

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: P526077

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526077
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-730-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2330 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G0

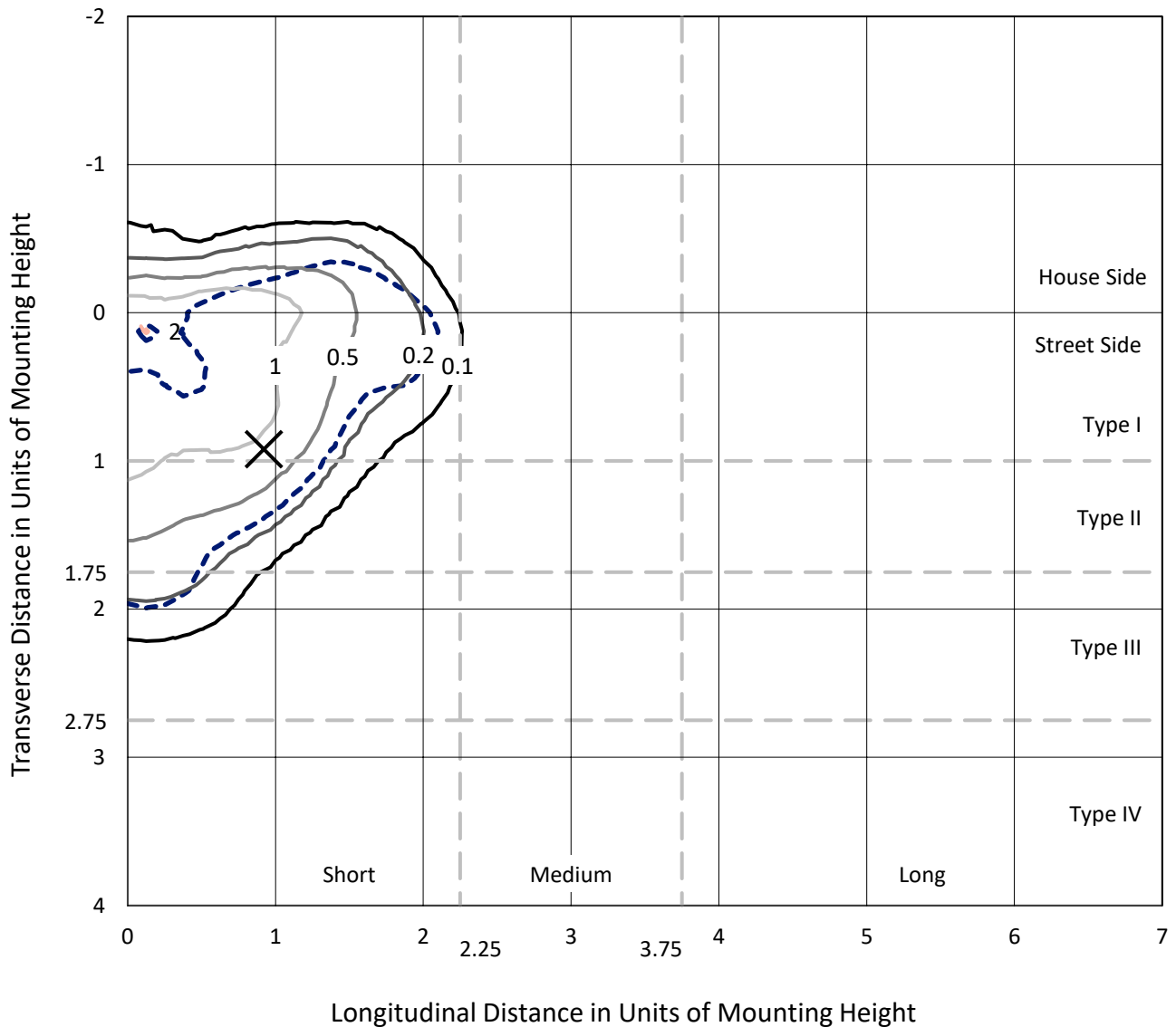
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

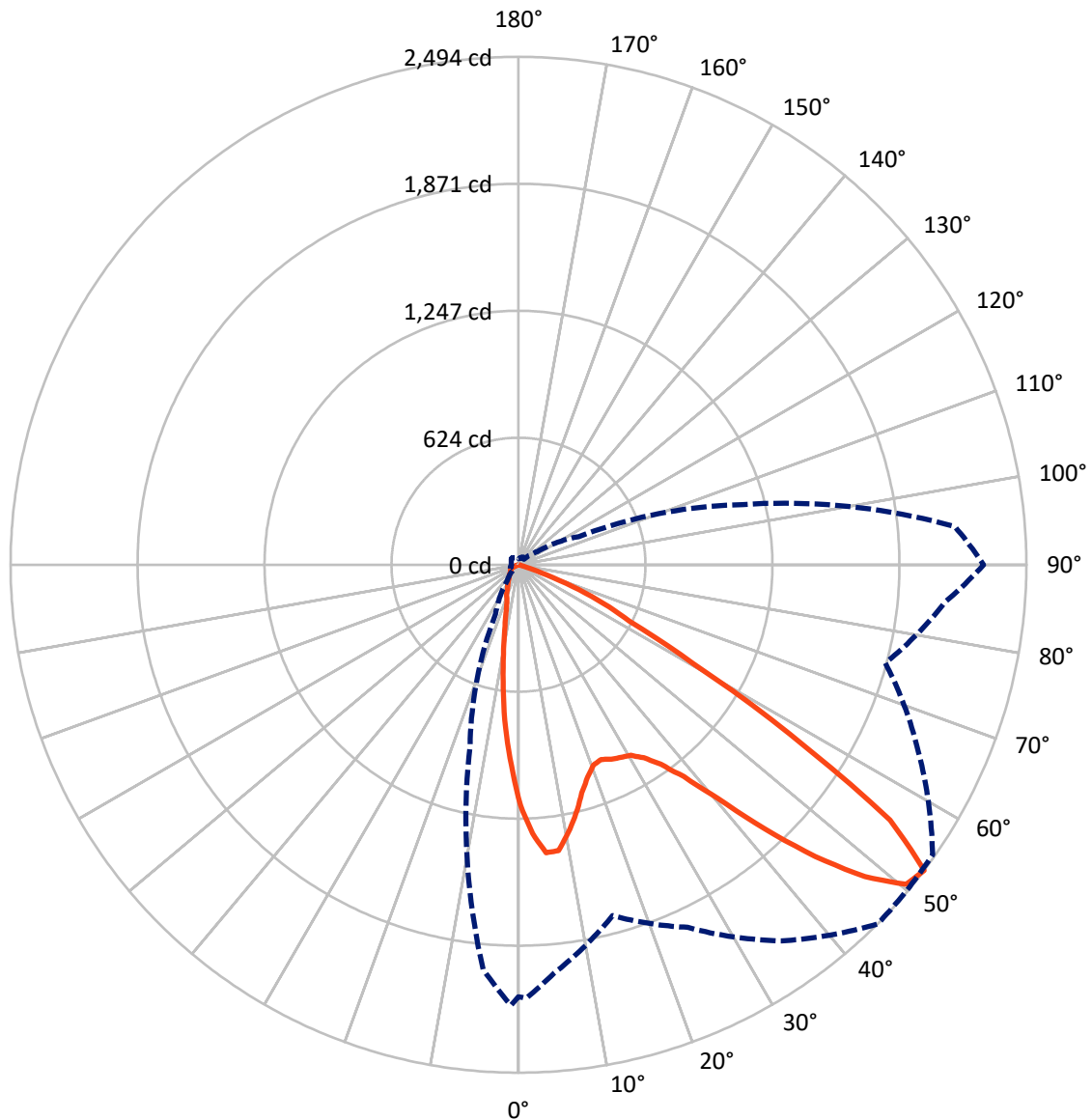
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	472.9	0.0	472.9
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	1857.1	0.0	1857.1
	% Fixture	79.7	0.0	79.7
Total	Lumens	2330.0	0.0	2330.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.2	3.7
10°-20°	170.0	7.3
20°-30°	258.7	11.1
30°-40°	386.7	16.6
40°-50°	550.6	23.6
50°-60°	591.9	25.4
60°-70°	262.3	11.3
70°-80°	21.2	0.9
80°-90°	2.5	0.1
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°	2330.0	100.0
0°-180°	2330.0	100.0

Coefficient of Utilization

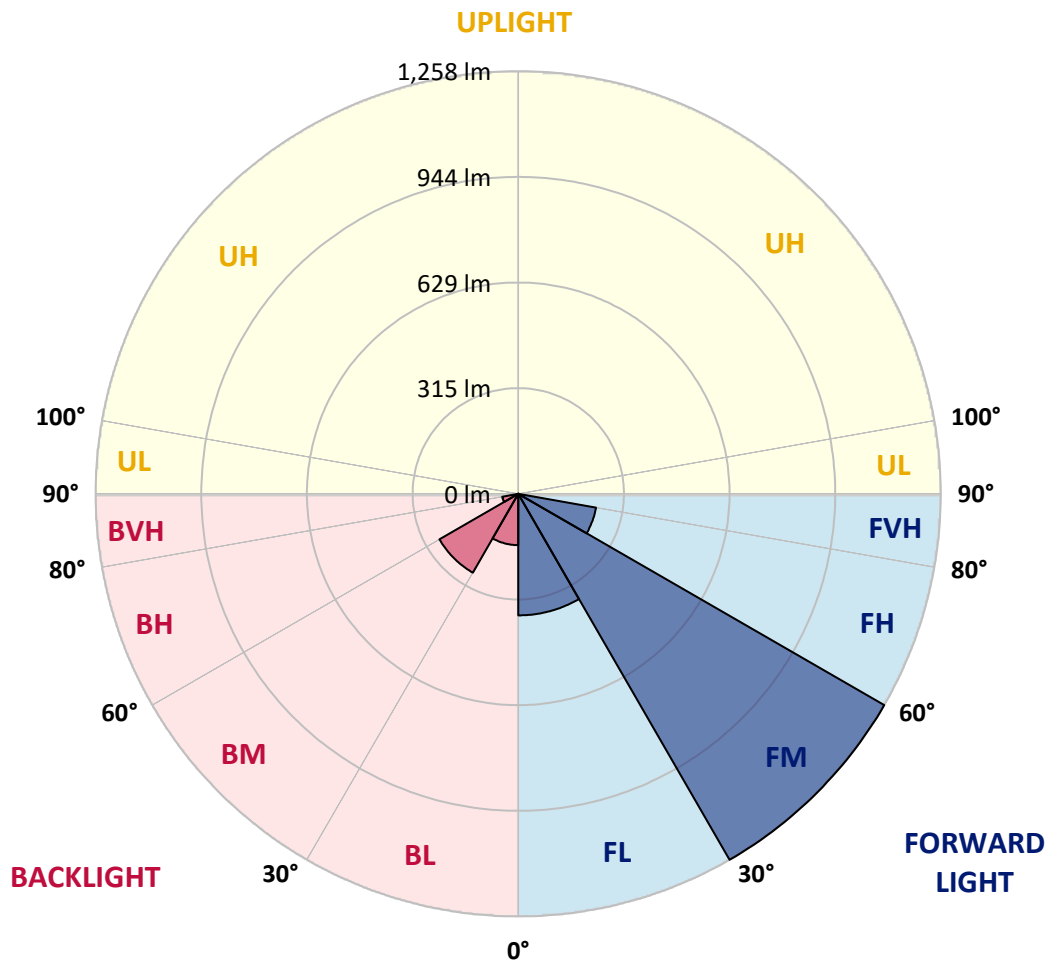


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	361.9	15.5			
FM (30°-60°)	1258.3	54.0			
FH (60°-80°)	235.1	10.1			G0/660
FVH (80°-90°)	1.8	0.1			G0/10
BL (0°-30°)	152.9	6.6	B1/500		
BM (30°-60°)	270.9	11.6	B1/1000		
BH (60°-80°)	48.4	2.1	B0/110		G0/110
BVH (80°-90°)	0.6	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-G0
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4
2.5°	1250.2	1253.8	1274.0	1299.2	1312.5	1342.7	1321.6	1327.1	1315.7	1275.4	1243.7
5°	1212.1	1211.7	1237.3	1299.7	1358.8	1418.8	1420.6	1388.6	1332.2	1270.3	1181.9
7.5°	1097.6	1115.4	1142.0	1241.5	1351.0	1395.9	1417.4	1379.8	1293.2	1204.8	1109.0
10°	1010.9	1020.1	1065.0	1185.1	1265.3	1325.3	1338.6	1317.1	1250.6	1140.2	1032.9
12.5°	961.0	965.6	1018.3	1119.1	1203.9	1248.3	1254.7	1264.8	1217.2	1113.6	984.8
15°	961.4	965.1	1036.1	1120.5	1153.9	1142.0	1163.1	1162.6	1183.3	1108.6	1025.1
17.5°	1030.6	1034.8	1098.9	1140.6	1126.0	1098.0	1096.6	1117.7	1161.3	1171.3	1086.1
20°	1149.8	1159.4	1206.6	1204.3	1121.8	1065.5	1049.9	1065.9	1167.2	1224.5	1208.9
22.5°	1310.2	1323.5	1356.5	1293.2	1140.6	1043.5	1038.4	1069.6	1206.6	1343.2	1348.2
25°	1496.2	1518.7	1534.7	1453.6	1207.5	1081.5	1057.7	1111.3	1259.8	1472.0	1525.6
27.5°	1619.5	1642.9	1639.2	1523.3	1252.5	1091.6	1071.4	1121.4	1306.1	1502.7	1618.1
30°	1715.8	1730.0	1755.6	1560.9	1297.4	1120.0	1085.6	1164.0	1321.2	1555.8	1730.0
32.5°	1828.0	1837.7	1839.5	1627.3	1366.6	1155.8	1129.6	1217.2	1388.1	1606.7	1829.0
35°	1941.2	1955.4	1925.6	1709.3	1409.2	1222.2	1203.0	1309.3	1441.7	1659.4	1938.0
37.5°	2064.0	2071.4	2002.6	1743.3	1470.1	1330.4	1319.8	1408.7	1534.7	1754.7	2059.0
40°	2167.2	2174.0	2084.7	1785.0	1534.3	1481.6	1508.6	1598.4	1661.2	1816.6	2119.5
42.5°	2224.4	2240.5	2112.2	1762.0	1663.1	1653.0	1773.0	1804.7	1807.9	1834.0	2173.6
45°	2240.0	2232.7	2066.8	1780.8	1775.8	1934.8	2043.9	2085.6	1953.6	1866.1	2187.3
47.5°	2168.1	2177.7	1999.9	1764.3	1923.8	2148.4	2289.5	2367.0	2062.2	1838.1	2153.4
50°	2109.9	2097.5	1978.3	1752.4	1963.7	2249.2	2466.9	2484.3	2162.1	1872.5	2116.3
52.5°	2121.3	2129.1	2012.7	1784.0	1964.6	2255.1	2494.4	2482.4	2165.3	1864.7	2103.0
55°	2145.6	2111.2	1998.1	1714.4	1833.1	2088.8	2213.9	2195.6	1998.5	1781.8	2070.5
57.5°	1851.4	1904.6	1837.2	1530.6	1504.5	1573.7	1571.4	1627.8	1490.8	1533.4	1884.9
60°	1502.7	1511.8	1537.0	1309.3	1041.2	1017.4	984.4	948.6	1003.2	1311.1	1714.4
62.5°	1321.6	1310.7	1400.5	1191.0	735.1	615.5	610.0	632.0	774.0	1250.6	1608.1
65°	960.5	974.3	1039.4	924.3	551.8	469.7	461.5	526.6	626.5	1002.2	1227.2
67.5°	586.6	613.2	619.1	570.1	374.4	297.4	285.5	344.6	452.3	648.5	719.5
70°	270.8	302.9	333.2	311.2	216.8	122.4	115.5	144.8	228.2	373.0	381.7
72.5°	82.0	82.5	115.5	120.5	70.1	27.5	24.3	32.1	77.4	123.3	129.7
75°	6.0	6.4	15.6	17.9	13.3	6.9	7.3	8.7	16.5	27.5	20.6
77.5°	0.5	0.5	0.5	2.3	4.1	4.6	6.0	6.9	8.7	10.1	9.2
80°	0.5	0.0	0.5	1.8	3.2	4.6	5.5	6.4	6.9	7.8	6.9
82.5°	0.0	0.0	0.0	1.4	3.2	4.6	5.0	6.9	7.8	9.2	7.8
85°	0.0	0.0	0.0	1.4	3.2	5.0	4.6	2.3	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4
2.5°	1249.2	1231.4	1190.6	1170.0	1121.4	1114.5	1066.9	1059.1	1043.0	1034.3	1013.2
5°	1142.9	1121.4	1054.9	999.0	934.0	888.6	853.8	822.1	803.8	786.8	794.6
7.5°	1056.3	993.5	919.7	826.3	751.1	702.5	649.4	605.8	580.2	562.8	566.9
10°	965.6	924.8	822.1	717.2	626.5	592.1	550.4	516.9	480.7	449.6	434.9
12.5°	937.2	876.7	747.9	641.1	572.4	538.9	491.3	452.8	406.5	368.4	355.2
15°	942.2	884.0	727.7	613.6	532.5	474.8	417.9	370.3	319.4	292.8	279.1
17.5°	1024.2	923.4	741.0	584.8	477.1	396.9	326.7	266.3	228.2	200.7	194.8
20°	1125.1	1008.7	769.4	563.7	431.7	315.7	238.8	186.5	154.9	150.3	148.9
22.5°	1272.6	1148.0	830.4	549.5	376.2	246.1	163.6	135.6	126.9	126.0	126.5
25°	1478.8	1322.6	896.8	537.5	334.5	189.7	133.8	115.0	112.3	110.9	113.2
27.5°	1568.2	1428.0	932.1	511.9	296.5	170.9	132.0	114.1	106.3	104.0	105.4
30°	1678.6	1498.1	987.6	467.9	240.6	140.7	123.3	124.2	120.5	109.1	105.4
32.5°	1825.3	1585.6	1015.5	436.7	214.9	116.4	90.3	82.9	92.6	94.4	97.6
35°	1919.2	1674.5	1029.7	418.4	201.6	99.4	76.5	69.7	67.4	67.8	69.7
37.5°	2093.8	1794.6	1047.6	399.2	191.6	86.6	69.2	62.8	59.6	59.6	61.4
40°	2198.3	1889.9	1071.9	388.6	181.5	78.8	62.8	57.3	54.5	54.5	55.5
42.5°	2224.4	1937.1	1063.6	384.9	170.0	77.0	57.3	53.2	50.0	49.5	49.0
45°	2271.2	2009.1	1065.0	380.8	158.1	70.1	54.1	49.5	44.9	44.5	44.0
47.5°	2322.5	2060.8	1067.8	364.8	146.6	58.7	56.4	45.8	40.3	39.4	39.4
50°	2278.5	2102.1	1091.6	348.7	132.0	47.7	55.5	43.1	35.7	34.4	34.8
52.5°	2284.0	2150.7	1142.0	326.3	113.7	38.0	44.9	40.8	32.5	30.2	30.7
55°	2196.0	2099.3	1148.9	302.5	88.9	29.3	34.4	35.7	27.5	26.6	26.6
57.5°	1890.4	1777.6	1013.7	245.2	58.7	24.3	24.7	31.2	23.8	22.9	23.4
60°	1617.7	1427.1	815.7	161.8	36.7	19.2	17.9	31.6	21.1	20.6	22.0
62.5°	1474.7	1172.7	618.7	100.4	25.2	14.7	12.4	25.7	18.3	18.3	20.2
65°	1065.5	787.8	359.7	52.7	17.9	11.5	9.2	14.7	15.1	15.6	16.5
67.5°	659.9	397.8	151.7	25.7	11.9	7.8	6.0	9.2	10.1	10.1	11.0
70°	325.8	158.6	50.4	14.7	9.2	6.4	4.1	5.0	5.0	4.6	5.0
72.5°	100.8	47.7	12.8	9.2	6.4	4.1	2.3	1.8	0.9	0.0	0.5
75°	11.5	9.2	8.2	6.4	4.1	1.8	0.5	0.0	0.0	0.0	0.0
77.5°	6.9	7.8	7.8	6.4	4.1	1.4	0.0	0.0	0.0	0.0	0.0
80°	5.5	6.0	6.4	6.0	3.7	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	6.9	7.8	8.7	7.8	5.0	2.3	0.9	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	1.4	0.5	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°	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4
2.5°	1004.5	994.4	1008.7	987.6	987.1	987.6	981.6	976.1	984.8	1008.2	1010.5
5°	766.7	788.2	795.1	817.6	805.2	786.8	790.5	778.1	808.4	821.7	811.1
7.5°	558.2	556.8	603.1	605.8	611.8	612.2	611.3	587.0	562.3	567.8	584.3
10°	433.1	409.7	432.1	429.9	444.5	440.4	446.4	420.2	428.9	428.9	439.5
12.5°	352.9	328.1	324.0	318.0	324.0	326.3	328.6	323.5	338.2	345.1	352.4
15°	269.5	255.7	252.0	240.6	242.4	248.8	254.3	256.6	252.0	262.6	263.5
17.5°	195.7	195.2	197.5	197.1	195.2	193.8	193.4	187.4	185.6	186.5	190.2
20°	148.5	152.1	159.9	167.7	171.9	166.8	159.9	149.9	145.7	146.6	147.1
22.5°	126.9	132.4	143.0	151.7	155.8	146.6	134.3	125.6	123.7	123.3	122.8
25°	115.0	121.4	129.2	132.0	131.5	126.0	116.9	113.2	112.3	111.4	107.2
27.5°	108.6	110.9	112.3	115.5	116.9	113.2	110.9	105.4	104.5	104.5	101.7
30°	104.9	103.6	105.4	103.1	104.9	102.2	102.7	102.7	100.4	101.3	101.3
32.5°	97.6	98.1	98.1	93.5	94.9	91.7	94.9	97.6	98.1	98.5	102.2
35°	71.5	79.7	83.9	83.9	85.2	82.9	82.5	79.3	75.2	71.0	69.2
37.5°	62.8	66.0	71.5	74.7	77.0	75.2	71.0	66.0	63.7	61.9	60.0
40°	55.9	58.7	62.3	66.0	70.6	68.3	61.9	59.6	56.8	56.8	55.0
42.5°	50.4	51.8	54.1	59.6	64.6	60.0	55.5	53.6	52.2	51.8	51.3
45°	45.4	45.8	48.1	52.7	58.7	54.1	49.5	47.2	47.7	48.1	47.7
47.5°	40.8	41.7	43.1	48.6	52.2	50.0	44.9	43.5	43.5	43.5	44.0
50°	35.3	37.6	40.3	44.9	47.7	46.3	42.2	40.3	39.4	39.4	39.9
52.5°	31.6	33.5	37.1	42.6	46.3	44.0	39.9	37.1	35.3	34.8	35.7
55°	27.5	30.7	36.7	40.8	45.8	43.5	39.0	35.7	32.5	32.1	32.1
57.5°	24.7	29.8	35.3	40.3	44.5	42.6	39.0	34.8	30.7	30.2	30.2
60°	23.4	28.9	34.4	39.0	44.5	41.7	38.5	33.9	29.3	29.3	28.9
62.5°	22.0	27.0	32.5	37.1	42.6	40.3	37.1	32.5	28.0	28.0	27.0
65°	18.3	23.4	27.0	31.2	37.1	34.8	31.6	28.4	24.7	23.8	24.3
67.5°	12.8	16.0	19.7	23.8	27.5	26.6	25.2	22.9	19.7	19.2	18.8
70°	6.4	8.7	11.9	16.0	19.2	18.3	17.4	15.6	13.7	13.3	13.3
72.5°	0.9	2.7	5.0	7.3	10.1	10.5	10.1	9.6	9.2	8.7	9.2
75°	0.0	0.0	0.0	1.8	4.1	5.0	6.0	6.9	6.9	6.0	7.3
77.5°	0.0	0.0	0.0	0.0	0.5	2.3	4.6	6.0	7.3	6.4	8.7
80°	0.0	0.0	0.0	0.0	0.5	2.7	4.6	6.4	7.3	6.4	9.2
82.5°	0.0	0.0	0.0	0.0	0.5	3.2	4.6	6.0	6.9	6.4	8.2
85°	0.0	0.0	0.0	0.0	1.4	2.7	1.8	0.9	0.5	0.5	1.4
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°	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4
2.5°	1023.3	1055.9	1090.7	1104.0	1145.2	1176.4	1197.5	1242.8	1249.7	1250.2
5°	822.1	838.6	898.2	926.2	987.6	1035.2	1086.1	1159.4	1208.5	1212.1
7.5°	584.3	630.1	655.3	728.2	803.8	878.5	954.1	1039.4	1096.2	1097.6
10°	470.2	500.0	544.9	599.4	663.1	739.2	840.0	939.0	996.7	1010.9
12.5°	378.5	430.8	482.1	538.5	587.0	644.3	752.9	884.9	932.6	961.0
15°	291.5	339.1	399.6	465.6	520.6	597.1	720.9	871.6	951.8	961.4
17.5°	214.9	257.5	313.5	375.8	458.3	566.9	726.4	939.0	1014.6	1030.6
20°	154.4	179.2	223.2	295.6	400.5	531.6	731.9	1007.3	1122.3	1149.8
22.5°	122.4	132.4	161.3	225.5	335.9	494.5	770.8	1137.9	1270.3	1310.2
25°	106.3	111.8	125.6	177.8	295.1	490.8	833.1	1294.6	1467.4	1496.2
27.5°	102.7	103.6	115.5	163.1	273.1	466.5	857.0	1406.0	1590.2	1619.5
30°	108.2	122.8	123.7	137.9	232.3	418.4	869.3	1513.7	1694.2	1715.8
32.5°	93.5	88.9	92.1	106.8	204.4	390.4	892.7	1607.6	1812.9	1828.0
35°	65.1	68.3	75.6	92.6	178.7	361.1	898.7	1711.2	1925.6	1941.2
37.5°	60.0	61.9	67.8	78.8	157.2	344.6	890.4	1786.8	2042.5	2064.0
40°	55.9	58.2	61.4	71.5	141.1	326.3	879.0	1855.1	2114.0	2167.2
42.5°	52.7	54.5	57.3	68.3	127.4	308.0	862.9	1951.3	2178.2	2224.4
45°	49.0	51.8	55.0	66.4	119.6	295.6	851.0	1945.4	2215.3	2240.0
47.5°	45.4	50.0	53.6	61.9	117.3	289.6	856.0	1922.9	2185.0	2168.1
50°	41.7	47.7	54.1	51.3	111.8	277.7	862.0	1953.6	2113.1	2109.9
52.5°	38.5	45.4	50.4	42.2	99.4	266.3	919.7	1993.9	2163.9	2121.3
55°	33.9	40.8	40.3	33.9	80.7	257.5	965.1	1994.8	2129.6	2145.6
57.5°	30.7	36.2	31.6	28.4	59.6	215.4	891.3	1672.7	1823.0	1851.4
60°	28.4	35.3	23.8	22.5	39.0	155.4	778.1	1295.5	1449.0	1502.7
62.5°	26.1	33.5	18.8	18.3	27.0	110.4	639.7	1084.3	1248.8	1321.6
65°	22.9	23.8	15.1	14.2	19.2	59.6	389.5	746.5	933.5	960.5
67.5°	18.8	18.3	12.4	11.5	12.8	28.9	171.9	373.9	541.2	586.6
70°	15.1	15.1	10.5	9.2	9.2	13.3	44.9	148.9	244.7	270.8
72.5°	11.0	11.5	8.2	7.3	6.9	6.4	7.3	29.8	64.2	82.0
75°	9.6	10.1	8.2	6.4	5.0	4.1	3.2	2.7	3.7	6.0
77.5°	10.5	10.5	8.7	6.0	4.6	3.2	1.8	0.9	0.9	0.5
80°	13.3	13.7	11.5	7.8	5.5	3.7	2.3	0.9	0.5	0.5
82.5°	14.2	15.6	12.8	9.6	6.9	4.1	2.3	0.5	0.0	0.0
85°	3.7	6.0	10.1	8.7	6.9	4.1	2.3	0.5	0.0	0.0
87.5°	0.0	0.5	1.4	1.4	1.8	1.8	1.4	0.5	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

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