

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: P648219

Luminaire Tested: **GALN-SA1B-835-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648219
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-835-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3357.5 lumens
Efficiency: N/A
Efficacy: 76.3 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

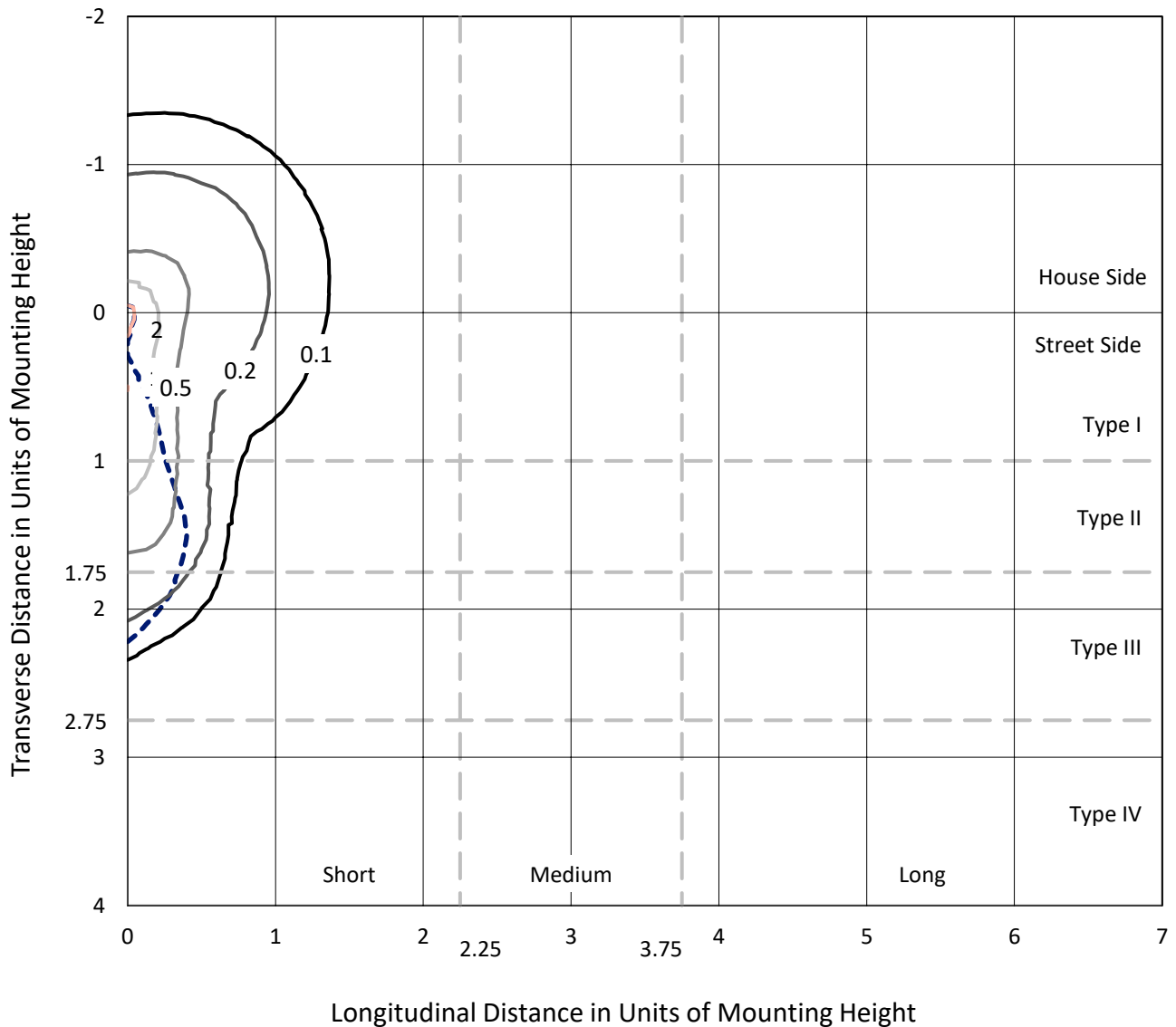
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

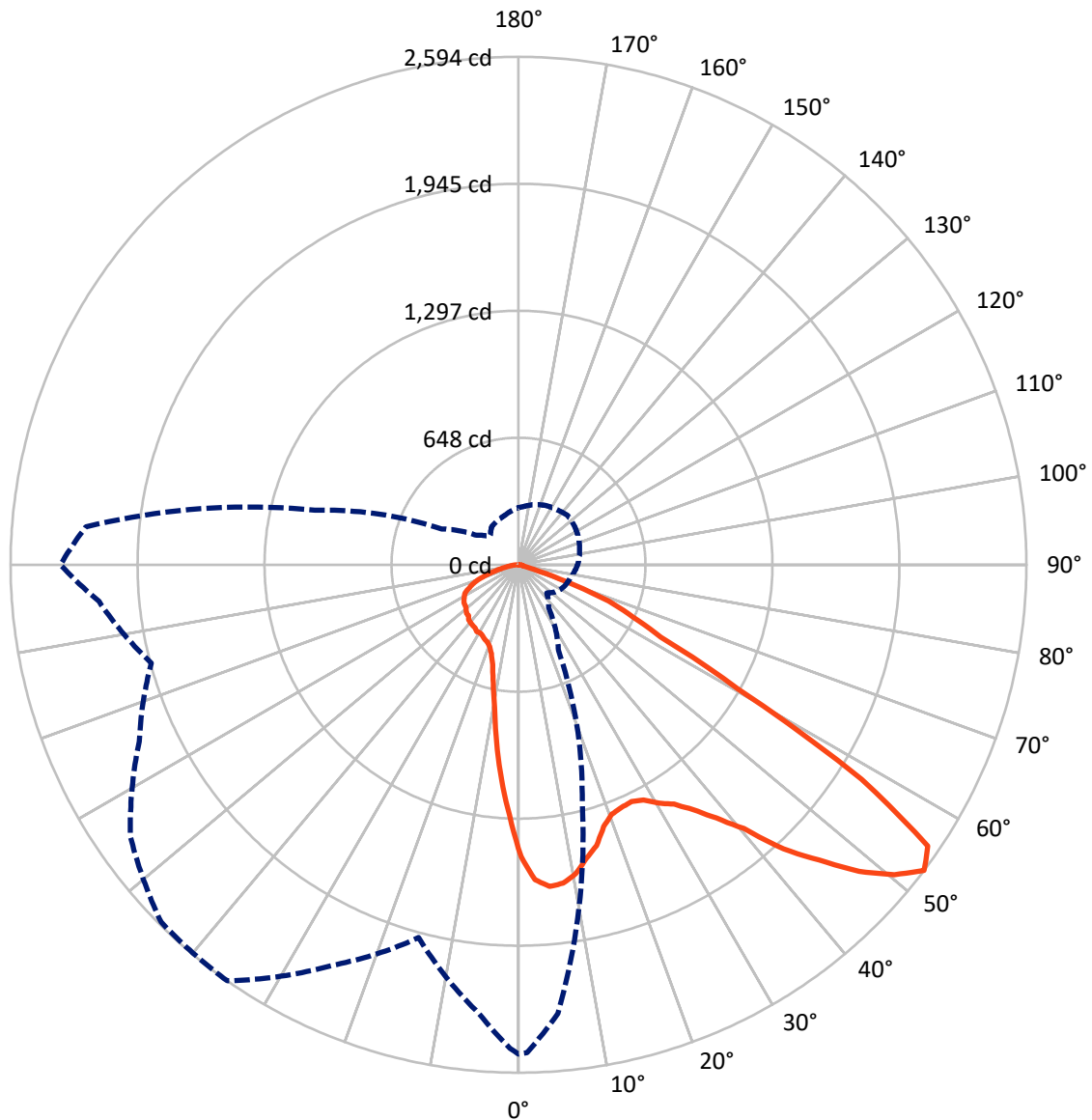
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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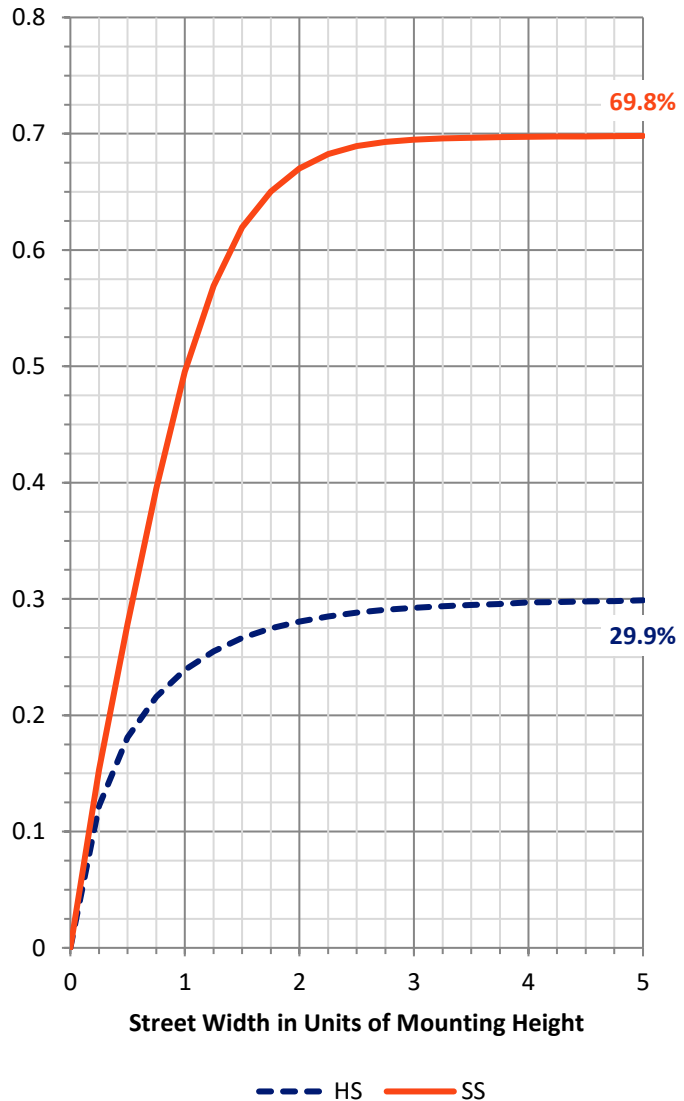
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1012.1	0.0	1012.1
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	2345.4	0.0	2345.4
	% Fixture	69.9	0.0	69.9
Total	Lumens	3357.5	0.0	3357.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.7	3.4
10°-20°	246.4	7.3
20°-30°	372.4	11.1
30°-40°	538.1	16.0
40°-50°	716.1	21.3
50°-60°	800.9	23.9
60°-70°	451.4	13.4
70°-80°	100.6	3.0
80°-90°	17.9	0.5
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°	3357.5	100.0
0°-180°	3357.5	100.0

Coefficient of Utilization



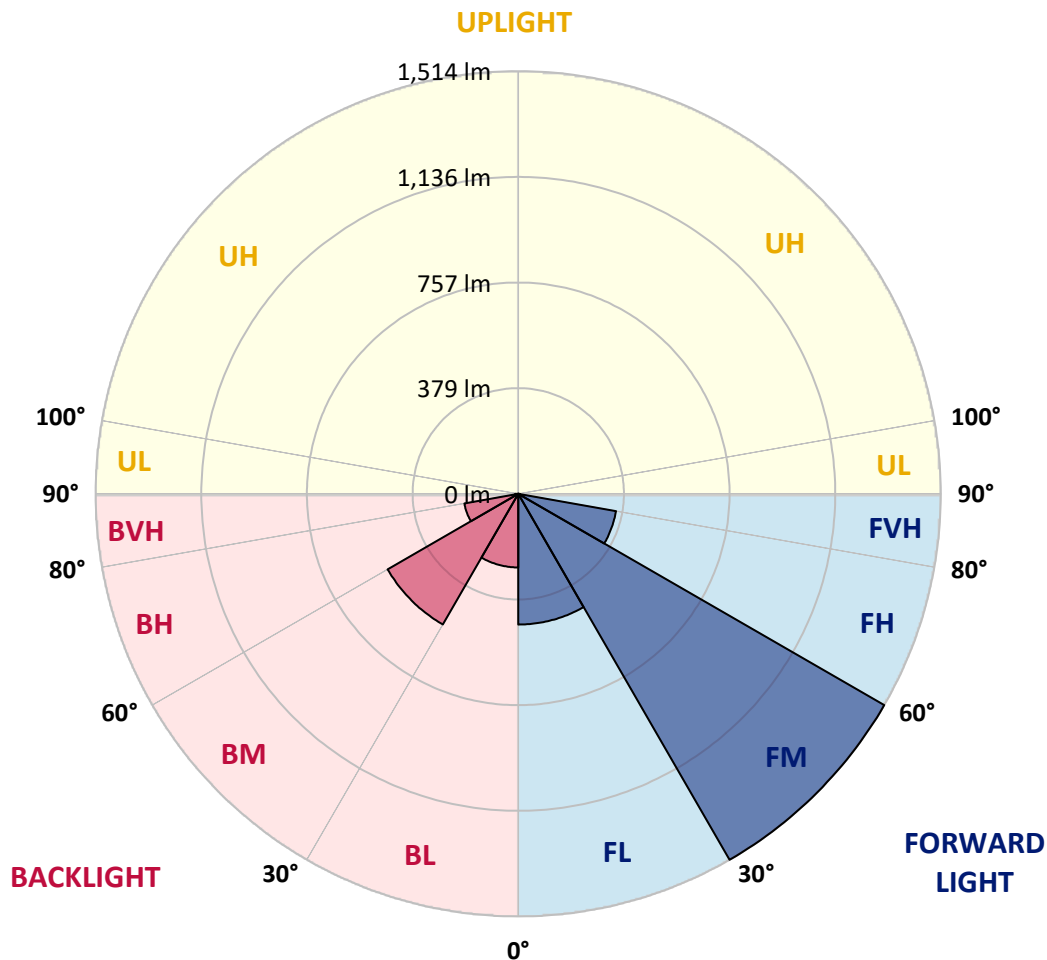
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	468.5	14.0			
FM (30°-60°)	1514.5	45.1			
FH (60°-80°)	355.8	10.6			G0/660
FVH (80°-90°)	6.5	0.2			G0/10
BL (0°-30°)	263.9	7.9	B1/500		
BM (30°-60°)	540.6	16.1	B1/1000		
BH (60°-80°)	196.2	5.8	B1/500		G1/500
BVH (80°-90°)	11.4	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0
2.5°	1514.9	1539.2	1513.0	1466.2	1433.1	1403.0	1371.3	1365.0	1323.7	1316.4	1286.2
5°	1428.7	1423.4	1391.3	1330.0	1262.4	1201.0	1155.8	1111.9	1082.3	1047.7	1045.3
7.5°	1324.1	1293.0	1274.5	1181.5	1097.8	1001.5	960.1	893.5	872.6	841.4	825.4
10°	1230.7	1207.9	1164.6	1071.5	954.8	891.1	846.7	810.7	786.4	754.3	713.9
12.5°	1184.4	1175.2	1126.6	982.5	895.9	827.8	796.6	761.6	720.2	668.6	648.7
15°	1192.7	1161.6	1124.6	965.5	845.8	780.1	730.5	686.6	633.6	584.4	555.8
17.5°	1254.5	1230.7	1156.7	976.2	826.8	731.9	641.9	577.1	529.5	485.1	465.3
20°	1376.2	1341.7	1258.4	989.8	785.9	664.8	561.6	481.8	430.6	407.3	400.5
22.5°	1511.0	1490.6	1357.7	1020.5	753.3	602.4	476.5	396.6	377.6	371.3	384.0
25°	1675.0	1622.0	1512.0	1070.6	728.0	549.4	404.4	360.1	350.4	356.7	371.3
27.5°	1799.6	1785.5	1620.0	1117.8	693.4	485.7	364.0	334.8	337.7	344.1	357.7
30°	1947.6	1876.0	1724.6	1150.4	662.3	441.8	335.8	328.0	330.9	341.6	348.4
32.5°	2036.6	2009.8	1790.3	1199.6	626.3	403.9	313.9	306.5	310.9	327.0	343.1
35°	2150.0	2097.0	1871.6	1212.2	601.0	388.8	298.3	292.9	303.2	314.4	332.4
37.5°	2282.3	2245.8	1984.0	1203.5	587.4	373.3	285.2	282.7	290.0	305.6	326.5
40°	2360.7	2349.5	2042.9	1208.8	566.0	359.6	270.1	273.0	288.1	300.3	320.7
42.5°	2436.1	2363.1	2130.0	1206.8	552.3	341.2	271.5	268.1	279.8	293.9	313.4
45°	2452.7	2380.2	2150.4	1193.2	535.8	323.1	260.3	261.8	275.9	293.5	306.1
47.5°	2441.9	2388.4	2188.4	1189.4	520.2	310.5	243.8	261.3	269.6	283.7	301.7
50°	2434.7	2431.7	2220.5	1207.9	499.3	290.5	223.9	255.0	263.2	277.4	296.8
52.5°	2498.9	2492.5	2300.8	1256.5	482.7	269.1	203.4	239.0	258.9	272.5	291.5
55°	2537.8	2510.1	2438.5	1316.4	455.0	240.9	189.3	219.0	248.2	260.3	279.8
57.5°	2282.8	2263.8	2205.9	1228.8	408.3	203.9	171.8	198.6	233.6	252.6	272.5
60°	1899.3	1869.6	1721.3	1044.3	301.2	158.6	161.1	182.5	229.7	237.0	260.3
62.5°	1790.8	1717.4	1515.4	840.4	231.1	136.2	144.5	167.9	209.2	221.4	244.8
65°	1421.0	1366.5	1084.2	606.8	154.7	118.2	131.9	151.4	180.6	204.4	225.8
67.5°	889.6	837.5	578.6	287.1	108.1	101.2	117.8	138.2	162.1	183.5	207.3
70°	464.7	407.8	267.2	103.7	74.5	82.8	98.3	117.8	141.1	158.6	177.1
72.5°	173.3	140.6	87.1	44.8	51.6	63.3	79.8	93.9	110.5	131.9	142.1
75°	26.8	22.9	22.4	27.2	35.0	45.7	56.9	71.0	85.7	99.3	106.1
77.5°	12.7	12.1	13.6	18.0	23.3	32.6	41.3	55.0	66.6	75.4	79.3
80°	8.3	7.8	8.8	12.1	17.5	24.4	33.1	42.4	53.0	60.4	59.4
82.5°	4.9	5.3	5.3	8.3	12.1	17.5	23.9	32.1	39.4	45.7	41.8
85°	2.9	2.4	2.4	4.9	8.3	14.1	20.0	13.6	14.1	14.1	16.1
87.5°	0.9	0.9	0.9	0.5	0.9	0.9	1.5	2.4	2.9	3.4	4.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0
2.5°	1285.2	1300.3	1294.9	1276.0	1290.5	1293.0	1283.3	1316.8	1323.2	1312.9	1315.8
5°	1041.9	1045.8	1054.5	1073.0	1086.2	1101.8	1101.8	1102.7	1089.5	1122.7	1113.0
7.5°	811.7	814.2	824.3	863.8	875.0	904.7	917.3	908.5	882.3	871.1	880.3
10°	700.8	686.6	683.2	688.1	713.4	726.1	736.8	733.8	729.4	720.7	711.0
12.5°	626.8	616.5	608.3	596.6	598.1	610.3	618.5	611.7	613.6	615.6	618.5
15°	546.5	539.2	534.8	517.3	515.4	523.6	526.6	530.4	537.8	538.2	534.8
17.5°	461.3	455.0	464.7	474.5	467.7	468.2	473.5	476.9	475.0	466.2	461.8
20°	402.9	409.7	419.5	428.7	436.1	440.4	442.3	437.0	430.6	412.6	412.2
22.5°	385.9	394.6	402.9	417.0	423.8	435.0	424.9	412.6	403.9	395.2	384.9
25°	373.3	380.5	397.1	402.5	415.6	424.9	417.5	405.4	390.2	377.6	369.8
27.5°	364.0	372.2	383.0	397.6	407.8	413.2	405.8	401.0	385.4	370.4	359.2
30°	358.1	366.9	386.4	398.5	407.3	411.7	399.0	393.2	382.0	369.3	359.6
32.5°	354.3	362.1	378.6	394.2	400.0	400.0	402.0	395.2	379.6	358.1	349.9
35°	341.6	352.4	366.0	384.0	394.6	401.0	391.3	383.4	373.3	351.3	336.3
37.5°	334.3	341.6	359.2	376.2	385.4	392.2	388.4	374.7	361.1	343.1	330.9
40°	326.5	338.2	353.8	369.8	380.1	386.9	384.0	367.9	351.3	334.3	326.0
42.5°	321.2	328.9	345.0	363.0	375.2	388.4	379.6	359.6	348.0	324.6	315.3
45°	316.8	329.5	346.5	353.8	366.4	380.1	364.5	352.4	338.7	321.7	313.9
47.5°	311.5	323.1	334.3	353.8	359.6	366.0	363.0	343.6	331.9	313.4	308.0
50°	309.5	313.9	334.3	345.0	353.3	359.6	351.8	337.2	326.0	307.1	295.4
52.5°	301.7	310.0	323.1	337.2	347.5	355.2	342.6	333.3	318.3	298.3	291.0
55°	292.0	296.8	320.2	334.8	340.1	345.5	340.7	325.6	310.0	289.6	282.3
57.5°	279.3	290.5	309.5	330.0	336.8	339.7	331.9	319.7	300.3	282.3	270.6
60°	266.2	277.9	298.8	315.3	322.1	332.9	321.2	313.9	291.5	271.5	258.9
62.5°	253.1	266.2	281.7	302.7	308.5	312.9	310.0	299.7	281.7	259.4	243.8
65°	237.5	247.2	266.7	277.4	281.3	291.5	281.3	277.4	261.3	239.9	226.8
67.5°	214.2	222.4	239.4	249.6	252.6	257.0	256.4	252.0	234.0	219.5	207.8
70°	187.4	194.7	205.4	217.5	219.0	224.3	219.5	218.5	206.8	186.9	180.6
72.5°	150.3	157.1	171.3	176.6	177.1	179.1	176.6	173.3	170.3	149.4	143.1
75°	115.3	119.3	126.1	130.9	130.9	133.3	131.9	128.5	120.7	107.6	101.2
77.5°	80.3	84.2	92.9	95.8	95.4	96.4	92.0	88.6	76.9	70.1	64.8
80°	58.4	60.8	65.2	67.2	67.7	69.1	63.7	60.8	54.0	46.2	43.8
82.5°	42.4	43.8	44.3	46.7	46.7	44.3	42.8	39.9	35.0	30.1	28.2
85°	17.5	18.0	18.5	21.4	21.9	26.3	24.4	22.9	20.0	17.1	15.6
87.5°	4.4	4.9	6.3	5.3	6.3	6.3	6.8	7.8	7.8	6.3	6.3
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0
2.5°	1327.0	1330.9	1380.6	1386.9	1411.3	1436.1	1486.2	1522.2	1551.4	1570.4	1575.7
5°	1123.1	1148.0	1170.8	1207.9	1241.4	1289.1	1344.1	1412.2	1497.9	1541.6	1559.2
7.5°	879.4	908.5	941.6	977.7	1026.8	1112.5	1185.9	1264.8	1374.2	1419.5	1488.2
10°	717.8	750.4	794.2	821.9	881.3	963.1	1048.7	1139.7	1244.3	1309.6	1388.9
12.5°	634.5	661.3	701.7	760.1	804.4	857.5	921.2	1036.1	1185.9	1247.7	1302.2
15°	542.6	572.3	619.0	683.7	736.8	800.1	871.6	996.6	1156.3	1251.6	1297.8
17.5°	466.7	488.1	537.2	593.2	654.0	723.2	825.8	994.7	1187.4	1309.6	1385.0
20°	414.1	417.0	443.8	491.5	574.3	664.3	797.6	984.9	1287.2	1409.3	1504.7
22.5°	381.0	378.1	378.6	419.0	476.9	606.4	753.3	1018.1	1400.6	1568.0	1632.2
25°	364.5	356.7	351.8	360.6	413.2	537.8	719.7	1061.8	1522.7	1698.9	1777.6
27.5°	355.7	342.1	332.4	333.9	372.2	503.2	698.8	1080.9	1643.8	1881.3	1909.1
30°	352.4	335.3	321.2	316.3	341.6	455.0	654.0	1113.4	1752.4	1981.6	2005.4
32.5°	340.1	319.2	305.6	301.2	311.5	412.6	621.9	1136.8	1848.3	2090.6	2082.3
35°	326.0	308.5	291.5	283.2	290.5	385.4	596.1	1125.6	1961.2	2175.3	2170.9
37.5°	324.6	301.7	287.6	274.0	273.5	351.8	561.1	1136.3	2033.1	2327.1	2267.3
40°	311.9	297.3	278.8	267.6	261.3	334.8	527.0	1111.0	2138.8	2388.4	2329.5
42.5°	312.4	290.5	274.4	261.3	255.0	310.0	503.7	1104.2	2175.7	2488.1	2358.7
45°	304.7	283.2	269.6	254.0	250.6	291.0	481.3	1072.6	2240.9	2493.1	2322.2
47.5°	296.8	277.9	263.2	244.8	237.0	284.2	463.8	1046.2	2206.9	2447.3	2271.6
50°	291.5	269.6	256.0	242.8	221.0	272.5	440.9	1040.0	2159.2	2385.5	2177.7
52.5°	282.3	262.8	248.7	238.4	203.4	261.8	432.1	1076.9	2217.6	2339.3	2150.4
55°	273.5	253.5	235.5	215.6	188.8	233.6	407.8	1111.5	2302.7	2445.9	2274.1
57.5°	264.3	245.2	225.8	201.9	174.7	204.4	382.5	1117.8	2143.1	2260.4	2158.7
60°	252.0	227.8	213.1	182.0	159.7	169.4	303.2	985.4	1662.4	1887.7	1891.1
62.5°	238.4	212.2	199.5	163.0	144.1	146.0	247.2	828.3	1348.5	1562.6	1655.6
65°	220.4	195.1	180.1	150.9	132.9	126.5	181.0	606.8	1024.4	1267.7	1373.3
67.5°	197.1	173.3	154.3	131.4	118.7	108.5	123.6	341.6	604.9	851.1	883.2
70°	172.3	151.8	131.9	112.9	98.8	91.5	90.5	151.4	289.1	457.9	521.2
72.5°	135.8	121.2	105.1	91.0	81.7	71.0	64.8	62.8	97.8	186.4	257.5
75°	97.3	85.2	76.0	66.6	59.8	54.0	49.2	44.8	40.9	46.7	64.2
77.5°	61.3	56.9	49.6	47.2	43.3	41.8	39.9	37.5	34.5	32.6	32.6
80°	41.3	38.4	36.0	35.5	34.1	33.6	34.1	31.6	28.7	26.3	27.2
82.5°	27.7	27.2	26.8	26.3	26.8	27.2	28.2	27.7	25.3	23.9	24.4
85°	16.5	17.5	18.5	19.5	21.4	18.9	15.6	13.2	11.7	10.7	10.3
87.5°	6.3	8.8	7.8	7.3	7.8	7.3	6.8	6.3	5.3	4.9	4.9
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0
2.5°	1611.3	1621.0	1629.3	1627.3	1610.3	1587.4	1578.1	1530.9	1521.2	1514.9
5°	1633.2	1689.6	1701.8	1694.5	1650.2	1594.2	1539.7	1470.6	1430.2	1428.7
7.5°	1592.8	1662.4	1684.2	1700.8	1641.9	1544.5	1451.1	1347.5	1322.2	1324.1
10°	1490.0	1601.0	1655.0	1672.1	1604.4	1520.3	1390.8	1285.7	1231.7	1230.7
12.5°	1433.1	1520.3	1535.3	1559.2	1539.2	1454.0	1355.8	1238.0	1185.5	1184.4
15°	1382.5	1439.9	1444.3	1477.9	1488.6	1431.2	1365.0	1239.5	1197.1	1192.7
17.5°	1426.8	1386.9	1370.4	1374.7	1406.3	1427.3	1418.6	1322.2	1278.9	1254.5
20°	1456.5	1367.4	1317.3	1322.2	1359.7	1436.1	1498.3	1441.9	1373.3	1376.2
22.5°	1535.9	1370.4	1292.0	1286.7	1346.1	1481.8	1588.4	1593.2	1527.1	1511.0
25°	1654.6	1403.9	1284.2	1282.8	1339.7	1530.9	1693.5	1772.3	1704.7	1675.0
27.5°	1749.9	1456.5	1308.5	1313.4	1359.7	1570.9	1783.0	1887.7	1836.1	1799.6
30°	1833.6	1511.0	1342.6	1320.2	1413.2	1591.8	1821.5	2019.0	1977.7	1947.6
32.5°	1868.2	1588.4	1396.6	1359.7	1457.5	1617.1	1901.3	2146.5	2111.0	2036.6
35°	1926.6	1631.7	1425.8	1422.9	1534.8	1677.9	1938.8	2230.8	2216.1	2150.0
37.5°	1973.3	1675.5	1529.5	1497.4	1640.9	1780.2	1999.1	2347.0	2313.5	2282.3
40°	2009.3	1753.8	1626.4	1668.7	1771.4	1873.1	2054.6	2354.3	2451.2	2360.7
42.5°	1976.2	1823.9	1785.5	1886.7	1984.0	1979.2	2060.9	2410.8	2483.3	2436.1
45°	1968.0	1942.6	2037.1	2129.1	2151.4	2067.2	2015.7	2348.5	2473.6	2452.7
47.5°	1948.0	2059.4	2224.0	2373.8	2339.8	2126.1	1961.6	2337.3	2479.4	2441.9
50°	1941.2	2084.7	2362.2	2508.1	2487.7	2177.2	1936.4	2265.3	2438.0	2434.7
52.5°	1940.7	2136.8	2419.5	2581.1	2593.8	2258.0	1970.9	2301.8	2470.1	2498.9
55°	1962.6	2120.3	2412.3	2540.8	2535.8	2222.0	1974.8	2326.1	2509.6	2537.8
57.5°	1851.2	1899.3	1990.9	2092.6	2066.3	1840.4	1763.6	2150.4	2303.3	2282.8
60°	1598.6	1447.8	1344.6	1339.7	1288.6	1218.0	1443.4	1919.3	1919.3	1899.3
62.5°	1400.1	950.4	816.6	778.6	815.1	896.4	1392.3	1866.8	1813.7	1790.8
65°	1224.4	725.6	590.3	579.6	642.8	765.5	1258.9	1590.4	1496.9	1421.0
67.5°	787.9	531.4	438.9	420.0	496.3	562.0	838.0	978.1	919.2	889.6
70°	508.0	346.0	244.3	229.2	258.9	346.5	535.3	570.3	484.7	464.7
72.5°	240.4	149.4	85.7	70.5	79.3	132.3	211.7	227.8	189.3	173.3
75°	76.4	55.0	35.0	30.1	28.7	34.1	48.7	37.5	27.2	26.8
77.5°	34.1	32.6	27.7	23.3	20.4	17.1	14.1	11.7	12.1	12.7
80°	28.2	25.8	22.9	20.4	17.1	13.2	10.3	7.8	7.8	8.3
82.5°	24.8	22.4	20.0	17.1	14.6	10.7	7.8	5.3	4.9	4.9
85°	10.7	12.7	13.6	14.6	11.7	8.8	5.3	3.4	2.9	2.9
87.5°	4.4	3.9	3.4	2.9	2.4	2.4	2.0	1.5	0.9	0.9
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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