

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: P269022

Luminaire Tested: **GLEON-AF-01-LED-E1-T2R-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269022
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-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3716.9 lumens
Efficiency: N/A
Efficacy: 109.3 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): 34
Input Voltage (V): NR
Input Current (A_{in}): 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

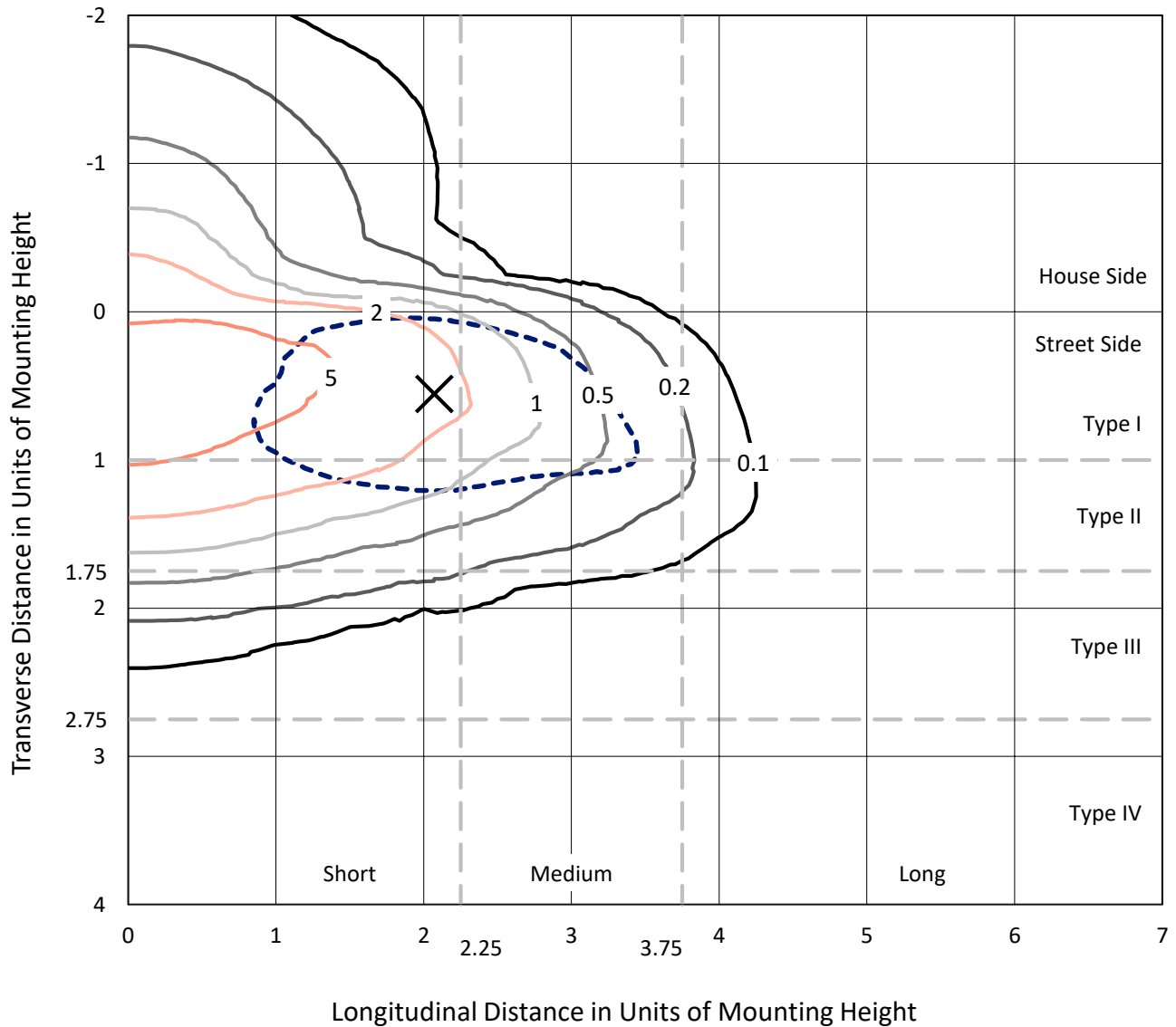


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

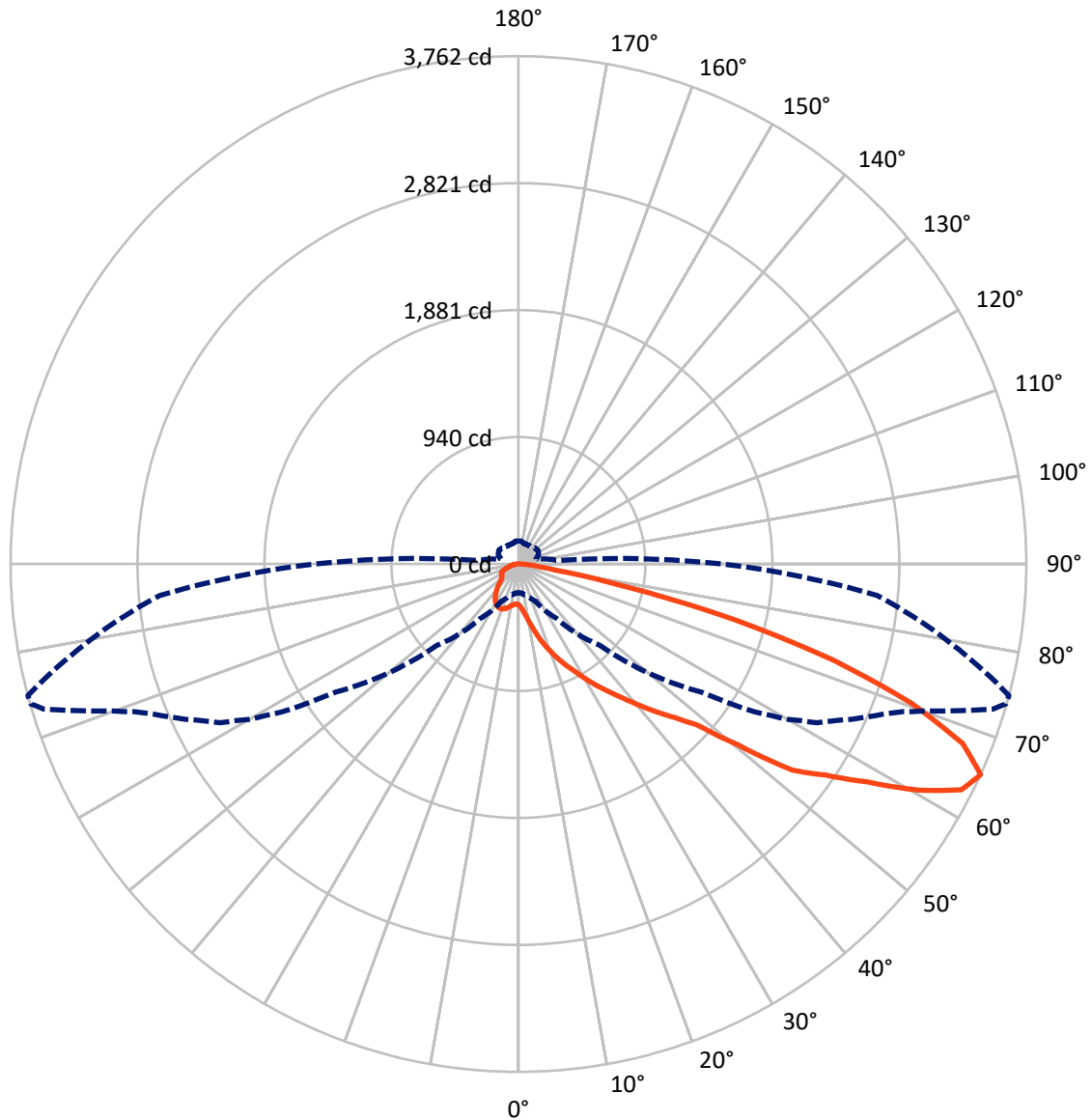


Based on 10 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - Full Cutoff

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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	573.1	0.0	573.1
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	3143.8	0.0	3143.8
	% Fixture	84.6	0.0	84.6
Total	Lumens	3716.9	0.0	3716.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.3	1.0
10°-20°	145.9	3.9
20°-30°	299.3	8.1
30°-40°	503.6	13.5
40°-50°	695.8	18.7
50°-60°	868.5	23.4
60°-70°	781.6	21.0
70°-80°	327.6	8.8
80°-90°	57.2	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°	3716.9	100.0
0°-180°	3716.9	100.0



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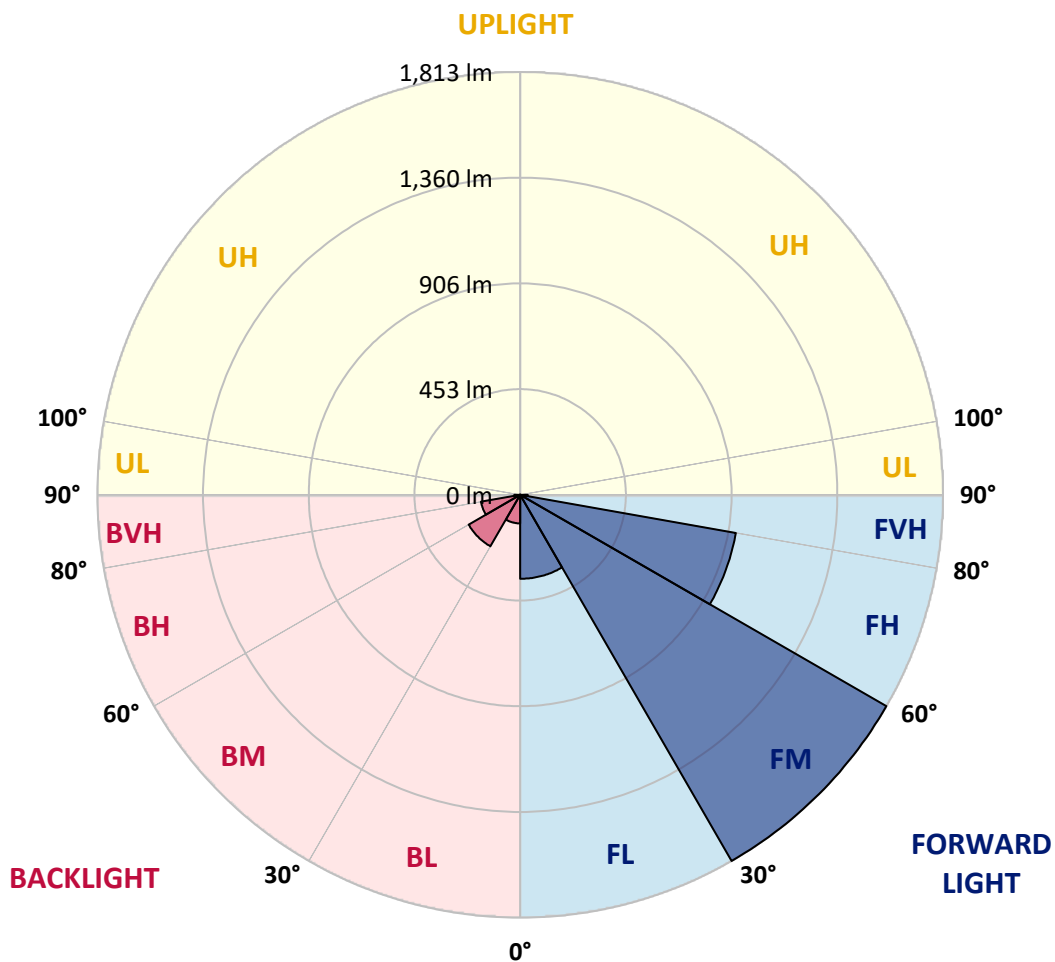
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	360.0	9.7			
FM	(30°-60°)	1812.8	48.8			
FH	(60°-80°)	938.9	25.3			G1/1800
FVH	(80°-90°)	32.2	0.9			G1/100
BL	(0°-30°)	122.6	3.3	B1/500		
BM	(30°-60°)	255.1	6.9	B1/1000		
BH	(60°-80°)	170.4	4.6	B1/500		G1/500
BVH	(80°-90°)	25.1	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°	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1
2.5°	383.5	379.4	380.3	373.3	364.7	353.5	340.9	340.7	340.9	339.6	335.2
5°	531.8	526.8	524.8	509.0	485.8	452.7	416.8	413.0	411.3	407.3	397.9
7.5°	640.0	637.2	634.3	622.3	601.1	564.1	515.9	507.7	499.7	497.9	487.3
10°	709.9	709.1	702.8	699.7	686.5	654.4	607.4	599.6	590.9	587.9	576.8
12.5°	765.0	764.9	761.9	762.8	751.4	728.2	687.7	680.5	674.2	665.0	657.1
15°	803.3	803.4	807.8	812.7	811.0	795.4	757.5	754.1	748.7	742.4	733.0
17.5°	834.5	835.5	840.0	849.0	858.7	857.4	827.3	824.7	820.1	811.3	806.5
20°	905.3	908.6	899.8	899.8	900.9	905.8	891.3	889.1	882.5	877.9	874.1
22.5°	1024.7	1028.6	1008.7	988.6	968.6	954.2	939.7	942.4	937.9	934.6	932.4
25°	1180.0	1183.0	1150.8	1116.7	1076.2	1023.3	987.6	986.1	983.6	981.7	980.6
27.5°	1326.0	1327.2	1296.8	1246.8	1199.9	1124.0	1036.3	1034.3	1031.3	1027.7	1024.4
30°	1450.9	1450.6	1419.2	1371.5	1321.1	1237.2	1109.9	1103.9	1095.2	1085.2	1077.3
32.5°	1559.1	1558.5	1524.2	1474.7	1421.9	1349.6	1210.9	1198.6	1184.9	1165.3	1153.6
35°	1644.2	1643.9	1611.5	1559.9	1499.5	1455.3	1326.6	1311.5	1294.1	1267.9	1249.8
37.5°	1676.3	1676.3	1658.4	1623.1	1569.6	1539.3	1455.3	1437.0	1418.3	1388.6	1368.2
40°	1657.6	1657.9	1661.9	1655.2	1629.3	1606.0	1575.3	1564.4	1548.3	1521.5	1500.3
42.5°	1594.4	1596.4	1622.1	1653.5	1666.5	1662.9	1681.6	1676.7	1665.5	1644.9	1628.0
45°	1514.5	1520.3	1548.5	1608.0	1677.0	1711.9	1770.9	1771.4	1769.3	1758.3	1745.1
47.5°	1404.4	1412.9	1450.0	1530.4	1652.6	1759.6	1861.5	1866.1	1870.6	1863.4	1857.4
50°	1258.4	1268.4	1324.0	1430.6	1603.2	1809.0	2032.7	2054.2	2074.1	2071.8	2075.8
52.5°	1102.0	1113.8	1181.9	1300.7	1518.2	1820.4	2142.1	2177.1	2212.0	2240.8	2271.3
55°	960.8	954.5	1022.7	1147.8	1378.5	1768.9	2240.5	2282.7	2321.7	2357.0	2393.2
57.5°	769.7	780.1	848.3	972.0	1193.7	1623.4	2308.1	2369.9	2426.1	2484.3	2535.6
60°	562.6	572.9	647.0	772.7	992.9	1402.9	2256.5	2350.1	2439.9	2529.1	2598.7
62.5°	339.6	347.5	412.7	532.3	765.6	1141.2	2025.9	2148.7	2281.1	2387.7	2494.5
65°	211.6	215.9	239.9	305.8	491.7	852.0	1655.2	1789.2	1931.6	2067.0	2178.0
67.5°	173.2	174.7	179.1	193.1	270.0	555.6	1232.0	1350.6	1479.1	1610.1	1733.5
70°	155.6	154.7	154.7	155.5	173.2	298.7	806.6	883.8	991.0	1104.8	1217.7
72.5°	140.6	139.4	137.6	134.9	141.3	182.3	417.0	475.2	552.4	653.5	761.8
75°	126.3	125.0	122.6	119.3	123.6	137.6	200.2	224.7	262.3	316.2	376.5
77.5°	111.5	109.8	107.6	105.2	110.9	107.0	117.4	126.1	140.6	157.8	180.5
80°	94.9	93.2	92.5	91.3	97.9	81.4	82.9	88.4	96.7	106.1	116.6
82.5°	74.2	74.2	77.1	77.6	85.0	58.6	62.0	66.7	71.1	75.9	80.9
85°	48.9	49.2	58.7	62.4	67.1	39.4	46.4	48.0	51.6	54.3	56.5
87.5°	15.4	16.4	35.9	39.7	38.5	22.4	28.4	29.3	31.7	33.5	35.4
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°	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1
2.5°	335.2	333.0	331.0	330.9	329.5	327.6	328.3	325.2	325.5	323.8	322.1
5°	394.0	392.6	385.6	383.7	378.5	375.1	374.6	367.4	366.6	362.6	358.2
7.5°	478.8	474.2	464.5	459.8	450.7	444.0	440.9	431.5	427.0	416.5	411.7
10°	567.6	561.9	549.8	543.0	534.5	523.7	518.0	504.4	499.1	489.4	477.8
12.5°	650.1	644.3	631.8	626.7	615.2	603.8	597.5	582.1	575.3	559.9	550.7
15°	726.2	720.4	709.5	704.2	692.9	683.5	675.0	660.0	651.8	637.3	625.4
17.5°	800.1	793.9	784.5	779.6	768.6	759.1	749.9	735.7	727.4	713.1	702.4
20°	868.8	864.2	857.3	851.0	839.8	831.2	820.3	808.0	796.1	785.5	775.2
22.5°	928.6	926.8	919.3	916.6	907.1	899.7	890.2	878.1	869.4	856.1	846.6
25°	980.1	979.5	976.1	975.2	968.6	961.5	959.3	949.2	941.3	929.6	919.8
27.5°	1024.4	1025.0	1024.1	1026.6	1024.7	1021.6	1021.8	1018.5	1013.8	1004.0	995.4
30°	1073.7	1070.9	1072.4	1076.0	1077.0	1077.3	1083.1	1085.2	1084.8	1078.2	1074.1
32.5°	1143.4	1136.6	1130.4	1130.0	1133.5	1134.9	1144.8	1149.9	1154.2	1155.8	1156.6
35°	1232.1	1218.8	1206.0	1199.1	1193.0	1194.7	1201.8	1210.0	1219.7	1226.4	1234.4
37.5°	1344.0	1327.8	1305.1	1288.9	1284.8	1276.0	1280.5	1287.1	1296.6	1306.9	1320.7
40°	1479.7	1455.0	1429.5	1408.0	1396.3	1380.2	1379.9	1378.8	1384.6	1394.2	1413.6
42.5°	1610.2	1588.3	1561.2	1538.6	1523.5	1501.8	1497.5	1486.1	1488.8	1497.1	1516.0
45°	1732.6	1714.4	1697.8	1671.8	1659.0	1635.6	1628.2	1614.7	1607.1	1611.0	1629.7
47.5°	1851.0	1839.3	1822.1	1805.1	1795.4	1774.4	1764.9	1755.2	1745.5	1745.1	1764.9
50°	2081.7	2075.5	2055.2	2037.5	2042.3	2016.7	2018.2	1992.3	2003.9	2005.3	2046.8
52.5°	2298.7	2320.1	2335.2	2353.6	2365.6	2368.0	2375.8	2387.7	2402.0	2430.1	2468.5
55°	2422.9	2449.8	2465.5	2479.5	2502.8	2507.7	2520.9	2536.5	2549.0	2580.7	2613.2
57.5°	2570.5	2620.4	2644.7	2667.1	2698.4	2710.4	2732.4	2749.4	2765.6	2803.0	2842.4
60°	2661.4	2722.4	2771.7	2807.2	2846.3	2874.4	2907.8	2934.5	2972.4	3017.3	3076.1
62.5°	2589.2	2678.4	2744.1	2804.8	2858.0	2911.9	2959.6	3009.6	3067.4	3135.3	3226.4
65°	2301.1	2392.0	2504.6	2567.4	2638.1	2721.1	2793.5	2874.4	2953.1	3052.0	3186.7
67.5°	1852.6	1958.2	2084.5	2148.0	2229.1	2321.8	2403.1	2502.0	2593.9	2713.7	2880.2
70°	1335.3	1472.1	1578.2	1644.5	1739.2	1834.8	1913.2	2028.3	2104.3	2227.1	2399.4
72.5°	845.6	953.3	1083.5	1167.1	1251.2	1347.9	1428.1	1527.4	1598.4	1710.3	1866.1
75°	454.6	534.1	648.4	727.7	817.8	900.6	994.6	1061.0	1113.4	1201.9	1328.7
77.5°	213.1	261.4	319.3	380.3	441.3	505.0	567.0	620.9	643.4	694.0	768.8
80°	129.3	144.9	161.9	180.6	206.3	226.7	254.0	273.8	275.2	291.2	314.0
82.5°	86.3	92.2	97.2	102.0	108.5	113.6	119.5	126.3	129.1	132.8	140.2
85°	58.8	61.8	62.8	65.8	65.0	66.8	69.1	71.4	72.7	72.5	75.8
87.5°	36.2	37.6	38.4	39.0	38.5	37.8	38.8	40.2	40.5	39.4	39.7
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1
2.5°	322.5	320.9	319.3	318.3	317.9	308.6	304.5	301.9	296.4	291.7	287.9
5°	355.6	352.3	349.7	346.6	344.8	321.2	312.6	306.6	296.8	291.1	285.8
7.5°	409.2	399.8	394.4	388.2	382.9	340.4	326.2	316.8	303.1	295.5	289.4
10°	470.0	460.2	451.6	442.1	433.8	365.9	345.2	330.8	312.6	302.5	294.6
12.5°	537.6	528.2	517.2	505.0	494.5	398.3	369.5	348.8	324.1	310.6	299.7
15°	617.7	601.0	587.9	573.7	561.4	436.9	397.8	369.3	336.1	318.1	303.3
17.5°	692.1	674.4	656.5	644.3	630.0	480.5	426.2	390.0	346.2	322.9	303.9
20°	764.7	745.6	730.1	713.6	698.6	525.5	456.7	408.3	352.8	323.0	299.7
22.5°	828.7	816.7	799.6	781.6	766.6	570.6	485.3	423.8	355.2	319.0	291.9
25°	901.5	889.0	867.9	852.8	835.9	616.4	513.2	435.8	353.8	311.4	279.9
27.5°	979.4	965.3	943.7	927.8	907.5	664.1	538.9	444.4	348.5	299.0	263.9
30°	1060.4	1047.7	1026.4	1010.4	989.8	714.6	567.5	450.2	337.9	282.0	245.2
32.5°	1147.6	1136.8	1115.8	1099.0	1077.0	769.3	594.3	451.9	322.0	261.8	225.6
35°	1230.3	1222.9	1205.0	1189.4	1166.5	821.1	622.6	451.0	303.0	239.6	207.6
37.5°	1323.4	1318.9	1310.1	1290.2	1262.3	891.3	656.5	447.4	279.7	217.6	193.9
40°	1422.6	1422.8	1413.5	1399.9	1373.8	976.4	697.1	440.2	254.4	198.3	181.4
42.5°	1527.6	1533.0	1528.5	1518.8	1493.8	1062.2	745.5	431.4	229.7	179.4	169.2
45°	1647.9	1654.6	1661.7	1647.4	1623.1	1175.5	809.2	420.0	203.1	163.9	160.6
47.5°	1786.6	1797.2	1803.5	1803.7	1779.5	1315.9	912.6	413.1	179.7	153.3	156.6
50°	2079.7	2083.0	2097.9	2124.0	2105.3	1640.8	1093.1	408.9	163.6	146.8	153.6
52.5°	2501.7	2538.4	2564.3	2562.5	2537.3	1847.3	1192.8	387.0	154.1	144.3	152.2
55°	2673.5	2719.4	2767.3	2780.1	2760.3	2023.3	1286.9	365.3	149.6	146.1	152.7
57.5°	2902.7	2980.0	3045.7	3073.3	3044.7	2248.6	1410.8	353.8	148.1	150.7	156.0
60°	3170.2	3265.9	3352.1	3401.7	3401.7	2507.7	1539.2	349.0	146.2	157.8	161.7
62.5°	3342.1	3482.6	3612.9	3685.4	3683.4	2688.0	1596.2	332.8	141.8	162.8	169.4
65°	3342.9	3509.9	3675.9	3757.4	3761.7	2665.8	1502.1	293.9	133.7	163.4	177.1
67.5°	3064.1	3242.3	3435.7	3526.9	3548.0	2454.0	1300.2	241.7	120.6	156.5	180.0
70°	2587.8	2761.8	2959.2	3048.9	3086.4	2092.0	1047.3	186.3	103.7	140.9	174.2
72.5°	2038.9	2209.6	2346.8	2412.5	2441.8	1599.1	762.7	140.8	85.0	118.8	158.6
75°	1443.4	1571.6	1644.5	1659.2	1663.8	963.9	463.3	104.7	70.0	92.3	133.8
77.5°	814.8	869.6	863.6	870.2	815.9	372.1	201.8	75.0	57.8	70.2	103.8
80°	318.1	327.9	308.1	301.9	276.9	138.5	89.0	52.2	46.2	53.1	72.7
82.5°	140.2	144.7	140.6	141.7	135.5	71.4	53.3	37.8	35.2	38.8	48.1
85°	77.3	78.6	78.3	80.6	77.3	28.4	25.3	23.3	24.7	26.4	30.9
87.5°	37.6	38.0	36.8	38.6	37.5	14.5	12.4	13.1	14.5	14.8	14.8
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):

	135°	145°	155°	165°	175°	180°
0°	302.1	302.1	302.1	302.1	302.1	302.1
2.5°	285.3	284.0	284.1	283.8	283.1	283.1
5°	282.8	281.4	281.4	281.1	280.2	280.5
7.5°	285.3	283.1	282.2	281.0	279.7	279.7
10°	288.1	284.1	281.7	279.6	277.9	277.9
12.5°	290.3	284.0	279.9	277.0	275.5	275.5
15°	291.1	282.6	277.0	273.8	272.4	272.1
17.5°	288.6	277.9	271.1	267.2	265.4	264.9
20°	281.7	269.3	261.0	256.6	254.2	253.3
22.5°	271.1	257.1	247.4	242.8	239.6	239.0
25°	256.3	241.1	231.8	227.4	225.6	225.0
27.5°	239.0	225.0	216.9	214.1	212.4	212.4
30°	222.7	210.7	204.8	202.7	200.7	200.4
32.5°	207.4	199.9	197.5	194.6	190.0	189.5
35°	196.5	195.8	194.3	187.6	181.8	180.3
37.5°	189.8	196.3	188.3	175.1	170.9	170.7
40°	185.9	190.9	177.0	172.5	172.7	172.5
42.5°	177.1	182.3	177.3	175.2	176.6	177.0
45°	168.3	174.0	180.0	178.6	181.8	181.8
47.5°	163.4	171.8	179.8	179.8	184.7	186.5
50°	157.8	170.0	177.0	179.4	183.3	181.8
52.5°	157.5	167.2	173.0	177.3	179.1	177.5
55°	158.0	164.7	168.9	173.8	175.9	176.1
57.5°	158.7	163.2	166.0	168.3	174.7	174.7
60°	160.4	162.1	163.6	164.8	173.2	173.4
62.5°	163.2	160.7	160.4	161.7	172.2	171.5
65°	167.7	159.0	156.5	157.7	171.3	169.2
67.5°	173.6	156.5	151.4	152.2	170.7	166.0
70°	179.1	152.2	144.9	144.1	164.0	155.9
72.5°	179.7	147.2	136.2	133.5	142.6	134.7
75°	170.8	143.9	126.5	118.8	117.7	116.6
77.5°	153.9	142.0	115.3	103.0	101.0	101.7
80°	128.7	134.7	101.7	87.2	98.8	97.5
82.5°	96.2	118.9	86.3	77.3	77.1	68.1
85°	53.4	92.7	70.3	57.9	40.2	39.0
87.5°	14.9	51.6	49.2	32.7	22.4	23.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

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