

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: P193879

Luminaire Tested: **GLEON-AF-01-LED-E1-SLR-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193879
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-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA 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: 4903 lumens
Efficiency: N/A
Efficacy: 73.2 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): 67
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

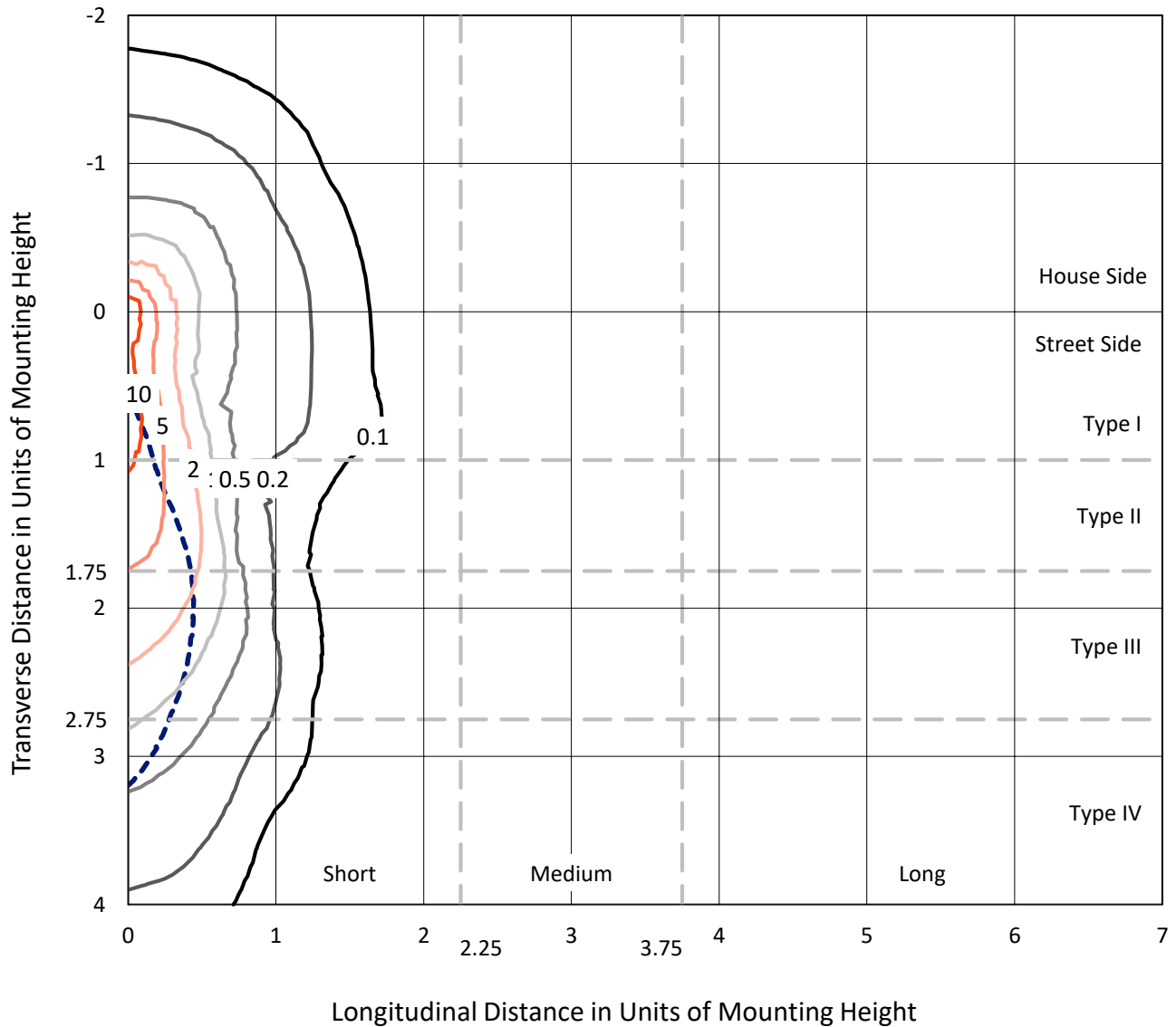


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

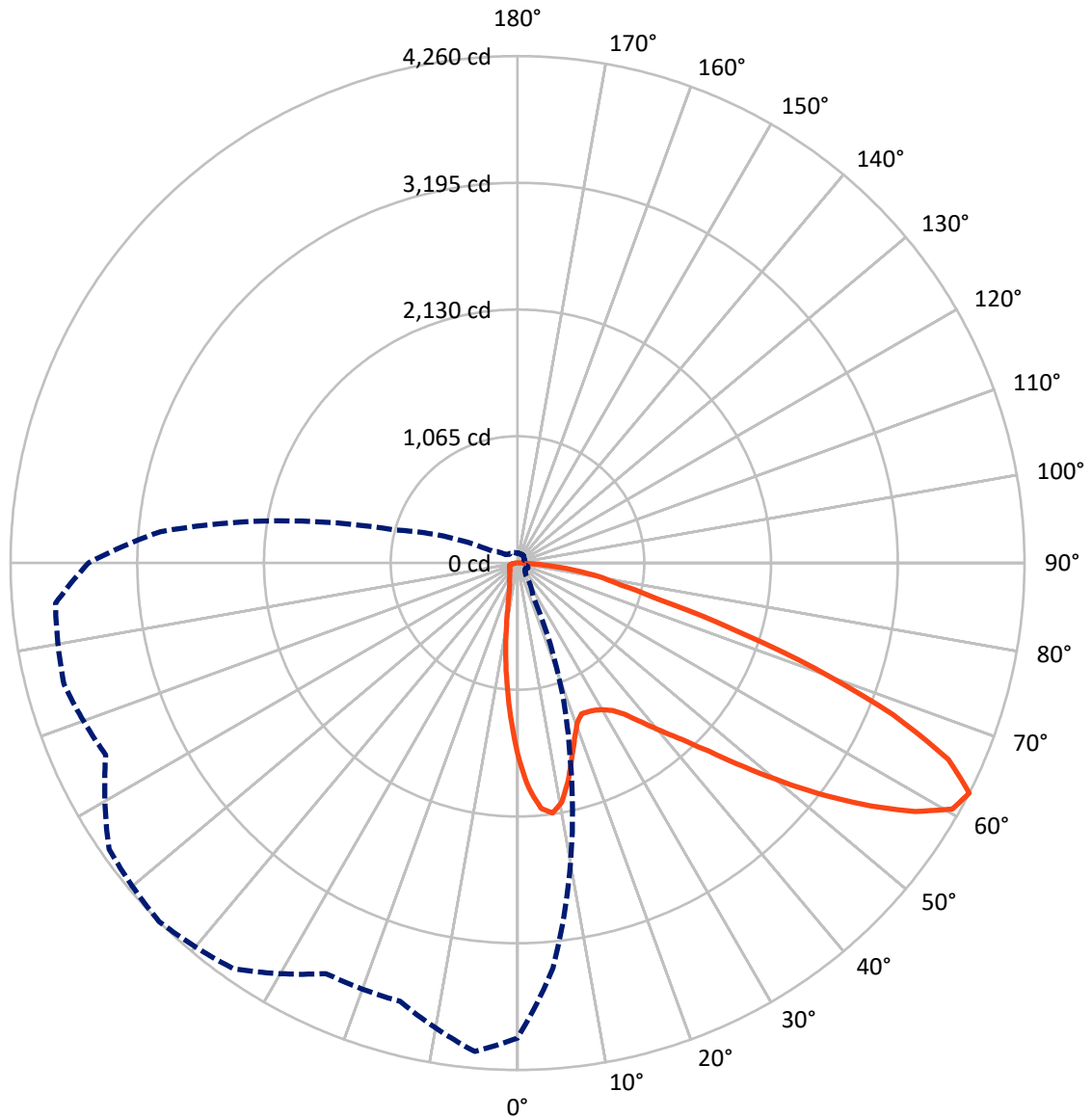


Based on 10 foot mounting height. Maximum calculated value = 16.6 fc
 Type IV - Short - Non-Cutoff

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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	811.4	0.0	811.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	4091.6	0.0	4091.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	4903.0	0.0	4903.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.6	2.5
10°-20°	221.1	4.5
20°-30°	322.4	6.6
30°-40°	496.5	10.1
40°-50°	730.8	14.9
50°-60°	1071.9	21.9
60°-70°	1198.2	24.4
70°-80°	586.6	12.0
80°-90°	154.9	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°	4903.0	100.0
0°-180°	4903.0	100.0



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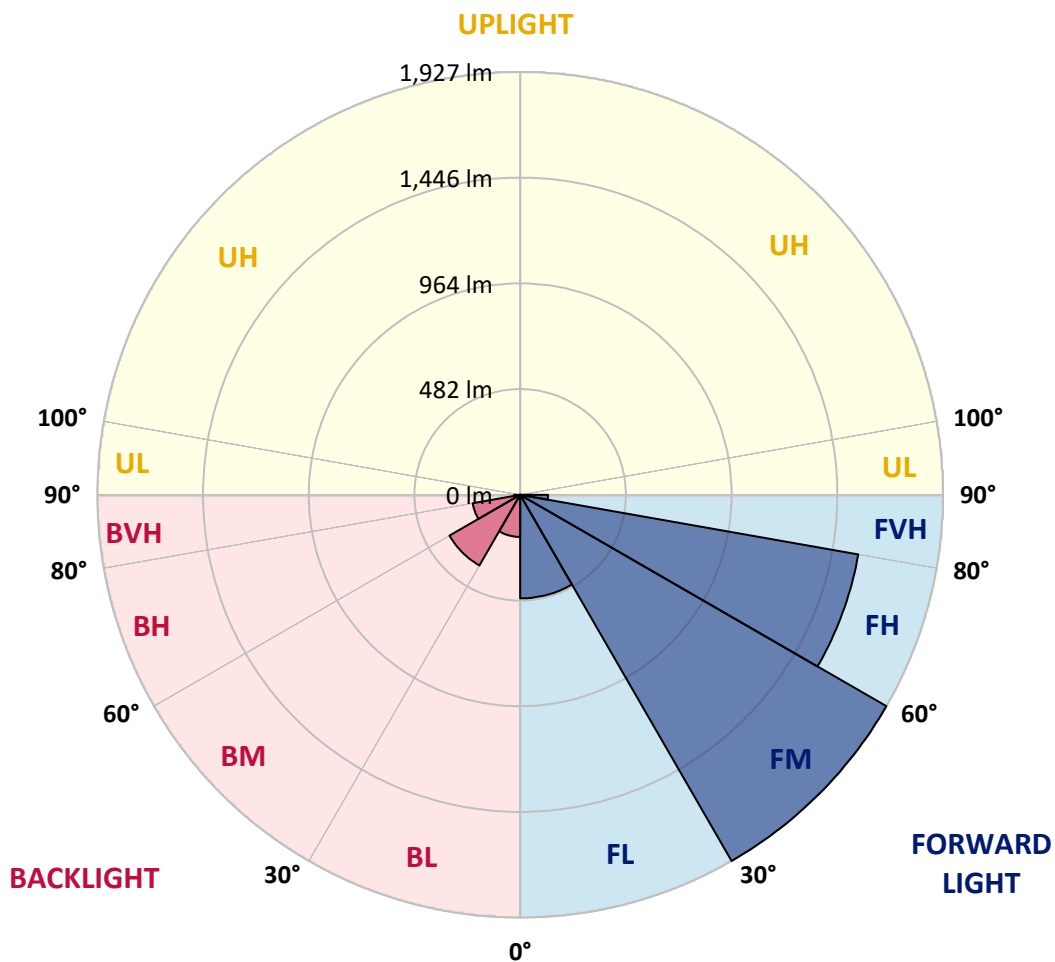
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	472.1	9.6			
FM (30°-60°)	1927.4	39.3			
FH (60°-80°)	1564.9	31.9			G1/1800
FVH (80°-90°)	127.2	2.6			G2/225
BL (0°-30°)	192.0	3.9	B1/500		
BM (30°-60°)	371.8	7.6	B1/1000		
BH (60°-80°)	220.0	4.5	B1/500		G1/500
BVH (80°-90°)	27.7	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°	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5
2.5°	1721.2	1686.1	1627.9	1567.3	1530.4	1487.2	1453.5	1423.9	1364.6	1353.0	1363.5
5°	1618.5	1548.1	1438.5	1327.9	1254.4	1175.4	1113.9	1064.6	989.4	976.2	992.1
7.5°	1453.8	1369.7	1224.7	1083.8	979.7	881.1	814.8	761.9	703.2	677.9	679.5
10°	1311.8	1216.9	1045.5	892.1	807.0	740.4	684.6	630.4	570.9	531.8	521.0
12.5°	1232.3	1123.1	925.5	788.6	709.7	639.6	579.5	521.5	457.9	418.0	406.7
15°	1218.5	1099.9	880.5	722.3	623.4	534.7	463.9	399.2	333.7	301.3	294.6
17.5°	1278.1	1141.4	866.0	663.3	542.3	432.9	345.8	273.6	220.2	204.0	202.7
20°	1392.4	1221.2	864.1	607.8	462.2	333.9	241.0	188.4	164.9	160.4	160.6
22.5°	1552.7	1344.9	887.3	566.0	388.7	249.0	181.1	157.7	148.5	144.2	144.2
25°	1760.3	1515.3	940.6	535.5	324.8	198.9	159.8	145.8	137.2	134.2	134.8
27.5°	1961.3	1681.0	1002.6	511.6	283.0	180.6	151.5	138.8	131.3	128.3	129.6
30°	2118.2	1828.2	1054.4	478.9	261.7	175.5	154.4	141.5	130.7	126.1	126.4
32.5°	2248.1	1957.0	1097.8	455.5	242.8	150.4	133.1	127.5	126.1	120.7	118.1
35°	2414.1	2097.4	1126.9	456.0	233.9	134.2	118.6	108.6	101.3	95.1	95.1
37.5°	2608.7	2258.6	1157.9	462.2	230.7	124.8	113.5	103.5	96.8	90.8	89.8
40°	2801.2	2416.6	1186.2	468.2	228.8	119.1	109.4	100.3	94.1	88.1	86.5
42.5°	2964.8	2546.5	1211.5	471.1	222.4	118.6	106.5	98.1	92.2	85.7	84.1
45°	3085.8	2655.4	1238.7	475.7	215.9	120.7	106.5	97.8	90.6	84.4	82.7
47.5°	3193.9	2783.1	1284.3	475.7	208.1	116.7	110.0	98.1	90.3	83.8	82.5
50°	3338.6	2958.3	1370.5	464.7	197.0	112.4	115.9	97.0	87.9	82.7	81.1
52.5°	3538.0	3182.8	1507.5	445.5	180.0	104.0	115.1	96.5	85.4	80.0	78.2
55°	3773.9	3423.2	1656.8	423.2	154.7	98.1	111.0	95.1	82.7	76.8	74.9
57.5°	3958.0	3588.7	1761.9	388.7	132.6	94.9	98.4	93.8	79.5	73.3	71.7
60°	4031.3	3582.2	1790.7	342.6	121.8	92.2	86.0	105.1	76.8	70.6	68.7
62.5°	3991.7	3416.8	1709.9	310.2	119.4	88.7	80.6	97.3	74.7	68.7	66.0
65°	3808.7	3123.5	1495.6	301.6	126.4	85.2	77.1	76.3	71.7	66.0	63.3
67.5°	3410.0	2685.3	1197.5	302.4	135.3	81.7	73.6	69.8	67.7	63.1	60.6
70°	2777.4	2123.0	892.7	304.6	139.9	77.6	69.8	65.8	63.3	58.8	57.1
72.5°	2042.2	1636.3	648.5	290.5	140.7	73.0	64.7	61.2	58.8	53.9	52.6
75°	1397.2	1251.7	449.8	240.7	122.6	66.6	59.0	55.8	54.2	48.2	47.4
77.5°	1020.7	939.6	287.9	178.7	94.6	58.5	52.0	49.6	48.5	42.0	41.0
80°	819.1	743.3	180.0	122.4	69.3	49.1	43.7	42.3	41.2	34.8	34.0
82.5°	568.2	497.8	115.6	79.5	52.0	38.0	34.5	34.0	32.3	26.4	25.6
85°	299.7	270.3	73.3	54.2	37.7	26.1	24.0	24.0	23.2	17.5	17.0
87.5°	38.3	62.3	37.2	28.3	20.8	11.6	11.6	11.3	12.1	10.0	8.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5
2.5°	1338.7	1351.7	1339.3	1340.1	1353.8	1394.8	1413.4	1428.7	1445.2	1456.0	1460.8
5°	970.3	1000.5	1010.7	1032.3	1064.1	1116.4	1137.1	1152.2	1162.2	1168.1	1170.5
7.5°	663.6	681.9	702.4	737.1	806.4	837.1	850.9	847.4	836.1	832.0	828.0
10°	500.2	493.0	489.2	508.3	564.4	595.4	605.1	595.6	589.5	590.8	597.5
12.5°	387.6	374.9	359.5	357.4	394.3	422.1	428.3	428.8	440.1	450.1	464.9
15°	282.5	281.1	273.6	269.0	290.0	312.6	315.3	320.2	330.4	337.7	350.7
17.5°	199.2	206.5	212.4	215.4	231.3	247.4	244.5	242.0	240.1	240.1	246.3
20°	160.6	165.5	173.0	181.7	197.8	209.2	201.9	192.2	185.2	183.0	183.8
22.5°	144.7	148.5	152.8	160.4	174.9	182.7	174.9	167.9	160.9	158.5	157.7
25°	136.6	141.5	145.5	151.2	162.0	167.4	159.8	154.7	150.4	147.4	145.3
27.5°	132.1	136.4	137.5	140.2	149.3	154.2	150.4	148.2	145.5	142.8	140.2
30°	127.2	126.4	124.5	124.8	132.1	136.9	136.6	137.2	136.9	136.1	135.6
32.5°	116.2	114.5	112.9	114.5	121.3	125.6	125.9	126.9	126.9	126.7	128.8
35°	96.8	99.7	101.6	106.5	114.5	118.3	116.7	114.0	109.2	106.2	105.9
37.5°	89.5	90.0	93.3	100.0	108.9	112.4	110.0	103.8	100.5	100.0	100.8
40°	86.0	86.5	88.4	94.6	103.5	107.0	104.8	100.3	97.3	97.0	98.4
42.5°	83.6	84.1	85.2	89.5	96.8	101.1	101.3	98.1	94.6	94.9	96.2
45°	82.2	82.5	82.2	84.4	91.1	96.2	98.4	96.2	93.3	93.8	95.4
47.5°	81.9	81.1	80.0	80.6	87.6	92.7	95.4	94.6	93.3	93.8	95.1
50°	80.9	79.0	77.6	77.4	84.4	89.8	92.2	92.2	92.7	93.8	95.1
52.5°	77.6	75.5	75.5	74.7	82.2	87.3	88.9	89.2	90.0	91.9	93.8
55°	73.6	72.8	73.6	72.2	80.6	85.4	86.2	86.8	87.3	88.9	91.6
57.5°	70.1	69.0	70.9	70.3	79.2	83.6	83.6	84.6	84.6	86.8	88.9
60°	68.2	66.0	66.8	67.4	77.4	81.9	81.4	82.5	83.0	84.9	86.5
62.5°	65.8	63.9	63.9	65.2	75.2	79.5	79.2	80.0	82.2	82.7	84.4
65°	62.8	62.0	61.2	62.8	73.0	76.8	77.1	78.2	80.0	80.6	81.9
67.5°	59.8	60.1	58.5	60.1	71.2	74.1	74.1	76.3	77.1	78.2	79.5
70°	56.6	56.9	55.5	57.4	69.8	71.2	70.9	73.8	74.4	75.2	76.5
72.5°	52.6	52.6	52.0	54.7	67.7	68.2	67.7	70.1	70.3	71.2	71.7
75°	48.2	48.2	47.7	51.5	66.3	65.0	63.3	65.2	65.8	66.3	66.3
77.5°	42.6	43.1	43.1	47.7	61.7	63.6	58.2	59.3	60.1	60.4	59.6
80°	35.6	36.9	37.5	43.4	51.7	58.8	52.0	52.8	53.1	53.1	52.0
82.5°	27.2	29.6	31.0	37.5	39.6	49.3	45.3	46.1	45.3	43.7	43.1
85°	18.9	22.1	23.7	28.6	29.9	38.0	37.7	37.7	36.1	34.0	33.7
87.5°	10.2	12.1	13.2	17.0	20.5	25.6	27.8	27.0	25.6	24.3	24.5
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5
2.5°	1486.2	1522.8	1581.3	1626.0	1671.1	1714.4	1761.3	1797.2	1827.6	1839.5	1875.6
5°	1195.1	1240.9	1296.1	1395.9	1466.5	1544.4	1634.4	1753.5	1799.3	1862.7	1966.5
7.5°	845.0	886.5	975.4	1056.0	1156.0	1266.2	1387.8	1552.2	1612.3	1713.9	1882.9
10°	631.0	679.2	750.6	818.5	906.7	1019.3	1159.0	1342.8	1415.8	1526.0	1720.6
12.5°	508.3	565.2	640.9	704.8	773.0	852.5	988.1	1189.7	1287.5	1384.0	1580.8
15°	390.5	450.1	520.5	601.6	676.8	762.5	904.5	1125.0	1237.7	1338.2	1506.1
17.5°	270.3	321.3	409.9	494.6	590.8	700.5	881.3	1138.7	1273.2	1389.1	1519.0
20°	191.6	220.7	293.5	391.6	511.6	649.3	877.0	1211.0	1385.9	1518.2	1602.1
22.5°	161.2	172.0	214.3	304.3	442.8	611.0	892.1	1312.3	1537.9	1706.9	1734.4
25°	146.9	153.4	175.5	238.8	381.6	583.3	943.1	1463.2	1726.0	1895.6	1890.7
27.5°	139.1	145.8	160.4	201.6	335.6	566.0	994.0	1642.2	1941.1	2100.4	2040.0
30°	136.6	145.8	161.2	190.0	302.7	538.8	1035.8	1799.3	2106.6	2238.7	2108.0
32.5°	134.8	136.1	143.1	163.9	271.4	507.0	1064.1	1940.3	2268.6	2370.2	2205.8
35°	108.9	115.6	126.9	146.9	253.1	487.8	1064.1	2061.9	2428.1	2503.1	2299.0
37.5°	104.8	110.8	120.7	137.7	242.8	478.4	1042.8	2179.1	2591.2	2653.7	2375.9
40°	102.7	107.5	117.0	130.7	238.5	467.6	1011.8	2282.6	2750.5	2804.7	2447.6
42.5°	101.1	105.4	114.3	126.4	232.9	455.8	986.7	2365.6	2888.8	2933.5	2516.0
45°	100.3	104.8	114.5	128.6	221.5	440.1	978.4	2455.4	3002.5	3041.0	2590.1
47.5°	100.3	105.7	115.9	133.1	208.1	424.0	1004.5	2573.7	3110.0	3128.9	2677.5
50°	99.5	105.4	119.7	128.6	188.4	403.5	1066.0	2722.7	3226.5	3228.6	2788.0
52.5°	97.8	104.8	128.8	125.9	165.8	376.5	1149.0	2914.1	3398.7	3411.6	2961.0
55°	96.0	104.0	126.4	119.7	147.2	344.5	1216.9	3146.7	3640.7	3676.6	3215.4
57.5°	93.5	103.0	122.4	111.0	135.0	303.2	1241.4	3317.0	3809.7	3899.7	3502.2
60°	91.4	102.1	110.5	105.9	127.5	268.4	1194.0	3283.3	3798.1	3992.2	3756.4
62.5°	89.2	103.0	100.8	102.7	124.0	246.1	1070.0	3013.6	3606.0	3896.8	3944.8
65°	86.8	95.7	95.1	100.0	123.2	237.2	887.0	2609.0	3234.6	3595.2	3989.2
67.5°	83.6	88.4	91.1	96.5	125.9	229.4	715.9	2152.2	2718.4	3143.2	3757.4
70°	80.0	84.1	87.1	92.2	124.3	225.9	595.4	1697.2	2157.0	2576.1	3300.1
72.5°	75.5	79.0	81.7	86.5	122.6	224.0	502.9	1366.8	1610.4	1913.6	2683.1
75°	70.1	73.3	75.2	80.0	117.5	205.1	395.4	1156.5	1205.0	1331.2	2137.1
77.5°	63.9	66.3	67.9	73.3	104.0	170.6	286.0	892.1	935.8	966.5	1638.4
80°	56.6	59.0	59.8	65.0	86.2	133.4	186.5	659.0	700.0	707.0	1070.0
82.5°	48.2	50.7	50.7	55.5	70.6	96.0	122.4	451.5	459.5	483.3	756.3
85°	38.8	40.7	40.7	43.1	54.7	71.7	84.1	226.7	224.2	256.0	655.2
87.5°	27.8	29.1	30.5	31.0	39.1	47.4	50.7	69.0	45.5	52.3	420.7
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°	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5
2.5°	1902.8	1918.2	1902.6	1891.3	1842.5	1802.3	1748.7	1721.2
5°	2045.4	2084.5	2071.3	2023.9	1922.0	1807.4	1677.3	1618.5
7.5°	2028.2	2119.0	2121.2	2032.5	1882.4	1713.6	1537.4	1453.8
10°	1893.9	2010.1	2043.3	1957.3	1798.0	1609.3	1407.2	1311.8
12.5°	1744.1	1857.8	1883.2	1853.5	1720.4	1530.9	1325.8	1232.3
15°	1621.5	1672.4	1702.6	1728.5	1653.8	1499.6	1321.2	1218.5
17.5°	1546.8	1541.1	1549.8	1594.8	1607.4	1535.5	1391.3	1278.1
20°	1519.8	1433.3	1431.2	1493.2	1585.6	1620.9	1528.2	1392.4
22.5°	1534.7	1394.5	1376.7	1450.3	1597.2	1744.1	1707.7	1552.7
25°	1585.9	1397.8	1383.5	1454.6	1639.2	1875.4	1901.5	1760.3
27.5°	1666.5	1418.2	1399.4	1472.4	1695.0	1985.6	2092.3	1961.3
30°	1743.0	1453.8	1430.4	1507.5	1746.0	2029.2	2209.3	2118.2
32.5°	1836.0	1520.4	1479.2	1571.9	1809.0	2098.8	2313.6	2248.1
35°	1927.1	1615.3	1564.1	1671.3	1879.4	2185.3	2432.7	2414.1
37.5°	2027.1	1739.2	1696.9	1799.9	1975.6	2267.0	2584.7	2608.7
40°	2133.8	1903.7	1853.5	1987.5	2124.9	2369.4	2743.5	2801.2
42.5°	2241.4	2086.1	2026.3	2162.1	2289.1	2470.5	2879.3	2964.8
45°	2364.5	2284.2	2255.9	2402.8	2446.7	2566.7	2979.6	3085.8
47.5°	2507.9	2509.0	2554.6	2613.3	2605.8	2675.6	3080.4	3193.9
50°	2675.3	2789.6	2890.1	2929.2	2769.6	2792.5	3220.3	3338.6
52.5°	2876.4	3125.1	3249.7	3224.1	2946.2	2935.4	3441.8	3538.0
55°	3127.8	3480.4	3604.1	3585.8	3149.1	3130.0	3717.8	3773.9
57.5°	3418.9	3824.6	3938.3	3855.8	3392.8	3343.5	3946.1	3958.0
60°	3674.7	4097.3	4197.0	4105.7	3638.6	3570.7	4088.7	4031.3
62.5°	3817.0	4189.8	4259.8	4161.5	3807.0	3812.7	4120.0	3991.7
65°	3753.4	3956.1	3978.7	3970.6	3763.6	3953.1	4007.6	3808.7
67.5°	3405.2	3365.3	3403.3	3455.8	3391.7	3768.2	3696.3	3410.0
70°	2791.7	2572.6	2648.3	2683.7	2712.8	3242.6	3208.1	2777.4
72.5°	2103.9	1802.3	1862.1	1854.9	1989.6	2600.9	2495.0	2042.2
75°	1490.7	1222.0	1229.6	1226.6	1388.3	2034.9	1806.6	1397.2
77.5°	1043.1	885.4	889.4	906.1	933.4	1534.7	1290.8	1020.7
80°	717.2	671.9	694.3	695.6	646.9	1030.9	953.6	819.1
82.5°	534.2	467.1	461.7	469.5	507.0	835.3	732.8	568.2
85°	437.4	276.5	222.4	278.7	449.3	827.2	486.8	299.7
87.5°	246.3	131.3	59.3	110.0	179.2	547.7	140.7	38.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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