

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: P451073

Luminaire Tested: **GALN-SA1D-830-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451073
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1D-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5362 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 65
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: 24 FT

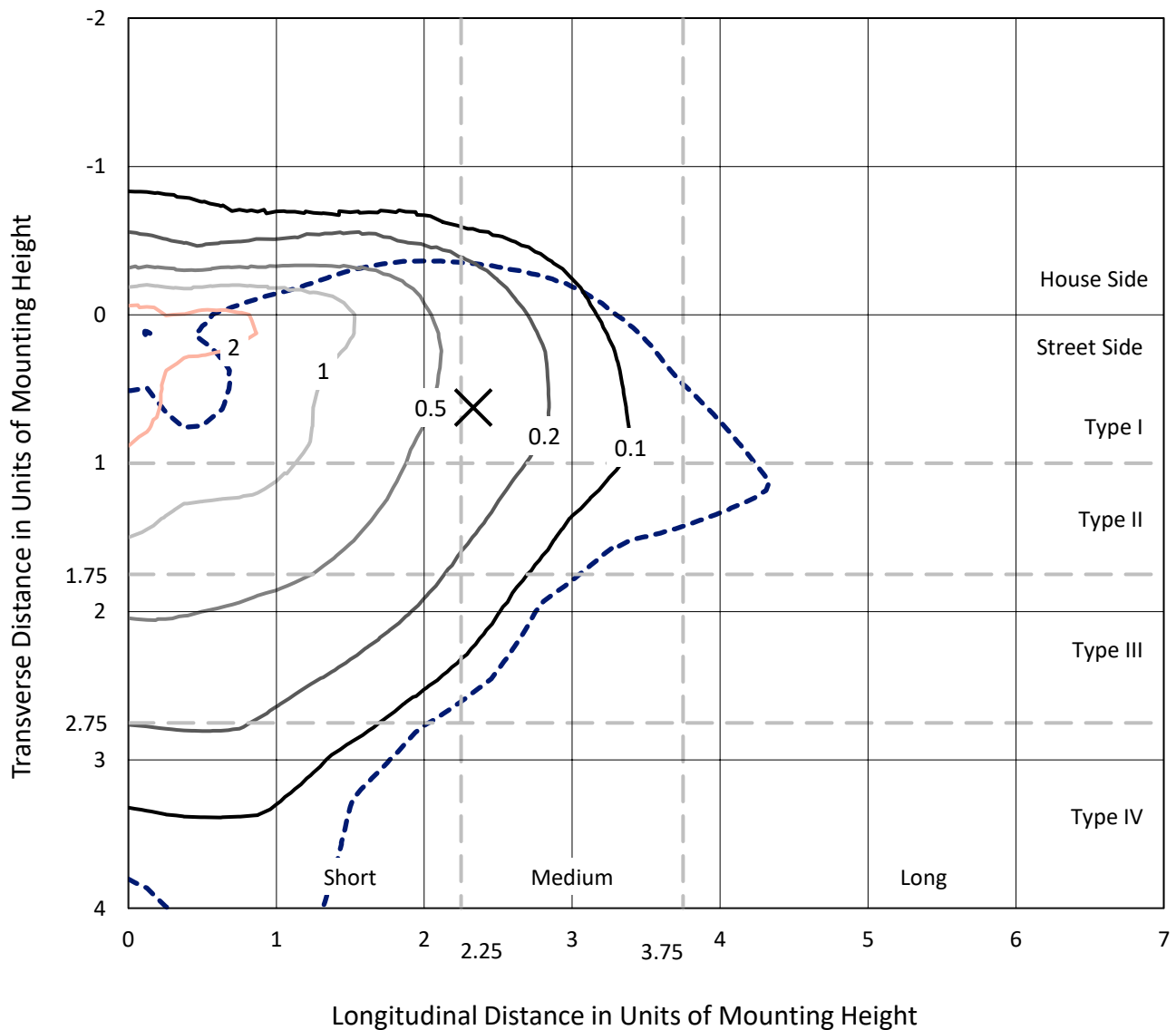


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Iso-Footcandle Lines of Horizontal Illumination

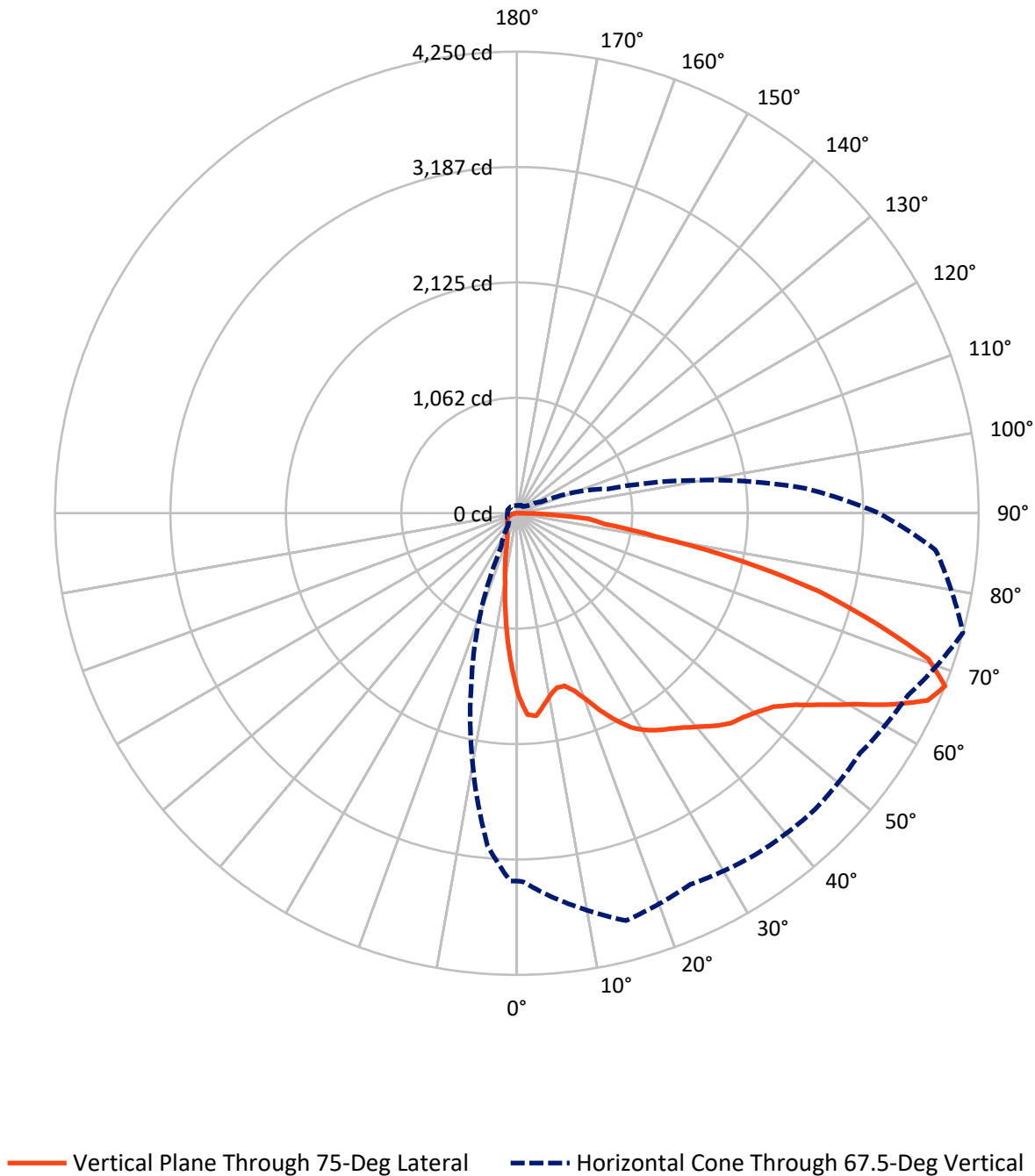
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	906.3	0.0	906.3
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	4455.7	0.0	4455.7
	% Fixture	83.1	0.0	83.1
Total	Lumens	5362.0	0.0	5362.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.1	2.4
10°-20°	265.0	4.9
20°-30°	381.3	7.1
30°-40°	549.2	10.2
40°-50°	771.5	14.4
50°-60°	1076.0	20.1
60°-70°	1279.2	23.9
70°-80°	753.4	14.1
80°-90°	159.3	3.0
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°	5362.0	100.0
0°-180°	5362.0	100.0

Coefficient of Utilization



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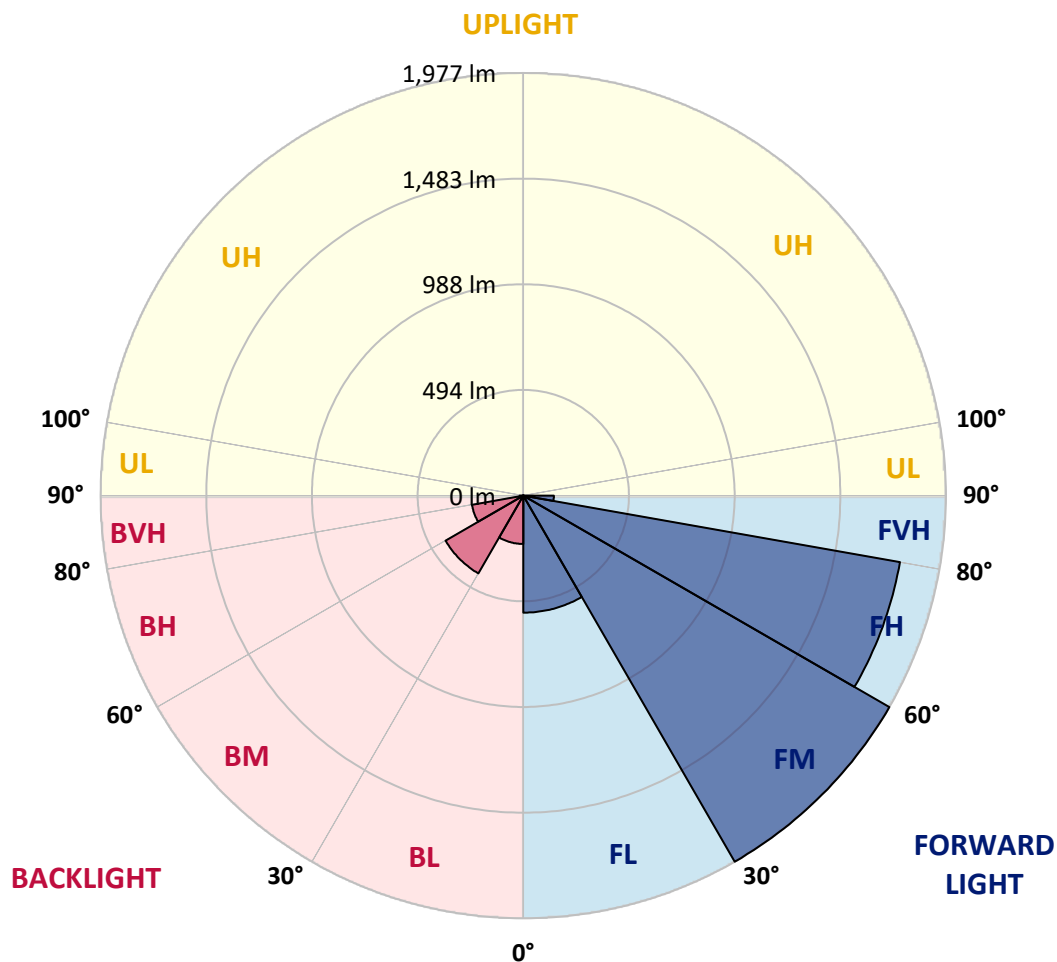
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	547.3	10.2			
FM	(30°-60°)	1976.8	36.9			
FH	(60°-80°)	1788.8	33.4			G1/1800
FVH	(80°-90°)	142.8	2.7			G2/225
BL	(0°-30°)	226.1	4.2	B1/500		
BM	(30°-60°)	419.9	7.8	B1/1000		
BH	(60°-80°)	243.9	4.5	B1/500		G1/500
BVH	(80°-90°)	16.5	0.3			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2
2.5°	1806.2	1808.6	1824.1	1869.1	1900.1	1911.4	1919.3	1904.6	1890.1	1855.0	1802.1
5°	1800.7	1814.8	1855.0	1956.1	2035.9	2070.3	2080.6	2036.3	1963.0	1872.9	1764.6
7.5°	1695.5	1714.4	1776.3	1945.8	2086.5	2166.9	2156.3	2076.1	1944.1	1783.5	1632.2
10°	1570.7	1591.7	1666.3	1871.2	2052.4	2163.1	2163.1	2065.5	1890.1	1699.3	1525.0
12.5°	1471.7	1493.7	1578.9	1794.5	1981.6	2086.5	2104.0	2020.1	1851.3	1646.0	1454.5
15°	1439.0	1460.3	1552.1	1748.1	1906.6	1970.6	1976.4	1948.9	1832.4	1649.8	1451.4
17.5°	1479.6	1507.1	1599.9	1761.9	1837.9	1841.6	1846.1	1867.8	1834.4	1718.9	1514.0
20°	1596.8	1626.4	1723.4	1806.2	1777.7	1738.5	1740.9	1796.6	1858.8	1833.0	1663.5
22.5°	1766.0	1791.8	1891.2	1884.3	1752.2	1671.4	1654.6	1732.3	1894.9	1975.4	1822.7
25°	1948.6	1978.8	2093.0	2000.1	1759.5	1631.5	1620.9	1694.5	1932.4	2108.5	2006.7
27.5°	2157.6	2187.2	2277.3	2117.1	1797.3	1628.5	1615.7	1691.0	1966.1	2231.6	2182.4
30°	2313.0	2340.2	2401.4	2215.4	1843.7	1649.1	1633.3	1718.2	1995.0	2315.8	2353.6
32.5°	2435.1	2463.3	2496.7	2276.6	1904.9	1686.6	1657.3	1767.7	2032.8	2380.1	2480.5
35°	2562.3	2595.7	2593.3	2330.9	1962.0	1729.9	1701.3	1839.2	2092.3	2436.1	2641.4
37.5°	2723.6	2737.0	2719.8	2379.8	2030.4	1807.9	1792.1	1945.5	2176.9	2503.9	2829.5
40°	2887.3	2914.1	2825.7	2438.9	2113.6	1954.8	1953.0	2102.6	2277.3	2583.3	3011.7
42.5°	3027.6	3050.3	2924.8	2490.5	2214.4	2133.9	2147.0	2313.4	2409.0	2675.5	3158.2
45°	3133.1	3153.4	3016.2	2540.3	2347.1	2340.9	2417.9	2539.3	2575.1	2758.3	3244.2
47.5°	3222.9	3242.5	3079.8	2616.0	2511.1	2588.1	2722.2	2774.8	2717.1	2805.8	3340.5
50°	3298.5	3304.4	3123.5	2706.1	2714.7	2891.1	3021.0	3055.1	2857.4	2873.9	3424.0
52.5°	3377.3	3369.7	3198.8	2819.5	2934.7	3178.5	3273.1	3308.5	2991.8	2957.8	3545.7
55°	3553.6	3560.9	3367.6	2962.6	3157.2	3460.8	3585.3	3551.2	3140.7	3112.1	3700.5
57.5°	3766.8	3760.6	3605.2	3186.4	3383.8	3723.5	3816.3	3761.7	3339.4	3324.3	3857.3
60°	3849.7	3857.9	3804.0	3427.1	3607.3	3953.5	4048.4	3963.5	3577.7	3570.8	3975.5
62.5°	3766.5	3812.9	3849.4	3641.3	3797.8	4122.7	4216.9	4120.0	3826.3	3876.2	4058.4
65°	3600.8	3610.7	3734.9	3822.9	3889.6	4150.6	4199.7	4148.2	4034.0	4154.3	4054.6
67.5°	3385.5	3394.1	3539.5	3882.4	3771.3	3834.2	3868.6	3853.5	3969.7	4249.6	3867.9
70°	3180.6	3173.7	3327.4	3730.7	3283.0	3187.4	3216.0	3168.5	3425.4	4016.8	3501.7
72.5°	2781.7	2806.5	2971.5	3309.2	2599.5	2444.1	2506.3	2383.5	2634.5	3440.2	2842.2
75°	2178.9	2184.8	2460.2	2777.2	1961.0	1715.8	1800.0	1748.8	2018.0	2869.7	1962.7
77.5°	1508.8	1495.7	1791.8	2121.2	1398.4	1256.1	1257.4	1233.0	1409.1	2112.9	1333.4
80°	958.3	938.4	1121.6	1310.4	961.0	1028.1	994.4	993.4	917.4	1303.5	806.3
82.5°	517.8	539.8	708.7	821.4	689.4	794.6	728.3	706.9	629.6	815.9	515.8
85°	235.9	256.5	377.9	558.7	523.7	529.5	353.8	417.4	520.9	662.6	275.4
87.5°	23.0	29.6	78.1	263.7	178.8	141.0	52.6	101.4	131.0	235.5	22.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2
2.5°	1780.4	1762.6	1701.7	1651.5	1598.2	1557.6	1504.7	1469.3	1444.8	1408.0	1403.6
5°	1698.6	1654.9	1549.0	1441.1	1347.9	1277.7	1206.6	1141.2	1102.7	1090.7	1075.2
7.5°	1560.7	1487.1	1351.0	1227.2	1120.2	1015.7	935.3	878.2	840.0	817.7	790.8
10°	1447.2	1362.0	1196.2	1044.6	956.6	891.6	820.8	759.6	712.4	672.2	650.2
12.5°	1370.9	1274.6	1088.3	965.2	897.1	828.0	745.1	676.3	606.9	561.2	541.6
15°	1347.9	1246.1	1054.9	925.6	828.0	737.5	644.7	555.0	486.2	442.9	428.4
17.5°	1404.3	1281.2	1054.6	873.0	746.8	638.9	519.9	435.7	365.2	332.8	322.5
20°	1509.5	1348.6	1057.7	821.1	658.8	506.8	378.2	309.1	275.4	261.7	256.5
22.5°	1656.3	1451.4	1067.0	769.9	562.5	389.2	283.3	248.3	236.2	233.8	232.8
25°	1837.2	1578.6	1098.2	723.8	481.4	297.1	236.9	221.1	214.2	211.8	211.5
27.5°	2003.6	1743.0	1136.1	684.3	403.0	256.2	214.2	200.8	193.9	193.6	194.3
30°	2153.8	1880.5	1167.7	639.9	343.5	227.6	199.4	186.0	179.5	179.1	181.2
32.5°	2283.8	1993.6	1191.1	596.2	310.5	210.1	186.0	171.6	166.1	165.0	166.1
35°	2422.7	2106.4	1180.4	562.2	291.6	195.6	176.0	162.0	155.4	152.3	152.3
37.5°	2581.2	2222.6	1162.2	534.0	283.0	183.6	167.5	153.7	147.2	144.1	143.7
40°	2754.2	2338.8	1137.1	508.9	274.4	176.4	161.6	147.2	139.3	136.2	135.5
42.5°	2906.9	2438.2	1116.5	492.4	260.3	177.8	156.4	142.4	132.4	128.3	127.9
45°	3039.6	2538.3	1112.7	482.8	248.6	175.7	155.1	138.6	126.9	122.4	121.7
47.5°	3143.4	2642.5	1134.3	477.3	235.9	164.7	164.0	136.2	122.1	117.3	116.6
50°	3270.0	2790.3	1183.9	465.9	224.2	154.4	173.3	135.8	118.3	112.1	110.4
52.5°	3438.5	2982.9	1250.9	445.6	207.3	144.8	165.4	135.8	113.8	107.6	105.6
55°	3693.2	3228.4	1316.6	417.1	183.6	132.0	149.2	131.7	107.3	101.8	100.4
57.5°	3862.1	3407.9	1358.5	377.5	154.0	122.8	128.6	125.2	100.7	94.9	94.9
60°	3870.7	3456.0	1338.6	327.7	135.5	114.2	111.7	126.2	94.9	88.7	88.0
62.5°	3771.6	3338.1	1234.7	283.0	125.5	104.9	101.1	110.7	89.1	82.9	81.8
65°	3616.9	3037.2	1054.6	261.7	120.0	96.6	91.1	90.8	82.9	77.0	75.6
67.5°	3332.6	2654.1	866.5	249.3	117.3	87.3	82.2	80.5	75.6	70.8	70.1
70°	2913.4	2223.0	694.9	244.1	115.9	77.7	73.6	71.5	67.4	63.6	63.3
72.5°	2266.6	1803.1	573.5	240.7	115.2	68.8	64.3	61.5	59.1	55.7	55.7
75°	1628.1	1326.6	437.7	217.0	106.6	59.1	54.3	52.6	49.2	46.4	47.1
77.5°	1026.4	893.3	288.1	159.5	82.5	47.5	43.3	42.3	39.5	35.8	38.2
80°	693.2	628.2	168.1	100.4	51.9	34.7	33.4	33.0	29.9	25.8	26.1
82.5°	471.8	462.8	87.3	57.1	29.9	20.3	19.6	20.3	16.8	13.8	13.8
85°	184.3	251.7	41.3	22.3	9.6	3.1	4.5	4.8	2.8	1.4	1.7
87.5°	3.4	25.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2
2.5°	1396.7	1393.6	1398.8	1376.8	1381.2	1389.5	1393.6	1396.0	1430.1	1422.1	1443.8
5°	1089.6	1086.6	1106.5	1109.2	1119.6	1117.5	1127.5	1129.9	1142.3	1146.7	1177.0
7.5°	792.6	806.0	828.7	840.4	857.9	863.4	858.2	871.0	845.2	863.7	869.2
10°	636.8	620.6	611.0	637.8	641.3	666.7	656.4	648.1	663.3	664.0	678.4
12.5°	530.2	495.5	472.4	480.0	488.3	499.3	501.0	517.5	528.5	538.8	547.4
15°	415.7	403.7	382.7	372.4	384.1	388.5	399.2	413.0	424.6	427.7	439.4
17.5°	319.1	321.2	317.7	311.5	318.7	322.2	322.9	323.2	326.3	324.2	341.4
20°	256.9	264.1	272.7	274.0	276.5	278.2	275.1	263.4	263.7	271.0	276.5
22.5°	232.4	233.8	243.4	246.5	254.1	251.0	242.1	236.6	235.9	237.6	240.3
25°	213.2	215.2	222.1	226.9	232.8	227.3	220.7	215.6	214.9	216.6	219.4
27.5°	196.0	199.1	205.3	210.1	215.6	210.4	204.2	199.8	199.4	199.1	200.8
30°	182.2	185.7	190.1	195.6	199.4	195.0	189.1	186.7	186.4	185.7	186.4
32.5°	168.5	174.0	178.5	181.2	185.0	181.6	177.1	175.7	173.3	171.2	170.2
35°	153.0	158.9	165.7	169.2	173.0	169.5	166.4	160.6	156.4	156.1	156.8
37.5°	144.1	146.5	152.0	157.8	161.6	159.9	154.0	148.2	147.2	147.2	147.9
40°	136.2	137.2	139.6	147.2	154.0	148.9	141.7	139.9	139.9	139.6	139.9
42.5°	128.3	129.3	129.3	135.1	146.1	137.9	132.4	132.4	132.4	132.7	133.8
45°	121.0	121.4	121.0	125.2	135.5	128.6	124.8	125.8	126.5	127.2	127.9
47.5°	114.8	115.2	114.8	118.3	123.4	120.7	118.6	120.0	121.4	122.4	123.1
50°	109.3	109.0	109.7	111.7	114.2	114.8	113.5	115.5	116.2	117.6	119.3
52.5°	104.5	104.2	104.9	105.9	109.3	109.3	109.3	111.1	112.4	113.8	116.2
55°	99.0	99.4	100.4	101.8	106.2	105.6	105.9	107.3	108.7	110.7	112.1
57.5°	93.9	94.6	95.9	98.0	102.5	102.1	102.5	103.2	104.9	105.9	107.3
60°	88.0	89.4	91.1	92.5	97.0	96.6	98.3	99.7	100.7	100.7	101.4
62.5°	82.2	84.2	86.0	87.0	91.8	92.2	94.6	95.6	96.3	95.6	96.6
65°	76.3	79.4	80.1	81.5	86.3	86.6	89.4	91.8	91.1	90.4	92.2
67.5°	70.5	74.3	73.9	75.6	80.5	81.1	83.6	87.7	86.3	85.6	87.0
70°	64.0	66.7	67.0	68.1	74.6	73.6	77.4	81.1	80.1	80.5	80.5
72.5°	56.7	59.1	59.1	61.2	68.1	66.4	69.5	73.6	73.6	73.2	73.2
75°	48.1	49.5	50.9	54.0	61.2	59.1	61.2	65.0	65.7	65.0	65.0
77.5°	38.9	40.9	41.6	45.7	50.9	50.5	52.6	54.3	55.7	55.0	55.0
80°	27.5	29.6	32.3	36.8	39.9	40.9	41.9	43.3	44.0	44.0	44.7
82.5°	15.5	18.6	21.0	25.4	26.8	32.0	31.6	32.7	31.6	27.9	30.9
85°	3.4	6.5	9.3	11.7	13.4	18.6	19.6	22.0	18.2	16.8	16.8
87.5°	0.0	0.0	0.0	0.0	0.0	2.8	5.5	7.6	6.5	5.5	5.5
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2
2.5°	1462.0	1491.9	1528.0	1590.3	1634.0	1681.1	1728.5	1779.1	1792.5	1806.2
5°	1185.2	1244.0	1276.0	1359.6	1447.2	1558.7	1649.8	1749.5	1791.1	1800.7
7.5°	897.8	937.7	1021.6	1106.2	1214.8	1331.7	1471.3	1626.7	1675.2	1695.5
10°	711.8	766.1	839.7	930.4	1025.7	1151.5	1309.0	1490.6	1559.3	1570.7
12.5°	605.9	666.4	746.5	842.4	932.5	1027.4	1186.3	1373.7	1447.2	1471.7
15°	484.5	557.7	650.2	751.3	849.3	953.1	1114.1	1325.5	1410.5	1439.0
17.5°	380.6	439.8	539.8	649.5	765.7	897.1	1098.9	1348.6	1453.1	1479.6
20°	291.2	333.5	417.8	533.6	669.8	841.7	1102.7	1435.6	1560.7	1596.8
22.5°	251.7	273.4	324.6	435.0	587.3	793.6	1118.2	1554.9	1705.8	1766.0
25°	228.0	239.3	268.2	340.4	508.5	746.8	1153.6	1715.4	1908.7	1948.6
27.5°	207.7	215.9	233.8	285.7	437.0	703.5	1194.9	1893.6	2098.1	2157.6
30°	188.4	199.4	216.3	253.8	391.3	664.0	1246.8	2038.0	2257.7	2313.0
32.5°	173.6	184.6	200.1	231.4	352.4	622.4	1277.7	2164.9	2388.0	2435.1
35°	161.6	170.9	187.1	213.5	322.9	590.7	1271.5	2265.6	2514.2	2562.3
37.5°	153.0	160.9	177.1	196.7	300.5	557.7	1268.4	2398.7	2667.9	2723.6
40°	145.1	153.4	168.1	185.7	278.2	518.9	1270.2	2530.7	2831.6	2887.3
42.5°	138.9	148.2	160.2	182.6	255.1	487.6	1270.2	2645.5	2973.9	3027.6
45°	133.8	143.7	155.4	182.2	236.9	463.8	1261.6	2744.2	3087.4	3133.1
47.5°	129.3	140.3	157.1	176.0	232.4	446.7	1254.0	2823.3	3179.9	3222.9
50°	126.2	139.3	167.1	168.8	233.8	441.5	1290.5	2923.0	3261.4	3298.5
52.5°	123.8	139.6	166.8	158.2	231.4	444.9	1366.4	3078.8	3374.5	3377.3
55°	119.0	139.3	158.2	146.1	221.4	450.8	1464.1	3305.0	3551.6	3553.6
57.5°	114.2	135.5	146.8	135.8	201.1	450.8	1581.7	3519.3	3765.1	3766.8
60°	109.3	141.0	128.9	126.9	174.7	442.5	1705.8	3613.5	3832.2	3849.7
62.5°	104.5	142.0	115.2	119.0	155.4	422.6	1798.3	3509.3	3741.4	3766.5
65°	99.0	114.5	106.2	110.7	145.4	389.2	1769.1	3318.5	3570.8	3600.8
67.5°	92.5	97.0	96.6	102.1	142.0	340.1	1615.0	3077.1	3387.2	3385.5
70°	84.6	87.0	88.0	93.9	135.5	301.9	1345.8	2763.8	3142.1	3180.6
72.5°	76.3	78.4	79.4	84.6	128.9	280.2	1044.6	2332.3	2721.5	2781.7
75°	67.4	68.8	70.1	74.6	122.1	248.3	744.1	1780.4	2084.4	2178.9
77.5°	58.1	58.1	59.8	64.3	102.8	204.9	499.3	1248.8	1412.2	1508.8
80°	47.1	47.5	46.8	51.6	75.6	140.3	283.7	834.2	939.7	958.3
82.5°	36.1	35.1	35.4	37.8	56.4	95.6	151.3	518.2	528.1	517.8
85°	22.7	22.7	22.0	24.8	36.1	49.9	82.5	317.4	247.9	235.9
87.5°	9.3	7.6	8.6	10.0	17.2	20.3	32.3	65.3	25.1	23.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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