

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: P191341

Luminaire Tested: **GLEON-AF-03-LED-E1-SLR-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191341  
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-03-LED-E1-SLR-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 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: 17921.1 lumens  
Efficiency: N/A  
Efficacy: 93.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G3

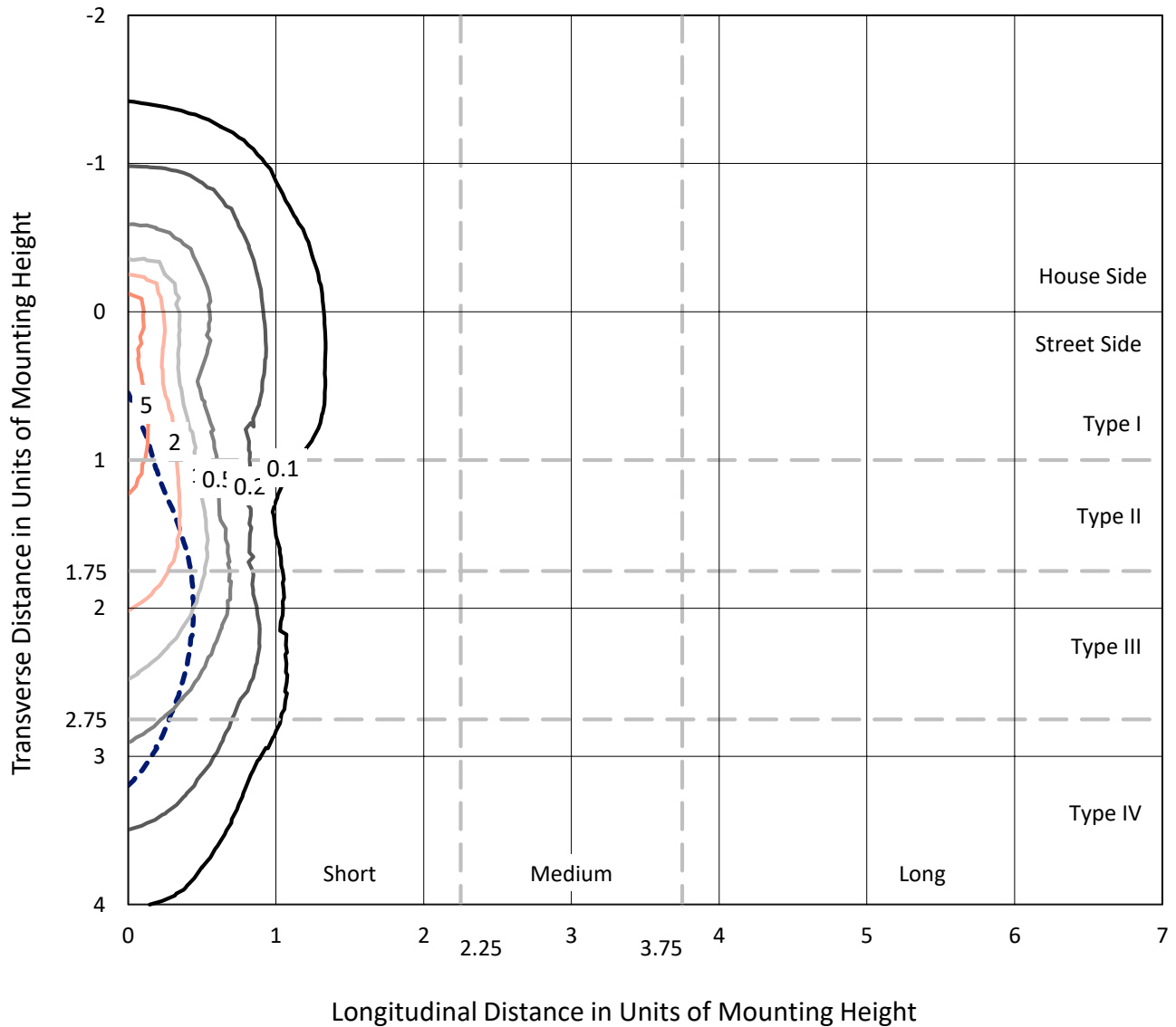
Input Watts (W): 191  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

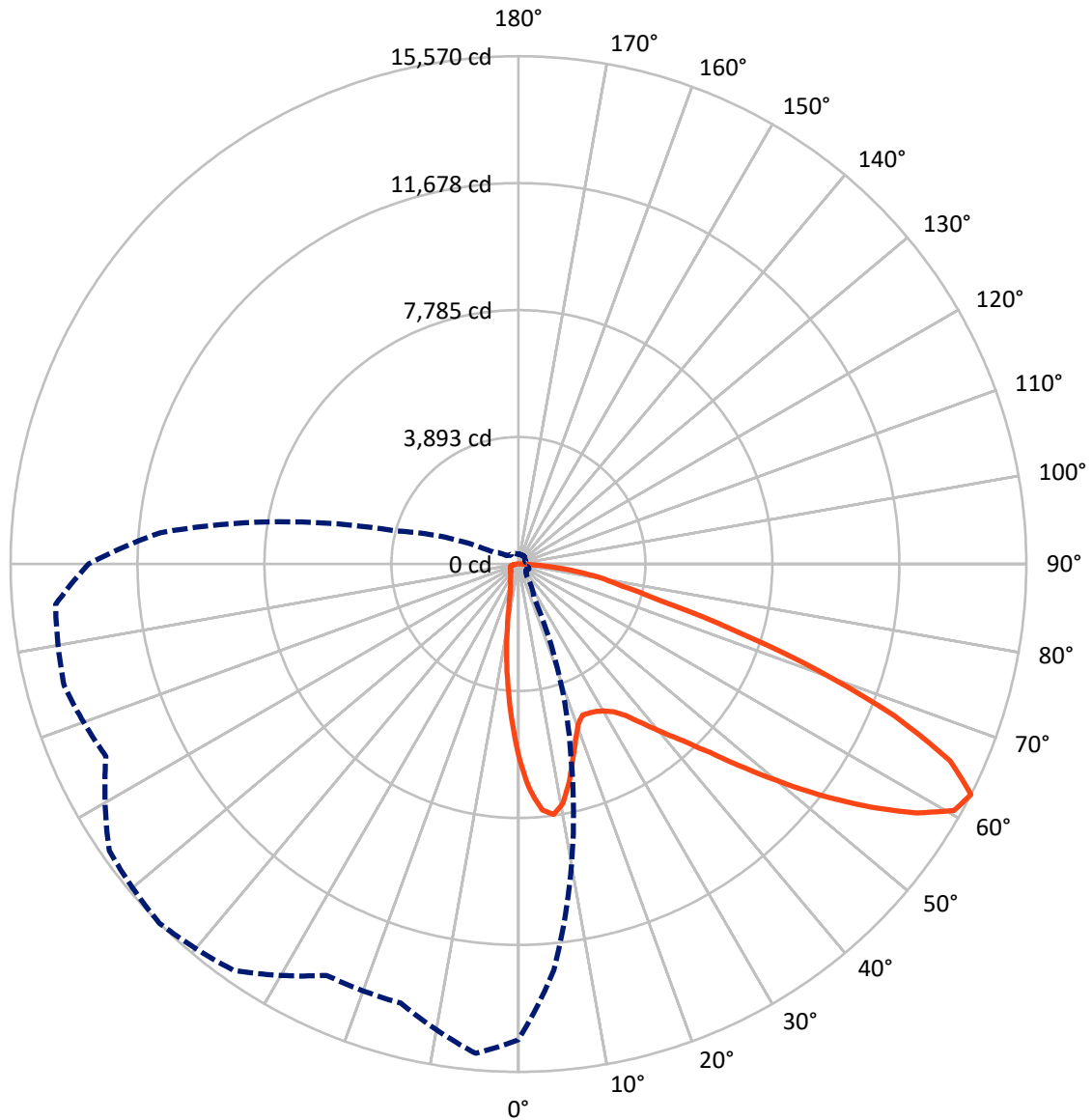
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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	2965.7	0.0	2965.7
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	14955.4	0.0	14955.4
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	17921.1	0.0	17921.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	440.8	2.5
10°-20°	808.2	4.5
20°-30°	1178.4	6.6
30°-40°	1814.9	10.1
40°-50°	2671.0	14.9
50°-60°	3917.9	21.9
60°-70°	4379.6	24.4
70°-80°	2144.2	12.0
80°-90°	566.1	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°	17921.1	100.0
0°-180°	17921.1	100.0

**Coefficient of Utilization**



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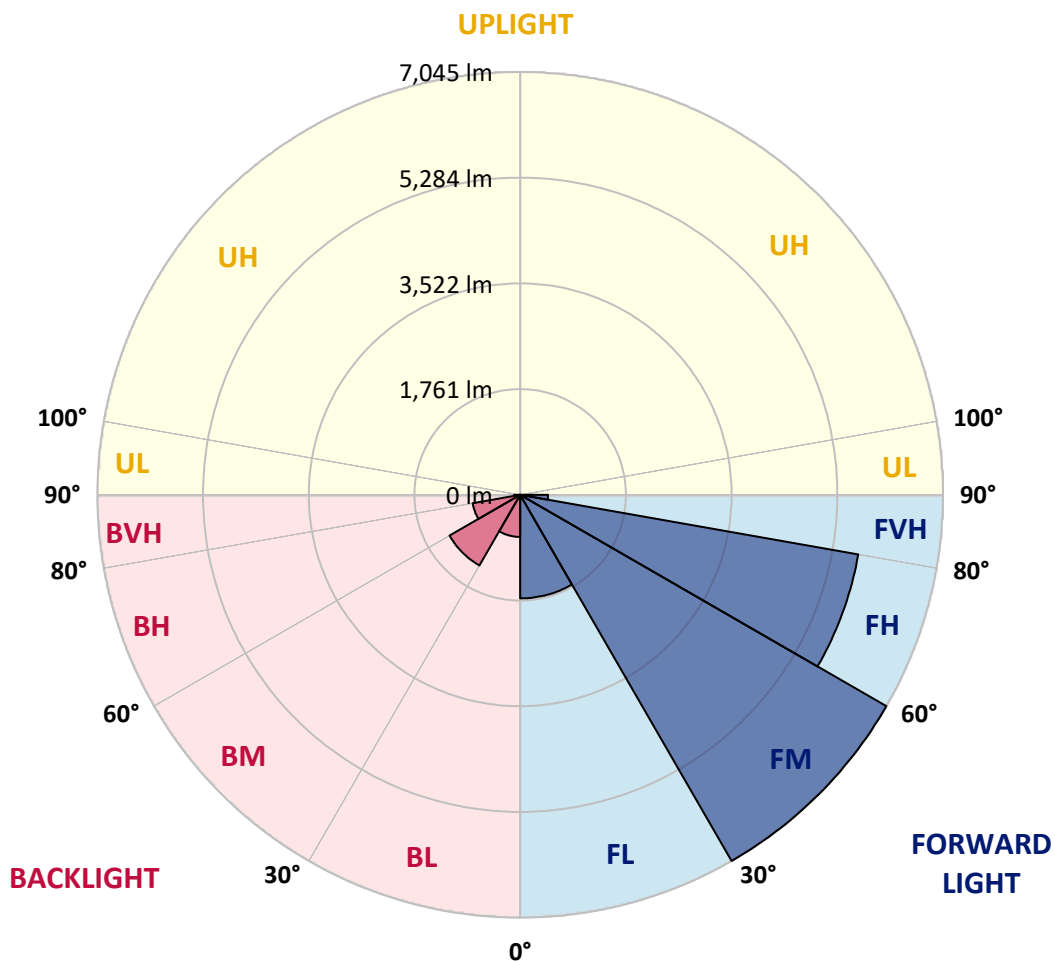
CATALOG NUMBER: GLEON-AF-03-LED-E1-SLR-1200

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1725.7	9.6			
FM (30°-60°)	7044.9	39.3			
FH (60°-80°)	5719.8	31.9			G3/7500
FVH (80°-90°)	464.9	2.6			G3/500
BL (0°-30°)	701.6	3.9	B2/1000		
BM (30°-60°)	1358.9	7.6	B2/2500		
BH (60°-80°)	804.0	4.5	B2/1000		G2/1000
BVH (80°-90°)	101.2	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°	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7
2.5°	6291.1	6163.1	5950.3	5728.6	5593.7	5436.1	5312.9	5204.6	4987.8	4945.5	4983.8
5°	5915.8	5658.7	5257.8	4853.8	4584.9	4296.2	4071.7	3891.3	3616.4	3568.2	3626.4
7.5°	5313.9	5006.5	4476.5	3961.3	3581.0	3220.5	2978.1	2785.0	2570.3	2477.7	2483.5
10°	4794.7	4447.9	3821.3	3260.9	2949.6	2706.2	2502.2	2304.3	2086.5	1943.7	1904.3
12.5°	4504.1	4105.1	3383.0	2882.6	2593.9	2337.7	2118.0	1906.3	1673.8	1528.0	1486.6
15°	4453.8	4020.4	3218.5	2640.2	2278.6	1954.6	1695.4	1459.0	1219.6	1101.4	1076.8
17.5°	4671.5	4172.1	3165.3	2424.4	1982.1	1582.1	1264.0	999.9	804.9	745.7	740.8
20°	5089.3	4463.6	3158.4	2221.5	1689.5	1220.6	880.8	688.7	602.9	586.2	587.2
22.5°	5675.4	4915.9	3243.1	2068.8	1420.6	910.3	662.1	576.3	542.8	527.0	527.0
25°	6434.0	5538.5	3438.1	1957.5	1187.1	727.0	584.2	533.0	501.5	490.6	492.6
27.5°	7168.9	6144.4	3664.7	1869.9	1034.4	660.0	553.6	507.4	479.8	468.9	473.8
30°	7742.3	6682.2	3853.9	1750.6	956.6	641.3	564.5	517.2	477.8	461.0	462.1
32.5°	8217.1	7153.2	4012.5	1664.9	887.6	549.7	486.6	466.0	461.0	441.3	431.5
35°	8824.0	7666.4	4118.9	1666.9	855.1	490.6	433.4	397.0	370.4	347.8	347.8
37.5°	9535.2	8255.5	4232.2	1689.5	843.3	456.1	414.7	378.3	353.6	331.9	328.1
40°	10238.6	8832.8	4335.7	1711.2	836.4	435.5	400.0	366.5	343.8	322.1	316.2
42.5°	10836.6	9307.6	4428.3	1722.0	812.7	433.4	389.1	358.5	337.0	313.2	307.4
45°	11279.0	9705.7	4527.7	1738.8	789.1	441.3	389.1	357.6	331.0	308.3	302.5
47.5°	11674.0	10172.6	4694.2	1738.8	760.6	426.6	401.9	358.5	330.0	306.4	301.5
50°	12203.0	10813.0	5009.5	1698.4	720.2	410.8	423.6	354.7	321.2	302.5	296.6
52.5°	12932.0	11633.6	5509.9	1628.4	658.1	380.2	420.6	352.7	312.3	292.6	285.7
55°	13794.0	12512.3	6055.7	1546.7	565.5	358.5	405.9	347.8	302.5	280.8	273.8
57.5°	14466.9	13117.2	6439.9	1420.6	484.7	346.8	359.6	342.8	290.6	267.9	262.1
60°	14734.8	13093.6	6545.4	1252.1	445.3	337.0	314.3	384.2	280.8	258.1	251.2
62.5°	14590.0	12488.7	6249.7	1133.9	436.4	324.1	294.5	355.7	272.9	251.2	241.3
65°	13921.1	11416.8	5466.5	1102.3	462.1	311.3	281.7	278.8	262.1	241.3	231.5
67.5°	12464.0	9815.0	4377.0	1105.3	494.5	298.5	268.9	255.1	247.2	230.6	221.7
70°	10152.0	7760.0	3262.8	1113.2	511.3	283.8	255.1	240.4	231.5	214.7	208.9
72.5°	7464.5	5980.8	2370.3	1062.0	514.2	267.0	236.4	223.6	214.7	197.0	192.1
75°	5107.0	4575.0	1644.2	879.7	448.3	243.4	215.7	203.9	198.0	176.4	173.4
77.5°	3730.7	3434.3	1052.1	653.2	345.8	213.8	190.2	181.3	177.3	153.6	149.8
80°	2993.9	2717.1	658.1	447.2	253.2	179.3	159.6	154.7	150.7	127.1	124.1
82.5°	2076.7	1819.5	422.6	290.6	190.2	138.9	126.1	124.1	118.3	96.6	93.6
85°	1095.5	988.1	267.9	198.0	137.9	95.5	87.7	87.7	84.7	64.0	62.1
87.5°	139.9	227.6	136.0	103.4	75.9	42.4	42.4	41.3	44.3	36.4	31.5
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°	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7
2.5°	4893.2	4940.5	4895.2	4898.1	4948.4	5098.1	5166.1	5222.3	5282.3	5321.8	5339.5
5°	3546.6	3656.8	3694.3	3773.2	3889.4	4080.4	4156.4	4211.5	4247.9	4269.6	4278.5
7.5°	2425.4	2492.4	2567.3	2694.4	2947.5	3059.9	3110.1	3097.3	3056.0	3041.1	3026.4
10°	1828.4	1801.8	1788.0	1858.0	2062.9	2176.2	2211.6	2177.1	2154.5	2159.4	2184.1
12.5°	1416.7	1370.3	1314.2	1306.3	1441.2	1542.7	1565.4	1567.4	1608.7	1645.2	1699.3
15°	1032.5	1027.6	999.9	983.2	1060.0	1142.7	1152.7	1170.4	1207.8	1234.4	1281.7
17.5°	728.0	754.6	776.3	787.2	845.3	904.4	893.5	884.6	877.8	877.8	900.4
20°	587.2	604.9	632.5	664.0	723.1	764.5	737.9	702.4	676.8	668.9	671.9
22.5°	529.1	542.8	558.5	586.2	639.3	667.9	639.3	613.8	588.1	579.3	576.3
25°	499.5	517.2	531.9	552.7	592.1	611.7	584.2	565.5	549.7	538.9	531.0
27.5°	482.7	498.5	502.5	512.3	545.7	563.5	549.7	541.9	531.9	522.1	512.3
30°	465.0	462.1	455.1	456.1	482.7	500.4	499.5	501.5	500.4	497.5	495.5
32.5°	424.6	418.7	412.8	418.7	443.3	459.1	460.0	464.0	464.0	463.0	470.9
35°	353.6	364.5	371.4	389.1	418.7	432.5	426.6	416.8	399.0	388.1	387.2
37.5°	327.0	329.1	340.8	365.5	398.0	410.8	401.9	379.3	367.4	365.5	368.5
40°	314.3	316.2	323.2	345.8	378.3	391.1	383.2	366.5	355.7	354.7	359.6
42.5°	305.4	307.4	311.3	327.0	353.6	369.4	370.4	358.5	345.8	346.8	351.7
45°	300.4	301.5	300.4	308.3	333.0	351.7	359.6	351.7	340.8	342.8	348.7
47.5°	299.5	296.6	292.6	294.5	320.2	338.9	348.7	345.8	340.8	342.8	347.8
50°	295.5	288.7	283.8	282.7	308.3	328.1	337.0	337.0	338.9	342.8	347.8
52.5°	283.8	275.9	275.9	272.9	300.4	319.2	325.1	326.1	329.1	335.9	342.8
55°	268.9	266.0	268.9	264.0	294.5	312.3	315.3	317.2	319.2	325.1	334.9
57.5°	256.1	252.2	259.1	257.2	289.6	305.4	305.4	309.3	309.3	317.2	325.1
60°	249.2	241.3	244.3	246.3	282.7	299.5	297.5	301.5	303.4	310.4	316.2
62.5°	240.4	233.4	233.4	238.4	274.9	290.6	289.6	292.6	300.4	302.5	308.3
65°	229.6	226.6	223.6	229.6	267.0	280.8	281.7	285.7	292.6	294.5	299.5
67.5°	218.7	219.7	213.8	219.7	260.0	270.9	270.9	278.8	281.7	285.7	290.6
70°	206.8	207.9	203.0	209.8	255.1	260.0	259.1	270.0	271.9	274.9	279.8
72.5°	192.1	192.1	190.2	200.0	247.2	249.2	247.2	256.1	257.2	260.0	262.1
75°	176.4	176.4	174.4	188.1	242.3	237.4	231.5	238.4	240.4	242.3	242.3
77.5°	155.7	157.6	157.6	174.4	225.6	232.5	212.8	216.8	219.7	220.7	217.7
80°	130.0	134.9	137.0	158.6	189.1	214.7	190.2	193.1	194.1	194.1	190.2
82.5°	99.5	108.3	113.2	137.0	144.8	180.2	165.5	168.5	165.5	159.6	157.6
85°	68.9	80.8	86.6	104.4	109.4	138.9	137.9	137.9	132.0	124.1	123.2
87.5°	37.4	44.3	48.3	62.1	74.9	93.6	101.5	98.5	93.6	88.7	89.6
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°	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7
2.5°	5432.1	5566.1	5779.9	5943.3	6107.9	6266.5	6437.9	6569.0	6680.3	6723.7	6855.6
5°	4368.1	4535.6	4737.6	5102.1	5360.2	5644.8	5973.9	6409.4	6576.9	6808.4	7187.7
7.5°	3088.4	3240.1	3565.3	3859.8	4225.3	4628.2	5072.5	5673.5	5893.1	6264.6	6882.2
10°	2306.2	2482.6	2743.7	2991.9	3314.1	3725.8	4236.1	4908.0	5175.0	5577.8	6289.2
12.5°	1858.0	2065.8	2342.7	2576.2	2825.4	3116.0	3611.5	4348.5	4706.1	5058.7	5777.8
15°	1427.4	1645.2	1902.3	2198.8	2473.7	2786.9	3306.2	4112.0	4523.8	4891.2	5505.0
17.5°	988.1	1174.2	1498.4	1807.8	2159.4	2560.3	3221.5	4162.3	4653.8	5077.4	5552.3
20°	700.4	806.8	1072.9	1431.4	1869.9	2373.2	3205.6	4426.3	5065.7	5549.3	5855.7
22.5°	589.1	628.5	783.2	1112.3	1618.6	2233.3	3260.9	4796.7	5621.2	6239.0	6339.4
25°	536.9	560.6	641.3	872.9	1395.0	2131.8	3447.0	5348.4	6308.8	6928.5	6910.7
27.5°	508.3	533.0	586.2	736.9	1226.5	2068.8	3633.2	6002.5	7095.0	7677.2	7456.6
30°	499.5	533.0	589.1	694.5	1106.3	1969.3	3785.9	6576.9	7699.9	8182.6	7704.9
32.5°	492.6	497.5	523.1	598.9	992.1	1853.1	3889.4	7092.0	8291.9	8663.4	8062.4
35°	398.0	422.6	464.0	536.9	925.1	1783.1	3889.4	7536.4	8875.2	9149.1	8403.3
37.5°	383.2	404.9	441.3	503.4	887.6	1748.6	3811.5	7964.9	9471.2	9699.7	8684.0
40°	375.3	393.1	427.6	477.8	871.9	1709.2	3698.3	8343.2	10053.5	10251.4	8946.1
42.5°	369.4	385.1	417.7	462.1	851.2	1665.9	3606.6	8646.6	10558.8	10722.4	9196.3
45°	366.5	383.2	418.7	469.9	809.8	1608.7	3576.0	8974.7	10974.5	11115.4	9467.2
47.5°	366.5	386.2	423.6	486.6	760.6	1549.7	3671.7	9407.2	11367.6	11436.6	9786.5
50°	363.6	385.1	437.4	469.9	688.7	1474.8	3896.2	9952.0	11793.2	11801.1	10190.3
52.5°	357.6	383.2	470.9	460.0	605.9	1376.3	4199.7	10651.4	12422.7	12470.0	10822.8
55°	350.7	380.2	462.1	437.4	537.9	1259.0	4447.9	11501.5	13307.4	13438.4	11752.8
57.5°	341.9	376.3	447.2	405.9	493.6	1108.3	4537.6	12124.2	13925.0	14254.1	12801.0
60°	334.0	373.4	403.9	387.2	466.0	981.2	4364.2	12001.1	13882.7	14592.0	13729.9
62.5°	326.1	376.3	368.5	375.3	453.2	899.5	3911.0	11014.9	13180.3	14243.3	14418.6
65°	317.2	349.7	347.8	365.5	450.2	867.0	3242.1	9536.3	11822.8	13140.8	14581.1
67.5°	305.4	323.2	333.0	352.7	460.0	838.3	2616.5	7866.4	9936.2	11488.8	13733.9
70°	292.6	307.4	318.2	337.0	454.2	825.5	2176.2	6203.5	7884.1	9416.1	12062.1
72.5°	275.9	288.7	298.5	316.2	448.3	818.7	1838.2	4995.7	5886.3	6994.5	9807.1
75°	256.1	267.9	274.9	292.6	429.5	749.7	1445.2	4227.2	4404.6	4865.7	7811.3
77.5°	233.4	242.3	248.3	267.9	380.2	623.6	1045.3	3260.9	3420.4	3532.8	5988.7
80°	206.8	215.7	218.7	237.4	315.3	487.6	681.7	2408.6	2558.4	2584.1	3911.0
82.5°	176.4	185.3	185.3	203.0	258.1	350.7	447.2	1650.1	1679.7	1766.3	2764.3
85°	141.9	148.7	148.7	157.6	200.0	262.1	307.4	828.5	819.7	935.9	2394.9
87.5°	101.5	106.4	111.3	113.2	142.8	173.4	185.3	252.2	166.5	191.1	1537.8
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°	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7	6054.7
2.5°	6955.1	7011.3	6954.1	6912.8	6734.5	6587.7	6391.6	6291.1
5°	7476.2	7619.1	7570.9	7397.5	7025.1	6606.4	6130.5	5915.8
7.5°	7413.2	7745.2	7753.0	7429.0	6880.3	6263.5	5619.3	5313.9
10°	6922.6	7347.2	7468.4	7154.1	6571.9	5882.3	5143.4	4794.7
12.5°	6374.9	6790.7	6883.2	6774.8	6288.2	5595.6	4845.9	4504.1
15°	5926.7	6112.8	6223.1	6317.7	6044.8	5481.4	4829.1	4453.8
17.5°	5653.7	5633.1	5664.6	5829.1	5875.4	5612.4	5085.3	4671.5
20°	5555.2	5239.0	5231.2	5457.7	5795.6	5924.6	5585.8	5089.3
22.5°	5609.5	5097.2	5032.1	5301.0	5838.0	6374.9	6241.8	5675.4
25°	5796.6	5108.9	5056.8	5316.8	5991.6	6854.7	6950.2	6434.0
27.5°	6091.2	5183.8	5114.9	5381.8	6195.6	7257.5	7647.7	7168.9
30°	6370.9	5313.9	5228.2	5509.9	6381.8	7417.2	8075.3	7742.3
32.5°	6710.8	5557.2	5406.5	5745.4	6612.3	7671.3	8456.5	8217.1
35°	7043.8	5904.0	5716.8	6108.9	6869.4	7987.6	8891.9	8824.0
37.5°	7409.2	6357.1	6202.5	6578.8	7221.1	8286.1	9447.6	9535.2
40°	7799.4	6958.1	6774.8	7264.5	7766.9	8660.4	10027.8	10238.6
42.5°	8192.5	7625.1	7406.4	7902.8	8366.8	9029.9	10524.3	10836.6
45°	8642.7	8349.1	8245.7	8782.5	8943.1	9381.6	10890.7	11279.0
47.5°	9166.8	9170.8	9337.2	9552.0	9524.4	9779.5	11259.2	11674.0
50°	9778.6	10196.3	10563.7	10706.6	10123.3	10207.1	11770.5	12203.0
52.5°	10513.5	11422.8	11877.9	11784.3	10768.6	10729.2	12580.4	12932.0
55°	11432.6	12721.2	13173.4	13106.4	11510.4	11440.5	13589.1	13794.0
57.5°	12496.6	13979.2	14395.0	14093.5	12401.0	12220.7	14423.5	14466.9
60°	13431.4	14976.2	15340.7	15006.7	13299.5	13051.2	14944.7	14734.8
62.5°	13951.6	15314.1	15570.2	15210.7	13915.2	13935.9	15059.0	14590.0
65°	13719.1	14459.9	14542.7	14513.1	13756.5	14449.2	14648.1	13921.1
67.5°	12446.3	12300.6	12439.4	12631.5	12397.0	13773.3	13510.3	12464.0
70°	10204.1	9403.2	9680.1	9809.1	9915.5	11852.3	11726.2	10152.0
72.5°	7690.0	6587.7	6806.4	6779.8	7272.4	9506.7	9119.5	7464.5
75°	5448.8	4466.6	4494.2	4483.4	5074.4	7437.9	6603.5	5107.0
77.5°	3812.5	3236.2	3250.9	3312.1	3411.5	5609.5	4717.8	3730.7
80°	2621.5	2456.0	2537.7	2542.6	2364.3	3768.1	3485.4	2993.9
82.5°	1952.6	1707.3	1687.6	1716.1	1853.1	3053.0	2678.6	2076.7
85°	1598.9	1010.8	812.7	1018.7	1642.2	3023.4	1779.2	1095.5
87.5°	900.4	479.8	216.8	401.9	655.1	2001.8	514.2	139.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)