

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: P450203

Luminaire Tested: **GALN-SA1A-727-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450203
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-SA1A-727-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3336 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

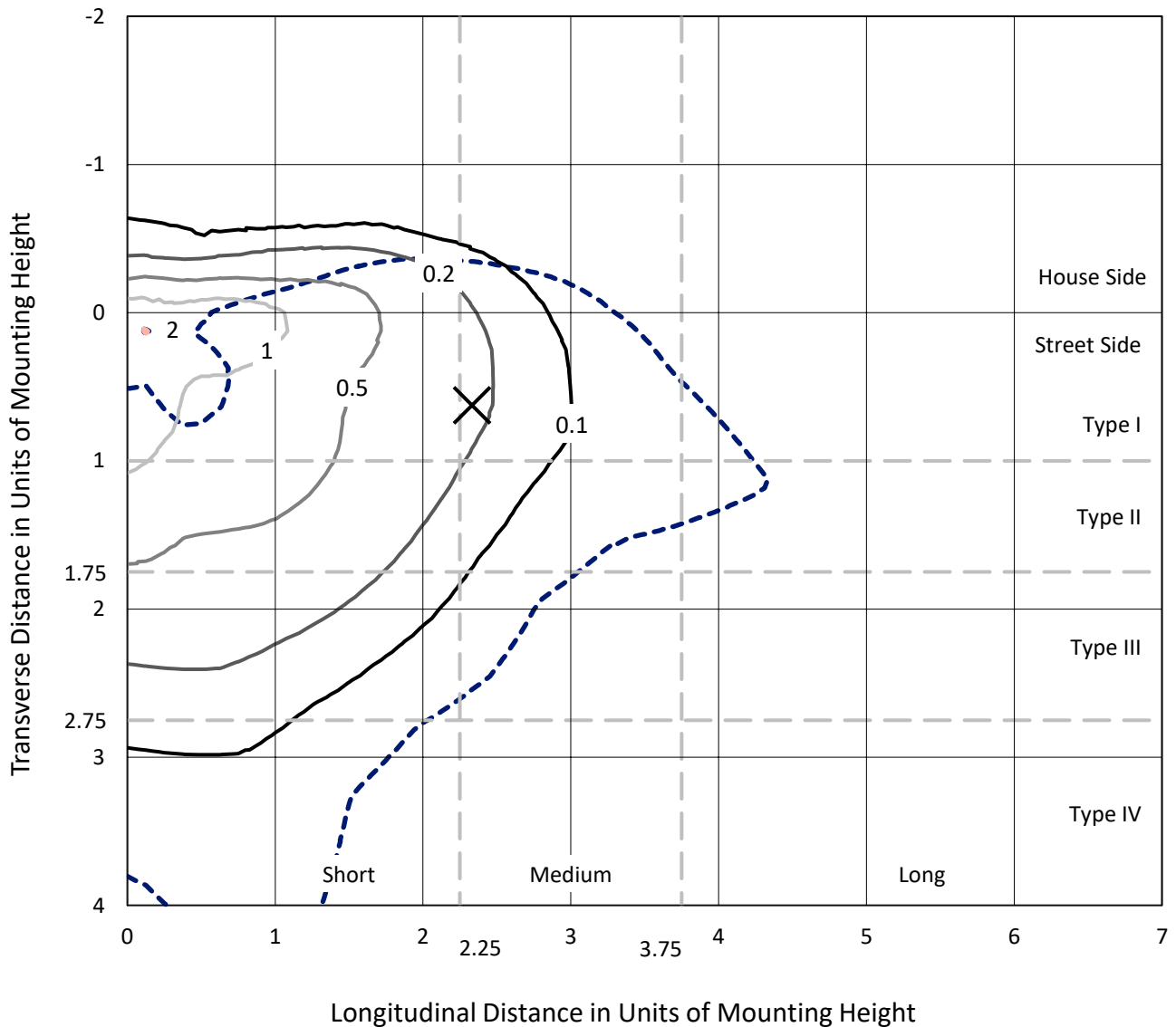
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

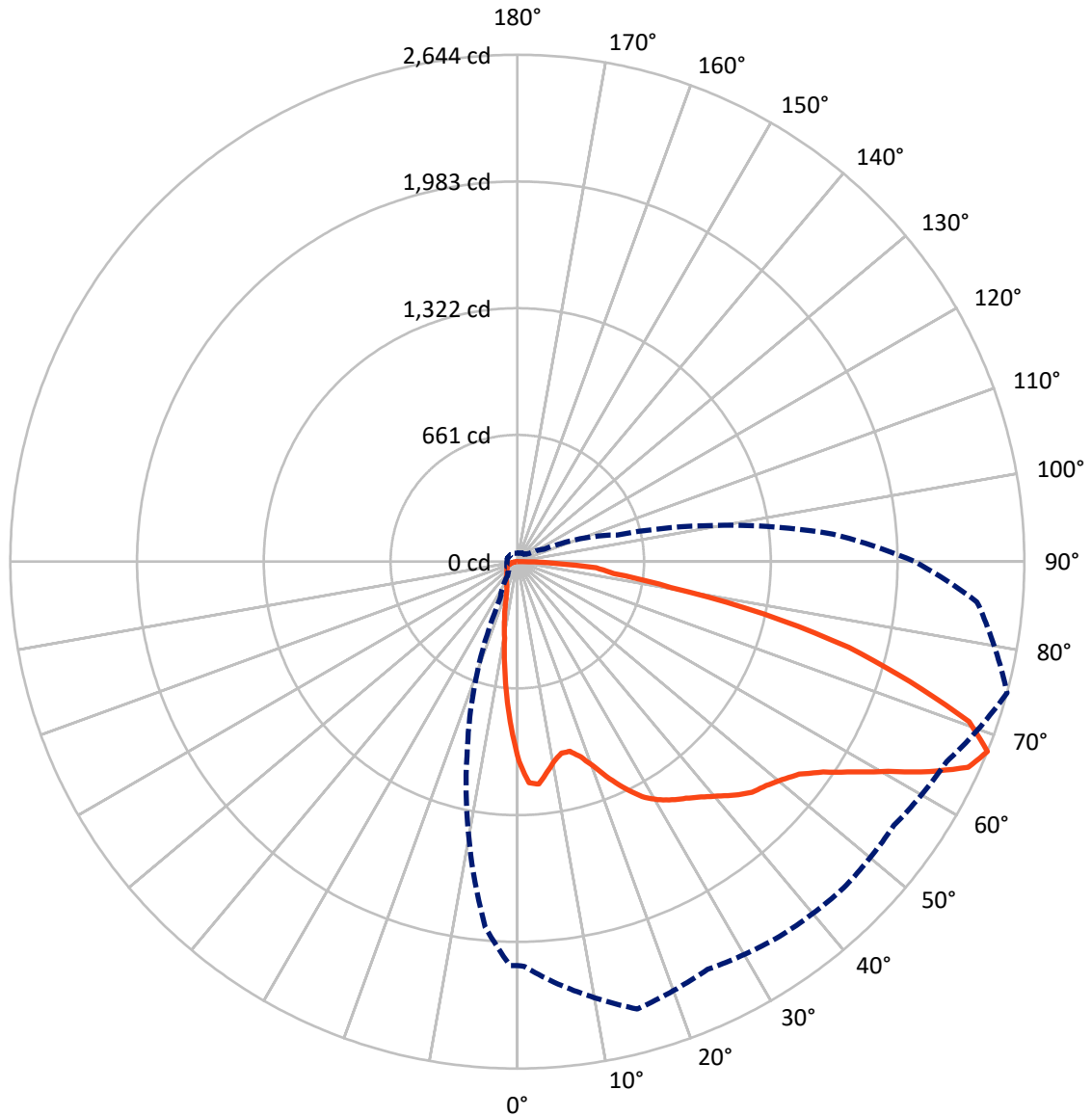
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - 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	563.9	0.0	563.9
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	2772.1	0.0	2772.1
	% Fixture	83.1	0.0	83.1
Total	Lumens	3336.0	0.0	3336.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.1	2.4
10°-20°	164.9	4.9
20°-30°	237.2	7.1
30°-40°	341.7	10.2
40°-50°	480.0	14.4
50°-60°	669.4	20.1
60°-70°	795.9	23.9
70°-80°	468.7	14.1
80°-90°	99.1	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°	3336.0	100.0
0°-180°	3336.0	100.0

Coefficient of Utilization



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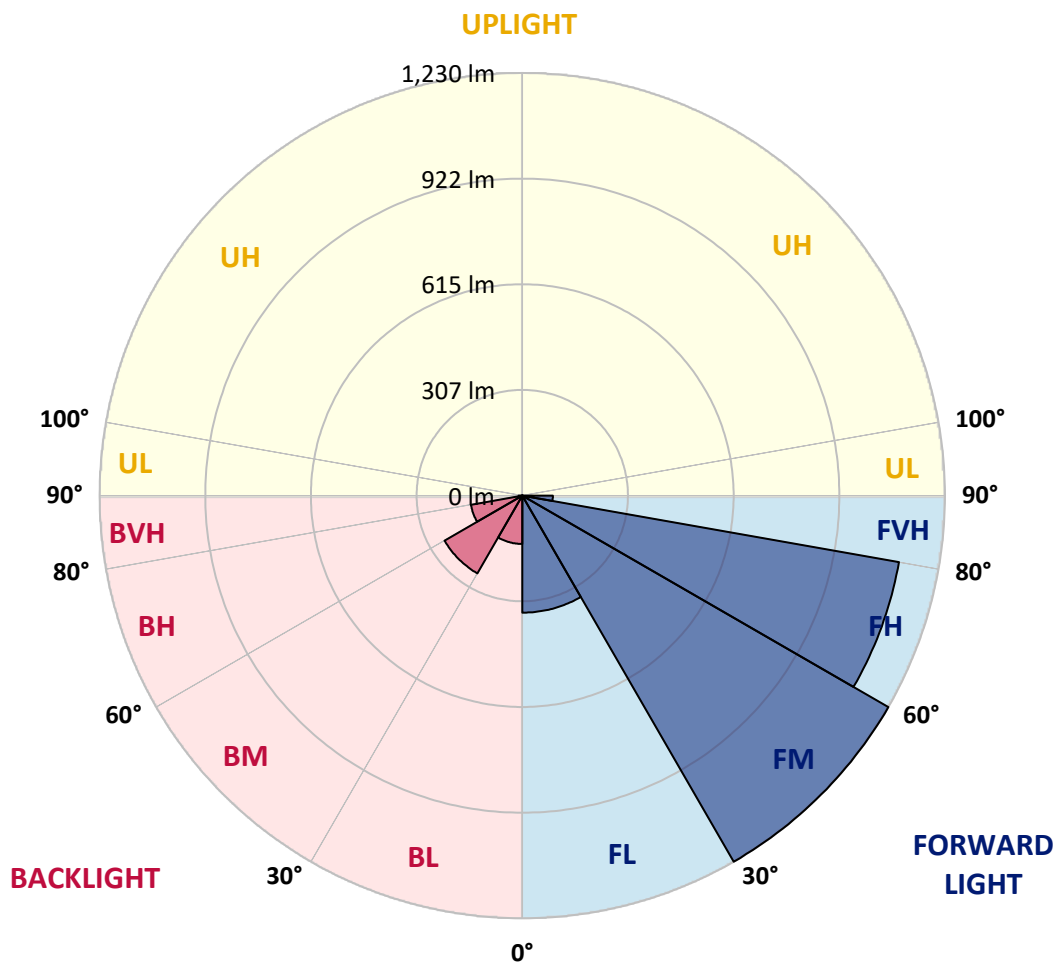
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	340.5	10.2			
FM	(30°-60°)	1229.9	36.9			
FH	(60°-80°)	1112.9	33.4			G1/1800
FVH	(80°-90°)	88.9	2.7			G1/100
BL	(0°-30°)	140.6	4.2	B1/500		
BM	(30°-60°)	261.2	7.8	B1/1000		
BH	(60°-80°)	151.7	4.5	B1/500		G1/500
BVH	(80°-90°)	10.3	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-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1042.2	1042.2	1042.2	1042.2	1042.2	1042.2	1042.2	1042.2	1042.2	1042.2	1042.2
2.5°	1123.8	1125.2	1134.9	1162.9	1182.2	1189.2	1194.1	1184.9	1175.9	1154.1	1121.2
5°	1120.3	1129.1	1154.1	1217.0	1266.7	1288.0	1294.5	1266.9	1221.3	1165.3	1097.9
7.5°	1054.9	1066.6	1105.1	1210.6	1298.1	1348.2	1341.5	1291.7	1209.5	1109.6	1015.5
10°	977.2	990.3	1036.7	1164.2	1276.9	1345.8	1345.8	1285.1	1175.9	1057.2	948.8
12.5°	915.6	929.3	982.3	1116.5	1232.9	1298.1	1309.0	1256.8	1151.8	1024.1	904.9
15°	895.3	908.5	965.7	1087.6	1186.2	1226.0	1229.6	1212.5	1140.0	1026.4	903.0
17.5°	920.5	937.6	995.4	1096.2	1143.4	1145.8	1148.6	1162.0	1141.3	1069.4	941.9
20°	993.5	1011.9	1072.2	1123.8	1106.0	1081.6	1083.1	1117.8	1156.5	1140.4	1035.0
22.5°	1098.7	1114.8	1176.6	1172.3	1090.2	1039.9	1029.4	1077.8	1178.9	1229.0	1134.0
25°	1212.3	1231.1	1302.2	1244.4	1094.7	1015.1	1008.4	1054.2	1202.3	1311.8	1248.5
27.5°	1342.4	1360.8	1416.8	1317.1	1118.2	1013.2	1005.2	1052.1	1223.2	1388.4	1357.8
30°	1439.1	1456.0	1494.1	1378.3	1147.1	1026.0	1016.1	1069.0	1241.2	1440.8	1464.3
32.5°	1515.0	1532.6	1553.3	1416.4	1185.1	1049.3	1031.1	1099.8	1264.7	1480.8	1543.3
35°	1594.2	1614.9	1613.4	1450.2	1220.7	1076.3	1058.5	1144.3	1301.7	1515.7	1643.4
37.5°	1694.5	1702.8	1692.2	1480.6	1263.2	1124.8	1115.0	1210.4	1354.4	1557.8	1760.4
40°	1796.3	1813.0	1758.0	1517.4	1315.0	1216.2	1215.1	1308.2	1416.8	1607.2	1873.8
42.5°	1883.6	1897.7	1819.7	1549.5	1377.7	1327.6	1335.8	1439.3	1498.8	1664.6	1964.9
45°	1949.3	1961.9	1876.6	1580.5	1460.3	1456.4	1504.3	1579.8	1602.1	1716.1	2018.4
47.5°	2005.1	2017.3	1916.1	1627.5	1562.3	1610.2	1693.6	1726.4	1690.4	1745.6	2078.3
50°	2052.2	2055.8	1943.3	1683.6	1688.9	1798.7	1879.5	1900.7	1777.7	1788.0	2130.3
52.5°	2101.2	2096.5	1990.1	1754.2	1825.9	1977.5	2036.4	2058.4	1861.4	1840.2	2206.0
55°	2210.9	2215.4	2095.2	1843.2	1964.3	2153.2	2230.6	2209.4	1954.0	1936.2	2302.3
57.5°	2343.6	2339.7	2243.0	1982.4	2105.2	2316.6	2374.4	2340.3	2077.6	2068.2	2399.8
60°	2395.1	2400.2	2366.7	2132.2	2244.3	2459.7	2518.8	2465.9	2225.9	2221.6	2473.4
62.5°	2343.3	2372.2	2394.9	2265.5	2362.8	2565.0	2623.6	2563.3	2380.6	2411.6	2525.0
65°	2240.2	2246.4	2323.7	2378.4	2419.9	2582.3	2612.9	2580.8	2509.8	2584.6	2522.6
67.5°	2106.3	2111.7	2202.1	2415.4	2346.3	2385.5	2406.9	2397.5	2469.8	2643.9	2406.4
70°	1978.8	1974.5	2070.2	2321.1	2042.6	1983.1	2000.8	1971.3	2131.1	2499.1	2178.6
72.5°	1730.7	1746.1	1848.7	2058.8	1617.3	1520.6	1559.3	1482.9	1639.1	2140.3	1768.3
75°	1355.6	1359.3	1530.6	1727.9	1220.0	1067.5	1119.9	1088.0	1255.5	1785.4	1221.1
77.5°	938.7	930.6	1114.8	1319.7	870.0	781.5	782.3	767.1	876.7	1314.6	829.6
80°	596.2	583.8	697.8	815.3	597.9	639.6	618.7	618.0	570.8	811.0	501.7
82.5°	322.2	335.9	440.9	511.1	428.9	494.4	453.1	439.8	391.7	507.6	320.9
85°	146.8	159.6	235.1	347.6	325.8	329.4	220.1	259.7	324.1	412.2	171.4
87.5°	14.3	18.4	48.6	164.1	111.2	87.7	32.7	63.1	81.5	146.5	13.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1042.2	1042.2	1042.2	1042.2	1042.2	1042.2	1042.2	1042.2	1042.2	1042.2	1042.2
2.5°	1107.7	1096.6	1058.7	1027.5	994.3	969.1	936.1	914.1	898.9	876.0	873.2
5°	1056.8	1029.6	963.7	896.6	838.6	794.9	750.7	710.0	686.1	678.6	668.9
7.5°	971.0	925.2	840.5	763.5	697.0	631.9	581.9	546.4	522.6	508.7	492.0
10°	900.4	847.4	744.2	649.9	595.1	554.7	510.6	472.6	443.3	418.2	404.5
12.5°	852.9	793.0	677.1	600.5	558.1	515.1	463.6	420.8	377.6	349.1	336.9
15°	838.6	775.3	656.3	575.9	515.1	458.9	401.1	345.3	302.5	275.5	266.6
17.5°	873.7	797.1	656.1	543.2	464.6	397.5	323.5	271.0	227.2	207.1	200.7
20°	939.1	839.0	658.0	510.9	409.9	315.3	235.3	192.3	171.4	162.8	159.6
22.5°	1030.5	903.0	663.8	479.0	350.0	242.2	176.3	154.5	147.0	145.5	144.8
25°	1143.0	982.1	683.3	450.3	299.5	184.8	147.4	137.6	133.3	131.8	131.6
27.5°	1246.5	1084.4	706.8	425.7	250.7	159.4	133.3	124.9	120.7	120.4	120.9
30°	1340.0	1170.0	726.5	398.1	213.7	141.6	124.1	115.7	111.7	111.5	112.7
32.5°	1420.9	1240.3	741.0	370.9	193.2	130.7	115.7	106.7	103.3	102.7	103.3
35°	1507.3	1310.5	734.4	349.8	181.4	121.7	109.5	100.8	96.7	94.8	94.8
37.5°	1605.9	1382.8	723.1	332.2	176.1	114.2	104.2	95.6	91.6	89.6	89.4
40°	1713.5	1455.1	707.5	316.6	170.7	109.7	100.5	91.6	86.6	84.7	84.3
42.5°	1808.5	1516.9	694.6	306.3	161.9	110.6	97.3	88.6	82.4	79.8	79.6
45°	1891.1	1579.2	692.3	300.4	154.7	109.3	96.5	86.2	78.9	76.2	75.7
47.5°	1955.7	1644.0	705.7	296.9	146.8	102.5	102.0	84.7	75.9	72.9	72.5
50°	2034.4	1736.0	736.5	289.9	139.5	96.1	107.8	84.5	73.6	69.7	68.7
52.5°	2139.3	1855.8	778.3	277.2	129.0	90.1	102.9	84.5	70.8	67.0	65.7
55°	2297.8	2008.5	819.1	259.5	114.2	82.1	92.8	81.9	66.7	63.3	62.5
57.5°	2402.8	2120.2	845.2	234.9	95.8	76.4	80.0	77.9	62.7	59.0	59.0
60°	2408.2	2150.2	832.8	203.9	84.3	71.0	69.5	78.5	59.0	55.2	54.8
62.5°	2346.5	2076.8	768.2	176.1	78.1	65.2	62.9	68.9	55.4	51.6	50.9
65°	2250.3	1889.6	656.1	162.8	74.7	60.1	56.7	56.5	51.6	47.9	47.1
67.5°	2073.4	1651.3	539.1	155.1	72.9	54.3	51.1	50.1	47.1	44.1	43.6
70°	1812.6	1383.0	432.3	151.9	72.1	48.3	45.8	44.5	41.9	39.6	39.4
72.5°	1410.2	1121.8	356.8	149.7	71.7	42.8	40.0	38.3	36.8	34.7	34.7
75°	1012.9	825.3	272.3	135.0	66.3	36.8	33.8	32.7	30.6	28.9	29.3
77.5°	638.6	555.8	179.3	99.3	51.3	29.5	27.0	26.3	24.6	22.2	23.7
80°	431.3	390.8	104.6	62.5	32.3	21.6	20.8	20.5	18.6	16.0	16.3
82.5°	293.5	287.9	54.3	35.5	18.6	12.6	12.2	12.6	10.5	8.6	8.6
85°	114.7	156.6	25.7	13.9	6.0	1.9	2.8	3.0	1.7	0.9	1.1
87.5°	2.1	16.0	0.6	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°	1042.2	1042.2	1042.2	1042.2	1042.2	1042.2	1042.2	1042.2	1042.2	1042.2	1042.2
2.5°	869.0	867.0	870.2	856.6	859.3	864.5	867.0	868.5	889.7	884.8	898.3
5°	677.9	676.0	688.4	690.1	696.5	695.3	701.5	703.0	710.7	713.4	732.3
7.5°	493.1	501.4	515.6	522.8	533.7	537.2	534.0	541.9	525.8	537.4	540.8
10°	396.2	386.1	380.1	396.8	399.0	414.8	408.4	403.2	412.7	413.1	422.1
12.5°	329.9	308.3	293.9	298.6	303.8	310.6	311.7	322.0	328.8	335.2	340.6
15°	258.6	251.1	238.1	231.7	239.0	241.7	248.4	256.9	264.2	266.1	273.4
17.5°	198.5	199.8	197.7	193.8	198.3	200.4	200.9	201.1	203.0	201.7	212.4
20°	159.8	164.3	169.6	170.5	172.0	173.1	171.1	163.9	164.1	168.6	172.0
22.5°	144.6	145.5	151.5	153.4	158.1	156.2	150.6	147.2	146.8	147.8	149.5
25°	132.6	133.9	138.2	141.2	144.8	141.4	137.3	134.1	133.7	134.8	136.5
27.5°	121.9	123.9	127.7	130.7	134.1	130.9	127.1	124.3	124.1	123.9	124.9
30°	113.4	115.5	118.3	121.7	124.1	121.3	117.7	116.2	115.9	115.5	115.9
32.5°	104.8	108.2	111.0	112.7	115.1	113.0	110.2	109.3	107.8	106.5	105.9
35°	95.2	98.8	103.1	105.3	107.6	105.5	103.5	99.9	97.3	97.1	97.6
37.5°	89.6	91.1	94.6	98.2	100.5	99.5	95.8	92.2	91.6	91.6	92.0
40°	84.7	85.4	86.9	91.6	95.8	92.6	88.1	87.1	87.1	86.9	87.1
42.5°	79.8	80.4	80.4	84.1	90.9	85.8	82.4	82.4	82.4	82.6	83.2
45°	75.3	75.5	75.3	77.9	84.3	80.0	77.7	78.3	78.7	79.2	79.6
47.5°	71.5	71.7	71.5	73.6	76.8	75.1	73.8	74.7	75.5	76.2	76.6
50°	68.0	67.8	68.2	69.5	71.0	71.5	70.6	71.9	72.3	73.2	74.2
52.5°	65.0	64.8	65.2	65.9	68.0	68.0	68.0	69.1	70.0	70.8	72.3
55°	61.6	61.8	62.5	63.3	66.1	65.7	65.9	66.7	67.6	68.9	69.7
57.5°	58.4	58.8	59.7	61.0	63.7	63.5	63.7	64.2	65.2	65.9	66.7
60°	54.8	55.6	56.7	57.5	60.3	60.1	61.2	62.0	62.7	62.7	63.1
62.5°	51.1	52.4	53.5	54.1	57.1	57.3	58.8	59.5	59.9	59.5	60.1
65°	47.5	49.4	49.8	50.7	53.7	53.9	55.6	57.1	56.7	56.3	57.3
67.5°	43.9	46.2	46.0	47.1	50.1	50.5	52.0	54.6	53.7	53.3	54.1
70°	39.8	41.5	41.7	42.4	46.4	45.8	48.1	50.5	49.8	50.1	50.1
72.5°	35.3	36.8	36.8	38.1	42.4	41.3	43.2	45.8	45.8	45.6	45.6
75°	29.9	30.8	31.7	33.6	38.1	36.8	38.1	40.4	40.9	40.4	40.4
77.5°	24.2	25.5	25.9	28.5	31.7	31.4	32.7	33.8	34.7	34.2	34.2
80°	17.1	18.4	20.1	22.9	24.8	25.5	26.1	27.0	27.4	27.4	27.8
82.5°	9.6	11.6	13.0	15.8	16.7	19.9	19.7	20.3	19.7	17.3	19.3
85°	2.1	4.1	5.8	7.3	8.3	11.6	12.2	13.7	11.3	10.5	10.5
87.5°	0.0	0.0	0.0	0.0	0.0	1.7	3.4	4.7	4.1	3.4	3.4
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1042.2	1042.2	1042.2	1042.2	1042.2	1042.2	1042.2	1042.2	1042.2	1042.2
2.5°	909.6	928.2	950.7	989.4	1016.6	1045.9	1075.4	1106.9	1115.2	1123.8
5°	737.4	774.0	793.9	845.9	900.4	969.7	1026.4	1088.5	1114.3	1120.3
7.5°	558.6	583.4	635.6	688.2	755.8	828.5	915.4	1012.1	1042.2	1054.9
10°	442.8	476.6	522.4	578.9	638.1	716.4	814.4	927.4	970.2	977.2
12.5°	376.9	414.6	464.4	524.1	580.2	639.2	738.0	854.6	900.4	915.6
15°	301.4	347.0	404.5	467.4	528.4	593.0	693.1	824.7	877.5	895.3
17.5°	236.8	273.6	335.9	404.1	476.4	558.1	683.7	839.0	904.0	920.5
20°	181.2	207.5	259.9	332.0	416.7	523.7	686.1	893.1	971.0	993.5
22.5°	156.6	170.1	201.9	270.6	365.4	493.7	695.7	967.4	1061.3	1098.7
25°	141.8	148.9	166.9	211.8	316.4	464.6	717.7	1067.3	1187.5	1212.3
27.5°	129.2	134.3	145.5	177.8	271.9	437.7	743.4	1178.1	1305.4	1342.4
30°	117.2	124.1	134.6	157.9	243.4	413.1	775.7	1267.9	1404.6	1439.1
32.5°	108.0	114.9	124.5	144.0	219.3	387.2	794.9	1346.9	1485.7	1515.0
35°	100.5	106.3	116.4	132.8	200.9	367.5	791.1	1409.6	1564.2	1594.2
37.5°	95.2	100.1	110.2	122.4	187.0	347.0	789.2	1492.3	1659.8	1694.5
40°	90.3	95.4	104.6	115.5	173.1	322.8	790.2	1574.5	1761.7	1796.3
42.5°	86.4	92.2	99.7	113.6	158.7	303.3	790.2	1645.9	1850.2	1883.6
45°	83.2	89.4	96.7	113.4	147.4	288.6	784.9	1707.3	1920.8	1949.3
47.5°	80.4	87.3	97.8	109.5	144.6	277.9	780.2	1756.5	1978.4	2005.1
50°	78.5	86.6	104.0	105.0	145.5	274.7	802.9	1818.6	2029.1	2052.2
52.5°	77.0	86.9	103.8	98.4	144.0	276.8	850.1	1915.5	2099.5	2101.2
55°	74.0	86.6	98.4	90.9	137.8	280.5	910.9	2056.3	2209.6	2210.9
57.5°	71.0	84.3	91.3	84.5	125.1	280.5	984.1	2189.5	2342.5	2343.6
60°	68.0	87.7	80.2	78.9	108.7	275.3	1061.3	2248.1	2384.2	2395.1
62.5°	65.0	88.4	71.7	74.0	96.7	262.9	1118.8	2183.3	2327.7	2343.3
65°	61.6	71.2	66.1	68.9	90.5	242.2	1100.6	2064.6	2221.6	2240.2
67.5°	57.5	60.3	60.1	63.5	88.4	211.6	1004.8	1914.4	2107.4	2106.3
70°	52.6	54.1	54.8	58.4	84.3	187.8	837.3	1719.5	1954.9	1978.8
72.5°	47.5	48.8	49.4	52.6	80.2	174.3	649.9	1451.1	1693.2	1730.7
75°	41.9	42.8	43.6	46.4	75.9	154.5	462.9	1107.7	1296.8	1355.6
77.5°	36.2	36.2	37.2	40.0	64.0	127.5	310.6	777.0	878.6	938.7
80°	29.3	29.5	29.1	32.1	47.1	87.3	176.5	519.0	584.7	596.2
82.5°	22.5	21.8	22.0	23.5	35.1	59.5	94.1	322.4	328.6	322.2
85°	14.1	14.1	13.7	15.4	22.5	31.0	51.3	197.5	154.2	146.8
87.5°	5.8	4.7	5.3	6.2	10.7	12.6	20.1	40.6	15.6	14.3
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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