

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: P192119

Luminaire Tested: **GLEON-AF-01-LED-E1-SLR-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192119
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-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 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: 4426 lumens
Efficiency: N/A
Efficacy: 100.6 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): 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

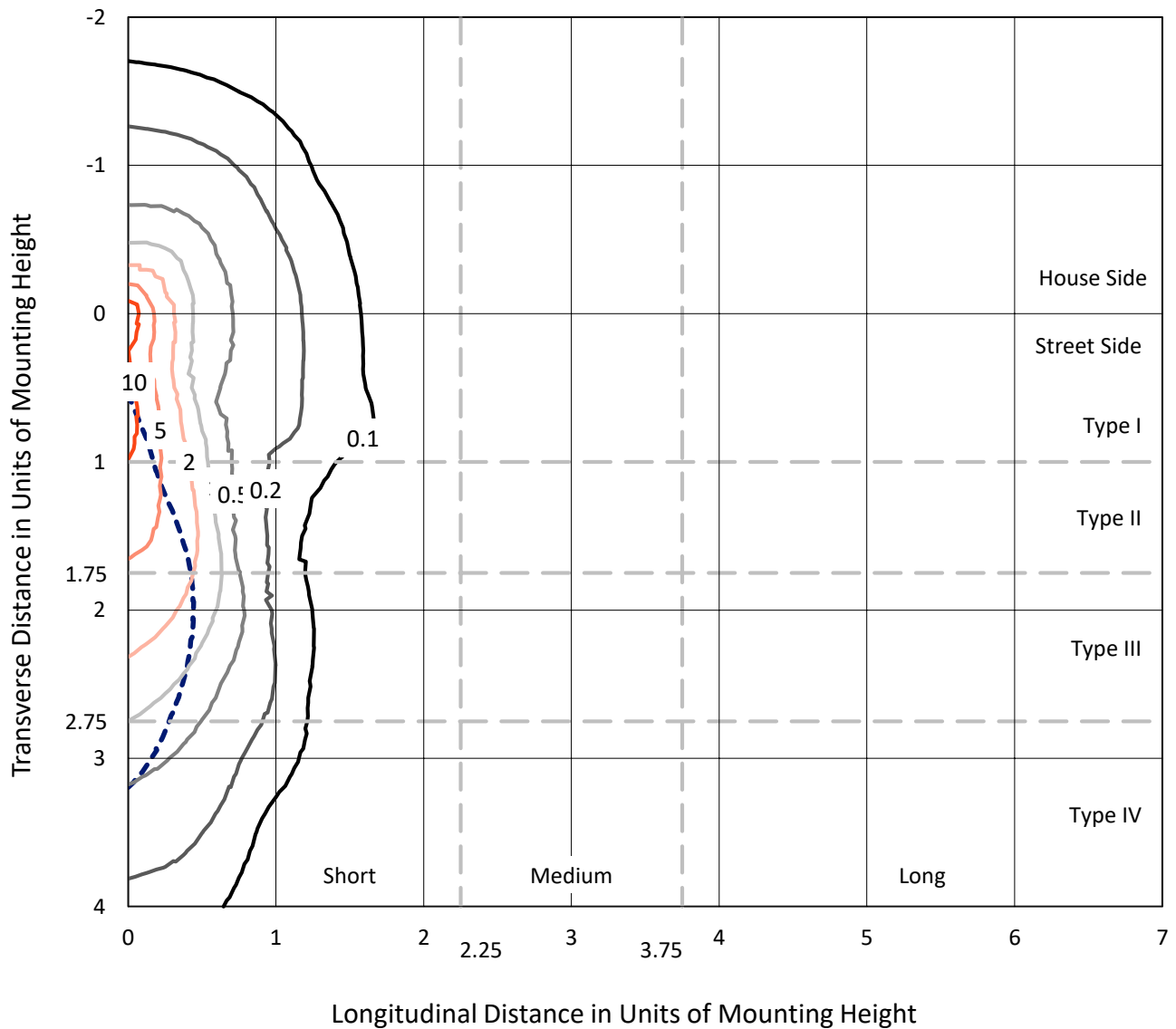


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Iso-Footcandle Lines of Horizontal Illumination

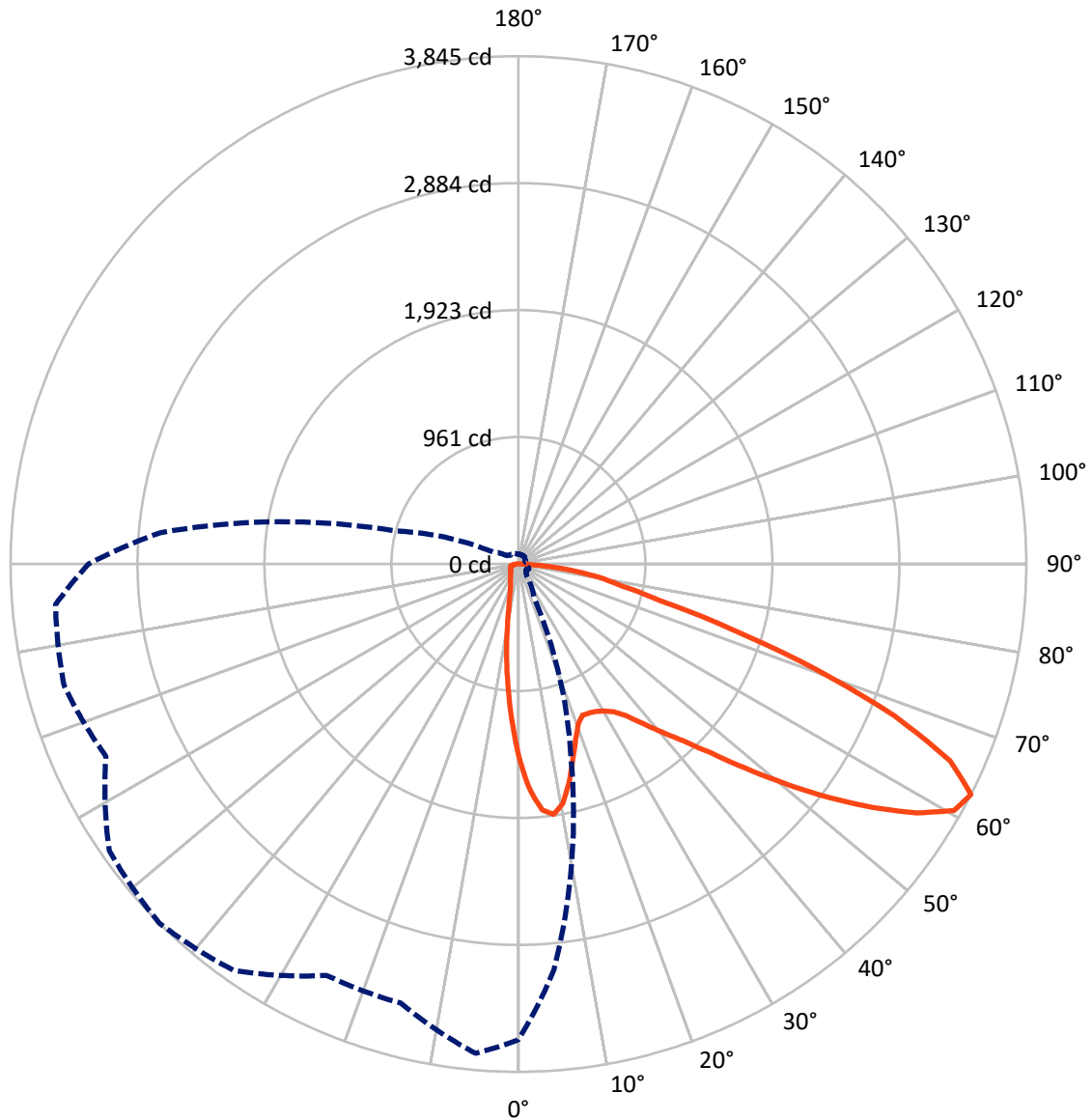
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15 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	732.4	0.0	732.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	3693.6	0.0	3693.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	4426.0	0.0	4426.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.9	2.5
10°-20°	199.6	4.5
20°-30°	291.0	6.6
30°-40°	448.2	10.1
40°-50°	659.7	14.9
50°-60°	967.6	21.9
60°-70°	1081.6	24.4
70°-80°	529.6	12.0
80°-90°	139.8	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°	4426.0	100.0
0°-180°	4426.0	100.0



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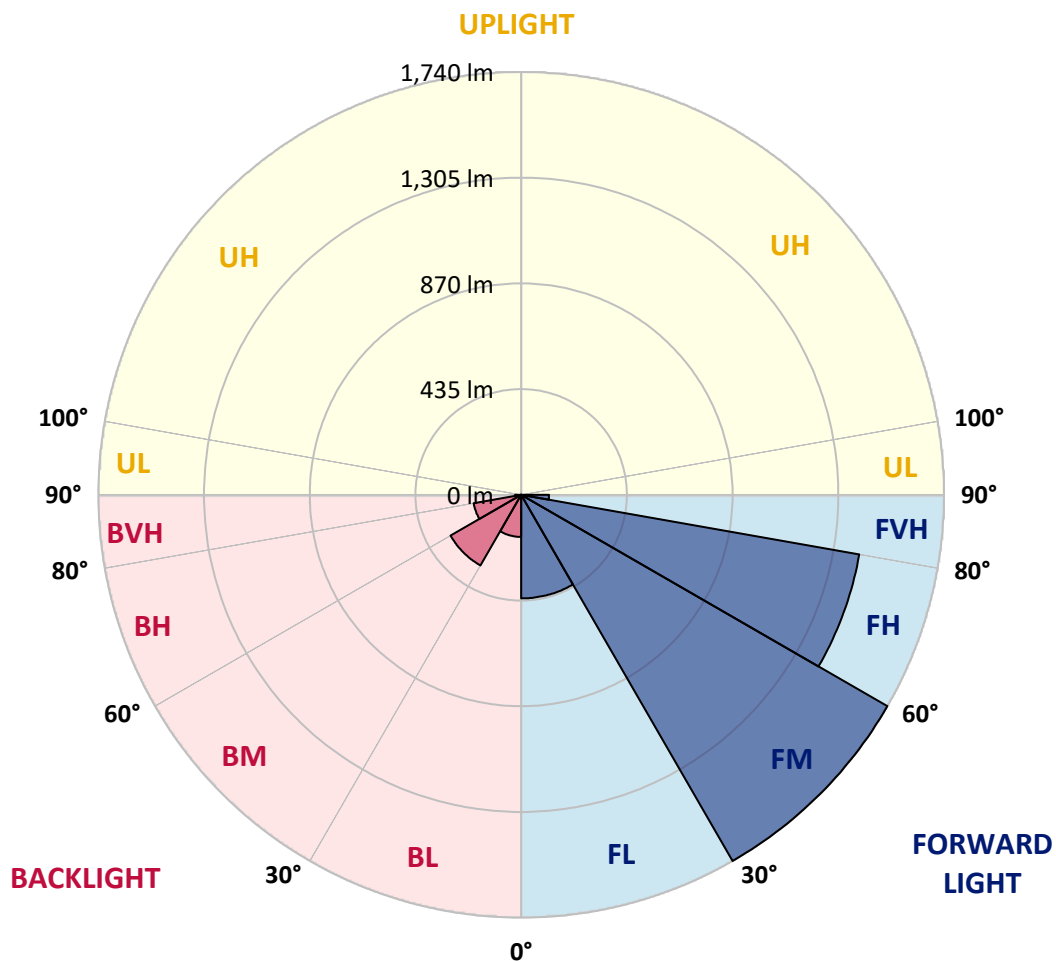
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	426.2	9.6			
FM (30°-60°)	1739.9	39.3			
FH (60°-80°)	1412.6	31.9			G1/1800
FVH (80°-90°)	114.8	2.6			G2/225
BL (0°-30°)	173.3	3.9	B1/500		
BM (30°-60°)	335.6	7.6	B1/1000		
BH (60°-80°)	198.6	4.5	B1/500		G1/500
BVH (80°-90°)	25.0	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°	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3
2.5°	1553.7	1522.1	1469.6	1414.8	1381.5	1342.5	1312.1	1285.4	1231.8	1221.4	1230.9
5°	1461.0	1397.5	1298.5	1198.8	1132.3	1061.0	1005.6	961.0	893.2	881.2	895.6
7.5°	1312.4	1236.5	1105.6	978.3	884.4	795.4	735.5	687.8	634.8	611.9	613.4
10°	1184.2	1098.5	943.8	805.3	728.4	668.4	618.0	569.1	515.3	480.0	470.3
12.5°	1112.4	1013.8	835.5	711.9	640.6	577.4	523.1	470.8	413.4	377.4	367.1
15°	1100.0	992.9	794.9	652.1	562.8	482.7	418.7	360.3	301.2	272.0	265.9
17.5°	1153.7	1030.4	781.7	598.8	489.5	390.7	312.2	247.0	198.8	184.2	183.0
20°	1256.9	1102.4	780.0	548.6	417.3	301.5	217.5	170.1	148.9	144.8	145.0
22.5°	1401.7	1214.1	801.0	510.9	350.8	224.8	163.5	142.3	134.1	130.2	130.2
25°	1589.0	1367.9	849.1	483.4	293.2	179.6	144.3	131.6	123.8	121.2	121.7
27.5°	1770.5	1517.5	905.1	461.8	255.5	163.0	136.7	125.3	118.5	115.8	117.0
30°	1912.1	1650.3	951.8	432.3	236.2	158.4	139.4	127.7	118.0	113.9	114.1
32.5°	2029.4	1766.6	991.0	411.2	219.2	135.8	120.2	115.1	113.9	109.0	106.6
35°	2179.3	1893.4	1017.3	411.7	211.2	121.2	107.1	98.1	91.5	85.9	85.9
37.5°	2354.9	2038.9	1045.2	417.3	208.3	112.6	102.4	93.4	87.3	82.0	81.0
40°	2528.6	2181.5	1070.8	422.6	206.6	107.5	98.8	90.5	84.9	79.6	78.1
42.5°	2676.3	2298.7	1093.6	425.3	200.7	107.1	96.1	88.6	83.2	77.4	75.9
45°	2785.6	2397.0	1118.2	429.4	194.9	109.0	96.1	88.3	81.7	76.2	74.7
47.5°	2883.1	2512.3	1159.3	429.4	187.8	105.4	99.3	88.6	81.5	75.7	74.5
50°	3013.8	2670.5	1237.2	419.5	177.9	101.5	104.6	87.6	79.3	74.7	73.2
52.5°	3193.8	2873.2	1360.8	402.2	162.5	93.9	103.9	87.1	77.1	72.3	70.6
55°	3406.7	3090.2	1495.6	382.0	139.7	88.6	100.2	85.9	74.7	69.3	67.6
57.5°	3572.9	3239.6	1590.5	350.8	119.7	85.6	88.8	84.7	71.8	66.2	64.7
60°	3639.1	3233.7	1616.5	309.2	110.0	83.2	77.6	94.9	69.3	63.7	62.0
62.5°	3603.3	3084.4	1543.5	280.0	107.8	80.0	72.7	87.8	67.4	62.0	59.6
65°	3438.1	2819.6	1350.1	272.3	114.1	76.9	69.6	68.9	64.7	59.6	57.2
67.5°	3078.3	2424.0	1081.0	273.0	122.1	73.7	66.4	63.0	61.1	56.9	54.7
70°	2507.2	1916.5	805.8	274.9	126.3	70.1	63.0	59.4	57.2	53.0	51.6
72.5°	1843.5	1477.1	585.4	262.3	127.0	65.9	58.4	55.2	53.0	48.7	47.4
75°	1261.3	1129.9	406.1	217.3	110.7	60.1	53.3	50.4	48.9	43.6	42.8
77.5°	921.4	848.2	259.8	161.3	85.4	52.8	47.0	44.8	43.8	38.0	37.0
80°	739.4	671.0	162.5	110.5	62.5	44.3	39.4	38.2	37.2	31.4	30.7
82.5°	512.9	449.4	104.4	71.8	47.0	34.3	31.1	30.7	29.2	23.8	23.1
85°	270.6	244.0	66.2	48.9	34.1	23.6	21.7	21.7	20.9	15.8	15.3
87.5°	34.5	56.2	33.6	25.5	18.7	10.5	10.5	10.2	10.9	9.0	7.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3
2.5°	1208.5	1220.2	1209.0	1209.7	1222.1	1259.1	1275.9	1289.8	1304.6	1314.3	1318.7
5°	875.9	903.1	912.4	931.9	960.6	1007.8	1026.5	1040.1	1049.1	1054.5	1056.7
7.5°	599.0	615.6	634.0	665.4	728.0	755.7	768.1	764.9	754.7	751.1	747.4
10°	451.6	445.0	441.6	458.9	509.5	537.5	546.2	537.7	532.1	533.3	539.4
12.5°	349.9	338.4	324.6	322.6	356.0	381.0	386.6	387.1	397.3	406.3	419.7
15°	255.0	253.8	247.0	242.8	261.8	282.2	284.7	289.0	298.3	304.9	316.5
17.5°	179.8	186.4	191.7	194.4	208.8	223.4	220.7	218.5	216.8	216.8	222.4
20°	145.0	149.4	156.2	164.0	178.6	188.8	182.2	173.5	167.1	165.2	165.9
22.5°	130.7	134.1	138.0	144.8	157.9	165.0	157.9	151.6	145.3	143.1	142.3
25°	123.4	127.7	131.4	136.5	146.2	151.1	144.3	139.7	135.8	133.1	131.1
27.5°	119.2	123.1	124.1	126.5	134.8	139.2	135.8	133.8	131.4	129.0	126.5
30°	114.8	114.1	112.4	112.6	119.2	123.6	123.4	123.8	123.6	122.9	122.4
32.5°	104.9	103.4	101.9	103.4	109.5	113.4	113.6	114.6	114.6	114.4	116.3
35°	87.3	90.0	91.7	96.1	103.4	106.8	105.4	102.9	98.5	95.9	95.6
37.5°	80.8	81.3	84.2	90.3	98.3	101.5	99.3	93.7	90.8	90.3	91.0
40°	77.6	78.1	79.8	85.4	93.4	96.6	94.6	90.5	87.8	87.6	88.8
42.5°	75.4	75.9	76.9	80.8	87.3	91.2	91.5	88.6	85.4	85.6	86.9
45°	74.2	74.5	74.2	76.2	82.2	86.9	88.8	86.9	84.2	84.7	86.1
47.5°	74.0	73.2	72.3	72.7	79.1	83.7	86.1	85.4	84.2	84.7	85.9
50°	73.0	71.3	70.1	69.8	76.2	81.0	83.2	83.2	83.7	84.7	85.9
52.5°	70.1	68.1	68.1	67.4	74.2	78.8	80.3	80.5	81.3	83.0	84.7
55°	66.4	65.7	66.4	65.2	72.7	77.1	77.9	78.3	78.8	80.3	82.7
57.5°	63.3	62.3	64.0	63.5	71.5	75.4	75.4	76.4	76.4	78.3	80.3
60°	61.6	59.6	60.3	60.8	69.8	74.0	73.5	74.5	74.9	76.6	78.1
62.5°	59.4	57.7	57.7	58.9	67.9	71.8	71.5	72.3	74.2	74.7	76.2
65°	56.7	56.0	55.2	56.7	65.9	69.3	69.6	70.6	72.3	72.7	74.0
67.5°	54.0	54.3	52.8	54.3	64.2	66.9	66.9	68.9	69.6	70.6	71.8
70°	51.1	51.3	50.1	51.8	63.0	64.2	64.0	66.7	67.2	67.9	69.1
72.5°	47.4	47.4	47.0	49.4	61.1	61.6	61.1	63.3	63.5	64.2	64.7
75°	43.6	43.6	43.1	46.5	59.9	58.6	57.2	58.9	59.4	59.9	59.9
77.5°	38.4	38.9	38.9	43.1	55.7	57.4	52.6	53.5	54.3	54.5	53.8
80°	32.1	33.3	33.8	39.2	46.7	53.0	47.0	47.7	47.9	47.9	47.0
82.5°	24.6	26.8	28.0	33.8	35.8	44.5	40.9	41.6	40.9	39.4	38.9
85°	17.0	20.0	21.4	25.8	27.0	34.3	34.1	34.1	32.6	30.7	30.4
87.5°	9.2	10.9	11.9	15.3	18.5	23.1	25.1	24.3	23.1	21.9	22.1
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°	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3
2.5°	1341.6	1374.7	1427.5	1467.8	1508.5	1547.7	1590.0	1622.3	1649.8	1660.5	1693.1
5°	1078.8	1120.2	1170.0	1260.1	1323.8	1394.1	1475.4	1582.9	1624.3	1681.5	1775.1
7.5°	762.8	800.2	880.5	953.3	1043.5	1143.0	1252.8	1401.2	1455.4	1547.2	1699.7
10°	569.6	613.1	677.6	738.9	818.5	920.2	1046.2	1212.1	1278.1	1377.6	1553.2
12.5°	458.9	510.2	578.6	636.2	697.8	769.6	891.9	1073.9	1162.3	1249.4	1427.0
15°	352.5	406.3	469.8	543.1	610.9	688.3	816.5	1015.5	1117.2	1208.0	1359.6
17.5°	244.0	290.0	370.1	446.5	533.3	632.3	795.6	1028.0	1149.4	1254.0	1371.3
20°	173.0	199.3	265.0	353.5	461.8	586.1	791.7	1093.2	1251.1	1370.5	1446.2
22.5°	145.5	155.2	193.4	274.7	399.7	551.6	805.3	1184.6	1388.3	1540.8	1565.7
25°	132.6	138.4	158.4	215.6	344.5	526.5	851.3	1320.9	1558.1	1711.2	1706.8
27.5°	125.5	131.6	144.8	182.0	302.9	510.9	897.3	1482.4	1752.3	1896.1	1841.6
30°	123.4	131.6	145.5	171.5	273.2	486.4	935.0	1624.3	1901.7	2020.9	1902.9
32.5°	121.7	122.9	129.2	147.9	245.0	457.7	960.6	1751.5	2047.9	2139.6	1991.2
35°	98.3	104.4	114.6	132.6	228.5	440.4	960.6	1861.3	2191.9	2259.6	2075.4
37.5°	94.6	100.0	109.0	124.3	219.2	431.9	941.3	1967.1	2339.1	2395.6	2144.7
40°	92.7	97.1	105.6	118.0	215.3	422.1	913.4	2060.5	2482.9	2531.8	2209.4
42.5°	91.2	95.1	103.2	114.1	210.2	411.4	890.7	2135.5	2607.7	2648.1	2271.2
45°	90.5	94.6	103.4	116.1	200.0	397.3	883.2	2216.5	2710.4	2745.2	2338.1
47.5°	90.5	95.4	104.6	120.2	187.8	382.7	906.8	2323.3	2807.5	2824.5	2417.0
50°	89.8	95.1	108.0	116.1	170.1	364.2	962.3	2457.8	2912.6	2914.5	2516.7
52.5°	88.3	94.6	116.3	113.6	149.6	339.9	1037.2	2630.6	3068.1	3079.7	2672.9
55°	86.6	93.9	114.1	108.0	132.8	310.9	1098.5	2840.6	3286.5	3318.9	2902.6
57.5°	84.4	92.9	110.5	100.2	121.9	273.7	1120.7	2994.3	3439.1	3520.4	3161.5
60°	82.5	92.2	99.8	95.6	115.1	242.3	1077.8	2963.9	3428.6	3603.8	3390.9
62.5°	80.5	92.9	91.0	92.7	111.9	222.1	965.9	2720.4	3255.2	3517.7	3561.0
65°	78.3	86.4	85.9	90.3	111.2	214.1	800.7	2355.2	2919.9	3245.4	3601.1
67.5°	75.4	79.8	82.2	87.1	113.6	207.1	646.2	1942.8	2454.0	2837.4	3391.9
70°	72.3	75.9	78.6	83.2	112.2	203.9	537.5	1532.1	1947.2	2325.5	2979.0
72.5°	68.1	71.3	73.7	78.1	110.7	202.2	454.0	1233.8	1453.7	1727.5	2422.1
75°	63.3	66.2	67.9	72.3	106.1	185.2	356.9	1044.0	1087.8	1201.7	1929.2
77.5°	57.7	59.9	61.3	66.2	93.9	154.0	258.1	805.3	844.7	872.5	1479.0
80°	51.1	53.3	54.0	58.6	77.9	120.4	168.4	594.9	631.9	638.2	965.9
82.5°	43.6	45.7	45.7	50.1	63.7	86.6	110.5	407.5	414.8	436.2	682.7
85°	35.0	36.7	36.7	38.9	49.4	64.7	75.9	204.6	202.4	231.1	591.5
87.5°	25.1	26.3	27.5	28.0	35.3	42.8	45.7	62.3	41.1	47.2	379.8
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°	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3	1495.3
2.5°	1717.7	1731.6	1717.5	1707.3	1663.2	1627.0	1578.6	1553.7
5°	1846.4	1881.7	1869.8	1827.0	1735.0	1631.6	1514.1	1461.0
7.5°	1830.9	1912.8	1914.8	1834.7	1699.2	1546.9	1387.8	1312.4
10°	1709.7	1814.6	1844.5	1766.9	1623.1	1452.8	1270.3	1184.2
12.5°	1574.4	1677.1	1700.0	1673.2	1553.0	1382.0	1196.8	1112.4
15°	1463.7	1509.7	1536.9	1560.3	1492.9	1353.7	1192.7	1100.0
17.5°	1396.3	1391.2	1399.0	1439.6	1451.1	1386.1	1255.9	1153.7
20°	1372.0	1293.9	1291.9	1347.9	1431.4	1463.2	1379.5	1256.9
22.5°	1385.4	1258.9	1242.8	1309.2	1441.8	1574.4	1541.6	1401.7
25°	1431.6	1261.8	1248.9	1313.1	1479.8	1692.9	1716.5	1589.0
27.5°	1504.3	1280.3	1263.2	1329.2	1530.1	1792.4	1888.8	1770.5
30°	1573.4	1312.4	1291.2	1360.8	1576.1	1831.8	1994.4	1912.1
32.5°	1657.4	1372.5	1335.2	1418.9	1633.1	1894.6	2088.5	2029.4
35°	1739.6	1458.1	1411.9	1508.7	1696.6	1972.7	2196.1	2179.3
37.5°	1829.9	1570.0	1531.8	1624.8	1783.4	2046.4	2333.3	2354.9
40°	1926.2	1718.5	1673.2	1794.1	1918.2	2138.9	2476.6	2528.6
42.5°	2023.3	1883.2	1829.2	1951.8	2066.4	2230.1	2599.2	2676.3
45°	2134.5	2062.0	2036.4	2169.0	2208.7	2317.0	2689.7	2785.6
47.5°	2263.9	2264.9	2306.0	2359.1	2352.3	2415.3	2780.7	2883.1
50°	2415.0	2518.2	2608.9	2644.2	2500.2	2520.9	2907.0	3013.8
52.5°	2596.5	2821.1	2933.5	2910.4	2659.5	2649.8	3107.0	3193.8
55°	2823.5	3141.8	3253.4	3236.9	2842.8	2825.5	3356.1	3406.7
57.5°	3086.3	3452.5	3555.1	3480.7	3062.7	3018.2	3562.2	3572.9
60°	3317.2	3698.7	3788.7	3706.2	3284.6	3223.3	3690.9	3639.1
62.5°	3445.7	3782.1	3845.4	3756.6	3436.7	3441.8	3719.1	3603.3
65°	3388.2	3571.2	3591.6	3584.3	3397.5	3568.5	3617.7	3438.1
67.5°	3073.9	3037.9	3072.2	3119.6	3061.7	3401.6	3336.7	3078.3
70°	2520.1	2322.3	2390.7	2422.6	2448.8	2927.2	2896.0	2507.2
72.5°	1899.2	1627.0	1681.0	1674.4	1796.1	2347.9	2252.3	1843.5
75°	1345.7	1103.1	1109.9	1107.3	1253.3	1836.9	1630.9	1261.3
77.5°	941.6	799.3	802.9	818.0	842.6	1385.4	1165.2	921.4
80°	647.4	606.6	626.7	628.0	583.9	930.6	860.8	739.4
82.5°	482.2	421.6	416.8	423.8	457.7	754.0	661.5	512.9
85°	394.9	249.6	200.7	251.6	405.6	746.7	439.4	270.6
87.5°	222.4	118.5	53.5	99.3	161.8	494.4	127.0	34.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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