

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: P269023

Luminaire Tested: **GLEON-AF-01-LED-E1-T2R-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269023
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)
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-T2R-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4558 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full 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

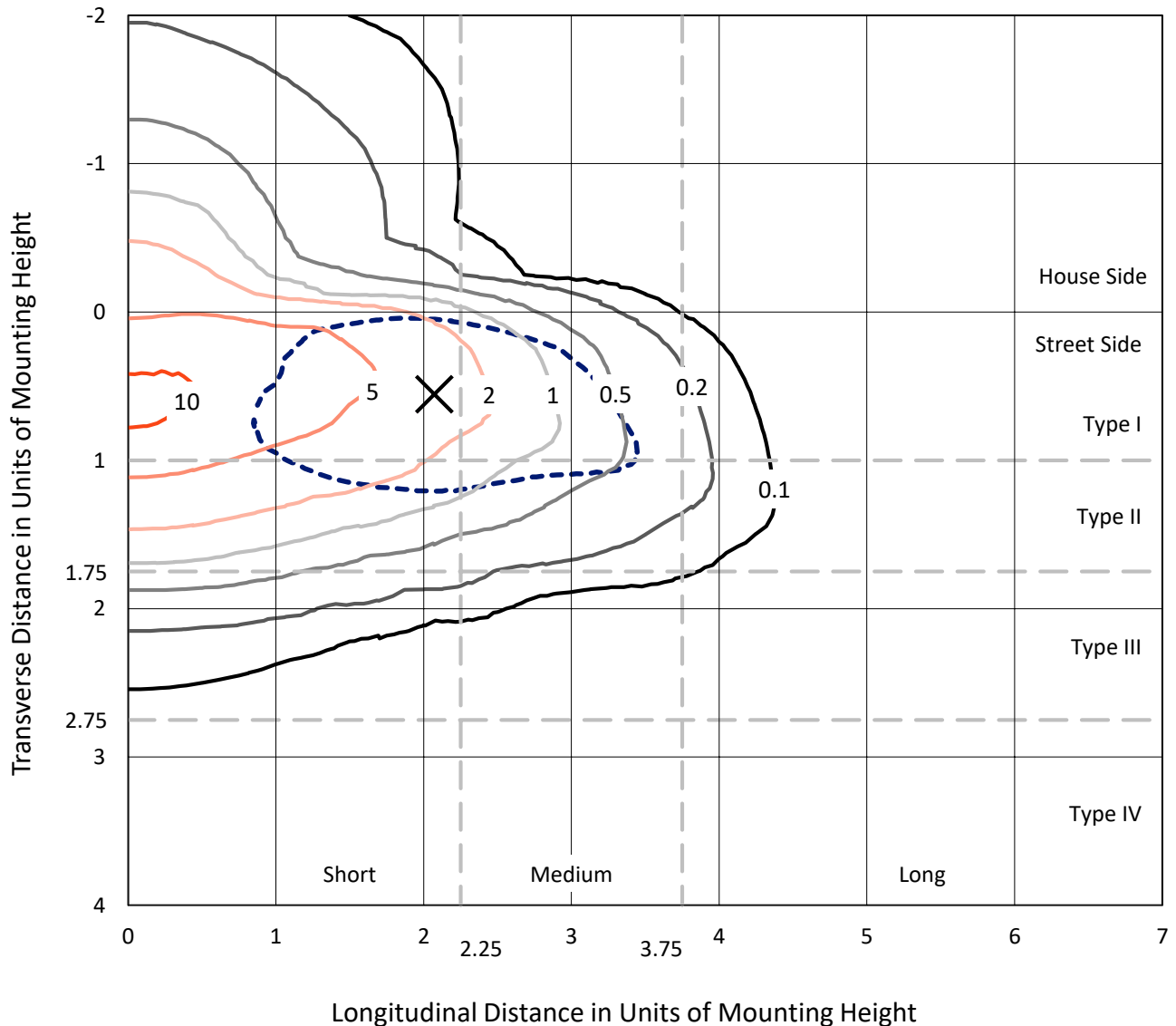


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Iso-Footcandle Lines of Horizontal Illumination

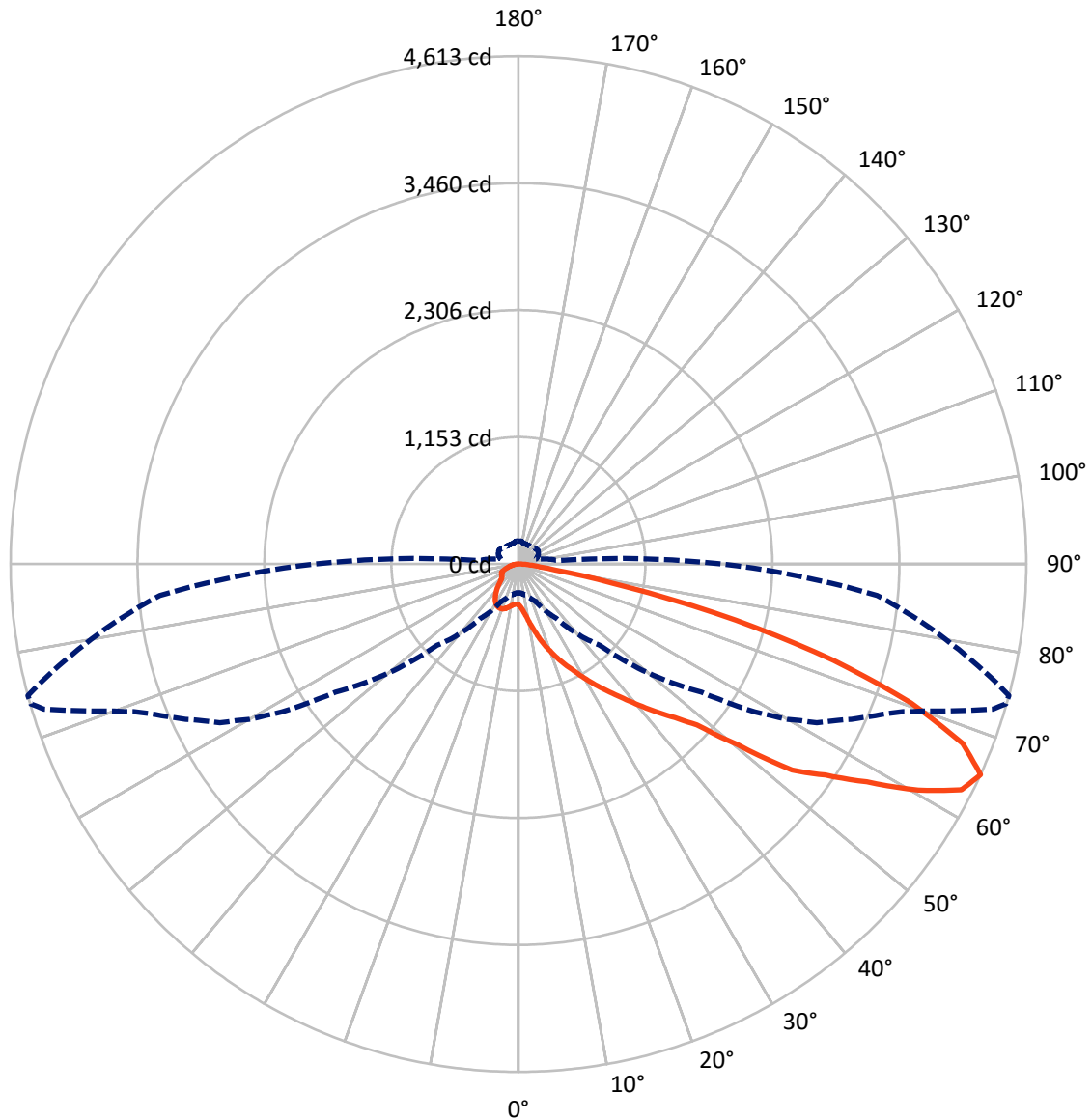
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	702.7	0.0	702.7
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	3855.3	0.0	3855.3
	% Fixture	84.6	0.0	84.6
Total	Lumens	4558.0	0.0	4558.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.8	1.0
10°-20°	178.9	3.9
20°-30°	367.0	8.1
30°-40°	617.5	13.5
40°-50°	853.2	18.7
50°-60°	1065.1	23.4
60°-70°	958.5	21.0
70°-80°	401.8	8.8
80°-90°	70.2	1.5
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°	4558.0	100.0
0°-180°	4558.0	100.0

Coefficient of Utilization



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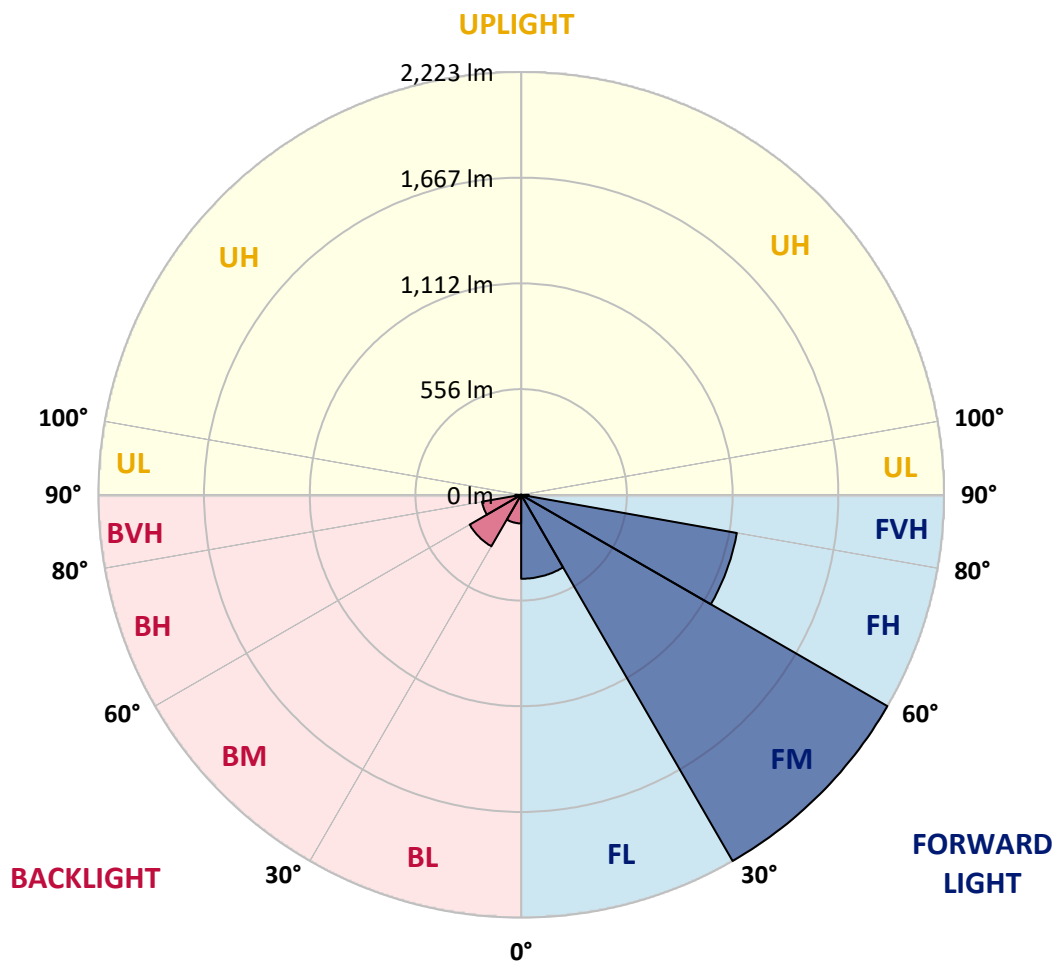
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	441.4	9.7			
FM (30°-60°)	2223.0	48.8			
FH (60°-80°)	1151.3	25.3			G1/1800
FVH (80°-90°)	39.4	0.9			G1/100
BL (0°-30°)	150.3	3.3	B1/500		
BM (30°-60°)	312.8	6.9	B1/1000		
BH (60°-80°)	208.9	4.6	B1/500		G1/500
BVH (80°-90°)	30.7	0.7			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	370.5	370.5	370.5	370.5	370.5	370.5	370.5	370.5	370.5	370.5	370.5
2.5°	470.4	465.1	466.4	457.7	447.3	433.4	418.2	417.9	418.2	416.6	411.0
5°	652.2	645.9	643.5	624.1	595.7	555.2	511.0	506.4	504.4	499.5	488.0
7.5°	784.8	781.4	777.8	763.1	737.1	691.9	632.8	622.6	613.0	610.6	597.6
10°	870.5	869.6	861.8	858.1	841.8	802.5	745.0	735.3	724.7	721.0	707.4
12.5°	938.3	938.0	934.3	935.5	921.4	892.9	843.2	834.4	826.7	815.5	805.8
15°	985.1	985.4	990.7	996.7	994.6	975.4	928.8	924.9	918.2	910.4	898.9
17.5°	1023.4	1024.5	1030.1	1041.1	1053.1	1051.6	1014.6	1011.4	1005.6	995.1	988.9
20°	1110.1	1114.3	1103.5	1103.5	1104.7	1110.7	1093.0	1090.4	1082.2	1076.6	1071.8
22.5°	1256.6	1261.4	1237.1	1212.3	1187.9	1170.1	1152.4	1155.7	1150.1	1146.2	1143.5
25°	1447.0	1450.7	1411.1	1369.2	1319.7	1254.9	1211.2	1209.2	1206.2	1203.8	1202.6
27.5°	1626.0	1627.5	1590.2	1528.9	1471.3	1378.4	1270.7	1268.3	1264.6	1260.1	1256.3
30°	1779.3	1778.7	1740.3	1681.8	1620.3	1517.2	1361.1	1353.7	1343.0	1330.7	1321.1
32.5°	1912.0	1911.2	1869.2	1808.6	1743.8	1654.9	1485.0	1469.8	1453.0	1429.1	1414.7
35°	2016.2	2015.8	1976.2	1913.0	1838.7	1784.7	1626.9	1608.3	1586.9	1554.8	1532.6
37.5°	2055.9	2055.9	2033.6	1990.5	1924.8	1887.7	1784.7	1762.1	1739.3	1702.8	1677.9
40°	2032.8	2033.1	2037.8	2029.9	1998.0	1969.4	1931.7	1918.4	1898.7	1865.9	1839.8
42.5°	1955.3	1957.6	1989.0	2027.7	2043.7	2039.2	2062.2	2056.2	2042.3	2017.1	1996.5
45°	1857.1	1864.4	1898.9	1971.9	2056.4	2099.3	2171.7	2172.3	2169.6	2156.1	2140.1
47.5°	1722.2	1732.7	1778.1	1876.6	2026.7	2157.8	2282.8	2288.5	2293.9	2285.1	2277.8
50°	1543.2	1555.4	1623.6	1754.4	1966.0	2218.5	2492.6	2518.9	2543.6	2540.5	2545.4
52.5°	1351.4	1365.9	1449.3	1595.0	1861.8	2232.5	2626.9	2669.8	2712.7	2747.8	2785.1
55°	1178.3	1170.6	1254.2	1407.5	1690.5	2169.2	2747.5	2799.2	2847.1	2890.2	2934.8
57.5°	943.8	956.5	1040.2	1192.1	1463.8	1990.9	2830.5	2906.2	2975.0	3046.4	3109.5
60°	690.0	702.7	793.6	947.5	1217.7	1720.3	2767.0	2881.9	2992.1	3101.5	3186.8
62.5°	416.6	426.1	506.1	652.8	938.9	1399.5	2484.4	2635.1	2797.3	2928.0	3059.0
65°	259.3	264.7	294.3	375.0	603.0	1044.8	2029.9	2194.1	2368.8	2534.7	2670.8
67.5°	212.3	214.2	219.6	237.0	331.1	681.4	1510.8	1656.2	1813.9	1974.5	2125.8
70°	190.9	189.6	189.6	190.7	212.3	366.2	989.2	1083.8	1215.2	1354.9	1493.3
72.5°	172.4	171.0	168.7	165.5	173.3	223.5	511.2	582.7	677.4	801.5	934.1
75°	154.9	153.3	150.3	146.2	151.6	168.7	245.4	275.5	321.7	387.7	461.6
77.5°	136.8	134.7	132.1	128.9	136.0	131.2	143.9	154.7	172.4	193.6	221.3
80°	116.3	114.4	113.5	112.0	120.2	99.9	101.6	108.2	118.7	130.1	143.0
82.5°	91.1	91.1	94.5	95.1	104.3	71.9	75.9	81.7	87.1	93.2	99.3
85°	59.9	60.4	72.0	76.5	82.1	48.2	57.0	58.8	63.2	66.7	69.3
87.5°	18.8	20.3	43.9	48.8	47.3	27.4	34.9	35.8	38.8	41.2	43.4
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	370.5	370.5	370.5	370.5	370.5	370.5	370.5	370.5	370.5	370.5	370.5
2.5°	411.0	408.4	406.0	405.9	404.1	401.7	402.6	398.8	399.0	397.2	395.1
5°	483.3	481.5	472.9	470.5	464.1	459.9	459.4	450.7	449.6	444.7	439.2
7.5°	587.2	581.7	569.5	563.7	552.7	544.6	540.6	529.2	523.6	510.6	504.8
10°	696.1	689.1	674.2	666.1	655.5	642.3	635.1	618.6	612.0	600.2	586.0
12.5°	797.2	790.0	774.7	768.5	754.4	740.5	732.7	714.0	705.4	686.5	675.3
15°	890.6	883.5	870.1	863.6	849.5	838.2	827.8	809.3	799.3	781.6	767.0
17.5°	981.2	973.7	961.9	956.2	942.6	931.0	919.8	902.2	892.0	874.4	861.2
20°	1065.3	1059.7	1051.2	1043.6	1029.9	1019.3	1006.0	990.9	976.2	963.3	950.8
22.5°	1138.7	1136.5	1127.5	1124.0	1112.3	1103.3	1091.6	1076.8	1066.2	1049.8	1038.1
25°	1201.9	1201.3	1196.9	1195.9	1187.6	1179.0	1176.4	1164.2	1154.4	1139.9	1127.9
27.5°	1256.3	1256.9	1255.8	1258.9	1256.6	1252.7	1253.0	1249.0	1243.3	1231.2	1220.6
30°	1316.6	1313.2	1315.2	1319.5	1320.8	1321.1	1328.4	1330.7	1330.2	1322.2	1317.0
32.5°	1402.1	1393.9	1386.4	1385.6	1389.9	1391.7	1403.8	1410.1	1415.5	1417.4	1418.2
35°	1510.9	1494.6	1478.9	1470.4	1463.2	1465.0	1473.7	1483.9	1495.7	1503.9	1513.6
37.5°	1648.2	1628.2	1600.4	1580.5	1575.5	1564.8	1570.3	1578.3	1590.0	1602.8	1619.6
40°	1814.5	1784.2	1753.0	1726.5	1712.3	1692.4	1692.2	1690.8	1697.8	1709.7	1733.5
42.5°	1974.7	1947.6	1914.5	1886.9	1868.4	1841.7	1836.3	1822.3	1825.5	1836.0	1859.0
45°	2124.6	2102.4	2082.1	2050.2	2034.4	2005.7	1996.7	1980.0	1970.8	1975.6	1998.5
47.5°	2269.7	2255.6	2234.4	2213.8	2201.7	2176.0	2164.2	2152.3	2140.7	2140.1	2164.2
50°	2552.9	2545.3	2520.3	2498.6	2504.6	2473.0	2475.0	2443.0	2457.6	2459.2	2510.0
52.5°	2818.8	2845.2	2863.7	2886.3	2901.0	2903.9	2913.6	2928.0	2945.5	2979.9	3027.1
55°	2971.1	3004.2	3023.3	3040.7	3069.1	3075.2	3091.3	3110.6	3125.8	3164.6	3204.7
57.5°	3152.2	3213.4	3243.2	3270.5	3308.9	3323.6	3350.7	3371.6	3391.5	3437.4	3485.8
60°	3263.7	3338.3	3398.9	3442.3	3490.5	3524.9	3565.7	3598.5	3645.1	3700.2	3772.3
62.5°	3175.0	3284.7	3365.1	3439.5	3504.8	3570.9	3629.4	3690.6	3761.5	3844.7	3956.4
65°	2821.8	2933.4	3071.2	3148.5	3235.1	3336.8	3425.7	3524.9	3621.3	3742.7	3907.8
67.5°	2271.8	2401.3	2556.2	2634.2	2733.6	2847.4	2947.0	3068.3	3180.9	3327.9	3532.0
70°	1637.5	1805.1	1935.4	2016.8	2132.8	2250.0	2346.2	2487.2	2580.4	2731.0	2942.3
72.5°	1036.9	1169.1	1328.8	1431.2	1534.3	1653.1	1751.3	1873.1	1960.0	2097.3	2288.5
75°	557.5	655.0	795.2	892.6	1003.0	1104.3	1219.5	1301.1	1365.5	1473.8	1629.3
77.5°	261.2	320.5	391.7	466.4	541.3	619.4	695.3	761.4	788.9	851.1	942.9
80°	158.6	177.8	198.4	221.5	252.9	278.0	311.5	335.6	337.5	357.0	385.2
82.5°	105.9	113.0	119.4	125.1	133.0	139.3	146.6	154.9	158.3	163.0	171.9
85°	72.3	75.7	77.1	80.7	79.8	81.9	84.8	87.6	89.1	88.9	93.0
87.5°	44.5	46.2	47.0	47.9	47.3	46.4	47.7	49.1	49.6	48.2	48.8
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	370.5	370.5	370.5	370.5	370.5	370.5	370.5	370.5	370.5	370.5	370.5
2.5°	395.4	393.5	391.7	390.3	389.9	378.4	373.4	370.2	363.4	357.6	353.2
5°	436.2	432.2	428.9	425.0	422.8	393.9	383.3	376.0	364.0	356.8	350.3
7.5°	501.9	490.4	483.6	476.1	469.6	417.4	399.9	388.5	371.7	362.2	354.9
10°	576.3	564.3	553.9	542.1	532.1	448.8	423.3	405.6	383.3	371.1	361.4
12.5°	659.3	647.7	634.3	619.4	606.4	488.4	453.0	427.9	397.4	381.1	367.3
15°	757.5	737.0	720.8	703.6	688.5	535.8	487.8	452.8	412.3	390.0	372.0
17.5°	848.7	827.2	805.2	790.0	772.5	589.2	522.8	478.3	424.5	396.0	372.7
20°	937.8	914.4	895.3	874.9	856.8	644.4	560.1	500.7	432.5	396.2	367.3
22.5°	1016.3	1001.7	980.5	958.5	939.9	699.6	594.9	519.7	435.6	391.1	358.0
25°	1105.6	1090.2	1064.2	1045.6	1025.0	756.0	629.4	534.4	433.8	381.9	343.2
27.5°	1201.0	1183.7	1157.2	1137.9	1112.8	814.5	660.9	544.9	427.4	366.8	323.6
30°	1300.4	1284.8	1258.6	1239.0	1213.8	876.3	695.9	552.1	414.5	345.8	300.8
32.5°	1407.3	1394.1	1368.2	1347.7	1320.8	943.4	728.7	554.3	394.9	321.1	276.6
35°	1508.7	1499.6	1477.8	1458.6	1430.6	1006.9	763.5	553.1	371.4	293.8	254.6
37.5°	1622.8	1617.4	1606.6	1582.3	1547.9	1093.0	805.2	548.7	343.1	266.8	237.7
40°	1744.5	1744.9	1733.3	1716.7	1684.7	1197.4	854.7	539.8	311.9	243.1	222.4
42.5°	1873.2	1880.0	1874.4	1862.5	1831.9	1302.6	914.0	529.0	281.8	220.1	207.2
45°	2020.8	2029.0	2037.6	2020.2	1990.5	1441.6	992.2	515.0	249.2	200.9	197.0
47.5°	2191.1	2204.0	2211.7	2211.9	2182.3	1613.7	1119.1	506.6	220.3	187.9	192.0
50°	2550.3	2554.4	2572.7	2604.6	2581.8	2012.3	1340.6	501.3	200.6	179.9	188.4
52.5°	3067.8	3112.8	3144.6	3142.5	3111.4	2265.3	1462.7	474.7	189.1	176.8	186.6
55°	3278.6	3334.9	3393.5	3409.1	3385.0	2481.2	1578.1	447.9	183.3	179.0	187.2
57.5°	3559.4	3654.5	3735.0	3768.7	3733.8	2757.5	1730.0	433.8	181.6	185.0	191.3
60°	3887.7	4005.1	4110.7	4171.5	4171.5	3075.2	1887.5	428.0	179.3	193.6	198.3
62.5°	4098.3	4270.8	4430.4	4519.6	4516.9	3296.3	1957.3	408.2	173.9	199.6	207.8
65°	4099.2	4304.1	4507.6	4607.8	4612.9	3269.1	1842.0	360.5	164.0	200.4	217.2
67.5°	3757.5	3976.1	4213.2	4325.2	4351.0	3009.3	1594.5	296.4	147.9	191.8	220.8
70°	3173.5	3386.9	3629.0	3738.9	3784.9	2565.4	1284.2	228.4	127.1	172.8	213.5
72.5°	2500.3	2709.5	2878.0	2958.5	2994.2	1960.9	935.2	172.6	104.3	145.6	194.4
75°	1770.1	1927.3	2016.8	2034.7	2040.2	1182.0	568.3	128.4	85.9	113.2	164.2
77.5°	999.0	1066.4	1059.0	1067.0	1000.6	456.2	247.5	91.8	70.7	86.1	127.3
80°	390.0	402.1	377.7	370.2	339.6	169.8	109.1	64.0	56.6	65.1	89.1
82.5°	171.9	177.5	172.4	173.6	166.1	87.6	65.3	46.4	43.2	47.7	59.1
85°	94.7	96.5	95.9	98.9	94.7	34.9	31.1	28.4	30.3	32.3	38.0
87.5°	46.2	46.6	45.0	47.5	46.0	17.6	15.4	16.2	17.6	18.1	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):

	135°	145°	155°	165°	175°	180°
0°	370.5	370.5	370.5	370.5	370.5	370.5
2.5°	349.9	348.3	348.5	348.1	347.1	347.1
5°	346.9	345.2	345.2	344.8	343.7	344.0
7.5°	349.9	347.1	346.0	344.5	343.1	343.1
10°	353.4	348.5	345.4	342.9	340.8	340.8
12.5°	356.0	348.3	343.2	339.7	337.9	337.9
15°	356.8	346.7	339.7	335.6	334.0	333.7
17.5°	354.0	340.8	332.5	327.7	325.5	324.8
20°	345.4	330.2	320.2	314.8	311.7	310.6
22.5°	332.5	315.1	303.4	297.7	293.8	293.1
25°	314.3	295.8	284.1	278.7	276.6	275.9
27.5°	293.1	275.9	266.0	262.6	260.6	260.4
30°	273.2	258.4	251.2	248.6	246.1	245.7
32.5°	254.4	245.1	242.3	238.6	233.0	232.3
35°	240.9	240.0	238.2	230.0	223.0	221.2
37.5°	232.8	240.7	230.9	214.7	209.8	209.2
40°	228.0	234.1	217.0	211.5	211.9	211.5
42.5°	217.2	223.5	217.5	214.9	216.6	217.0
45°	206.5	213.3	220.8	218.9	223.0	223.0
47.5°	200.4	210.8	220.4	220.4	226.6	228.7
50°	193.6	208.6	217.0	220.1	224.8	223.0
52.5°	193.0	205.0	212.1	217.5	219.6	217.7
55°	193.8	201.8	207.1	213.2	215.8	216.0
57.5°	194.7	200.2	203.6	206.5	214.2	214.2
60°	196.8	198.6	200.6	202.2	212.3	212.4
62.5°	200.2	197.2	196.8	198.3	211.2	210.4
65°	205.6	195.0	191.8	193.2	210.2	207.6
67.5°	213.0	191.8	185.5	186.6	209.2	203.6
70°	219.6	186.6	177.8	176.6	201.1	191.2
72.5°	220.3	180.6	166.9	163.8	174.7	165.3
75°	209.5	176.4	155.0	145.6	144.4	143.0
77.5°	188.7	174.1	141.4	126.4	123.8	124.8
80°	157.9	165.3	124.8	107.0	121.0	119.6
82.5°	117.9	145.9	105.9	94.7	94.5	83.5
85°	65.5	113.6	86.2	71.0	49.3	47.9
87.5°	18.3	63.2	60.4	40.2	27.4	28.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

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