	12188.5
42.5°	9752.7	9077.2	8816.8	9407.9	9960.2	10749.5	12528.6	12900.3
45°	10288.6	9939.1	9816.0	10455.1	10646.3	11168.2	12964.8	13426.9
47.5°	10912.5	10917.2	11115.4	11371.1	11338.2	11642.0	13403.5	13897.2
50°	11640.8	12138.1	12575.5	12745.5	12051.3	12151.0	14012.1	14527.0
52.5°	12515.7	13598.1	14140.0	14028.5	12819.4	12772.5	14976.1	15394.8
55°	13609.9	15143.8	15682.1	15602.4	13702.5	13619.2	16177.0	16421.0
57.5°	14876.4	16641.4	17136.3	16777.5	14762.7	14548.1	17170.4	17222.0
60°	15989.4	17828.3	18262.2	17864.6	15832.2	15536.7	17790.7	17541.0
62.5°	16608.6	18230.5	18535.4	18107.4	16565.2	16589.8	17926.8	17368.6
65°	16331.8	17213.8	17312.3	17277.1	16376.4	17200.9	17437.7	16572.3
67.5°	14816.6	14643.1	14808.4	15037.1	14758.0	16396.3	16083.2	14837.7
70°	12147.4	11194.0	11523.5	11677.2	11803.8	14109.5	13959.3	12085.3
72.5°	9154.6	7842.2	8102.6	8070.9	8657.3	11317.1	10856.2	8886.0
75°	6486.5	5317.3	5350.1	5337.2	6040.9	8854.3	7861.0	6079.6
77.5°	4538.6	3852.5	3870.1	3942.8	4061.3	6677.7	5616.3	4441.2
80°	3120.7	2923.7	3021.0	3026.9	2814.6	4485.8	4149.2	3564.0
82.5°	2324.4	2032.4	2008.9	2042.9	2206.0	3634.4	3188.7	2472.2
85°	1903.4	1203.3	967.5	1212.6	1955.0	3599.2	2118.0	1304.1
87.5°	1071.9	571.1	258.0	478.5	779.9	2383.0	612.2	166.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)