

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: P651187

Luminaire Tested: **GALN-SA1D-840-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651187
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-840-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 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: 5674.2 lumens
Efficiency: N/A
Efficacy: 87.3 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

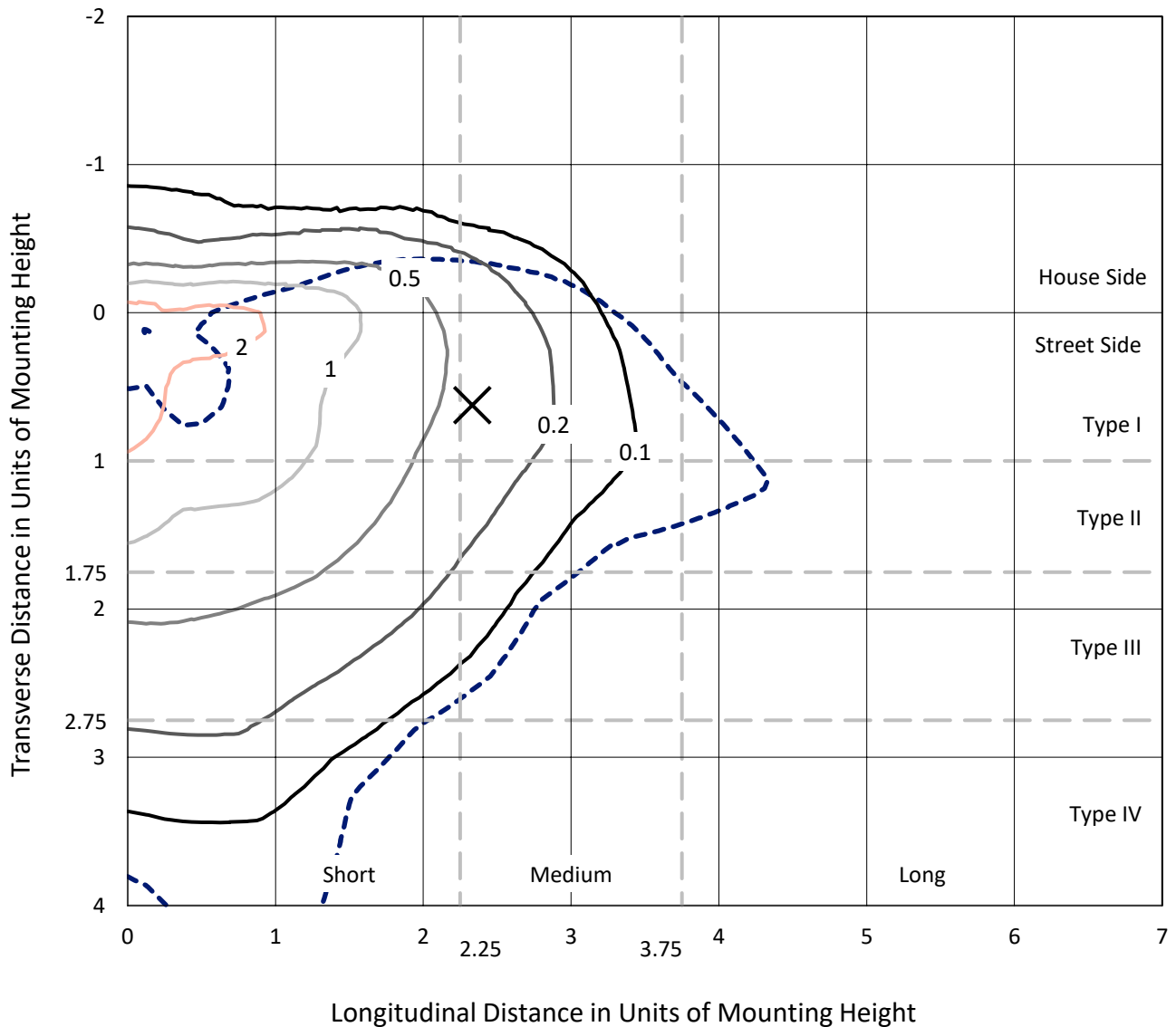
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

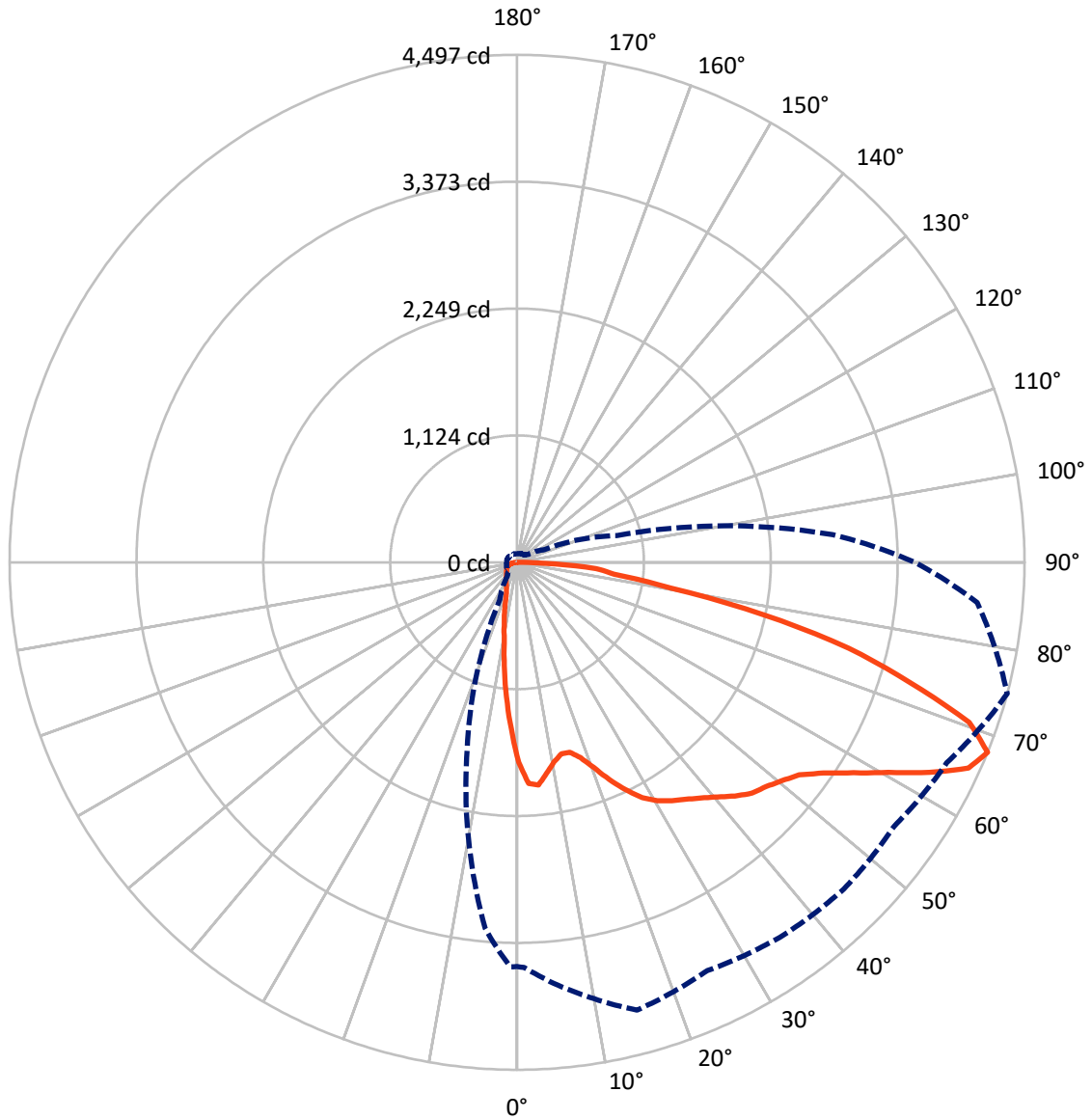
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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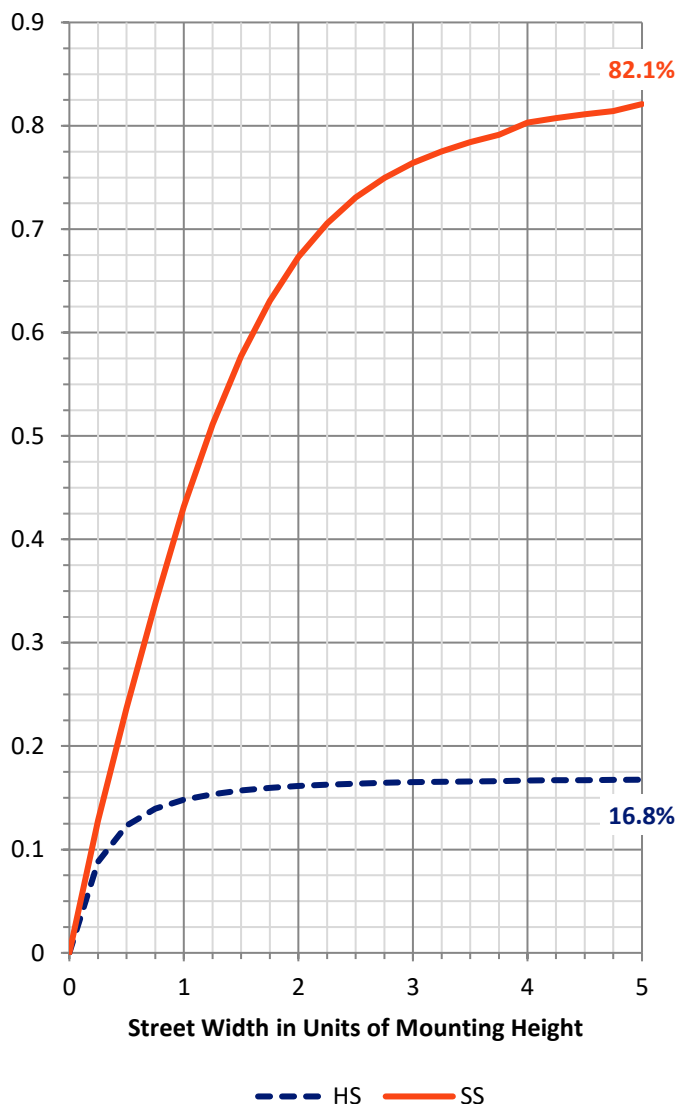
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	959.1	0.0	959.1
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	4715.2	0.0	4715.2
	% Fixture	83.1	0.0	83.1
Total	Lumens	5674.2	0.0	5674.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.5	2.4
10°-20°	280.4	4.9
20°-30°	403.5	7.1
30°-40°	581.2	10.2
40°-50°	816.4	14.4
50°-60°	1138.6	20.1
60°-70°	1353.7	23.9
70°-80°	797.3	14.1
80°-90°	168.6	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°	5674.2	100.0
0°-180°	5674.2	100.0

Coefficient of Utilization

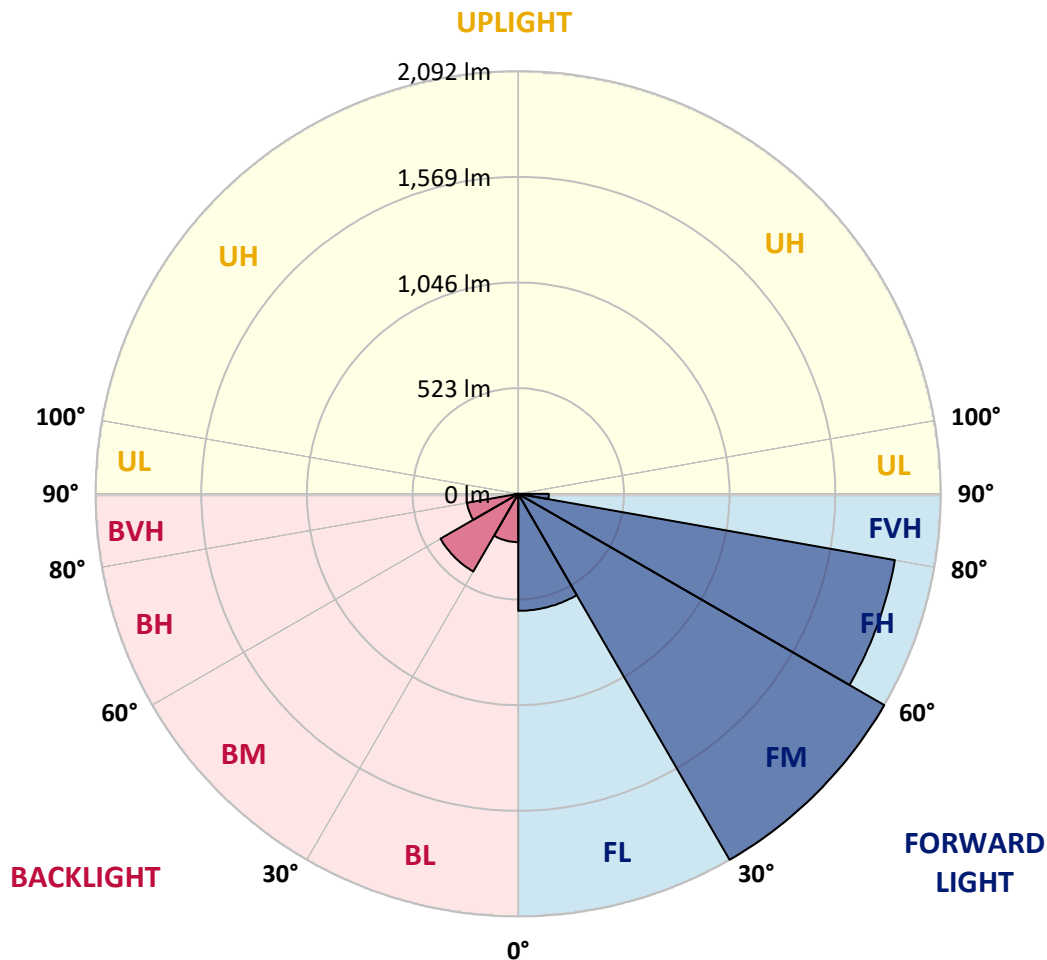


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	579.2	10.2			
FM (30°-60°)	2091.9	36.9			
FH (60°-80°)	1892.9	33.4			G2/5000
FVH (80°-90°)	151.2	2.7			G2/225
BL (0°-30°)	239.2	4.2	B1/500		
BM (30°-60°)	444.3	7.8	B1/1000		
BH (60°-80°)	258.1	4.5	B1/500		G1/500
BVH (80°-90°)	17.4	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°	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7
2.5°	1911.4	1913.9	1930.3	1977.9	2010.7	2022.8	2031.1	2015.5	2000.2	1963.1	1907.1
5°	1905.5	1920.5	1963.1	2070.0	2154.5	2190.8	2201.7	2154.8	2077.4	1982.0	1867.4
7.5°	1794.2	1814.2	1879.7	2059.1	2208.0	2293.1	2281.8	2197.0	2057.3	1887.4	1727.2
10°	1662.2	1684.4	1763.3	1980.1	2172.0	2289.1	2289.1	2185.8	2000.2	1798.2	1613.7
12.5°	1557.4	1580.7	1670.9	1899.1	2096.9	2208.0	2226.5	2137.7	1959.0	1741.8	1539.2
15°	1522.8	1545.3	1642.5	1849.9	2017.6	2085.3	2091.5	2062.4	1939.0	1745.8	1535.9
17.5°	1565.7	1594.9	1693.1	1864.5	1944.9	1948.8	1953.6	1976.5	1941.2	1819.0	1602.1
20°	1689.8	1721.1	1823.7	1911.4	1881.2	1839.7	1842.3	1901.2	1967.1	1939.8	1760.4
22.5°	1868.8	1896.1	2001.2	1994.0	1854.2	1768.8	1751.0	1833.1	2005.3	2090.4	1928.8
25°	2062.0	2094.1	2214.9	2116.6	1861.9	1726.6	1715.3	1793.2	2045.0	2231.3	2123.5
27.5°	2283.2	2314.6	2409.9	2240.3	1901.9	1723.3	1709.8	1789.5	2080.6	2361.5	2309.5
30°	2447.7	2476.5	2541.2	2344.4	1951.0	1745.1	1728.3	1818.2	2111.2	2450.7	2490.7
32.5°	2576.9	2606.8	2642.0	2409.1	2015.8	1784.8	1753.8	1870.6	2151.2	2518.7	2624.9
35°	2711.6	2746.9	2744.3	2466.7	2076.3	1830.6	1800.4	1946.3	2214.1	2578.0	2795.2
37.5°	2882.2	2896.4	2878.2	2518.3	2148.7	1913.2	1896.5	2058.8	2303.7	2649.7	2994.3
40°	3055.4	3083.8	2990.3	2580.9	2236.7	2068.6	2066.8	2225.0	2409.9	2733.8	3187.1
42.5°	3203.9	3227.8	3095.0	2635.5	2343.3	2258.2	2272.0	2448.1	2549.2	2831.2	3342.1
45°	3315.6	3337.0	3191.8	2688.3	2483.7	2477.2	2558.7	2687.2	2725.0	2918.9	3433.1
47.5°	3410.5	3431.3	3259.1	2768.3	2657.3	2738.8	2880.8	2936.4	2875.3	2969.2	3535.0
50°	3490.6	3496.8	3305.4	2863.6	2872.8	3059.4	3197.0	3233.0	3023.7	3041.2	3623.4
52.5°	3573.9	3565.9	3385.0	2983.7	3105.6	3363.6	3463.7	3501.2	3166.0	3129.9	3752.2
55°	3760.5	3768.2	3563.7	3135.1	3341.0	3662.3	3794.1	3758.0	3323.5	3293.4	3915.9
57.5°	3986.2	3979.6	3815.1	3372.0	3580.8	3940.3	4038.6	3980.7	3533.9	3517.9	4081.9
60°	4073.9	4082.6	4025.4	3626.6	3817.3	4183.7	4284.1	4194.3	3786.0	3778.8	4207.0
62.5°	3985.8	4034.9	4073.5	3853.4	4018.9	4362.8	4462.4	4359.8	4049.1	4101.9	4294.7
65°	3810.4	3821.0	3952.4	4045.5	4116.1	4392.2	4444.3	4389.7	4268.9	4396.2	4290.7
67.5°	3582.7	3591.7	3745.6	4108.5	3990.9	4057.5	4093.9	4077.8	4200.9	4497.1	4093.1
70°	3365.8	3358.5	3521.2	3948.0	3474.2	3373.1	3403.3	3353.1	3624.9	4250.7	3705.6
72.5°	2943.7	2969.9	3144.6	3501.8	2750.8	2586.4	2652.3	2522.3	2787.9	3640.5	3007.8
75°	2305.9	2312.0	2603.5	2939.0	2075.2	1815.7	1904.9	1850.6	2135.6	3036.9	2076.9
77.5°	1596.6	1582.8	1896.1	2244.7	1479.8	1329.2	1330.6	1304.8	1491.1	2236.0	1411.1
80°	1014.1	993.0	1186.9	1386.7	1017.0	1088.0	1052.3	1051.2	970.8	1379.4	853.3
82.5°	548.0	571.3	749.9	869.3	729.6	840.9	770.7	748.2	666.2	863.5	545.8
85°	249.6	271.5	399.9	591.3	554.1	560.4	374.4	441.7	551.3	701.1	291.5
87.5°	24.4	31.3	82.6	279.1	189.2	149.2	55.7	107.3	138.6	249.3	23.3
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°	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7
2.5°	1884.1	1865.2	1800.7	1747.7	1691.3	1648.4	1592.3	1554.8	1528.9	1490.0	1485.3
5°	1797.5	1751.3	1639.2	1525.0	1426.3	1352.2	1276.8	1207.7	1166.9	1154.2	1137.8
7.5°	1651.6	1573.8	1429.6	1298.7	1185.5	1074.9	989.7	929.3	888.9	865.3	836.9
10°	1531.5	1441.3	1265.9	1105.4	1012.3	943.5	868.6	803.7	754.0	711.4	688.1
12.5°	1450.7	1348.9	1151.7	1021.4	949.3	876.2	788.5	715.7	642.2	593.8	573.1
15°	1426.3	1318.7	1116.3	979.5	876.2	780.5	682.2	587.3	514.5	468.7	453.4
17.5°	1486.0	1355.8	1116.0	923.8	790.3	676.1	550.2	461.0	386.4	352.2	341.3
20°	1597.4	1427.1	1119.3	868.9	697.2	536.3	400.2	327.1	291.5	276.9	271.5
22.5°	1752.7	1535.9	1129.0	814.7	595.3	411.9	299.8	262.7	249.9	247.4	246.3
25°	1944.1	1670.5	1162.2	766.0	509.4	314.4	250.7	234.0	226.6	224.1	223.8
27.5°	2120.2	1844.5	1202.2	724.1	426.5	271.1	226.6	212.5	205.2	204.9	205.6
30°	2279.3	1990.0	1235.7	677.2	363.5	240.9	211.0	196.9	189.9	189.6	191.7
32.5°	2416.8	2109.7	1260.4	630.9	328.6	222.4	196.9	181.6	175.8	174.7	175.8
35°	2563.8	2229.1	1249.1	594.9	308.6	207.1	186.3	171.4	164.5	161.2	161.2
37.5°	2731.6	2352.0	1229.9	565.1	299.5	194.3	177.2	162.6	155.8	152.5	152.1
40°	2914.6	2475.1	1203.3	538.5	290.4	186.7	171.1	155.8	147.3	144.1	143.4
42.5°	3076.1	2580.2	1181.4	521.1	275.4	188.1	165.6	150.6	140.1	135.7	135.3
45°	3216.6	2686.1	1177.5	510.9	263.1	185.9	164.1	146.7	134.3	129.5	128.8
47.5°	3326.5	2796.3	1200.4	505.0	249.6	174.3	173.6	144.1	129.2	124.0	123.4
50°	3460.4	2952.8	1252.8	493.1	237.2	163.4	183.4	143.7	125.1	118.6	116.8
52.5°	3638.7	3156.5	1323.7	471.5	219.4	153.2	175.0	143.7	120.4	113.9	111.7
55°	3908.3	3416.4	1393.3	441.4	194.3	139.7	157.9	139.4	113.5	107.7	106.2
57.5°	4086.9	3606.3	1437.6	399.6	163.0	129.9	136.1	132.5	106.6	100.4	100.4
60°	4096.1	3657.3	1416.5	346.7	143.4	120.8	118.2	133.6	100.4	93.9	93.2
62.5°	3991.3	3532.5	1306.7	299.5	132.8	111.0	107.0	117.2	94.3	87.7	86.6
65°	3827.6	3214.0	1116.0	276.9	127.0	102.3	96.5	96.0	87.7	81.5	80.1
67.5°	3526.6	2808.7	916.9	263.8	124.0	92.4	87.0	85.1	80.1	74.9	74.3
70°	3083.0	2352.4	735.4	258.4	122.6	82.2	77.9	75.7	71.3	67.3	66.9
72.5°	2398.6	1908.1	606.9	254.7	121.9	72.7	68.0	65.1	62.6	59.0	59.0
75°	1722.9	1403.8	463.2	229.6	112.8	62.6	57.5	55.7	52.1	49.1	49.9
77.5°	1086.2	945.4	304.9	168.9	87.3	50.2	45.8	44.7	41.9	37.8	40.4
80°	733.5	664.8	178.0	106.2	54.9	36.8	35.3	34.9	31.6	27.2	27.7
82.5°	499.2	489.8	92.4	60.4	31.6	21.4	20.8	21.4	17.8	14.5	14.5
85°	195.0	266.3	43.6	23.6	10.2	3.3	4.7	5.1	2.9	1.4	1.9
87.5°	3.6	27.2	1.1	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°	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7
2.5°	1478.1	1474.8	1480.2	1456.9	1461.7	1470.4	1474.8	1477.3	1513.3	1505.0	1527.8
5°	1153.1	1149.8	1170.9	1173.9	1184.7	1182.5	1193.1	1195.6	1208.8	1213.5	1245.5
7.5°	838.7	852.9	876.9	889.3	907.9	913.7	908.2	921.7	894.4	914.0	919.9
10°	673.9	656.8	646.6	675.0	678.6	705.5	694.6	685.9	701.9	702.7	717.9
12.5°	561.1	524.4	500.0	508.0	516.7	528.3	530.2	547.7	559.3	570.2	579.3
15°	439.9	427.1	405.0	394.1	406.5	411.2	422.4	437.0	449.3	452.6	465.0
17.5°	337.7	339.8	336.2	329.7	337.3	340.9	341.7	342.0	345.3	343.1	361.3
20°	271.8	279.5	288.5	290.0	292.6	294.3	291.1	278.7	279.1	286.7	292.6
22.5°	246.0	247.4	257.6	260.9	268.9	265.6	256.2	250.4	249.6	251.5	254.3
25°	225.6	227.7	235.1	240.2	246.3	240.5	233.6	228.2	227.4	229.3	232.1
27.5°	207.4	210.7	217.2	222.4	228.2	222.7	216.1	211.4	211.0	210.7	212.5
30°	192.8	196.5	201.3	207.1	211.0	206.3	200.2	197.6	197.2	196.5	197.2
32.5°	178.3	184.1	188.9	191.7	195.8	192.1	187.4	185.9	183.4	181.2	180.1
35°	161.9	168.1	175.3	179.0	183.0	179.4	176.1	170.0	165.6	165.2	165.9
37.5°	152.5	155.0	160.8	167.0	171.1	169.2	163.0	156.8	155.8	155.8	156.4
40°	144.1	145.2	147.8	155.8	163.0	157.5	150.0	148.1	148.1	147.8	148.1
42.5°	135.7	136.8	136.8	143.0	154.7	145.9	140.1	140.1	140.1	140.4	141.5
45°	128.1	128.4	128.1	132.5	143.4	136.1	132.1	133.2	133.9	134.6	135.3
47.5°	121.5	121.9	121.5	125.1	130.6	127.7	125.6	127.0	128.4	129.5	130.3
50°	115.7	115.4	116.1	118.2	120.8	121.5	120.1	122.3	123.0	124.5	126.2
52.5°	110.6	110.3	111.0	112.1	115.7	115.7	115.7	117.5	119.0	120.4	123.0
55°	104.8	105.1	106.2	107.7	112.4	111.7	112.1	113.5	115.0	117.2	118.6
57.5°	99.3	100.1	101.5	103.7	108.4	108.1	108.4	109.2	111.0	112.1	113.5
60°	93.2	94.6	96.5	97.9	102.6	102.3	104.0	105.5	106.6	106.6	107.3
62.5°	87.0	89.1	91.0	92.1	97.1	97.6	100.1	101.2	101.8	101.2	102.3
65°	80.8	84.0	84.8	86.2	91.3	91.7	94.6	97.1	96.5	95.7	97.6
67.5°	74.6	78.6	78.2	80.1	85.1	85.9	88.4	92.8	91.3	90.6	92.1
70°	67.7	70.6	71.0	72.1	79.0	77.9	81.8	85.9	84.8	85.1	85.1
72.5°	60.0	62.6	62.6	64.8	72.1	70.2	73.5	77.9	77.9	77.5	77.5
75°	51.0	52.4	53.8	57.1	64.8	62.6	64.8	68.8	69.5	68.8	68.8
77.5°	41.1	43.3	44.1	48.4	53.8	53.5	55.7	57.5	59.0	58.2	58.2
80°	29.1	31.3	34.2	38.9	42.2	43.3	44.4	45.8	46.6	46.6	47.3
82.5°	16.4	19.7	22.2	26.9	28.3	33.8	33.5	34.6	33.5	29.4	32.7
85°	3.6	6.9	9.8	12.4	14.2	19.7	20.8	23.3	19.3	17.8	17.8
87.5°	0.0	0.0	0.0	0.0	0.0	2.9	5.8	8.0	6.9	5.8	5.8
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7	1772.7
2.5°	1547.2	1578.8	1617.0	1682.9	1729.1	1779.0	1829.2	1882.7	1896.9	1911.4
5°	1254.3	1316.5	1350.3	1438.7	1531.5	1649.5	1745.8	1851.4	1895.4	1905.5
7.5°	950.1	992.3	1081.0	1170.6	1285.6	1409.3	1557.0	1721.4	1772.7	1794.2
10°	753.2	810.7	888.6	984.6	1085.4	1218.6	1385.2	1577.4	1650.1	1662.2
12.5°	641.1	705.2	790.0	891.5	986.8	1087.2	1255.4	1453.7	1531.5	1557.4
15°	512.7	590.2	688.1	795.1	898.8	1008.6	1178.9	1402.7	1492.6	1522.8
17.5°	402.8	465.4	571.3	687.3	810.3	949.3	1162.9	1427.1	1537.7	1565.7
20°	308.2	353.0	442.1	564.7	708.8	890.8	1166.9	1519.2	1651.6	1689.8
22.5°	266.3	289.3	343.5	460.3	621.5	839.8	1183.3	1645.4	1805.1	1868.8
25°	241.3	253.2	283.8	360.2	538.2	790.3	1220.8	1815.3	2019.8	2062.0
27.5°	219.8	228.5	247.4	302.3	462.5	744.5	1264.4	2003.9	2220.3	2283.2
30°	199.4	211.0	228.8	268.5	414.1	702.7	1319.4	2156.7	2389.1	2447.7
32.5°	183.8	195.4	211.8	244.9	373.0	658.6	1352.2	2290.9	2527.0	2576.9
35°	171.1	180.8	198.0	226.0	341.7	625.1	1345.6	2397.5	2660.6	2711.6
37.5°	161.9	170.3	187.4	208.1	318.0	590.2	1342.3	2538.3	2823.2	2882.2
40°	153.6	162.3	178.0	196.5	294.3	549.1	1344.1	2678.1	2996.5	3055.4
42.5°	147.0	156.8	169.5	193.2	270.0	516.0	1344.1	2799.6	3147.1	3203.9
45°	141.5	152.1	164.5	192.8	250.7	490.9	1335.0	2904.1	3267.2	3315.6
47.5°	136.8	148.4	166.3	186.3	246.0	472.6	1327.0	2987.7	3365.0	3410.5
50°	133.6	147.3	176.9	178.6	247.4	467.2	1365.6	3093.2	3451.3	3490.6
52.5°	131.0	147.8	176.4	167.4	244.9	470.9	1446.0	3258.0	3571.0	3573.9
55°	125.9	147.3	167.4	154.7	234.3	477.0	1549.4	3497.5	3758.4	3760.5
57.5°	120.8	143.4	155.3	143.7	212.9	477.0	1673.8	3724.2	3984.3	3986.2
60°	115.7	149.2	136.4	134.3	184.9	468.3	1805.1	3823.9	4055.3	4073.9
62.5°	110.6	150.3	121.9	125.9	164.5	447.2	1903.0	3713.6	3959.3	3985.8
65°	104.8	121.2	112.4	117.2	153.9	411.9	1872.1	3511.7	3778.8	3810.4
67.5°	97.9	102.6	102.3	108.1	150.3	359.9	1709.1	3256.3	3584.4	3582.7
70°	89.5	92.1	93.2	99.3	143.4	319.5	1424.1	2924.7	3325.1	3365.8
72.5°	80.8	82.9	84.0	89.5	136.4	296.5	1105.4	2468.1	2880.0	2943.7
75°	71.3	72.7	74.3	79.0	129.2	262.7	787.4	1884.1	2205.8	2305.9
77.5°	61.5	61.5	63.3	68.0	108.8	216.9	528.3	1321.5	1494.4	1596.6
80°	49.9	50.2	49.5	54.6	80.1	148.4	300.2	882.7	994.5	1014.1
82.5°	38.2	37.1	37.5	40.0	59.7	101.2	160.1	548.3	558.9	548.0
85°	24.1	24.1	23.3	26.2	38.2	52.7	87.3	335.8	262.3	249.6
87.5°	9.8	8.0	9.1	10.5	18.2	21.4	34.2	69.1	26.6	24.4
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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