

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: P193859

Luminaire Tested: **GLEON-AF-01-LED-E1-SLR-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193859  
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-01-LED-E1-SLR-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3612 lumens  
Efficiency: N/A  
Efficacy: 82.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 44  
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

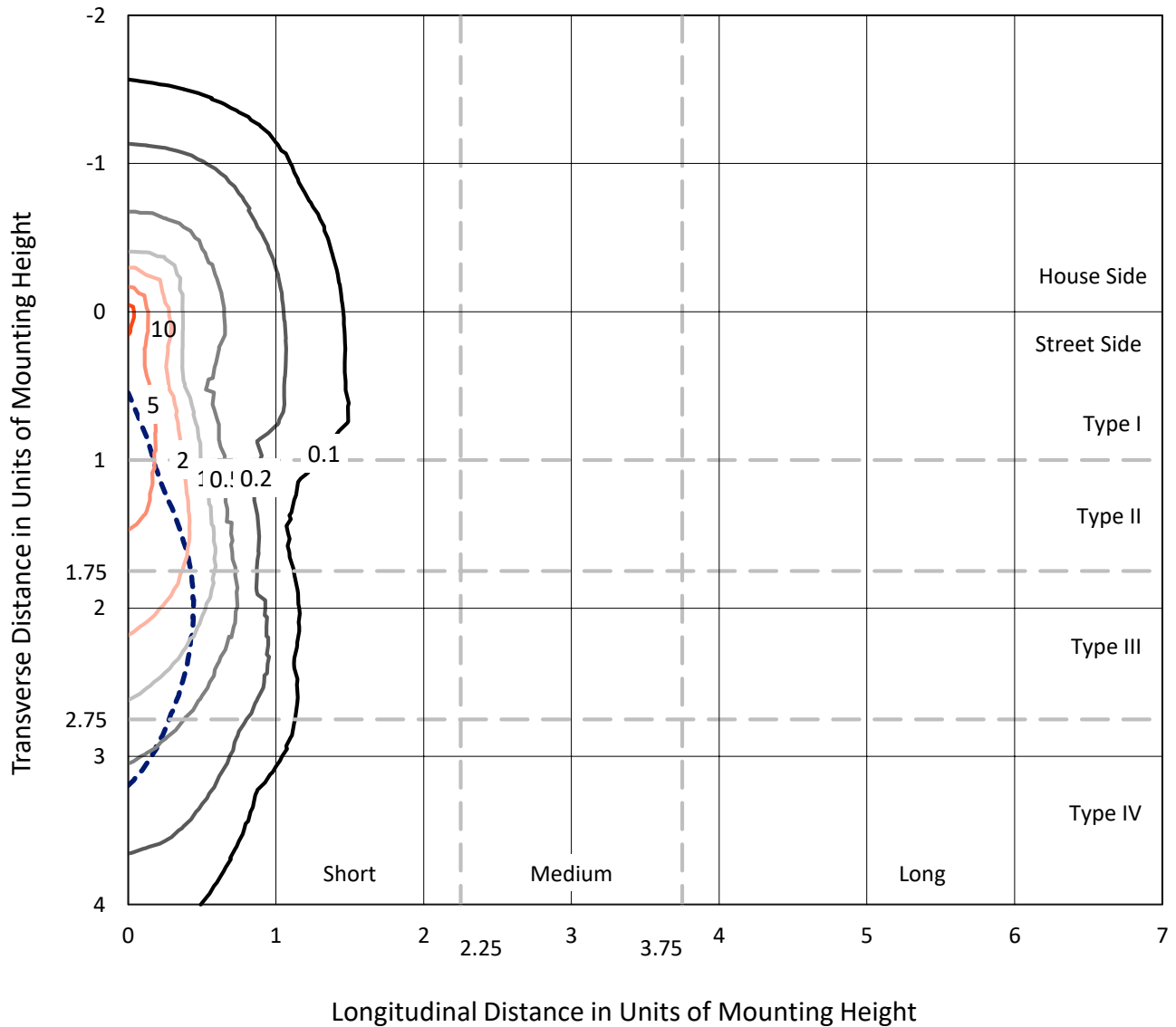


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### Iso-Footcandle Lines of Horizontal Illumination

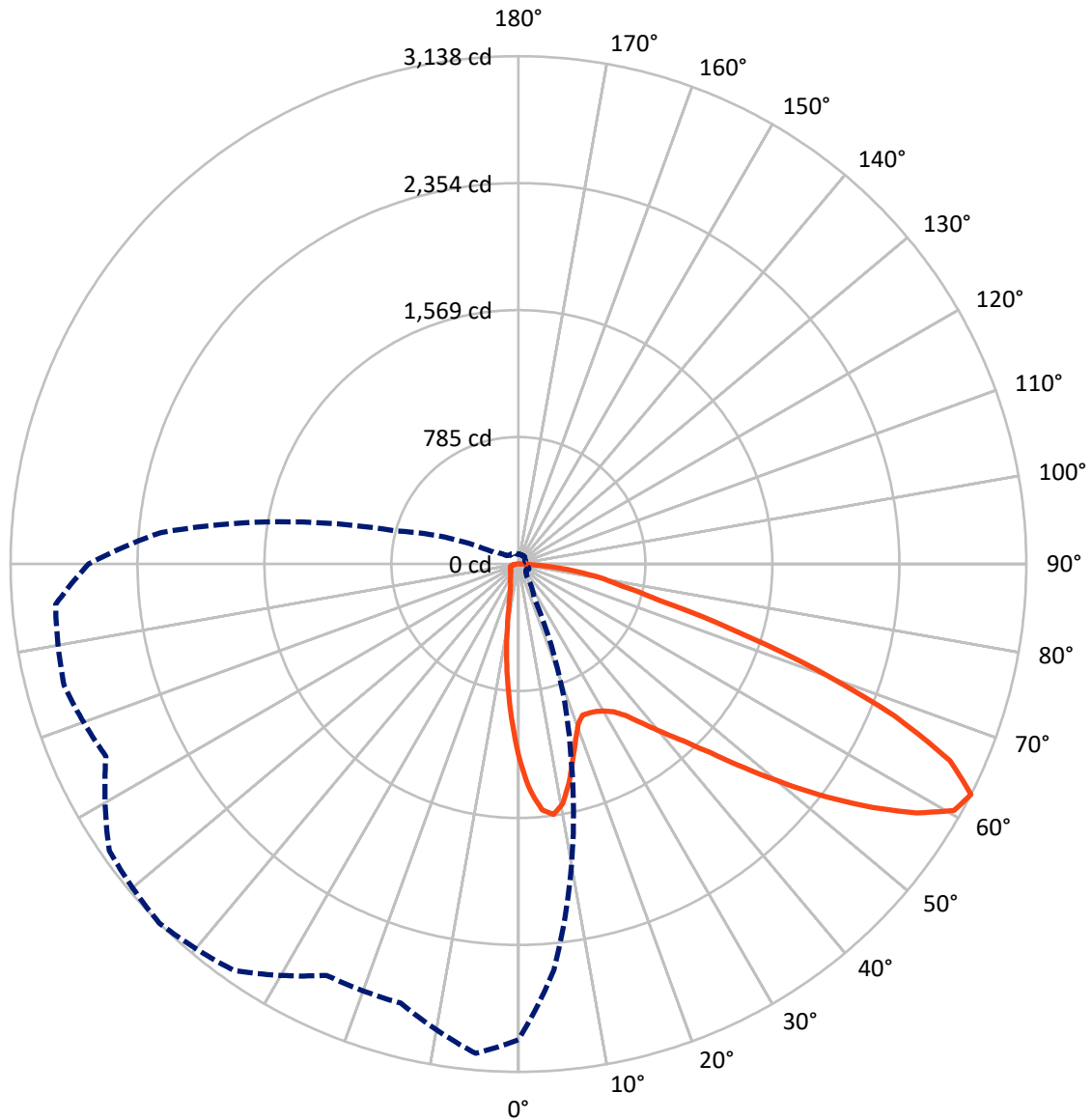
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.2 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	597.7	0.0	597.7
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	3014.3	0.0	3014.3
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	3612.0	0.0	3612.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.8	2.5
10°-20°	162.9	4.5
20°-30°	237.5	6.6
30°-40°	365.8	10.1
40°-50°	538.4	14.9
50°-60°	789.6	21.9
60°-70°	882.7	24.4
70°-80°	432.2	12.0
80°-90°	114.1	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°	3612.0	100.0
0°-180°	3612.0	100.0



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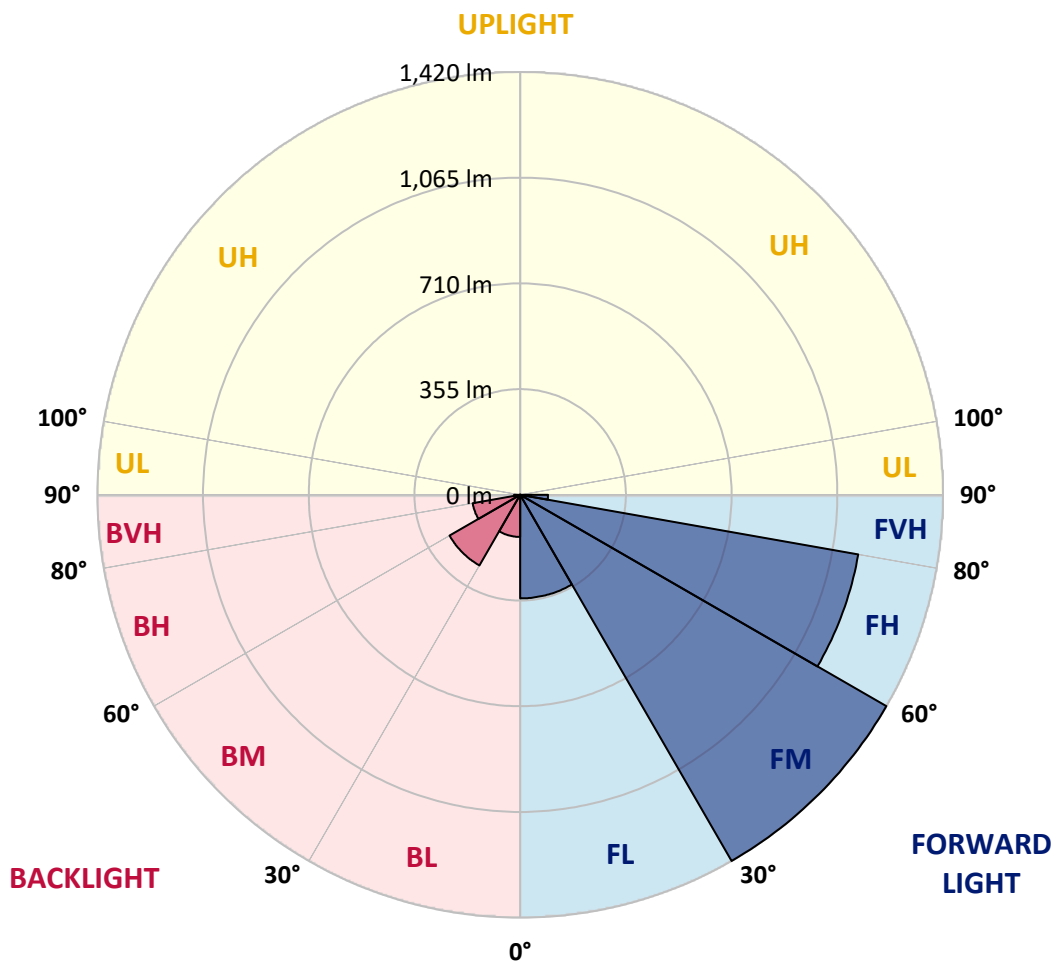
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	347.8	9.6			
FM (30°-60°)	1419.9	39.3			
FH (60°-80°)	1152.8	31.9			G1/1800
FVH (80°-90°)	93.7	2.6			G1/100
BL (0°-30°)	141.4	3.9	B1/500		
BM (30°-60°)	273.9	7.6	B1/1000		
BH (60°-80°)	162.0	4.5	B1/500		G1/500
BVH (80°-90°)	20.4	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3
2.5°	1268.0	1242.2	1199.3	1154.6	1127.4	1095.6	1070.8	1049.0	1005.3	996.8	1004.5
5°	1192.3	1140.5	1059.7	978.3	924.1	865.9	820.6	784.3	728.9	719.2	730.9
7.5°	1071.0	1009.1	902.2	798.4	721.8	649.1	600.2	561.3	518.0	499.4	500.6
10°	966.4	896.5	770.2	657.2	594.5	545.4	504.3	464.4	420.5	391.8	383.8
12.5°	907.8	827.4	681.8	581.0	522.8	471.2	426.9	384.2	337.3	308.0	299.6
15°	897.7	810.3	648.7	532.1	459.3	393.9	341.7	294.1	245.8	222.0	217.0
17.5°	941.6	840.9	638.0	488.6	399.5	318.9	254.7	201.5	162.2	150.3	149.3
20°	1025.7	899.7	636.6	447.7	340.5	246.0	177.5	138.8	121.5	118.1	118.3
22.5°	1143.9	990.8	653.6	417.0	286.3	183.5	133.4	116.2	109.4	106.2	106.2
25°	1296.8	1116.3	693.0	394.5	239.3	146.5	117.7	107.4	101.1	98.9	99.3
27.5°	1444.9	1238.4	738.6	376.9	208.5	133.0	111.6	102.3	96.7	94.5	95.5
30°	1560.5	1346.8	776.8	352.8	192.8	129.3	113.8	104.2	96.3	92.9	93.1
32.5°	1656.2	1441.7	808.7	335.6	178.9	110.8	98.1	93.9	92.9	89.0	87.0
35°	1778.5	1545.2	830.2	336.0	172.3	98.9	87.4	80.0	74.7	70.1	70.1
37.5°	1921.8	1663.9	853.0	340.5	170.0	91.9	83.6	76.2	71.3	66.9	66.1
40°	2063.6	1780.3	873.8	344.9	168.6	87.8	80.6	73.9	69.3	64.9	63.7
42.5°	2184.1	1876.0	892.5	347.1	163.8	87.4	78.4	72.3	67.9	63.1	61.9
45°	2273.3	1956.2	912.6	350.5	159.0	89.0	78.4	72.1	66.7	62.1	61.0
47.5°	2352.9	2050.3	946.1	350.5	153.3	86.0	81.0	72.3	66.5	61.8	60.8
50°	2459.5	2179.4	1009.7	342.3	145.1	82.8	85.4	71.5	64.7	61.0	59.8
52.5°	2606.5	2344.8	1110.5	328.2	132.6	76.6	84.8	71.1	62.9	59.0	57.6
55°	2780.2	2521.9	1220.5	311.7	114.0	72.3	81.8	70.1	61.0	56.6	55.2
57.5°	2915.8	2643.8	1298.0	286.3	97.7	69.9	72.5	69.1	58.6	54.0	52.8
60°	2969.8	2639.0	1319.2	252.4	89.7	67.9	63.3	77.4	56.6	52.0	50.6
62.5°	2940.6	2517.1	1259.6	228.5	88.0	65.3	59.4	71.7	55.0	50.6	48.6
65°	2805.8	2301.1	1101.8	222.2	93.1	62.7	56.8	56.2	52.8	48.6	46.7
67.5°	2512.1	1978.2	882.2	222.8	99.7	60.2	54.2	51.4	49.8	46.5	44.7
70°	2046.1	1564.0	657.6	224.4	103.1	57.2	51.4	48.4	46.7	43.3	42.1
72.5°	1504.5	1205.4	477.7	214.0	103.6	53.8	47.7	45.1	43.3	39.7	38.7
75°	1029.3	922.1	331.4	177.3	90.3	49.0	43.5	41.1	39.9	35.5	34.9
77.5°	751.9	692.2	212.1	131.6	69.7	43.1	38.3	36.5	35.7	31.0	30.2
80°	603.4	547.6	132.6	90.1	51.0	36.1	32.2	31.2	30.4	25.6	25.0
82.5°	418.6	366.7	85.2	58.6	38.3	28.0	25.4	25.0	23.8	19.5	18.9
85°	220.8	199.2	54.0	39.9	27.8	19.3	17.7	17.7	17.1	12.9	12.5
87.5°	28.2	45.9	27.4	20.8	15.3	8.5	8.5	8.3	8.9	7.3	6.4
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°	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3
2.5°	986.2	995.8	986.6	987.2	997.3	1027.5	1041.2	1052.5	1064.7	1072.6	1076.2
5°	714.8	737.0	744.6	760.5	783.9	822.4	837.7	848.8	856.2	860.5	862.3
7.5°	488.8	502.3	517.4	543.1	594.1	616.7	626.8	624.3	615.9	612.9	610.0
10°	368.5	363.2	360.4	374.5	415.8	438.6	445.8	438.8	434.2	435.2	440.2
12.5°	285.5	276.2	264.9	263.3	290.5	310.9	315.5	315.9	324.2	331.6	342.5
15°	208.1	207.1	201.5	198.2	213.6	230.3	232.3	235.9	243.4	248.8	258.3
17.5°	146.7	152.1	156.5	158.6	170.4	182.3	180.1	178.3	176.9	176.9	181.5
20°	118.3	121.9	127.5	133.8	145.7	154.1	148.7	141.6	136.4	134.8	135.4
22.5°	106.6	109.4	112.6	118.1	128.9	134.6	128.9	123.7	118.5	116.8	116.2
25°	100.7	104.2	107.2	111.4	119.3	123.3	117.7	114.0	110.8	108.6	107.0
27.5°	97.3	100.5	101.3	103.2	110.0	113.6	110.8	109.2	107.2	105.2	103.2
30°	93.7	93.1	91.7	91.9	97.3	100.9	100.7	101.1	100.9	100.3	99.9
32.5°	85.6	84.4	83.2	84.4	89.4	92.5	92.7	93.5	93.5	93.3	94.9
35°	71.3	73.5	74.9	78.4	84.4	87.2	86.0	84.0	80.4	78.2	78.0
37.5°	65.9	66.3	68.7	73.7	80.2	82.8	81.0	76.4	74.1	73.7	74.3
40°	63.3	63.7	65.1	69.7	76.2	78.8	77.2	73.9	71.7	71.5	72.5
42.5°	61.6	61.9	62.7	65.9	71.3	74.5	74.7	72.3	69.7	69.9	70.9
45°	60.6	60.8	60.6	62.1	67.1	70.9	72.5	70.9	68.7	69.1	70.3
47.5°	60.4	59.8	59.0	59.4	64.5	68.3	70.3	69.7	68.7	69.1	70.1
50°	59.6	58.2	57.2	57.0	62.1	66.1	67.9	67.9	68.3	69.1	70.1
52.5°	57.2	55.6	55.6	55.0	60.6	64.3	65.5	65.7	66.3	67.7	69.1
55°	54.2	53.6	54.2	53.2	59.4	62.9	63.5	63.9	64.3	65.5	67.5
57.5°	51.6	50.8	52.2	51.8	58.4	61.6	61.6	62.3	62.3	63.9	65.5
60°	50.2	48.6	49.2	49.6	57.0	60.4	60.0	60.8	61.2	62.5	63.7
62.5°	48.4	47.1	47.1	48.1	55.4	58.6	58.4	59.0	60.6	61.0	62.1
65°	46.3	45.7	45.1	46.3	53.8	56.6	56.8	57.6	59.0	59.4	60.4
67.5°	44.1	44.3	43.1	44.3	52.4	54.6	54.6	56.2	56.8	57.6	58.6
70°	41.7	41.9	40.9	42.3	51.4	52.4	52.2	54.4	54.8	55.4	56.4
72.5°	38.7	38.7	38.3	40.3	49.8	50.2	49.8	51.6	51.8	52.4	52.8
75°	35.5	35.5	35.1	37.9	48.8	47.9	46.7	48.1	48.4	48.8	48.8
77.5°	31.4	31.8	31.8	35.1	45.5	46.9	42.9	43.7	44.3	44.5	43.9
80°	26.2	27.2	27.6	32.0	38.1	43.3	38.3	38.9	39.1	39.1	38.3
82.5°	20.1	21.8	22.8	27.6	29.2	36.3	33.4	34.0	33.4	32.2	31.8
85°	13.9	16.3	17.5	21.0	22.0	28.0	27.8	27.8	26.6	25.0	24.8
87.5°	7.5	8.9	9.7	12.5	15.1	18.9	20.5	19.9	18.9	17.9	18.1
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):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3
2.5°	1094.8	1121.8	1164.9	1197.9	1231.1	1263.0	1297.6	1324.0	1346.4	1355.1	1381.8
5°	880.4	914.2	954.9	1028.3	1080.3	1137.7	1204.0	1291.8	1325.6	1372.2	1448.7
7.5°	622.5	653.1	718.6	777.9	851.6	932.8	1022.4	1143.5	1187.8	1262.6	1387.1
10°	464.8	500.4	553.0	603.0	667.9	750.9	853.8	989.2	1043.0	1124.2	1267.6
12.5°	374.5	416.4	472.2	519.2	569.5	628.0	727.9	876.4	948.5	1019.6	1164.5
15°	287.7	331.6	383.4	443.2	498.6	561.7	666.4	828.8	911.8	985.8	1109.5
17.5°	199.2	236.7	302.0	364.4	435.2	516.0	649.3	838.9	938.0	1023.4	1119.1
20°	141.2	162.6	216.2	288.5	376.9	478.3	646.1	892.1	1021.0	1118.5	1180.2
22.5°	118.7	126.7	157.9	224.2	326.2	450.1	657.2	966.8	1133.0	1257.5	1277.7
25°	108.2	113.0	129.3	175.9	281.2	429.7	694.7	1078.0	1271.6	1396.4	1392.9
27.5°	102.5	107.4	118.1	148.5	247.2	417.0	732.3	1209.8	1430.0	1547.4	1502.9
30°	100.7	107.4	118.7	140.0	223.0	396.9	763.1	1325.6	1551.9	1649.2	1552.9
32.5°	99.3	100.3	105.4	120.7	199.9	373.5	783.9	1429.4	1671.2	1746.1	1625.0
35°	80.2	85.2	93.5	108.2	186.4	359.4	783.9	1519.0	1788.8	1844.0	1693.7
37.5°	77.2	81.6	89.0	101.5	178.9	352.4	768.2	1605.3	1908.9	1955.0	1750.3
40°	75.7	79.2	86.2	96.3	175.7	344.5	745.4	1681.6	2026.3	2066.2	1803.1
42.5°	74.5	77.6	84.2	93.1	171.6	335.8	726.9	1742.7	2128.1	2161.1	1853.5
45°	73.9	77.2	84.4	94.7	163.2	324.2	720.8	1808.8	2211.9	2240.3	1908.1
47.5°	73.9	77.8	85.4	98.1	153.3	312.3	740.0	1896.0	2291.1	2305.0	1972.5
50°	73.3	77.6	88.2	94.7	138.8	297.2	785.3	2005.8	2376.9	2378.5	2053.9
52.5°	72.1	77.2	94.9	92.7	122.1	277.4	846.4	2146.8	2503.8	2513.3	2181.3
55°	70.7	76.6	93.1	88.2	108.4	253.8	896.5	2318.1	2682.1	2708.5	2368.8
57.5°	68.9	75.8	90.1	81.8	99.5	223.4	914.6	2443.6	2806.6	2872.9	2580.0
60°	67.3	75.3	81.4	78.0	93.9	197.8	879.6	2418.8	2798.1	2941.0	2767.3
62.5°	65.7	75.8	74.3	75.7	91.3	181.3	788.3	2220.1	2656.5	2870.7	2906.1
65°	63.9	70.5	70.1	73.7	90.7	174.7	653.4	1922.0	2382.9	2648.5	2938.8
67.5°	61.6	65.1	67.1	71.1	92.7	169.0	527.4	1585.5	2002.6	2315.6	2768.1
70°	59.0	61.9	64.1	67.9	91.5	166.4	438.6	1250.3	1589.0	1897.8	2431.1
72.5°	55.6	58.2	60.2	63.7	90.3	165.0	370.5	1006.9	1186.4	1409.8	1976.6
75°	51.6	54.0	55.4	59.0	86.6	151.1	291.3	852.0	887.7	980.7	1574.4
77.5°	47.1	48.8	50.0	54.0	76.6	125.7	210.7	657.2	689.4	712.0	1207.0
80°	41.7	43.5	44.1	47.9	63.5	98.3	137.4	485.5	515.7	520.8	788.3
82.5°	35.5	37.3	37.3	40.9	52.0	70.7	90.1	332.6	338.5	356.0	557.1
85°	28.6	30.0	30.0	31.8	40.3	52.8	61.9	167.0	165.2	188.6	482.7
87.5°	20.5	21.4	22.4	22.8	28.8	34.9	37.3	50.8	33.6	38.5	309.9
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°	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3
2.5°	1401.8	1413.1	1401.6	1393.3	1357.3	1327.7	1288.2	1268.0
5°	1506.8	1535.6	1525.9	1491.0	1415.9	1331.5	1235.6	1192.3
7.5°	1494.1	1561.1	1562.6	1497.3	1386.7	1262.4	1132.6	1071.0
10°	1395.3	1480.8	1505.3	1441.9	1324.6	1185.6	1036.7	966.4
12.5°	1284.9	1368.6	1387.3	1365.5	1267.4	1127.8	976.7	907.8
15°	1194.5	1232.0	1254.3	1273.3	1218.3	1104.8	973.3	897.7
17.5°	1139.5	1135.3	1141.7	1174.9	1184.2	1131.2	1024.9	941.6
20°	1119.7	1055.9	1054.3	1100.0	1168.1	1194.1	1125.8	1025.7
22.5°	1130.6	1027.3	1014.2	1068.4	1176.6	1284.9	1258.1	1143.9
25°	1168.3	1029.7	1019.2	1071.6	1207.6	1381.6	1400.8	1296.8
27.5°	1227.7	1044.8	1030.9	1084.7	1248.7	1462.8	1541.4	1444.9
30°	1284.1	1071.0	1053.7	1110.5	1286.2	1494.9	1627.6	1560.5
32.5°	1352.6	1120.1	1089.7	1158.0	1332.7	1546.2	1704.4	1656.2
35°	1419.7	1189.9	1152.2	1231.2	1384.5	1609.9	1792.2	1778.5
37.5°	1493.3	1281.3	1250.1	1326.0	1455.4	1670.1	1904.2	1921.8
40°	1572.0	1402.4	1365.5	1464.2	1565.4	1745.5	2021.1	2063.6
42.5°	1651.2	1536.8	1492.7	1592.8	1686.3	1820.0	2121.2	2184.1
45°	1741.9	1682.8	1661.9	1770.1	1802.5	1890.9	2195.0	2273.3
47.5°	1847.6	1848.4	1881.9	1925.2	1919.6	1971.1	2269.3	2352.9
50°	1970.9	2055.1	2129.1	2157.9	2040.4	2057.2	2372.4	2459.5
52.5°	2119.0	2302.3	2394.0	2375.1	2170.4	2162.5	2535.6	2606.5
55°	2304.2	2564.0	2655.1	2641.6	2319.9	2305.8	2738.9	2780.2
57.5°	2518.7	2817.5	2901.3	2840.5	2499.4	2463.1	2907.1	2915.8
60°	2707.1	3018.5	3091.9	3024.6	2680.5	2630.5	3012.1	2969.8
62.5°	2812.0	3086.6	3138.2	3065.7	2804.6	2808.8	3035.1	2940.6
65°	2765.1	2914.4	2931.1	2925.1	2772.6	2912.2	2952.3	2805.8
67.5°	2508.6	2479.2	2507.2	2545.9	2498.6	2776.0	2723.0	2512.1
70°	2056.6	1895.2	1951.0	1977.0	1998.5	2388.8	2363.4	2046.1
72.5°	1549.9	1327.7	1371.8	1366.5	1465.7	1916.1	1838.0	1504.5
75°	1098.2	900.3	905.8	903.6	1022.8	1499.1	1330.9	1029.3
77.5°	768.4	652.3	655.2	667.5	687.6	1130.6	950.9	751.9
80°	528.4	495.0	511.5	512.5	476.5	759.5	702.5	603.4
82.5°	393.5	344.1	340.1	345.9	373.5	615.3	539.9	418.6
85°	322.3	203.7	163.8	205.3	331.0	609.4	358.6	220.8
87.5°	181.5	96.7	43.7	81.0	132.0	403.5	103.6	28.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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