

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: P193869

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193869
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA 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: 4470 lumens
Efficiency: N/A
Efficacy: 75.8 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 - G2

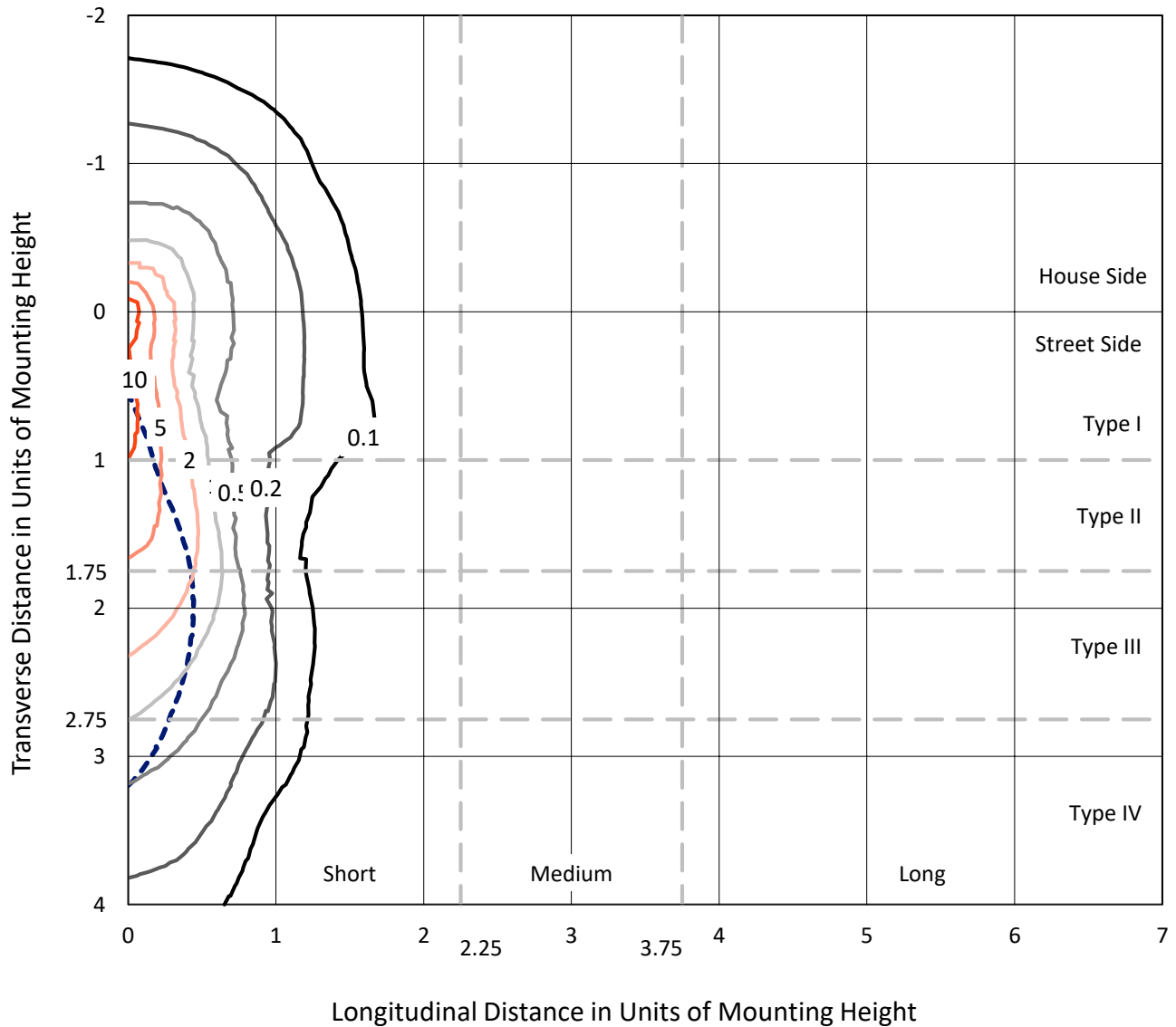
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

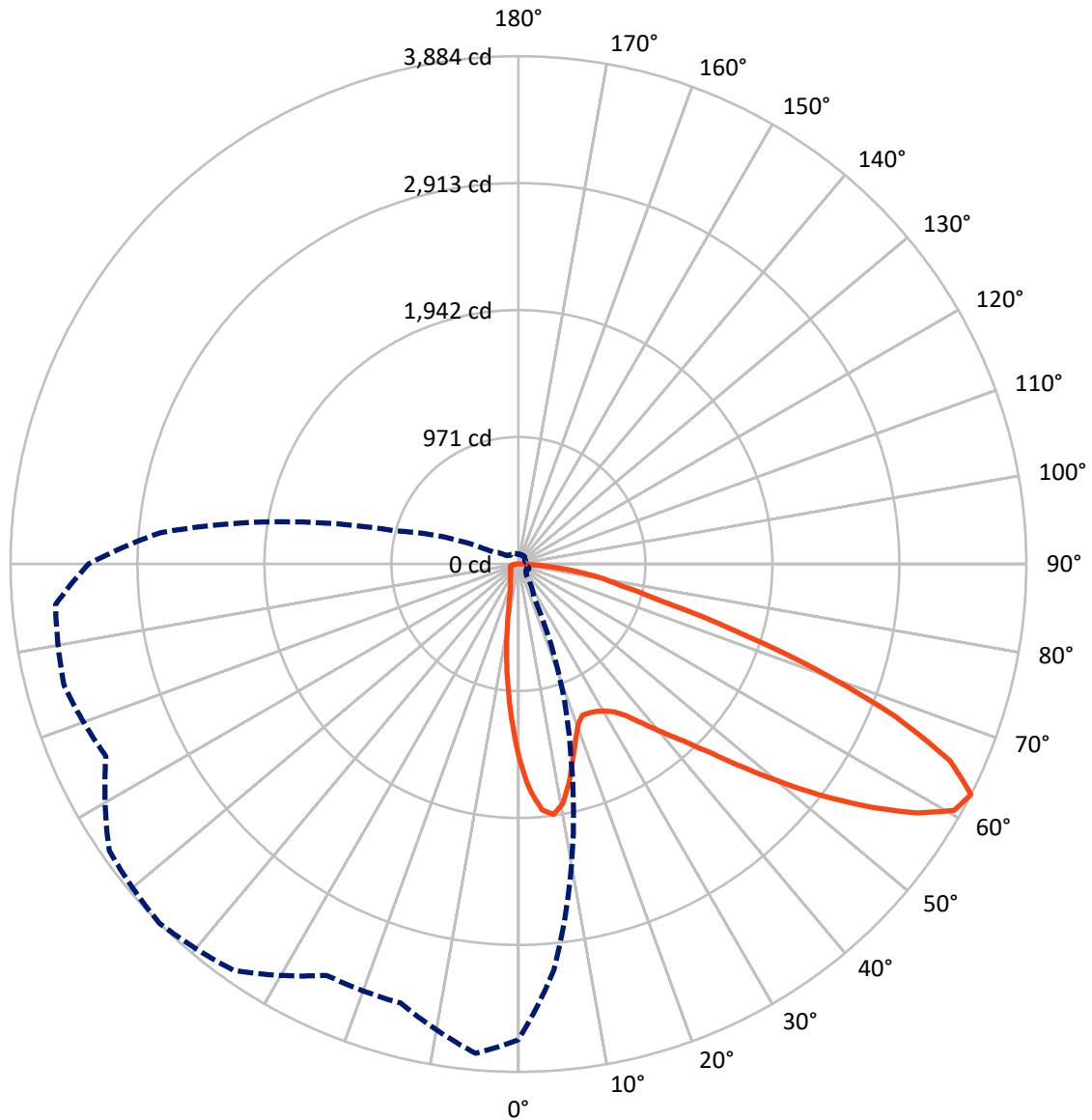
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.1 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
House Side	Lumens	739.7	0.0	739.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	3730.3	0.0	3730.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	4470.0	0.0	4470.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.9	2.5
10°-20°	201.6	4.5
20°-30°	293.9	6.6
30°-40°	452.7	10.1
40°-50°	666.2	14.9
50°-60°	977.2	21.9
60°-70°	1092.4	24.4
70°-80°	534.8	12.0
80°-90°	141.2	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°	4470.0	100.0
0°-180°	4470.0	100.0



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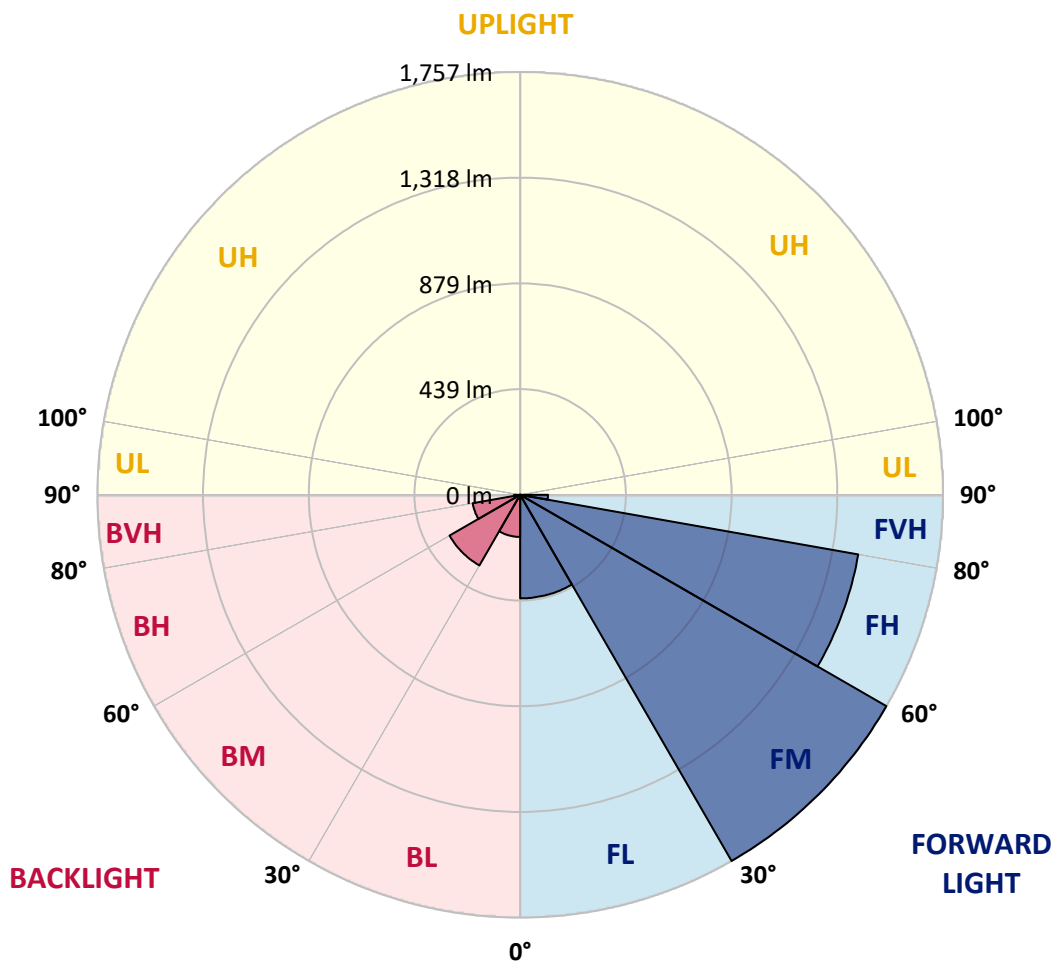
CATALOG NUMBER: GLEON-AF-01-LED-E1-SLR-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	430.4	9.6			
FM	(30°-60°)	1757.2	39.3			
FH	(60°-80°)	1426.7	31.9			G1/1800
FVH	(80°-90°)	116.0	2.6			G2/225
BL	(0°-30°)	175.0	3.9	B1/500		
BM	(30°-60°)	338.9	7.6	B1/1000		
BH	(60°-80°)	200.5	4.5	B1/500		G1/500
BVH	(80°-90°)	25.2	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2
2.5°	1569.2	1537.2	1484.2	1428.9	1395.2	1355.9	1325.2	1298.1	1244.1	1233.5	1243.1
5°	1475.6	1411.4	1311.4	1210.7	1143.6	1071.6	1015.6	970.6	902.0	890.0	904.5
7.5°	1325.4	1248.8	1116.6	988.0	893.2	803.3	742.8	694.7	641.1	618.0	619.5
10°	1195.9	1109.4	953.2	813.3	735.7	675.0	624.1	574.7	520.4	484.8	475.0
12.5°	1123.4	1023.9	843.8	719.0	647.0	583.1	528.3	475.5	417.5	381.1	370.8
15°	1110.9	1002.8	802.8	658.5	568.4	487.5	422.9	363.9	304.2	274.7	268.6
17.5°	1165.2	1040.6	789.5	604.7	494.4	394.6	315.3	249.4	200.8	186.0	184.8
20°	1269.4	1113.4	787.8	554.1	421.4	304.4	219.7	171.8	150.4	146.2	146.5
22.5°	1415.6	1226.2	808.9	516.0	354.3	227.0	165.1	143.7	135.4	131.5	131.5
25°	1604.8	1381.4	857.6	488.2	296.1	181.3	145.7	132.9	125.1	122.4	122.9
27.5°	1788.1	1532.6	914.1	466.4	258.0	164.6	138.1	126.5	119.7	117.0	118.2
30°	1931.1	1666.7	961.3	436.6	238.6	160.0	140.8	129.0	119.2	115.0	115.2
32.5°	2049.6	1784.2	1000.8	415.3	221.4	137.1	121.4	116.2	115.0	110.1	107.6
35°	2200.9	1912.2	1027.4	415.8	213.3	122.4	108.1	99.0	92.4	86.7	86.7
37.5°	2378.3	2059.1	1055.6	421.4	210.3	113.8	103.4	94.4	88.2	82.8	81.8
40°	2553.8	2203.1	1081.4	426.8	208.6	108.6	99.8	91.4	85.8	80.4	78.9
42.5°	2702.9	2321.6	1104.5	429.5	202.7	108.1	97.1	89.4	84.0	78.1	76.7
45°	2813.3	2420.9	1129.3	433.7	196.8	110.1	97.1	89.2	82.6	76.9	75.4
47.5°	2911.8	2537.3	1170.9	433.7	189.7	106.4	100.3	89.4	82.3	76.4	75.2
50°	3043.8	2697.0	1249.5	423.6	179.6	102.5	105.7	88.5	80.1	75.4	74.0
52.5°	3225.6	2901.7	1374.3	406.2	164.1	94.8	104.9	88.0	77.9	73.0	71.3
55°	3440.6	3120.9	1510.5	385.8	141.0	89.4	101.2	86.7	75.4	70.0	68.3
57.5°	3608.4	3271.8	1606.3	354.3	120.9	86.5	89.7	85.5	72.5	66.8	65.4
60°	3675.3	3265.9	1632.6	312.3	111.1	84.0	78.4	95.8	70.0	64.4	62.7
62.5°	3639.1	3115.0	1558.9	282.8	108.9	80.8	73.5	88.7	68.1	62.7	60.2
65°	3472.3	2847.7	1363.5	275.0	115.2	77.6	70.3	69.5	65.4	60.2	57.7
67.5°	3108.9	2448.1	1091.7	275.7	123.4	74.5	67.1	63.6	61.7	57.5	55.3
70°	2532.2	1935.6	813.8	277.7	127.5	70.8	63.6	60.0	57.7	53.6	52.1
72.5°	1861.8	1491.8	591.2	264.9	128.3	66.6	59.0	55.8	53.6	49.1	47.9
75°	1273.8	1141.1	410.1	219.4	111.8	60.7	53.8	50.9	49.4	44.0	43.2
77.5°	930.5	856.6	262.4	162.9	86.2	53.3	47.4	45.2	44.2	38.3	37.3
80°	746.7	677.7	164.1	111.6	63.2	44.7	39.8	38.6	37.6	31.7	31.0
82.5°	518.0	453.8	105.4	72.5	47.4	34.6	31.5	31.0	29.5	24.1	23.3
85°	273.2	246.5	66.8	49.4	34.4	23.8	21.9	21.9	21.1	16.0	15.5
87.5°	34.9	56.8	33.9	25.8	18.9	10.6	10.6	10.3	11.1	9.1	7.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2
2.5°	1220.5	1232.3	1221.0	1221.7	1234.3	1271.6	1288.6	1302.6	1317.6	1327.4	1331.8
5°	884.6	912.1	921.5	941.1	970.1	1017.8	1036.7	1050.5	1059.6	1065.0	1067.2
7.5°	605.0	621.7	640.4	672.0	735.2	763.2	775.7	772.5	762.2	758.5	754.9
10°	456.1	449.4	446.0	463.4	514.5	542.8	551.6	543.0	537.4	538.6	544.8
12.5°	353.3	341.8	327.8	325.8	359.5	384.8	390.5	390.9	401.3	410.4	423.9
15°	257.5	256.3	249.4	245.2	264.4	285.0	287.5	291.9	301.3	307.9	319.7
17.5°	181.6	188.2	193.6	196.3	210.8	225.6	222.9	220.7	218.9	218.9	224.6
20°	146.5	150.9	157.8	165.6	180.4	190.7	184.0	175.2	168.8	166.8	167.6
22.5°	132.0	135.4	139.3	146.2	159.5	166.6	159.5	153.1	146.7	144.5	143.7
25°	124.6	129.0	132.7	137.8	147.7	152.6	145.7	141.0	137.1	134.4	132.4
27.5°	120.4	124.3	125.3	127.8	136.1	140.6	137.1	135.1	132.7	130.2	127.8
30°	116.0	115.2	113.5	113.8	120.4	124.8	124.6	125.1	124.8	124.1	123.6
32.5°	105.9	104.4	103.0	104.4	110.6	114.5	114.8	115.7	115.7	115.5	117.5
35°	88.2	90.9	92.6	97.1	104.4	107.9	106.4	103.9	99.5	96.8	96.6
37.5°	81.6	82.1	85.0	91.2	99.3	102.5	100.3	94.6	91.7	91.2	91.9
40°	78.4	78.9	80.6	86.2	94.4	97.6	95.6	91.4	88.7	88.5	89.7
42.5°	76.2	76.7	77.6	81.6	88.2	92.1	92.4	89.4	86.2	86.5	87.7
45°	74.9	75.2	74.9	76.9	83.1	87.7	89.7	87.7	85.0	85.5	87.0
47.5°	74.7	74.0	73.0	73.5	79.9	84.5	87.0	86.2	85.0	85.5	86.7
50°	73.7	72.0	70.8	70.5	76.9	81.8	84.0	84.0	84.5	85.5	86.7
52.5°	70.8	68.8	68.8	68.1	74.9	79.6	81.1	81.3	82.1	83.8	85.5
55°	67.1	66.3	67.1	65.9	73.5	77.9	78.6	79.1	79.6	81.1	83.5
57.5°	63.9	62.9	64.6	64.1	72.2	76.2	76.2	77.2	77.2	79.1	81.1
60°	62.2	60.2	60.9	61.4	70.5	74.7	74.2	75.2	75.7	77.4	78.9
62.5°	60.0	58.2	58.2	59.5	68.6	72.5	72.2	73.0	74.9	75.4	76.9
65°	57.3	56.5	55.8	57.3	66.6	70.0	70.3	71.3	73.0	73.5	74.7
67.5°	54.6	54.8	53.3	54.8	64.9	67.6	67.6	69.5	70.3	71.3	72.5
70°	51.6	51.8	50.6	52.3	63.6	64.9	64.6	67.3	67.8	68.6	69.8
72.5°	47.9	47.9	47.4	49.9	61.7	62.2	61.7	63.9	64.1	64.9	65.4
75°	44.0	44.0	43.5	46.9	60.4	59.2	57.7	59.5	60.0	60.4	60.4
77.5°	38.8	39.3	39.3	43.5	56.3	58.0	53.1	54.1	54.8	55.0	54.3
80°	32.4	33.7	34.2	39.6	47.2	53.6	47.4	48.2	48.4	48.4	47.4
82.5°	24.8	27.0	28.3	34.2	36.1	45.0	41.3	42.0	41.3	39.8	39.3
85°	17.2	20.1	21.6	26.0	27.3	34.6	34.4	34.4	32.9	31.0	30.7
87.5°	9.3	11.1	12.0	15.5	18.7	23.3	25.3	24.6	23.3	22.1	22.4
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2
2.5°	1354.9	1388.3	1441.7	1482.4	1523.5	1563.0	1605.8	1638.5	1666.2	1677.1	1710.0
5°	1089.5	1131.3	1181.7	1272.6	1337.0	1408.0	1490.1	1598.7	1640.4	1698.2	1792.8
7.5°	770.3	808.2	889.3	962.7	1053.9	1154.4	1265.2	1415.1	1469.9	1562.5	1716.6
10°	575.2	619.2	684.3	746.3	826.6	929.3	1056.6	1224.2	1290.8	1391.3	1568.7
12.5°	463.4	515.3	584.3	642.6	704.7	777.2	900.8	1084.6	1173.8	1261.8	1441.2
15°	356.1	410.4	474.5	548.5	617.0	695.1	824.6	1025.6	1128.4	1220.0	1373.1
17.5°	246.5	292.9	373.7	450.9	538.6	638.6	803.5	1038.2	1160.8	1266.5	1384.9
20°	174.7	201.2	267.6	357.0	466.4	591.9	799.6	1104.0	1263.5	1384.2	1460.6
22.5°	146.9	156.8	195.3	277.4	403.7	557.1	813.3	1196.4	1402.1	1556.2	1581.2
25°	133.9	139.8	160.0	217.7	347.9	531.7	859.8	1334.0	1573.6	1728.2	1723.7
27.5°	126.8	132.9	146.2	183.8	305.9	516.0	906.2	1497.2	1769.7	1914.9	1859.9
30°	124.6	132.9	146.9	173.2	275.9	491.2	944.3	1640.4	1920.6	2041.0	1921.8
32.5°	122.9	124.1	130.5	149.4	247.4	462.2	970.1	1769.0	2068.2	2160.9	2011.0
35°	99.3	105.4	115.7	133.9	230.7	444.8	970.1	1879.8	2213.7	2282.0	2096.0
37.5°	95.6	101.0	110.1	125.6	221.4	436.2	950.7	1986.7	2362.4	2419.4	2166.0
40°	93.6	98.0	106.6	119.2	217.5	426.3	922.4	2081.0	2507.6	2557.0	2231.4
42.5°	92.1	96.1	104.2	115.2	212.3	415.5	899.6	2156.7	2633.6	2674.4	2293.8
45°	91.4	95.6	104.4	117.2	202.0	401.3	892.0	2238.5	2737.3	2772.5	2361.4
47.5°	91.4	96.3	105.7	121.4	189.7	386.5	915.8	2346.4	2835.4	2852.6	2441.0
50°	90.7	96.1	109.1	117.2	171.8	367.8	971.8	2482.3	2941.5	2943.5	2541.7
52.5°	89.2	95.6	117.5	114.8	151.1	343.3	1047.5	2656.7	3098.6	3110.3	2699.5
55°	87.5	94.8	115.2	109.1	134.2	314.0	1109.4	2868.8	3319.2	3351.9	2931.5
57.5°	85.3	93.9	111.6	101.2	123.1	276.4	1131.8	3024.1	3473.3	3555.4	3192.9
60°	83.3	93.1	100.7	96.6	116.2	244.7	1088.5	2993.4	3462.7	3639.6	3424.6
62.5°	81.3	93.9	91.9	93.6	113.0	224.3	975.5	2747.4	3287.5	3552.6	3596.4
65°	79.1	87.2	86.7	91.2	112.3	216.2	808.7	2378.6	2948.9	3277.7	3636.9
67.5°	76.2	80.6	83.1	88.0	114.8	209.1	652.6	1962.1	2478.4	2865.6	3425.6
70°	73.0	76.7	79.4	84.0	113.3	205.9	542.8	1547.3	1966.5	2348.6	3008.6
72.5°	68.8	72.0	74.5	78.9	111.8	204.2	458.5	1246.1	1468.2	1744.6	2446.2
75°	63.9	66.8	68.6	73.0	107.1	187.0	360.5	1054.4	1098.6	1213.6	1948.3
77.5°	58.2	60.4	61.9	66.8	94.8	155.5	260.7	813.3	853.1	881.2	1493.7
80°	51.6	53.8	54.6	59.2	78.6	121.6	170.0	600.8	638.1	644.5	975.5
82.5°	44.0	46.2	46.2	50.6	64.4	87.5	111.6	411.6	419.0	440.6	689.5
85°	35.4	37.1	37.1	39.3	49.9	65.4	76.7	206.7	204.4	233.4	597.3
87.5°	25.3	26.5	27.8	28.3	35.6	43.2	46.2	62.9	41.5	47.7	383.6
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2
2.5°	1734.8	1748.8	1734.6	1724.2	1679.8	1643.1	1594.2	1569.2
5°	1864.8	1900.4	1888.4	1845.1	1752.2	1647.8	1529.1	1475.6
7.5°	1849.1	1931.9	1933.8	1853.0	1716.1	1562.3	1401.6	1325.4
10°	1726.7	1832.6	1862.8	1784.4	1639.2	1467.2	1282.9	1195.9
12.5°	1590.1	1693.8	1716.9	1689.8	1568.4	1395.7	1208.7	1123.4
15°	1478.3	1524.7	1552.2	1575.8	1507.7	1367.2	1204.5	1110.9
17.5°	1410.2	1405.0	1412.9	1453.9	1465.5	1399.9	1268.4	1165.2
20°	1385.6	1306.7	1304.8	1361.3	1445.6	1477.8	1393.2	1269.4
22.5°	1399.1	1271.4	1255.1	1322.2	1456.1	1590.1	1556.9	1415.6
25°	1445.8	1274.3	1261.3	1326.2	1494.5	1709.7	1733.6	1604.8
27.5°	1519.3	1293.0	1275.8	1342.4	1545.3	1810.2	1907.5	1788.1
30°	1589.1	1325.4	1304.0	1374.3	1591.8	1850.0	2014.2	1931.1
32.5°	1673.9	1386.1	1348.5	1433.1	1649.3	1913.4	2109.3	2049.6
35°	1756.9	1472.6	1425.9	1523.7	1713.4	1992.3	2217.9	2200.9
37.5°	1848.1	1585.6	1547.1	1640.9	1801.1	2066.8	2356.5	2378.3
40°	1945.4	1735.5	1689.8	1812.0	1937.3	2160.1	2501.2	2553.8
42.5°	2043.4	1901.9	1847.3	1971.2	2086.9	2252.3	2625.0	2702.9
45°	2155.7	2082.5	2056.7	2190.6	2230.7	2340.0	2716.5	2813.3
47.5°	2286.4	2287.4	2329.0	2382.5	2375.6	2439.3	2808.4	2911.8
50°	2439.0	2543.2	2634.9	2670.5	2525.0	2545.9	2935.9	3043.8
52.5°	2622.3	2849.1	2962.7	2939.3	2686.0	2676.2	3137.9	3225.6
55°	2851.6	3173.0	3285.8	3269.1	2871.0	2853.6	3389.5	3440.6
57.5°	3117.0	3486.8	3590.5	3515.3	3093.1	3048.2	3597.6	3608.4
60°	3350.2	3735.5	3826.4	3743.1	3317.2	3255.3	3727.6	3675.3
62.5°	3479.9	3819.7	3883.6	3793.9	3470.8	3476.0	3756.1	3639.1
65°	3421.9	3606.7	3627.3	3620.0	3431.3	3604.0	3653.6	3472.3
67.5°	3104.5	3068.1	3102.7	3150.6	3092.2	3435.4	3369.8	3108.9
70°	2545.2	2345.4	2414.5	2446.7	2473.2	2956.3	2924.8	2532.2
72.5°	1918.1	1643.1	1697.7	1691.1	1813.9	2371.2	2274.6	1861.8
75°	1359.1	1114.1	1121.0	1118.3	1265.7	1855.2	1647.1	1273.8
77.5°	950.9	807.2	810.9	826.1	850.9	1399.1	1176.8	930.5
80°	653.9	612.6	633.0	634.2	589.7	939.9	869.4	746.7
82.5°	487.0	425.8	420.9	428.0	462.2	761.5	668.1	518.0
85°	398.8	252.1	202.7	254.1	409.6	754.1	443.8	273.2
87.5°	224.6	119.7	54.1	100.3	163.4	499.3	128.3	34.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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