

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: P450495

Luminaire Tested: **GALN-SA1B-740-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450495
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-740-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4963 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

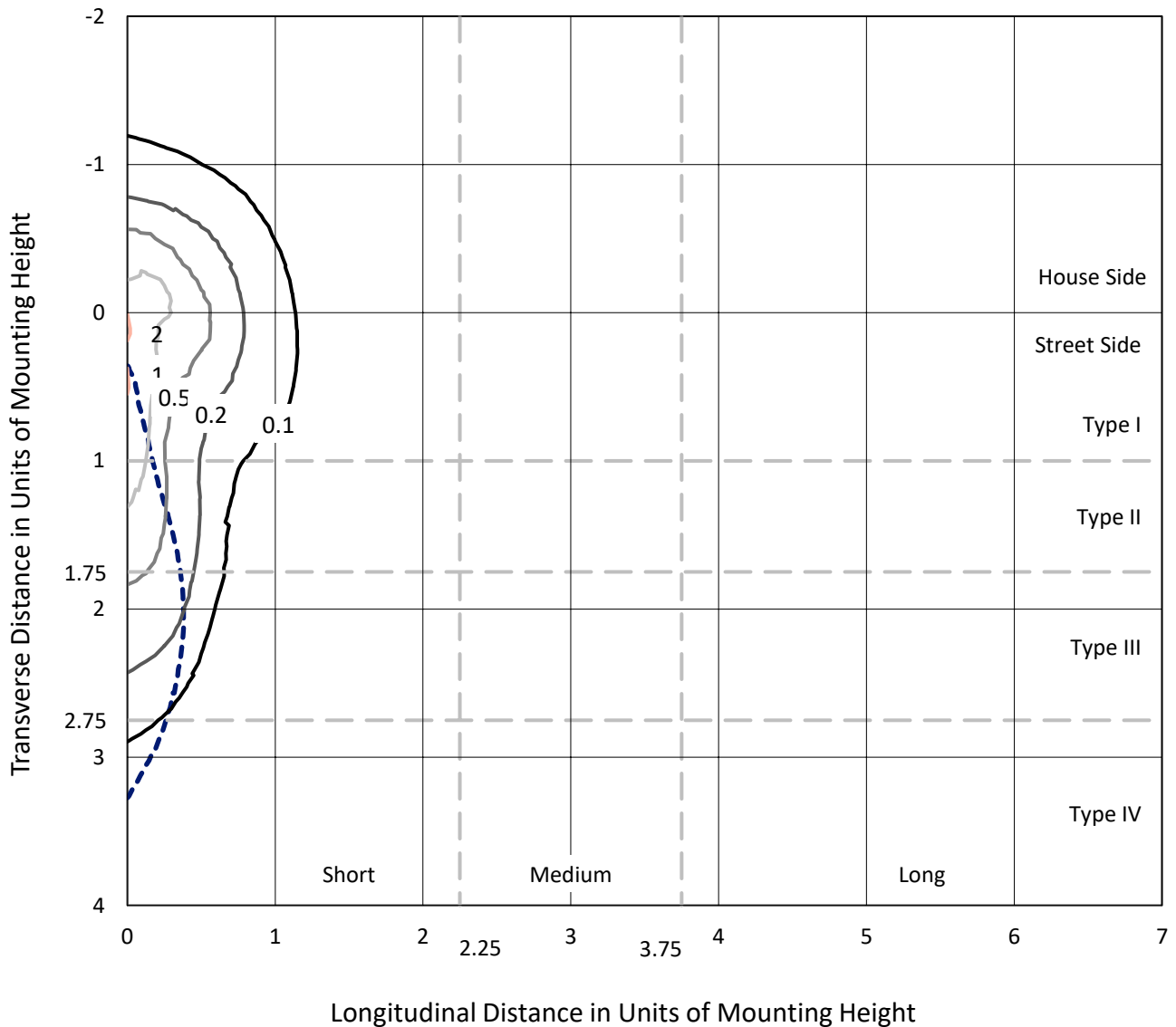
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

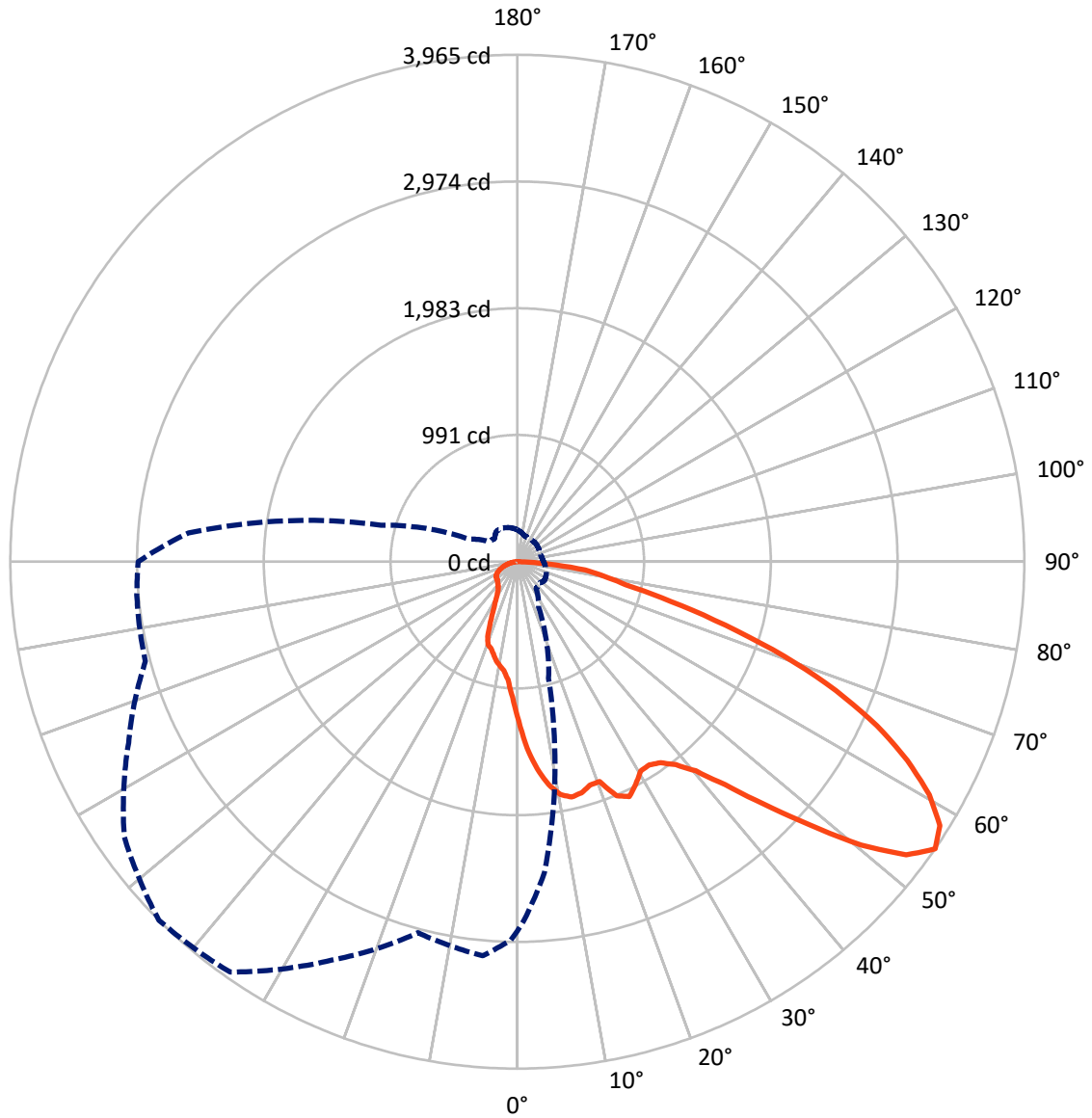
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1085.6	0.0	1085.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	3877.4	0.0	3877.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	4963.0	0.0	4963.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.6	2.1
10°-20°	280.1	5.6
20°-30°	483.8	9.7
30°-40°	562.3	11.3
40°-50°	784.5	15.8
50°-60°	1064.4	21.4
60°-70°	1012.7	20.4
70°-80°	547.1	11.0
80°-90°	122.6	2.5
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°	4963.0	100.0
0°-180°	4963.0	100.0

Coefficient of Utilization



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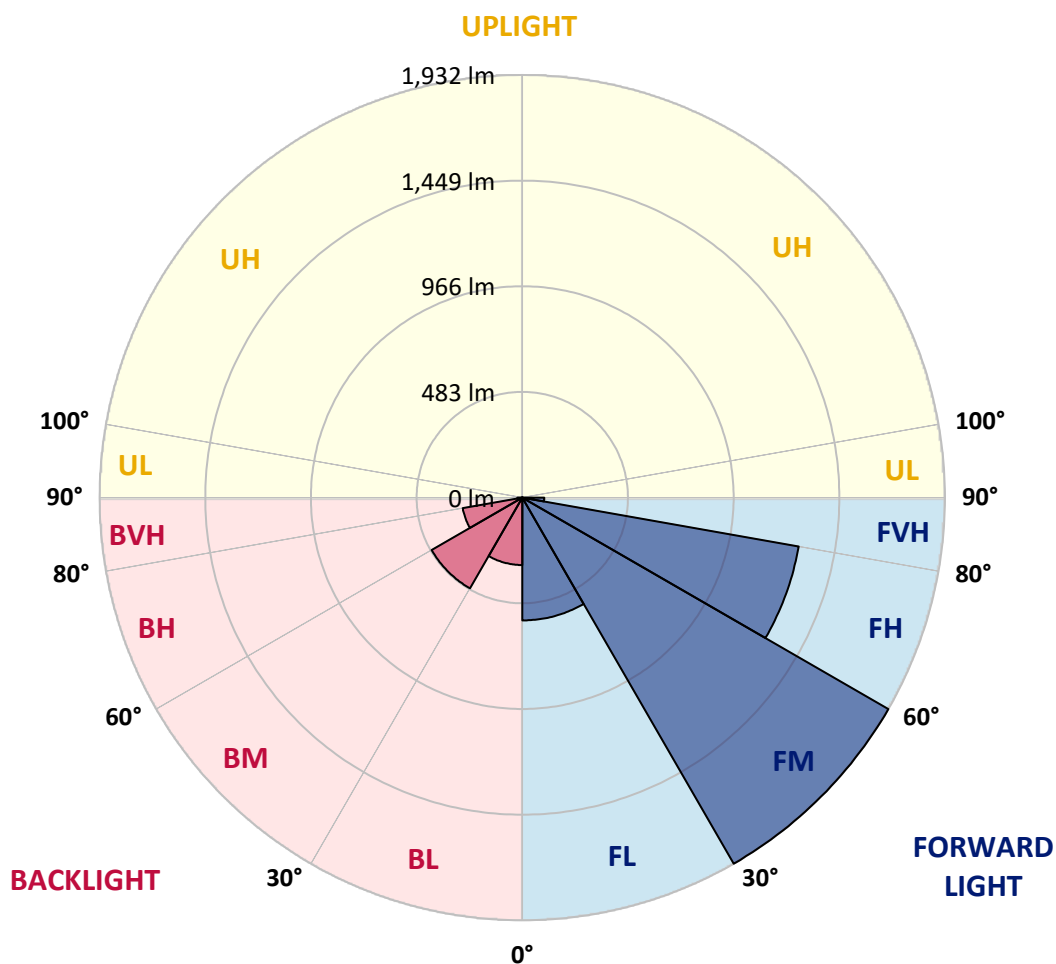
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	561.3	11.3			
FM (30°-60°)	1932.5	38.9			
FH (60°-80°)	1283.4	25.9			G1/1800
FVH (80°-90°)	100.2	2.0			G2/225
BL (0°-30°)	308.1	6.2	B1/500		
BM (30°-60°)	478.7	9.6	B1/1000		
BH (60°-80°)	276.4	5.6	B1/500		G1/500
BVH (80°-90°)	22.4	0.5			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1245.5	1245.5	1245.5	1245.5	1245.5	1245.5	1245.5	1245.5	1245.5	1245.5	1245.5
2.5°	1383.7	1378.5	1363.7	1325.1	1286.1	1246.5	1216.1	1178.1	1138.5	1117.2	1090.0
5°	1402.7	1396.8	1362.1	1275.0	1196.1	1113.2	1047.1	989.1	965.6	930.9	903.0
7.5°	1358.2	1355.5	1303.5	1178.4	1070.3	962.0	887.0	840.5	798.3	782.5	785.8
10°	1317.6	1307.1	1241.9	1078.5	952.5	864.4	810.7	765.2	735.4	727.5	729.2
12.5°	1283.8	1269.7	1192.8	1011.4	901.1	830.7	762.2	714.8	687.6	695.1	720.7
15°	1277.0	1258.0	1172.2	988.5	872.9	782.2	707.2	652.6	632.3	648.6	689.6
17.5°	1321.5	1297.6	1207.5	996.0	846.1	732.8	640.8	578.2	561.2	587.4	640.8
20°	1464.6	1429.2	1317.9	1039.6	843.4	708.2	602.1	539.3	546.5	596.2	651.9
22.5°	1729.1	1676.1	1511.1	1103.1	857.2	702.0	594.3	561.5	601.1	643.4	680.1
25°	1781.5	1739.9	1545.8	1117.5	854.2	697.7	616.5	632.9	677.1	698.1	685.3
27.5°	1811.0	1763.5	1543.5	1046.1	763.9	632.9	589.4	616.5	627.7	607.4	572.7
30°	1879.7	1830.3	1582.4	971.1	629.0	469.5	411.6	400.4	408.0	411.9	399.5
32.5°	1974.4	1925.6	1655.8	922.0	543.9	388.3	331.4	315.6	312.0	307.8	302.9
35°	2096.8	2021.8	1727.8	890.6	508.8	359.2	306.8	294.7	289.8	283.9	278.6
37.5°	2221.2	2142.7	1818.8	857.5	485.6	338.9	290.4	284.9	276.3	270.1	262.6
40°	2353.5	2265.4	1901.7	828.7	463.0	325.8	278.6	278.0	266.9	259.6	250.8
42.5°	2468.1	2377.4	1975.7	811.0	445.6	312.0	271.4	273.4	261.9	251.1	239.7
45°	2559.1	2470.1	2044.1	811.0	431.5	298.3	270.1	268.8	257.4	243.9	230.8
47.5°	2639.0	2547.0	2110.9	831.7	422.7	286.8	262.9	265.2	253.4	236.4	223.6
50°	2700.9	2619.7	2200.9	863.7	413.9	277.7	253.8	266.2	250.2	232.5	217.7
52.5°	2779.8	2707.1	2309.3	907.6	406.3	267.5	245.6	266.2	249.8	232.8	216.8
55°	2889.2	2812.6	2440.0	944.0	394.2	258.0	238.4	258.7	248.8	231.2	214.1
57.5°	2965.8	2908.5	2532.3	968.2	376.9	245.9	231.8	251.5	244.6	224.9	206.3
58°	2969.4	2913.4	2545.7	973.8	372.6	243.6	230.2	248.2	242.6	222.3	203.7
60°	2928.1	2880.0	2548.3	965.9	348.4	232.1	221.7	234.8	232.1	206.9	189.6
62.5°	2778.2	2726.8	2442.6	902.1	316.3	218.1	208.6	216.8	210.9	185.3	169.3
65°	2565.0	2470.4	2225.2	801.9	293.4	203.0	190.9	191.5	185.3	167.0	152.9
67.5°	2281.2	2175.4	1884.0	675.8	276.0	186.3	169.9	168.3	160.8	149.0	137.5
70°	1931.8	1859.4	1531.0	549.7	256.7	168.0	146.4	145.4	140.8	132.0	121.8
72.5°	1565.7	1473.7	1236.4	440.1	233.1	150.3	124.4	126.4	120.5	114.3	105.1
75°	1155.5	1095.2	955.7	353.0	201.4	131.0	103.8	104.4	101.8	95.3	88.1
77.5°	760.9	742.9	683.7	231.8	154.9	104.1	84.8	85.5	83.5	77.6	70.1
80°	512.1	500.0	463.3	149.3	103.5	75.3	65.5	66.1	65.8	59.6	49.4
82.5°	315.6	310.4	298.6	100.8	71.7	54.0	43.2	45.2	48.8	41.9	33.7
85°	149.0	149.3	180.4	55.0	42.2	34.7	23.6	25.2	25.2	25.2	19.0
87.5°	19.3	20.3	24.9	23.2	15.4	13.1	8.5	7.2	6.2	8.2	5.9
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°	1245.5	1245.5	1245.5	1245.5	1245.5	1245.5	1245.5	1245.5	1245.5	1245.5	1245.5
2.5°	1080.5	1073.9	1059.9	1056.6	1054.6	1060.2	1045.5	1049.4	1042.8	1061.2	1058.2
5°	904.7	905.3	916.8	924.3	926.9	924.3	914.5	897.5	884.4	879.1	880.4
7.5°	779.6	791.1	810.7	832.6	852.6	858.5	852.9	820.5	785.2	762.9	755.7
10°	738.0	753.4	776.0	793.3	811.0	825.1	828.1	802.8	760.9	708.2	687.6
12.5°	740.3	761.3	782.9	788.4	786.8	792.4	789.7	785.5	758.0	690.9	656.5
15°	718.7	743.6	758.6	755.7	750.5	745.5	738.7	727.9	718.0	670.9	632.9
17.5°	668.9	694.5	706.9	707.9	707.9	706.6	689.9	686.0	684.6	661.7	638.5
20°	678.1	692.2	686.6	677.4	680.1	688.9	679.1	677.1	684.6	694.8	690.5
22.5°	683.3	678.4	636.5	595.9	586.7	614.2	619.8	641.8	672.2	708.9	732.8
25°	650.9	611.3	536.3	490.5	464.6	490.2	523.6	564.2	609.7	656.8	684.6
27.5°	544.2	514.1	460.4	419.1	396.5	400.4	428.9	465.9	508.2	539.9	560.2
30°	409.9	396.5	368.7	354.6	340.8	337.6	349.7	363.8	382.4	386.4	391.6
32.5°	301.9	299.9	301.6	297.0	294.4	294.0	290.4	293.7	295.7	298.0	293.4
35°	273.1	270.5	265.9	264.6	262.9	263.6	261.9	260.3	261.6	263.6	264.9
37.5°	258.3	254.4	247.9	245.6	245.6	246.5	243.9	243.3	245.6	251.8	255.1
40°	246.9	242.3	234.8	231.8	233.8	236.4	232.8	231.5	237.1	243.6	248.8
42.5°	236.1	232.5	225.3	222.0	223.6	228.5	223.3	222.3	229.5	236.7	242.9
45°	226.9	223.3	216.8	215.1	215.8	220.4	216.8	216.8	223.6	231.5	237.1
47.5°	219.7	215.1	210.9	209.6	210.2	212.8	212.2	212.2	218.7	226.9	232.5
50°	212.5	208.6	203.0	203.7	205.3	208.9	208.6	209.6	216.1	226.2	232.1
52.5°	209.2	203.3	197.1	197.8	202.7	206.9	205.6	206.6	214.1	233.1	241.6
55°	205.6	197.8	190.6	191.5	197.1	203.3	201.7	203.0	211.8	237.7	249.5
57.5°	198.7	189.6	181.7	182.4	190.6	197.1	194.5	196.1	206.6	232.8	245.2
58°	195.8	187.9	180.4	180.7	188.6	195.8	192.9	194.2	205.0	231.5	243.3
60°	183.4	178.8	172.2	172.6	180.1	186.3	184.7	186.0	196.5	222.0	230.8
62.5°	166.3	163.7	162.1	162.1	166.7	172.6	174.2	175.8	185.3	200.7	208.6
65°	148.0	148.0	148.3	148.3	151.3	158.8	159.8	164.0	172.9	180.4	186.3
67.5°	135.6	134.9	135.6	133.9	135.2	139.8	144.7	148.7	157.8	163.1	165.0
70°	119.5	119.2	119.5	117.2	118.9	122.8	126.1	132.6	142.1	146.0	147.0
72.5°	103.8	103.8	104.4	102.8	102.8	107.1	109.4	116.6	125.4	127.7	128.0
75°	87.4	88.4	88.4	86.1	86.8	89.4	92.3	98.2	106.4	108.0	108.0
77.5°	69.4	73.0	73.0	70.7	71.7	72.0	76.0	78.9	85.1	85.8	83.2
80°	50.4	54.0	57.0	55.0	56.6	54.7	57.0	58.9	65.2	62.2	58.0
82.5°	36.0	38.6	40.9	41.3	39.6	36.0	39.0	39.3	42.2	38.3	36.0
85°	20.0	22.3	25.2	23.9	21.3	19.0	20.0	20.6	20.3	19.3	18.0
87.5°	5.2	5.6	6.2	4.6	4.3	3.6	4.9	4.9	5.6	5.9	5.6
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°	1245.5	1245.5	1245.5	1245.5	1245.5	1245.5	1245.5	1245.5	1245.5	1245.5	1245.5
2.5°	1060.5	1074.9	1106.0	1129.6	1158.4	1193.5	1234.7	1276.3	1321.2	1335.2	1354.9
5°	877.5	913.5	928.6	971.5	1014.0	1077.9	1146.0	1224.9	1311.3	1352.9	1392.9
7.5°	749.8	769.1	784.8	816.3	867.3	944.9	1030.4	1129.0	1251.4	1312.0	1370.6
10°	681.0	683.0	702.3	741.3	785.8	854.2	935.1	1045.5	1182.0	1255.7	1324.4
12.5°	635.5	627.0	648.0	688.6	739.0	802.2	876.5	981.6	1131.9	1207.5	1290.7
15°	595.6	582.2	597.9	639.5	689.2	763.6	843.4	954.8	1112.3	1200.3	1292.7
17.5°	596.6	559.6	565.1	600.2	649.6	725.2	822.2	953.8	1142.1	1243.6	1352.9
20°	670.2	611.0	585.8	592.3	640.1	722.6	832.0	999.6	1240.0	1387.9	1504.8
22.5°	742.6	706.9	666.3	652.9	679.1	765.5	894.5	1108.0	1452.8	1675.8	1886.9
25°	717.4	747.8	737.7	718.7	724.6	796.3	937.1	1197.1	1618.1	1869.3	2067.7
27.5°	574.0	629.3	640.4	640.1	642.4	701.3	842.8	1137.1	1638.8	1906.3	2095.8
30°	403.4	408.3	414.2	425.7	436.1	488.8	659.4	998.3	1629.6	1923.0	2112.9
32.5°	291.1	297.6	305.8	321.5	346.4	413.5	576.9	954.1	1678.0	1992.0	2162.6
35°	266.2	273.7	281.6	299.6	323.2	385.4	544.2	935.8	1757.6	2104.0	2252.0
37.5°	258.3	266.9	273.7	286.8	305.8	365.1	514.4	923.3	1839.1	2222.6	2371.9
40°	252.8	262.6	268.2	278.6	291.7	346.4	487.9	913.5	1918.0	2330.9	2468.1
42.5°	247.9	258.0	265.2	272.7	283.5	329.7	464.3	903.7	1986.5	2436.0	2564.1
45°	242.0	254.7	263.9	269.8	279.3	315.6	446.3	895.8	2064.4	2529.3	2661.0
47.5°	237.1	251.1	262.6	269.5	273.1	305.8	431.9	906.6	2158.0	2626.9	2751.0
50°	237.4	250.8	265.2	276.0	266.5	297.6	423.0	949.5	2279.9	2742.8	2822.1
52.5°	247.9	264.2	275.7	278.3	257.4	287.8	418.4	1024.5	2423.9	2845.3	2893.8
55°	259.6	276.7	289.1	287.5	252.4	275.4	417.5	1104.4	2581.7	2964.8	2987.1
57.5°	255.4	280.3	299.3	290.8	252.8	263.2	413.2	1168.9	2713.7	3054.2	3079.4
58°	254.1	279.0	300.6	290.1	251.8	259.6	412.2	1174.5	2732.0	3060.4	3092.5
60°	241.3	267.5	299.6	285.2	246.2	249.8	401.4	1192.5	2727.1	3028.3	3100.4
62.5°	218.1	239.7	277.0	261.3	229.2	236.7	377.2	1170.2	2594.2	2873.8	2985.4
65°	191.9	207.9	232.8	229.9	205.0	223.3	344.1	1082.1	2328.0	2623.0	2740.5
67.5°	172.2	185.3	201.0	196.8	184.3	205.3	308.4	933.2	2029.4	2321.8	2469.8
70°	152.3	162.4	170.3	167.3	163.4	187.6	276.7	757.3	1743.2	2035.6	2179.0
72.5°	132.0	141.4	148.0	143.7	141.4	169.0	250.8	587.7	1376.8	1679.4	1863.7
75°	110.3	119.8	124.4	119.5	118.2	149.0	212.5	439.1	1033.0	1294.6	1453.8
77.5°	85.5	95.6	101.5	99.9	100.5	122.5	171.6	300.6	738.7	882.4	1050.0
80°	59.9	71.1	75.0	73.3	77.9	93.3	121.1	190.9	509.5	572.7	690.9
82.5°	37.0	47.5	48.1	49.8	53.0	69.1	91.4	116.2	319.9	330.7	416.5
85°	18.7	22.6	24.2	26.8	29.8	42.2	52.1	72.0	205.9	155.9	232.8
87.5°	6.2	6.5	7.9	9.8	12.1	17.4	22.3	29.5	51.1	28.2	72.0
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°	1245.5	1245.5	1245.5	1245.5	1245.5	1245.5	1245.5	1245.5	1245.5	1245.5
2.5°	1394.5	1422.3	1442.6	1461.3	1443.3	1441.6	1424.0	1395.5	1383.7	1383.7
5°	1476.7	1541.8	1594.6	1628.3	1613.9	1579.2	1521.9	1448.8	1409.6	1402.7
7.5°	1499.3	1627.9	1725.8	1760.6	1736.3	1659.7	1550.0	1426.9	1370.6	1358.2
10°	1485.5	1652.8	1796.6	1851.6	1817.9	1701.9	1552.3	1401.4	1332.0	1317.6
12.5°	1471.1	1656.1	1809.7	1889.2	1867.3	1736.0	1569.0	1384.7	1304.5	1283.8
15°	1481.6	1657.4	1793.6	1875.8	1889.9	1776.9	1596.5	1396.8	1298.9	1277.0
17.5°	1547.7	1682.3	1770.7	1837.2	1886.6	1832.6	1674.8	1454.7	1348.7	1321.5
20°	1685.9	1741.9	1783.8	1835.2	1914.8	1946.2	1834.9	1613.9	1488.5	1464.6
22.5°	2086.0	2075.9	1990.1	1989.1	2104.4	2230.4	2222.9	1937.4	1748.8	1729.1
25°	2236.0	2188.8	2064.7	2034.6	2085.4	2279.9	2251.7	2003.5	1829.3	1781.5
27.5°	2177.4	2060.5	1978.9	1972.1	1955.4	2139.1	2206.8	2030.4	1857.5	1811.0
30°	2173.8	2001.9	1885.3	1899.1	1915.1	2090.6	2231.7	2114.5	1929.5	1879.7
32.5°	2182.6	2010.1	1892.2	1894.8	1942.6	2097.8	2259.2	2206.2	2024.1	1974.4
35°	2218.3	2056.5	1936.1	1929.8	2004.5	2145.0	2306.0	2350.2	2153.5	2096.8
37.5°	2275.9	2149.2	2016.3	2014.6	2123.0	2230.1	2364.3	2495.6	2282.1	2221.2
40°	2360.7	2257.6	2159.0	2150.2	2284.1	2368.6	2440.0	2650.5	2431.8	2353.5
42.5°	2463.2	2387.6	2347.3	2382.3	2511.0	2524.1	2557.8	2793.6	2559.1	2468.1
45°	2558.2	2554.6	2610.5	2703.5	2778.5	2699.9	2680.9	2889.5	2658.0	2559.1
47.5°	2671.1	2768.7	2937.6	3073.9	3152.4	2904.6	2786.0	2952.1	2730.1	2639.0
50°	2785.7	3025.1	3294.9	3484.8	3501.5	3126.9	2858.4	3011.0	2795.5	2700.9
52.5°	2906.2	3229.7	3588.9	3809.6	3777.2	3320.4	2928.5	3050.9	2863.0	2779.8
55°	3011.0	3355.1	3753.3	3965.1	3917.6	3438.3	3004.1	3094.2	2959.3	2889.2
57.5°	3069.6	3365.6	3712.3	3897.3	3845.9	3415.4	3038.8	3126.2	3020.8	2965.8
58°	3078.1	3351.5	3676.0	3858.0	3805.6	3396.0	3038.5	3124.9	3024.7	2969.4
60°	3070.6	3260.2	3540.8	3702.8	3647.8	3274.9	3026.0	3100.4	2975.0	2928.1
62.5°	3000.8	3101.7	3307.3	3425.2	3409.5	3085.6	2975.0	3007.7	2823.4	2778.2
65°	2909.2	2885.6	3008.4	3091.9	3103.6	2943.9	2924.2	2807.3	2628.9	2565.0
67.5°	2797.8	2640.7	2640.3	2687.8	2707.5	2725.8	2818.5	2589.6	2348.6	2281.2
70°	2608.9	2263.2	2159.0	2215.0	2198.6	2353.5	2629.5	2283.8	2010.7	1931.8
72.5°	2262.5	1795.9	1629.3	1701.3	1660.0	1845.7	2300.8	1879.4	1662.7	1565.7
75°	1833.9	1343.4	1171.5	1237.7	1212.1	1400.1	1914.4	1365.0	1192.5	1155.5
77.5°	1424.0	973.4	873.6	864.4	883.4	1041.9	1404.3	921.7	786.1	760.9
80°	914.8	696.8	702.7	690.9	700.7	656.8	852.6	588.1	532.4	512.1
82.5°	602.1	485.6	578.9	534.4	507.5	441.7	559.2	385.1	326.8	315.6
85°	410.3	357.5	325.5	248.8	293.0	340.2	419.4	207.3	164.4	149.0
87.5°	185.3	124.4	91.4	56.3	89.1	102.8	203.7	24.2	18.7	19.3
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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