

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: P193829

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193829
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-SLL-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT 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

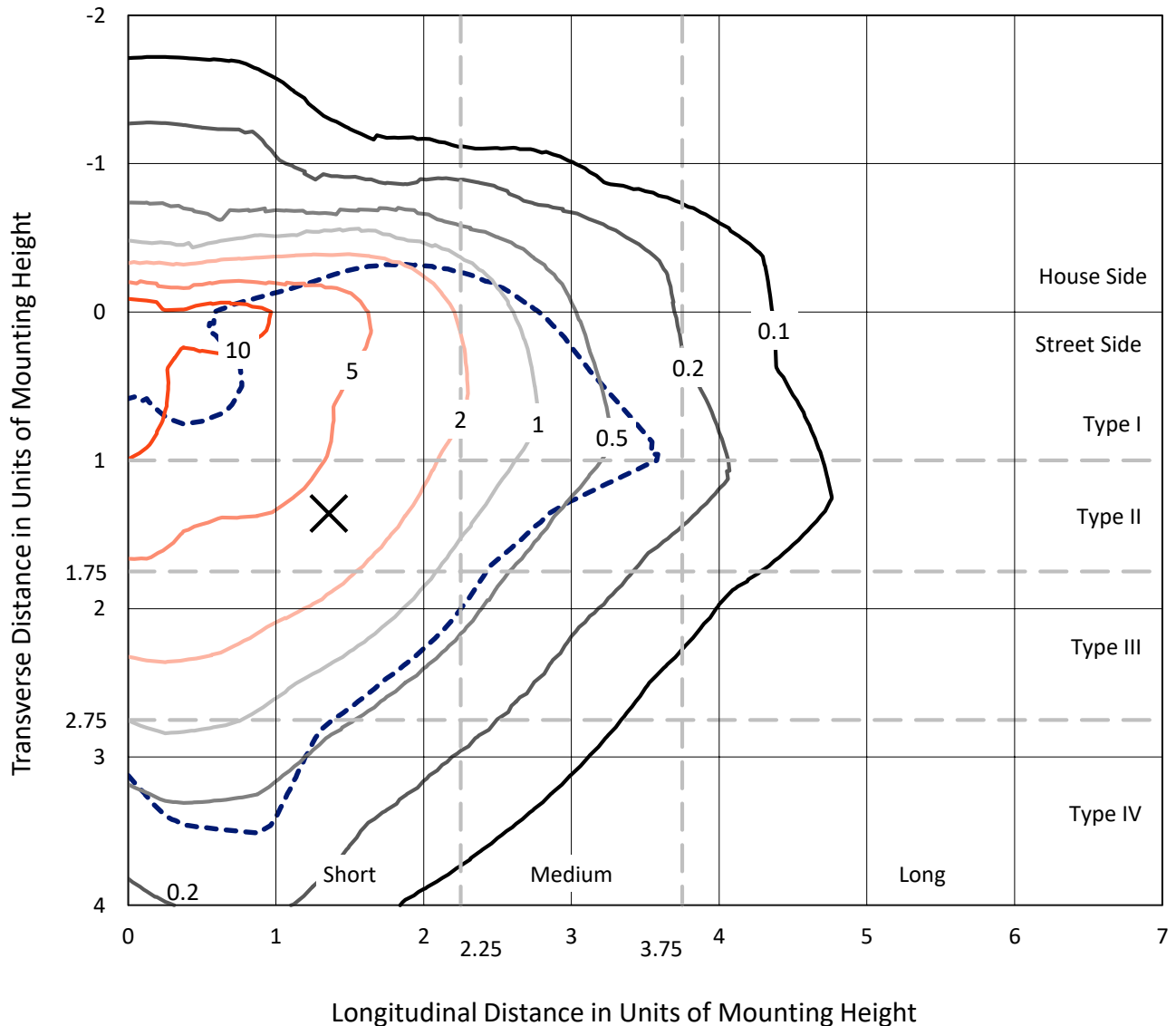
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

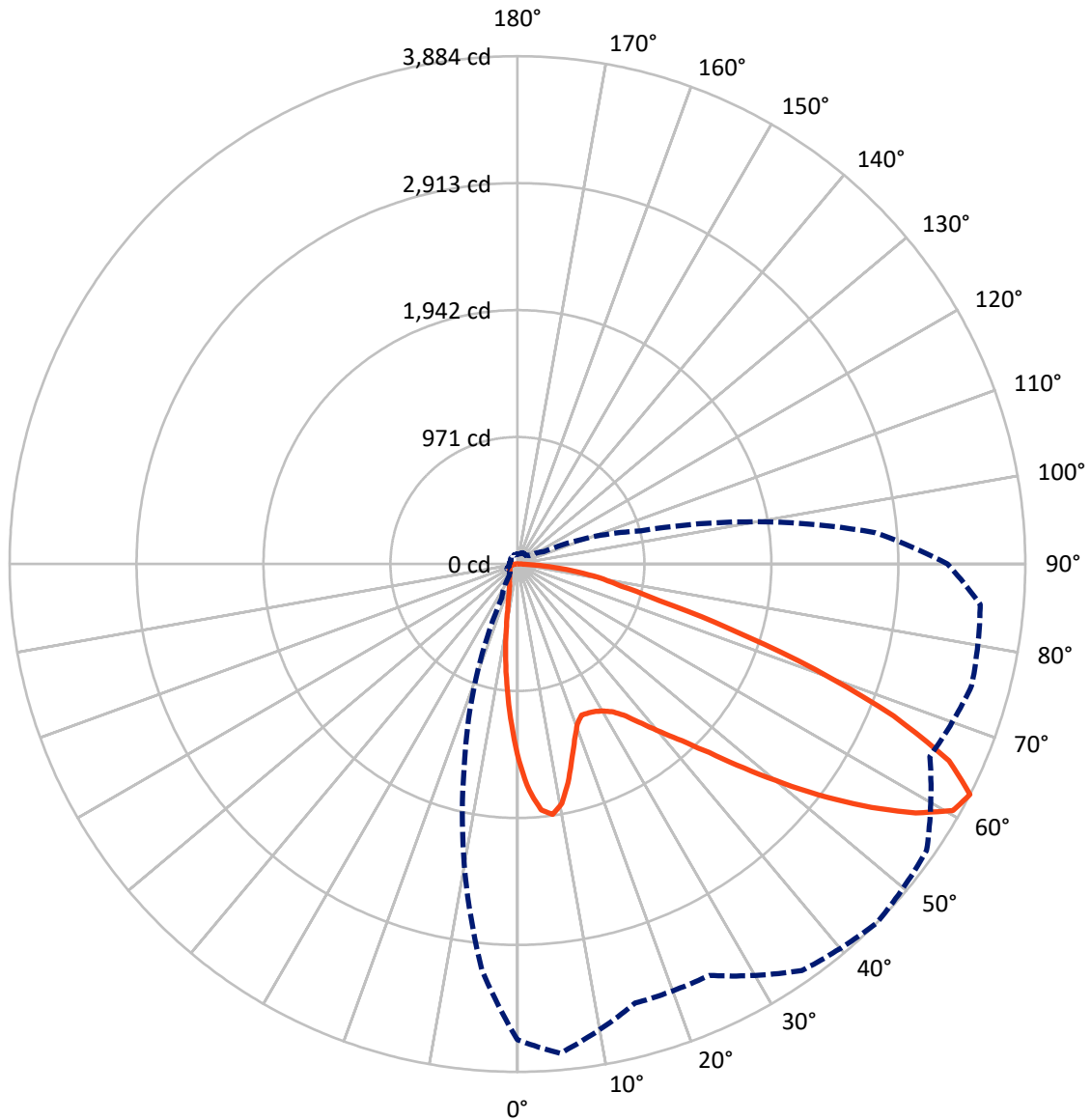
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-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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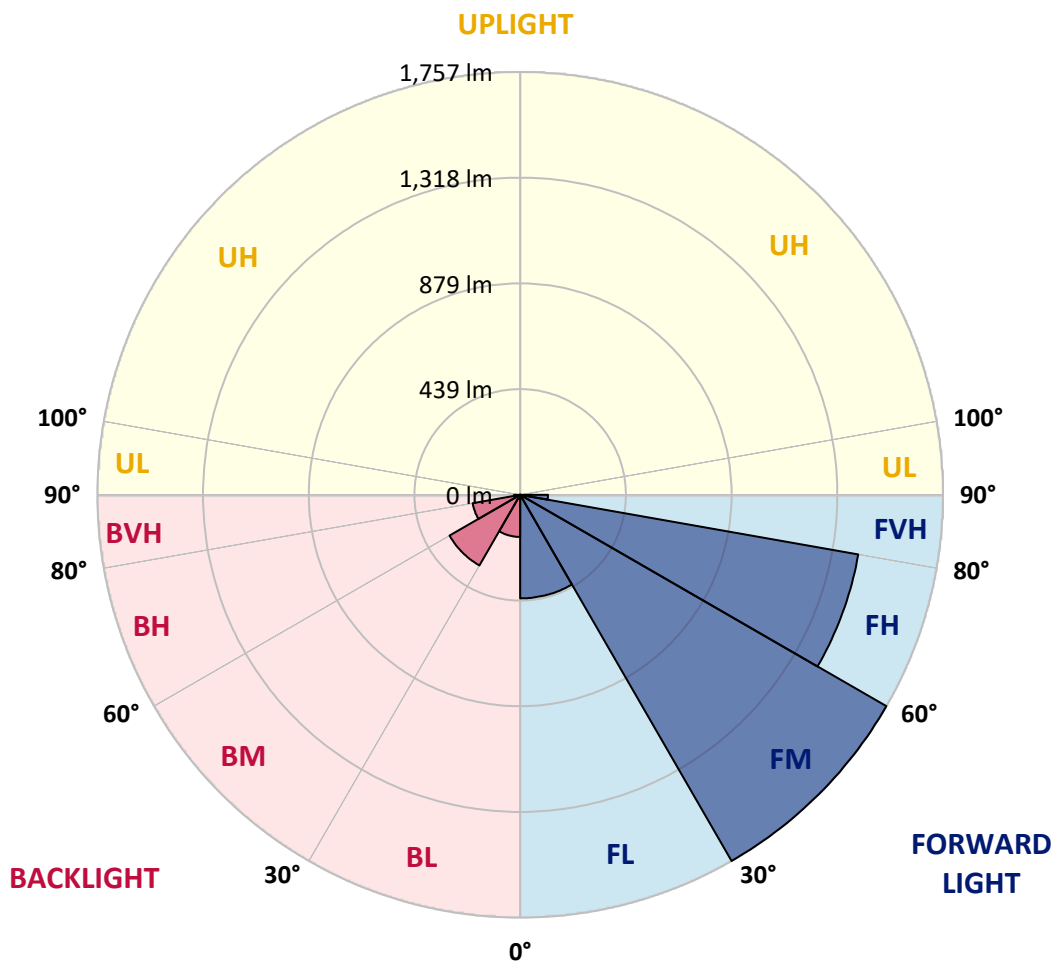
CATALOG NUMBER: GLEON-AF-01-LED-E1-SLL-8030

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	1594.2	1643.1	1679.8	1724.2	1734.6	1748.8	1734.8	1710.0	1677.1	1666.2
5°	1475.6	1529.1	1647.8	1752.2	1845.1	1888.4	1900.4	1864.8	1792.8	1698.2	1640.4
7.5°	1325.4	1401.6	1562.3	1716.1	1853.0	1933.8	1931.9	1849.1	1716.6	1562.5	1469.9
10°	1195.9	1282.9	1467.2	1639.2	1784.4	1862.8	1832.6	1726.7	1568.7	1391.3	1290.8
12.5°	1123.4	1208.7	1395.7	1568.4	1689.8	1716.9	1693.8	1590.1	1441.2	1261.8	1173.8
15°	1110.9	1204.5	1367.2	1507.7	1575.8	1552.2	1524.7	1478.3	1373.1	1220.0	1128.4
17.5°	1165.2	1268.4	1399.9	1465.5	1453.9	1412.9	1405.0	1410.2	1384.9	1266.5	1160.8
20°	1269.4	1393.2	1477.8	1445.6	1361.3	1304.8	1306.7	1385.6	1460.6	1384.2	1263.5
22.5°	1415.6	1556.9	1590.1	1456.1	1322.2	1255.1	1271.4	1399.1	1581.2	1556.2	1402.1
25°	1604.8	1733.6	1709.7	1494.5	1326.2	1261.3	1274.3	1445.8	1723.7	1728.2	1573.6
27.5°	1788.1	1907.5	1810.2	1545.3	1342.4	1275.8	1293.0	1519.3	1859.9	1914.9	1769.7
30°	1931.1	2014.2	1850.0	1591.8	1374.3	1304.0	1325.4	1589.1	1921.8	2041.0	1920.6
32.5°	2049.6	2109.3	1913.4	1649.3	1433.1	1348.5	1386.1	1673.9	2011.0	2160.9	2068.2
35°	2200.9	2217.9	1992.3	1713.4	1523.7	1425.9	1472.6	1756.9	2096.0	2282.0	2213.7
37.5°	2378.3	2356.5	2066.8	1801.1	1640.9	1547.1	1585.6	1848.1	2166.0	2419.4	2362.4
40°	2553.8	2501.2	2160.1	1937.3	1812.0	1689.8	1735.5	1945.4	2231.4	2557.0	2507.6
42.5°	2702.9	2625.0	2252.3	2086.9	1971.2	1847.3	1901.9	2043.4	2293.8	2674.4	2633.6
45°	2813.3	2716.5	2340.0	2230.7	2190.6	2056.7	2082.5	2155.7	2361.4	2772.5	2737.3
47.5°	2911.8	2808.4	2439.3	2375.6	2382.5	2329.0	2287.4	2286.4	2441.0	2852.6	2835.4
50°	3043.8	2935.9	2545.9	2525.0	2670.5	2634.9	2543.2	2439.0	2541.7	2943.5	2941.5
52.5°	3225.6	3137.9	2676.2	2686.0	2939.3	2962.7	2849.1	2622.3	2699.5	3110.3	3098.6
55°	3440.6	3389.5	2853.6	2871.0	3269.1	3285.8	3173.0	2851.6	2931.5	3351.9	3319.2
57.5°	3608.4	3597.6	3048.2	3093.1	3515.3	3590.5	3486.8	3117.0	3192.9	3555.4	3473.3
60°	3675.3	3727.6	3255.3	3317.2	3743.1	3826.4	3735.5	3350.2	3424.6	3639.6	3462.7
62.5°	3639.1	3756.1	3476.0	3470.8	3793.9	3883.6	3819.7	3479.9	3596.4	3552.6	3287.5
65°	3472.3	3653.6	3604.0	3431.3	3620.0	3627.3	3606.7	3421.9	3636.9	3277.7	2948.9
67.5°	3108.9	3369.8	3435.4	3092.2	3150.6	3102.7	3068.1	3104.5	3425.6	2865.6	2478.4
70°	2532.2	2924.8	2956.3	2473.2	2446.7	2414.5	2345.4	2545.2	3008.6	2348.6	1966.5
72.5°	1861.8	2274.6	2371.2	1813.9	1691.1	1697.7	1643.1	1918.1	2446.2	1744.6	1468.2
75°	1273.8	1647.1	1855.2	1265.7	1118.3	1121.0	1114.1	1359.1	1948.3	1213.6	1098.6
77.5°	930.5	1176.8	1399.1	850.9	826.1	810.9	807.2	950.9	1493.7	881.2	853.1
80°	746.7	869.4	939.9	589.7	634.2	633.0	612.6	653.9	975.5	644.5	638.1
82.5°	518.0	668.1	761.5	462.2	428.0	420.9	425.8	487.0	689.5	440.6	419.0
85°	273.2	443.8	754.1	409.6	254.1	202.7	252.1	398.8	597.3	233.4	204.4
87.5°	34.9	128.3	499.3	163.4	100.3	54.1	119.7	224.6	383.6	47.7	41.5
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°	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2
2.5°	1638.5	1605.8	1563.0	1523.5	1482.4	1441.7	1388.3	1354.9	1331.8	1327.4	1317.6
5°	1598.7	1490.1	1408.0	1337.0	1272.6	1181.7	1131.3	1089.5	1067.2	1065.0	1059.6
7.5°	1415.1	1265.2	1154.4	1053.9	962.7	889.3	808.2	770.3	754.9	758.5	762.2
10°	1224.2	1056.6	929.3	826.6	746.3	684.3	619.2	575.2	544.8	538.6	537.4
12.5°	1084.6	900.8	777.2	704.7	642.6	584.3	515.3	463.4	423.9	410.4	401.3
15°	1025.6	824.6	695.1	617.0	548.5	474.5	410.4	356.1	319.7	307.9	301.3
17.5°	1038.2	803.5	638.6	538.6	450.9	373.7	292.9	246.5	224.6	218.9	218.9
20°	1104.0	799.6	591.9	466.4	357.0	267.6	201.2	174.7	167.6	166.8	168.8
22.5°	1196.4	813.3	557.1	403.7	277.4	195.3	156.8	146.9	143.7	144.5	146.7
25°	1334.0	859.8	531.7	347.9	217.7	160.0	139.8	133.9	132.4	134.4	137.1
27.5°	1497.2	906.2	516.0	305.9	183.8	146.2	132.9	126.8	127.8	130.2	132.7
30°	1640.4	944.3	491.2	275.9	173.2	146.9	132.9	124.6	123.6	124.1	124.8
32.5°	1769.0	970.1	462.2	247.4	149.4	130.5	124.1	122.9	117.5	115.5	115.7
35°	1879.8	970.1	444.8	230.7	133.9	115.7	105.4	99.3	96.6	96.8	99.5
37.5°	1986.7	950.7	436.2	221.4	125.6	110.1	101.0	95.6	91.9	91.2	91.7
40°	2081.0	922.4	426.3	217.5	119.2	106.6	98.0	93.6	89.7	88.5	88.7
42.5°	2156.7	899.6	415.5	212.3	115.2	104.2	96.1	92.1	87.7	86.5	86.2
45°	2238.5	892.0	401.3	202.0	117.2	104.4	95.6	91.4	87.0	85.5	85.0
47.5°	2346.4	915.8	386.5	189.7	121.4	105.7	96.3	91.4	86.7	85.5	85.0
50°	2482.3	971.8	367.8	171.8	117.2	109.1	96.1	90.7	86.7	85.5	84.5
52.5°	2656.7	1047.5	343.3	151.1	114.8	117.5	95.6	89.2	85.5	83.8	82.1
55°	2868.8	1109.4	314.0	134.2	109.1	115.2	94.8	87.5	83.5	81.1	79.6
57.5°	3024.1	1131.8	276.4	123.1	101.2	111.6	93.9	85.3	81.1	79.1	77.2
60°	2993.4	1088.5	244.7	116.2	96.6	100.7	93.1	83.3	78.9	77.4	75.7
62.5°	2747.4	975.5	224.3	113.0	93.6	91.9	93.9	81.3	76.9	75.4	74.9
65°	2378.6	808.7	216.2	112.3	91.2	86.7	87.2	79.1	74.7	73.5	73.0
67.5°	1962.1	652.6	209.1	114.8	88.0	83.1	80.6	76.2	72.5	71.3	70.3
70°	1547.3	542.8	205.9	113.3	84.0	79.4	76.7	73.0	69.8	68.6	67.8
72.5°	1246.1	458.5	204.2	111.8	78.9	74.5	72.0	68.8	65.4	64.9	64.1
75°	1054.4	360.5	187.0	107.1	73.0	68.6	66.8	63.9	60.4	60.4	60.0
77.5°	813.3	260.7	155.5	94.8	66.8	61.9	60.4	58.2	54.3	55.0	54.8
80°	600.8	170.0	121.6	78.6	59.2	54.6	53.8	51.6	47.4	48.4	48.4
82.5°	411.6	111.6	87.5	64.4	50.6	46.2	46.2	44.0	39.3	39.8	41.3
85°	206.7	76.7	65.4	49.9	39.3	37.1	37.1	35.4	30.7	31.0	32.9
87.5°	62.9	46.2	43.2	35.6	28.3	27.8	26.5	25.3	22.4	22.1	23.3
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°	1302.6	1288.6	1271.6	1234.3	1221.7	1221.0	1232.3	1220.5	1243.1	1233.5	1244.1
5°	1050.5	1036.7	1017.8	970.1	941.1	921.5	912.1	884.6	904.5	890.0	902.0
7.5°	772.5	775.7	763.2	735.2	672.0	640.4	621.7	605.0	619.5	618.0	641.1
10°	543.0	551.6	542.8	514.5	463.4	446.0	449.4	456.1	475.0	484.8	520.4
12.5°	390.9	390.5	384.8	359.5	325.8	327.8	341.8	353.3	370.8	381.1	417.5
15°	291.9	287.5	285.0	264.4	245.2	249.4	256.3	257.5	268.6	274.7	304.2
17.5°	220.7	222.9	225.6	210.8	196.3	193.6	188.2	181.6	184.8	186.0	200.8
20°	175.2	184.0	190.7	180.4	165.6	157.8	150.9	146.5	146.5	146.2	150.4
22.5°	153.1	159.5	166.6	159.5	146.2	139.3	135.4	132.0	131.5	131.5	135.4
25°	141.0	145.7	152.6	147.7	137.8	132.7	129.0	124.6	122.9	122.4	125.1
27.5°	135.1	137.1	140.6	136.1	127.8	125.3	124.3	120.4	118.2	117.0	119.7
30°	125.1	124.6	124.8	120.4	113.8	113.5	115.2	116.0	115.2	115.0	119.2
32.5°	115.7	114.8	114.5	110.6	104.4	103.0	104.4	105.9	107.6	110.1	115.0
35°	103.9	106.4	107.9	104.4	97.1	92.6	90.9	88.2	86.7	86.7	92.4
37.5°	94.6	100.3	102.5	99.3	91.2	85.0	82.1	81.6	81.8	82.8	88.2
40°	91.4	95.6	97.6	94.4	86.2	80.6	78.9	78.4	78.9	80.4	85.8
42.5°	89.4	92.4	92.1	88.2	81.6	77.6	76.7	76.2	76.7	78.1	84.0
45°	87.7	89.7	87.7	83.1	76.9	74.9	75.2	74.9	75.4	76.9	82.6
47.5°	86.2	87.0	84.5	79.9	73.5	73.0	74.0	74.7	75.2	76.4	82.3
50°	84.0	84.0	81.8	76.9	70.5	70.8	72.0	73.7	74.0	75.4	80.1
52.5°	81.3	81.1	79.6	74.9	68.1	68.8	68.8	70.8	71.3	73.0	77.9
55°	79.1	78.6	77.9	73.5	65.9	67.1	66.3	67.1	68.3	70.0	75.4
57.5°	77.2	76.2	76.2	72.2	64.1	64.6	62.9	63.9	65.4	66.8	72.5
60°	75.2	74.2	74.7	70.5	61.4	60.9	60.2	62.2	62.7	64.4	70.0
62.5°	73.0	72.2	72.5	68.6	59.5	58.2	58.2	60.0	60.2	62.7	68.1
65°	71.3	70.3	70.0	66.6	57.3	55.8	56.5	57.3	57.7	60.2	65.4
67.5°	69.5	67.6	67.6	64.9	54.8	53.3	54.8	54.6	55.3	57.5	61.7
70°	67.3	64.6	64.9	63.6	52.3	50.6	51.8	51.6	52.1	53.6	57.7
72.5°	63.9	61.7	62.2	61.7	49.9	47.4	47.9	47.9	47.9	49.1	53.6
75°	59.5	57.7	59.2	60.4	46.9	43.5	44.0	44.0	43.2	44.0	49.4
77.5°	54.1	53.1	58.0	56.3	43.5	39.3	39.3	38.8	37.3	38.3	44.2
80°	48.2	47.4	53.6	47.2	39.6	34.2	33.7	32.4	31.0	31.7	37.6
82.5°	42.0	41.3	45.0	36.1	34.2	28.3	27.0	24.8	23.3	24.1	29.5
85°	34.4	34.4	34.6	27.3	26.0	21.6	20.1	17.2	15.5	16.0	21.1
87.5°	24.6	25.3	23.3	18.7	15.5	12.0	11.1	9.3	7.9	9.1	11.1
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):

	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°	1298.1	1325.2	1355.9	1395.2	1428.9	1484.2	1537.2	1569.2
5°	970.6	1015.6	1071.6	1143.6	1210.7	1311.4	1411.4	1475.6
7.5°	694.7	742.8	803.3	893.2	988.0	1116.6	1248.8	1325.4
10°	574.7	624.1	675.0	735.7	813.3	953.2	1109.4	1195.9
12.5°	475.5	528.3	583.1	647.0	719.0	843.8	1023.9	1123.4
15°	363.9	422.9	487.5	568.4	658.5	802.8	1002.8	1110.9
17.5°	249.4	315.3	394.6	494.4	604.7	789.5	1040.6	1165.2
20°	171.8	219.7	304.4	421.4	554.1	787.8	1113.4	1269.4
22.5°	143.7	165.1	227.0	354.3	516.0	808.9	1226.2	1415.6
25°	132.9	145.7	181.3	296.1	488.2	857.6	1381.4	1604.8
27.5°	126.5	138.1	164.6	258.0	466.4	914.1	1532.6	1788.1
30°	129.0	140.8	160.0	238.6	436.6	961.3	1666.7	1931.1
32.5°	116.2	121.4	137.1	221.4	415.3	1000.8	1784.2	2049.6
35°	99.0	108.1	122.4	213.3	415.8	1027.4	1912.2	2200.9
37.5°	94.4	103.4	113.8	210.3	421.4	1055.6	2059.1	2378.3
40°	91.4	99.8	108.6	208.6	426.8	1081.4	2203.1	2553.8
42.5°	89.4	97.1	108.1	202.7	429.5	1104.5	2321.6	2702.9
45°	89.2	97.1	110.1	196.8	433.7	1129.3	2420.9	2813.3
47.5°	89.4	100.3	106.4	189.7	433.7	1170.9	2537.3	2911.8
50°	88.5	105.7	102.5	179.6	423.6	1249.5	2697.0	3043.8
52.5°	88.0	104.9	94.8	164.1	406.2	1374.3	2901.7	3225.6
55°	86.7	101.2	89.4	141.0	385.8	1510.5	3120.9	3440.6
57.5°	85.5	89.7	86.5	120.9	354.3	1606.3	3271.8	3608.4
60°	95.8	78.4	84.0	111.1	312.3	1632.6	3265.9	3675.3
62.5°	88.7	73.5	80.8	108.9	282.8	1558.9	3115.0	3639.1
65°	69.5	70.3	77.6	115.2	275.0	1363.5	2847.7	3472.3
67.5°	63.6	67.1	74.5	123.4	275.7	1091.7	2448.1	3108.9
70°	60.0	63.6	70.8	127.5	277.7	813.8	1935.6	2532.2
72.5°	55.8	59.0	66.6	128.3	264.9	591.2	1491.8	1861.8
75°	50.9	53.8	60.7	111.8	219.4	410.1	1141.1	1273.8
77.5°	45.2	47.4	53.3	86.2	162.9	262.4	856.6	930.5
80°	38.6	39.8	44.7	63.2	111.6	164.1	677.7	746.7
82.5°	31.0	31.5	34.6	47.4	72.5	105.4	453.8	518.0
85°	21.9	21.9	23.8	34.4	49.4	66.8	246.5	273.2
87.5°	10.3	10.6	10.6	18.9	25.8	33.9	56.8	34.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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