

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: P450231

Luminaire Tested: **GALN-SA1A-730-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-730-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3026 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

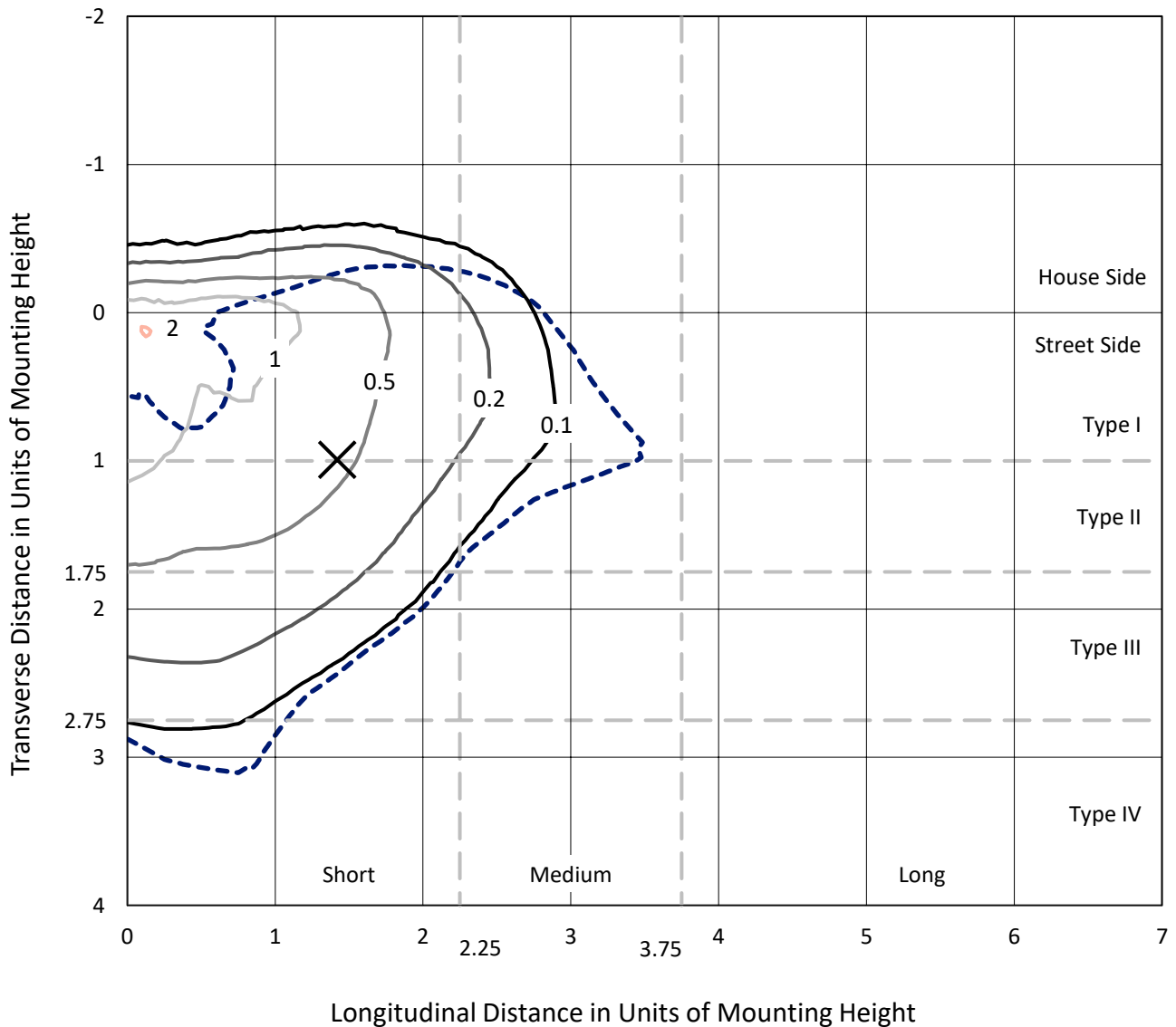
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

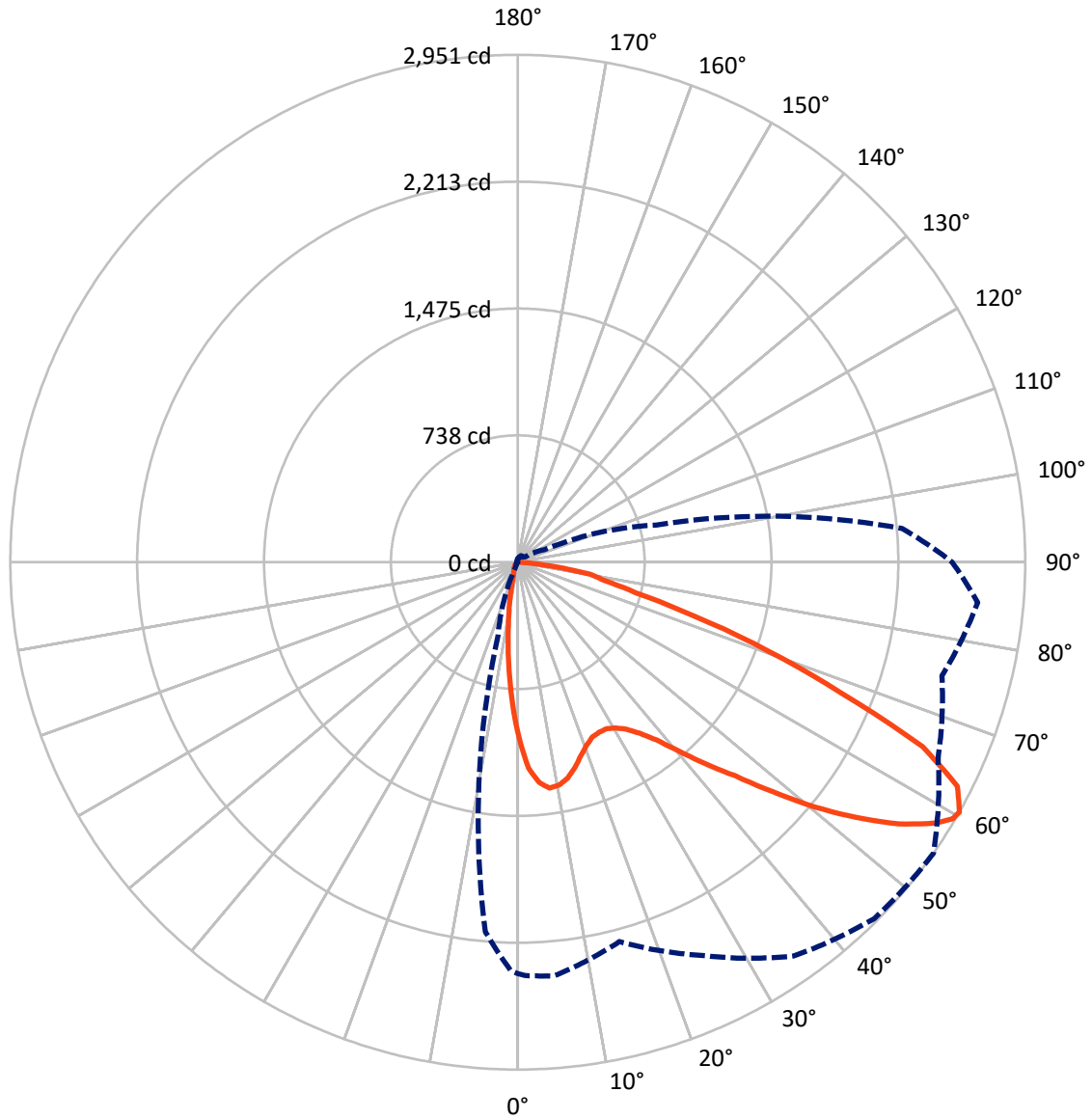
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	449.1	0.0	449.1
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	2576.9	0.0	2576.9
	% Fixture	85.2	0.0	85.2
Total	Lumens	3026.0	0.0	3026.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.9	2.5
10°-20°	149.4	4.9
20°-30°	221.2	7.3
30°-40°	329.7	10.9
40°-50°	482.8	16.0
50°-60°	697.0	23.0
60°-70°	733.2	24.2
70°-80°	301.6	10.0
80°-90°	35.3	1.2
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°	3026.0	100.0
0°-180°	3026.0	100.0

Coefficient of Utilization



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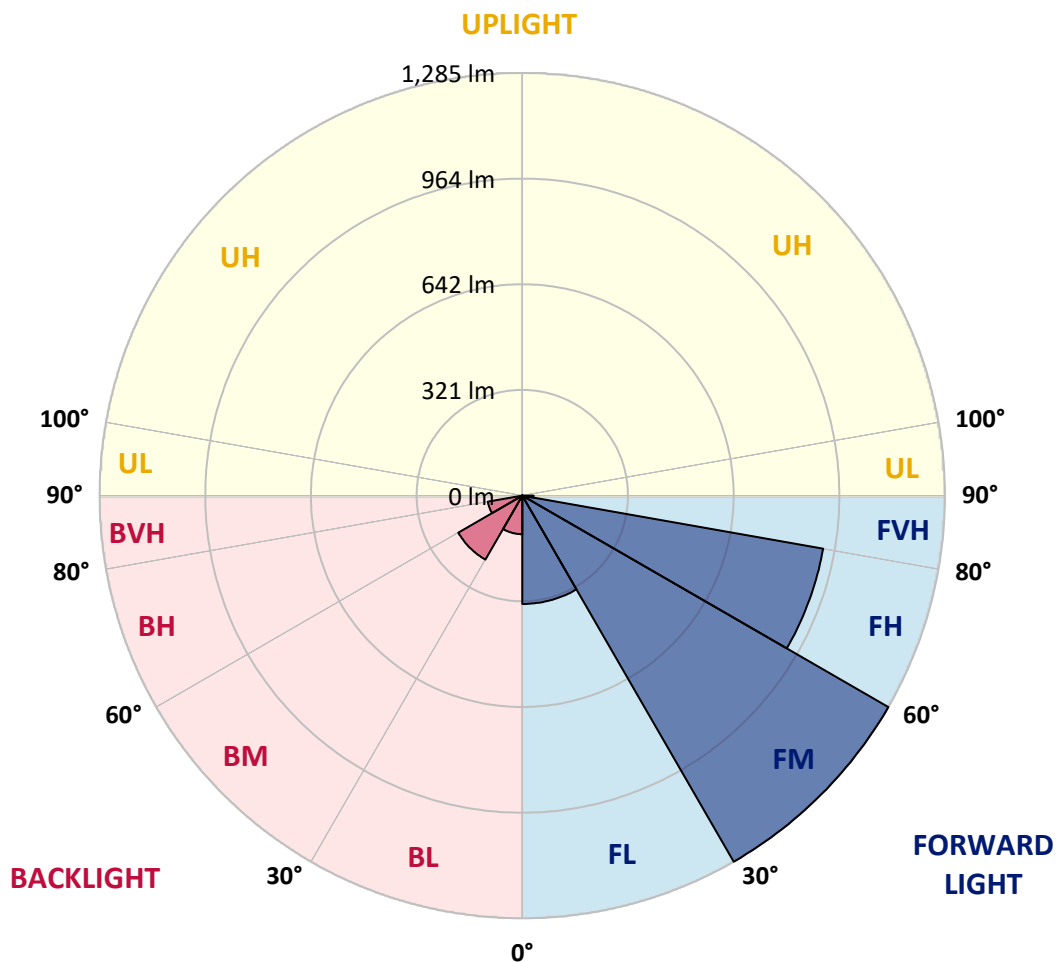
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	329.3	10.9			
FM	(30°-60°)	1284.8	42.5			
FH	(60°-80°)	928.5	30.7			G1/1800
FVH	(80°-90°)	34.3	1.1			G1/100
BL	(0°-30°)	117.2	3.9	B1/500		
BM	(30°-60°)	224.6	7.4	B1/1000		
BH	(60°-80°)	106.3	3.5	B0/110		G0/110
BVH	(80°-90°)	1.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6
2.5°	1119.4	1117.5	1134.1	1161.1	1188.3	1202.5	1199.7	1198.6	1176.0	1159.5	1124.7
5°	1117.1	1126.6	1156.2	1229.3	1284.8	1311.5	1319.5	1286.2	1242.1	1178.3	1099.6
7.5°	1050.2	1062.1	1110.3	1224.7	1323.2	1381.4	1379.3	1326.0	1235.2	1136.4	1024.1
10°	967.3	981.3	1037.9	1176.7	1304.6	1381.4	1385.6	1318.1	1205.1	1078.4	960.3
12.5°	908.8	925.4	988.0	1132.0	1256.6	1332.3	1337.2	1288.3	1182.5	1056.0	925.6
15°	889.0	904.6	968.2	1109.4	1205.6	1246.3	1245.2	1240.0	1173.7	1061.4	927.5
17.5°	923.0	935.9	1007.6	1119.6	1157.8	1153.6	1159.7	1184.4	1175.5	1106.3	986.2
20°	1010.9	1023.9	1101.0	1151.1	1121.3	1094.7	1097.5	1138.7	1192.8	1190.9	1077.9
22.5°	1131.7	1153.9	1223.7	1212.1	1116.4	1058.1	1052.3	1105.9	1222.1	1288.3	1201.8
25°	1284.8	1307.1	1361.6	1309.5	1140.4	1049.5	1044.2	1095.9	1257.7	1383.3	1341.4
27.5°	1413.3	1430.3	1484.6	1404.2	1175.8	1053.2	1044.4	1097.3	1286.6	1464.1	1459.0
30°	1516.3	1528.9	1560.8	1448.5	1206.3	1069.5	1059.3	1117.8	1299.4	1503.5	1554.2
32.5°	1599.2	1620.4	1630.4	1495.8	1250.1	1100.3	1082.8	1157.1	1330.6	1552.1	1654.2
35°	1694.0	1718.5	1705.6	1541.0	1307.8	1148.3	1126.8	1220.9	1377.9	1597.1	1770.2
37.5°	1814.2	1842.4	1792.3	1588.5	1368.8	1220.5	1210.5	1310.6	1449.7	1661.4	1894.5
40°	1938.6	1954.9	1876.4	1646.2	1443.8	1325.5	1335.1	1443.8	1543.5	1738.5	2026.8
42.5°	2035.7	2051.1	1962.8	1694.7	1520.5	1450.1	1490.0	1604.6	1651.1	1817.4	2125.6
45°	2110.0	2123.0	2022.6	1747.6	1623.9	1630.6	1705.9	1770.2	1759.0	1865.7	2201.8
47.5°	2167.7	2178.9	2068.8	1804.4	1778.8	1851.4	1966.5	1993.8	1870.8	1917.8	2270.7
50°	2191.5	2194.8	2083.2	1876.8	1954.6	2132.8	2252.8	2236.2	1998.9	1975.8	2344.1
52.5°	2222.5	2221.8	2124.4	1945.8	2120.0	2384.4	2504.1	2466.6	2143.8	2062.7	2426.5
55°	2303.8	2304.7	2212.7	2043.6	2260.9	2587.5	2715.6	2688.3	2296.5	2209.4	2522.7
57.5°	2402.5	2406.0	2338.2	2158.0	2395.5	2734.7	2873.5	2863.0	2503.1	2372.7	2613.5
59°	2415.3	2422.3	2397.6	2238.6	2475.4	2779.8	2927.5	2937.8	2613.8	2480.3	2662.7
60°	2392.0	2403.7	2414.9	2284.2	2522.2	2796.2	2930.8	2950.8	2696.9	2553.5	2685.0
62.5°	2290.5	2308.9	2365.0	2424.7	2580.7	2745.4	2826.7	2868.6	2799.9	2745.6	2687.1
65°	2157.5	2167.0	2248.1	2449.6	2467.3	2508.3	2533.4	2587.2	2676.2	2819.7	2591.0
67.5°	1939.5	1967.7	2066.9	2304.9	2132.6	2084.1	2077.8	2024.3	2255.3	2643.1	2353.8
70°	1602.2	1614.8	1737.1	1889.6	1609.4	1534.9	1564.7	1544.7	1748.3	2275.4	1894.5
72.5°	1211.6	1240.0	1359.5	1506.3	1095.2	998.5	1080.7	1073.3	1313.2	1828.6	1301.5
75°	862.0	880.4	1032.7	1178.8	767.0	649.8	679.4	707.1	916.8	1443.8	769.1
77.5°	592.3	608.1	722.5	779.6	559.5	535.9	490.3	517.1	600.7	856.7	418.5
80°	357.3	356.6	431.8	445.8	389.7	452.6	379.7	426.2	363.1	366.6	162.1
82.5°	232.0	229.7	264.1	287.9	216.8	228.0	153.0	220.6	236.6	102.2	51.2
85°	103.9	108.3	126.9	167.5	95.0	50.5	31.2	67.8	100.9	51.5	0.0
87.5°	10.7	8.4	22.4	40.8	13.0	1.4	4.7	2.3	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6
2.5°	1108.7	1095.2	1054.9	1017.1	984.8	945.2	919.6	879.3	854.8	847.3	848.5
5°	1064.2	1025.3	948.7	887.4	819.2	780.3	721.1	664.3	633.5	622.1	617.0
7.5°	971.0	929.3	836.9	740.7	667.5	599.3	555.3	505.2	471.0	442.8	437.9
10°	901.8	847.1	732.5	629.1	571.3	520.1	476.1	426.0	385.7	353.6	344.7
12.5°	860.4	799.1	671.3	584.6	529.9	477.2	419.9	362.0	320.7	286.0	269.9
15°	852.9	781.9	654.0	552.7	485.2	421.6	345.4	282.8	240.4	207.5	197.5
17.5°	897.9	812.9	651.5	519.4	426.7	336.6	257.4	205.4	157.7	139.3	132.1
20°	978.0	867.6	651.2	480.7	366.6	259.2	180.7	133.9	114.6	105.7	101.6
22.5°	1087.2	942.1	663.6	447.4	304.2	191.2	129.0	106.7	95.5	88.3	86.6
25°	1220.7	1052.5	693.9	424.8	256.4	150.0	106.4	91.3	82.0	78.7	77.3
27.5°	1339.3	1158.3	727.2	401.5	222.2	132.8	98.8	83.6	76.2	73.6	71.5
30°	1441.5	1254.2	743.2	370.8	194.7	121.6	100.2	89.4	79.7	72.0	68.5
32.5°	1526.8	1327.9	753.7	342.9	171.4	99.5	79.2	69.2	64.8	62.0	59.6
35°	1633.4	1407.5	747.4	327.0	159.5	90.6	72.2	59.6	52.2	46.6	44.3
37.5°	1745.2	1487.2	736.5	314.0	154.2	84.1	68.7	56.6	48.4	42.6	39.6
40°	1861.0	1561.0	723.7	301.9	149.3	79.9	66.6	54.0	45.9	39.6	36.3
42.5°	1967.0	1633.0	718.5	293.9	141.4	80.6	65.0	52.9	43.3	36.8	34.0
45°	2052.7	1701.2	725.5	289.7	132.8	79.4	65.4	51.5	41.2	34.9	32.1
47.5°	2144.2	1797.6	748.1	285.6	124.4	73.8	68.9	51.2	40.3	33.8	30.7
50°	2250.7	1921.1	799.8	275.3	114.1	67.8	73.4	51.0	39.1	32.4	29.3
52.5°	2392.5	2061.3	853.2	257.4	99.2	62.0	70.1	50.3	36.8	30.7	27.7
55°	2519.9	2209.0	898.4	236.2	80.4	53.6	63.1	47.3	32.8	27.9	25.2
57.5°	2572.6	2292.4	897.0	206.8	64.3	47.0	51.9	43.3	28.6	24.7	22.4
59°	2553.2	2281.9	866.9	185.2	58.7	43.6	43.1	42.9	26.8	22.4	20.5
60°	2526.0	2243.7	834.5	174.5	55.2	41.2	39.6	42.4	25.2	21.0	19.1
62.5°	2421.6	2085.3	727.2	156.3	50.5	34.9	31.7	35.9	22.4	18.2	16.5
65°	2270.5	1841.9	615.6	151.2	49.1	28.9	26.3	25.6	19.1	15.4	14.0
67.5°	1975.6	1558.7	498.7	147.7	49.6	24.2	23.1	19.3	15.8	12.8	11.9
70°	1581.7	1215.4	408.3	143.7	50.1	19.8	19.3	15.4	12.8	10.7	9.8
72.5°	961.0	720.4	321.4	124.8	48.7	15.8	17.2	11.6	9.3	7.7	7.2
75°	594.2	493.1	199.4	97.1	32.1	11.6	12.1	7.2	6.3	4.9	4.9
77.5°	344.2	311.4	71.3	34.9	14.2	7.0	5.4	3.7	3.5	2.1	2.1
80°	142.8	114.4	24.7	11.9	7.7	3.3	1.2	0.2	0.0	0.0	0.0
82.5°	41.7	37.0	6.8	5.4	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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°	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6
2.5°	828.7	821.0	817.5	829.4	818.5	832.4	821.7	826.4	840.1	846.2	861.8
5°	620.3	612.3	608.6	626.5	625.6	634.5	633.5	641.7	648.7	633.1	649.1
7.5°	432.1	426.7	435.6	449.5	464.4	459.5	459.5	448.6	452.3	450.0	449.3
10°	328.6	310.2	305.6	305.1	310.7	311.9	305.6	290.4	296.0	297.7	307.4
12.5°	258.5	244.3	222.7	212.9	210.3	212.4	191.7	178.4	184.7	181.0	190.5
15°	185.4	173.8	160.9	150.0	147.0	142.8	120.2	104.3	102.5	103.2	104.8
17.5°	132.3	124.4	124.4	112.7	106.4	93.9	82.5	75.5	74.8	75.5	76.6
20°	97.6	93.4	92.9	89.9	82.9	74.5	66.6	65.2	64.8	65.9	66.4
22.5°	84.1	79.7	75.9	75.7	69.2	62.2	58.5	56.6	56.8	57.3	58.5
25°	75.2	70.6	66.6	64.3	59.6	54.7	51.2	50.3	50.3	51.0	51.2
27.5°	68.9	63.1	59.6	56.4	52.2	48.0	45.0	44.3	43.8	44.3	45.4
30°	64.5	58.7	54.3	49.4	46.1	42.2	39.6	38.7	38.4	38.7	39.6
32.5°	55.2	51.7	48.2	43.8	39.8	37.3	34.5	32.8	32.8	33.3	34.2
35°	41.7	39.8	39.6	38.4	35.2	32.4	29.1	27.5	27.5	28.4	28.9
37.5°	36.8	33.3	32.8	32.4	31.0	27.3	24.2	22.8	22.6	23.3	24.2
40°	33.5	29.6	27.5	27.0	27.3	23.1	19.8	18.4	18.4	18.6	19.6
42.5°	31.0	26.3	22.6	22.1	23.1	19.3	16.1	14.7	14.7	14.7	15.8
45°	28.9	23.5	19.1	16.8	18.2	15.8	13.0	11.6	11.2	11.6	12.1
47.5°	27.5	21.4	16.8	13.5	13.5	12.6	10.5	8.9	8.4	8.6	9.3
50°	26.3	19.6	14.2	10.9	9.8	10.0	7.9	6.8	6.3	6.3	7.0
52.5°	24.5	17.7	12.3	9.3	7.5	6.8	5.8	4.9	4.7	4.9	5.4
55°	22.1	16.1	10.7	7.7	5.8	4.7	4.2	3.5	3.3	3.5	4.2
57.5°	19.6	13.5	8.6	6.1	4.0	3.0	2.8	2.3	1.9	2.1	2.6
59°	17.9	12.1	7.5	4.9	3.0	2.1	2.1	1.6	1.2	1.4	2.1
60°	17.2	11.2	6.3	4.2	2.6	1.6	1.6	1.2	0.7	0.9	1.6
62.5°	14.7	9.3	4.9	2.6	1.2	0.2	0.7	0.2	0.0	0.2	0.7
65°	12.3	7.5	3.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2
67.5°	10.2	5.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	8.2	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5.6	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6
2.5°	862.7	896.0	916.5	955.2	994.8	1025.3	1063.5	1097.7	1111.9	1119.4
5°	665.4	711.8	751.2	810.1	864.8	931.4	999.0	1078.6	1109.1	1117.1
7.5°	467.0	514.3	555.5	623.7	701.8	791.0	892.1	993.2	1037.6	1050.2
10°	337.3	387.8	438.1	506.4	579.3	675.9	781.2	906.3	957.5	967.3
12.5°	212.9	267.2	348.9	433.2	510.3	588.1	698.3	834.3	890.9	908.8
15°	123.4	164.0	225.7	335.6	433.7	536.6	656.8	807.3	870.6	889.0
17.5°	82.7	96.7	139.1	223.1	352.6	489.1	646.3	829.4	899.5	923.0
20°	69.6	75.9	90.8	136.0	271.6	446.7	649.1	889.5	981.5	1010.9
22.5°	61.3	67.1	76.6	97.8	189.6	394.1	662.4	975.5	1094.2	1131.7
25°	54.0	59.9	68.2	81.1	127.4	333.3	691.5	1101.2	1243.5	1284.8
27.5°	48.0	53.3	60.6	71.5	98.1	265.5	717.4	1223.7	1379.8	1413.3
30°	42.4	46.8	53.8	62.2	81.5	204.7	730.4	1330.9	1479.0	1516.3
32.5°	36.8	41.0	47.7	54.5	67.1	156.1	721.3	1409.6	1575.4	1599.2
35°	31.4	35.9	41.5	47.7	58.0	126.0	675.9	1498.1	1675.4	1694.0
37.5°	27.0	30.7	36.6	41.5	52.4	100.9	621.0	1577.8	1787.4	1814.2
40°	22.8	26.6	32.4	36.8	48.2	79.4	571.3	1666.3	1905.5	1938.6
42.5°	18.6	23.1	28.2	35.4	41.5	60.6	511.2	1738.0	1994.2	2035.7
45°	14.9	19.8	25.4	35.2	36.1	46.1	453.3	1793.9	2072.7	2110.0
47.5°	11.9	16.8	24.5	32.8	29.6	36.6	420.2	1852.4	2137.9	2167.7
50°	9.5	14.0	25.6	28.9	24.7	31.0	419.2	1917.6	2171.7	2191.5
52.5°	7.7	11.4	21.7	22.1	21.0	27.3	444.4	1991.0	2206.2	2222.5
55°	6.5	9.5	14.2	16.3	18.9	24.7	463.3	2103.9	2288.4	2303.8
57.5°	5.1	8.2	10.9	13.0	16.8	22.6	465.8	2191.0	2392.5	2402.5
59°	4.4	7.0	9.8	11.6	15.4	21.2	455.3	2196.4	2399.3	2415.3
60°	3.7	6.3	8.6	10.9	14.2	20.0	443.9	2157.5	2374.1	2392.0
62.5°	2.8	4.9	6.3	8.9	11.6	17.2	389.9	2021.7	2277.9	2290.5
65°	1.9	3.5	4.7	6.5	9.1	14.9	317.7	1845.6	2129.3	2157.5
67.5°	1.2	2.6	3.7	4.9	7.5	12.6	226.4	1582.7	1921.3	1939.5
70°	0.7	1.6	2.8	4.0	5.8	10.0	134.4	1251.0	1598.5	1602.2
72.5°	0.5	1.2	1.9	2.8	4.7	9.1	65.2	815.4	1167.1	1211.6
75°	0.2	0.7	1.2	2.1	3.7	7.5	31.2	544.8	849.2	862.0
77.5°	0.0	0.2	0.7	1.4	2.8	5.8	18.2	357.8	579.0	592.3
80°	0.0	0.0	0.5	1.2	2.1	3.7	10.9	211.0	350.8	357.3
82.5°	0.0	0.0	0.2	0.9	1.4	2.8	5.6	92.7	229.7	232.0
85°	0.0	0.0	0.2	0.9	1.2	1.9	2.1	12.6	102.0	103.9
87.5°	0.0	0.0	0.2	1.2	1.2	1.2	1.2	0.7	8.6	10.7
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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