

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: P382752

Luminaire Tested: **GLEON-SA1B-735-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382752
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1B-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4132.3 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
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

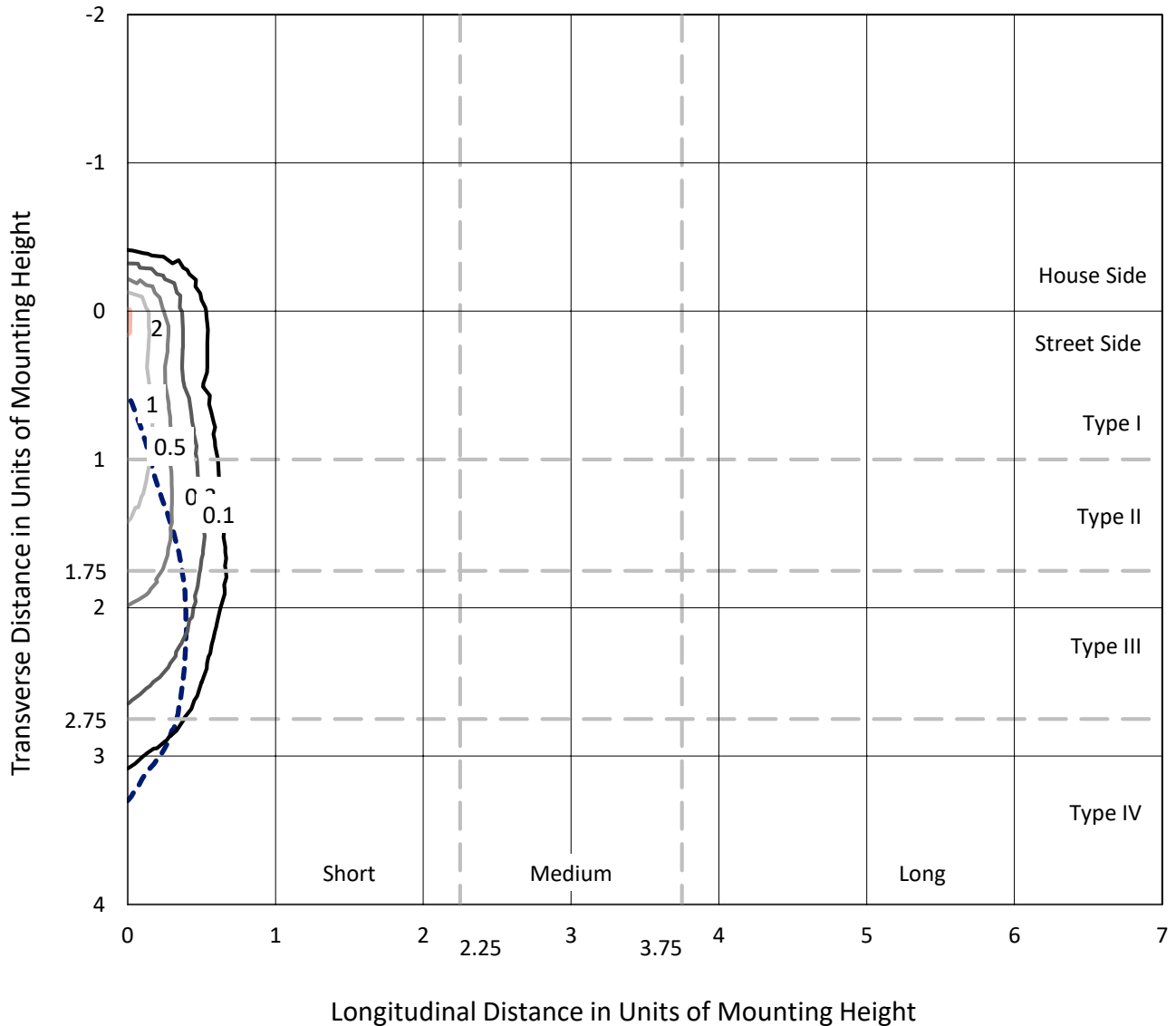




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Iso-Footcandle Lines of Horizontal Illumination

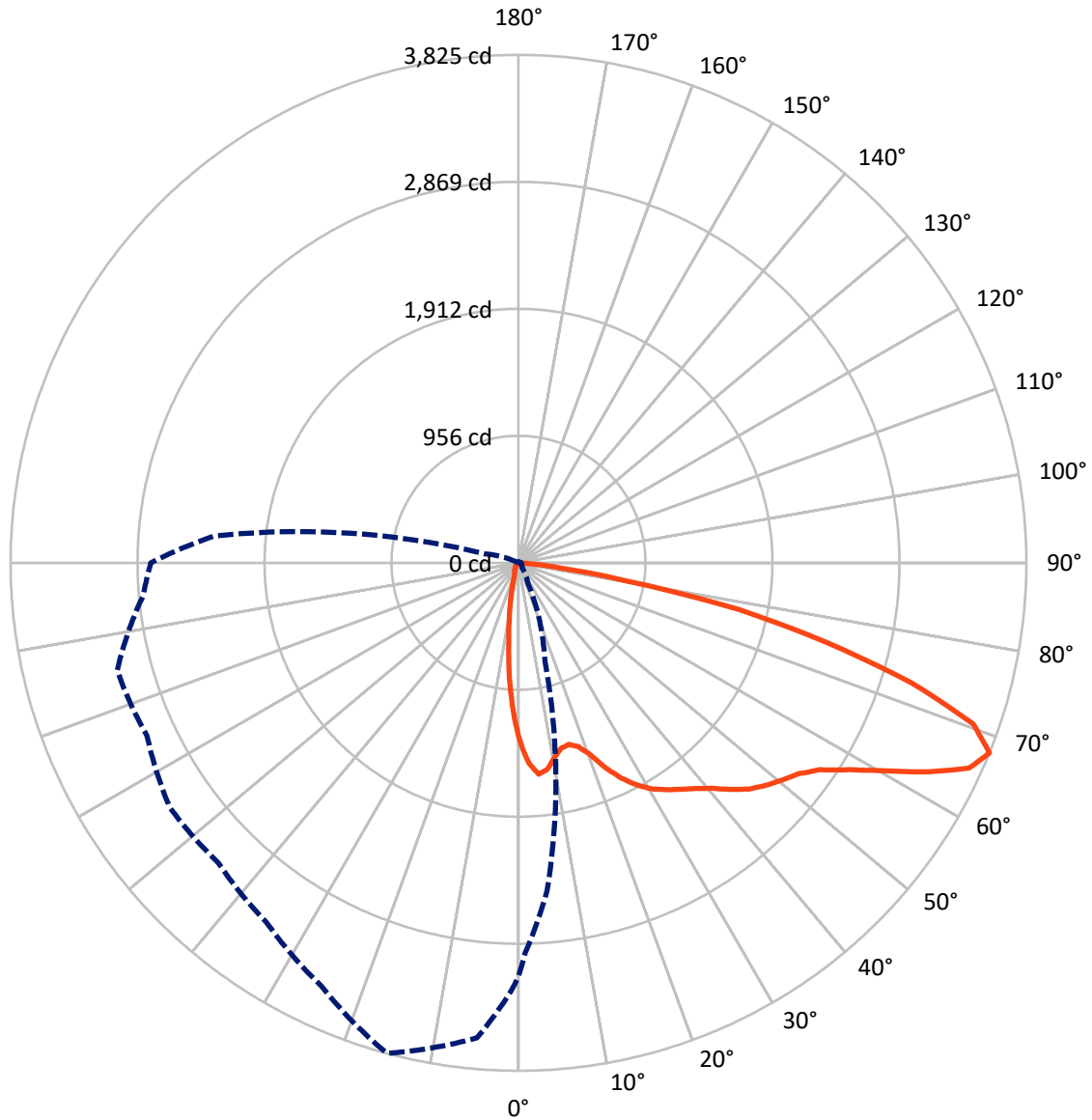
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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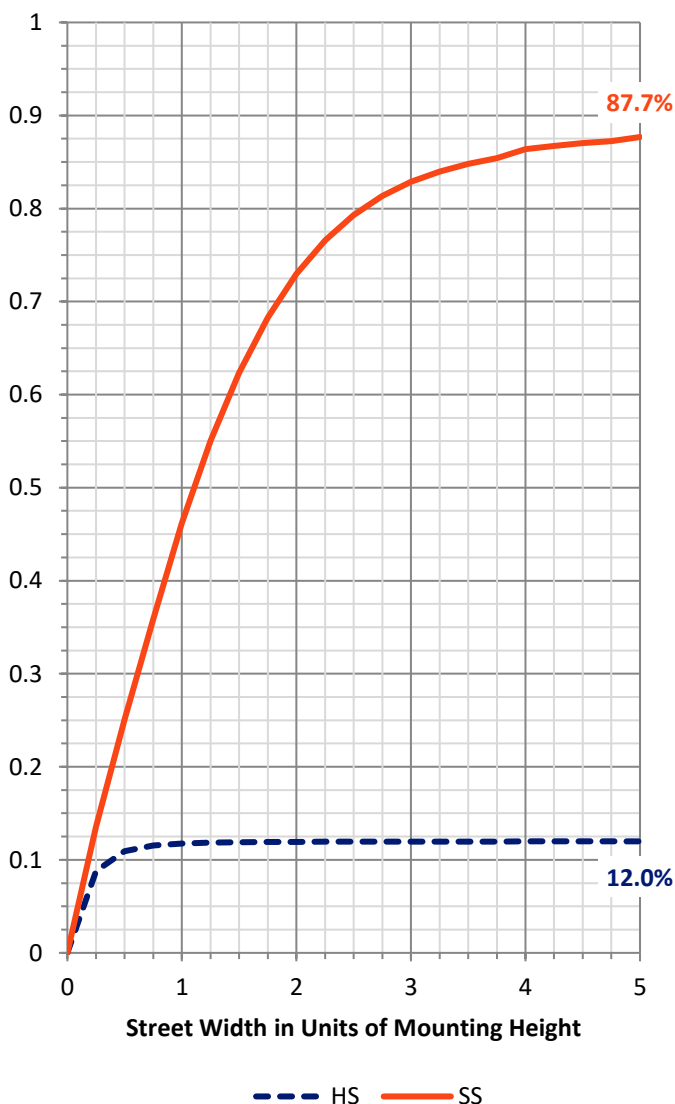
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	500.1	0.0	500.1
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	3632.2	0.0	3632.2
	% Fixture	87.9	0.0	87.9
Total	Lumens	4132.3	0.0	4132.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.3	2.5
10°-20°	205.6	5.0
20°-30°	292.0	7.1
30°-40°	431.3	10.4
40°-50°	622.0	15.1
50°-60°	873.2	21.1
60°-70°	1017.9	24.6
70°-80°	520.4	12.6
80°-90°	66.5	1.6
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°	4132.3	100.0
0°-180°	4132.3	100.0

Coefficient of Utilization

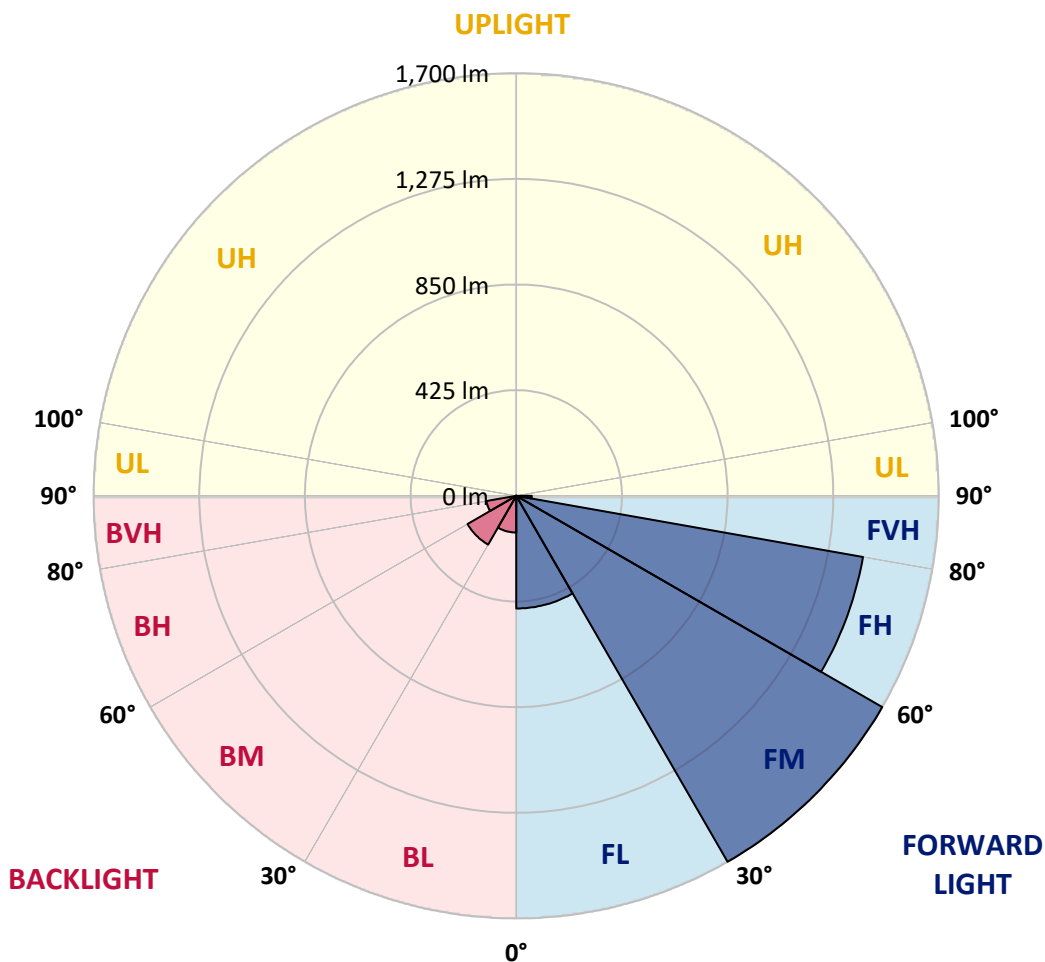


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	453.2	11.0			
FM (30°-60°)	1700.1	41.1			
FH (60°-80°)	1416.4	34.3			G1/1800
FVH (80°-90°)	62.4	1.5			G1/100
BL (0°-30°)	147.7	3.6	B1/500		
BM (30°-60°)	226.5	5.5	B1/1000		
BH (60°-80°)	121.9	2.9	B1/500		G1/500
BVH (80°-90°)	4.0	0.1			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1
2.5°	1473.9	1462.6	1450.0	1409.2	1371.1	1327.7	1292.2	1267.6	1236.6	1196.6	1186.3
5°	1463.4	1451.3	1411.9	1320.8	1241.2	1163.7	1088.9	1045.0	990.6	935.4	921.7
7.5°	1357.1	1344.3	1287.6	1162.9	1055.6	943.6	846.5	786.4	724.9	674.4	647.6
10°	1246.5	1232.5	1168.7	1017.4	885.2	784.1	712.8	655.4	597.3	543.3	500.1
12.5°	1170.3	1152.1	1082.8	911.3	796.2	727.4	660.9	592.2	513.5	455.5	408.2
15°	1138.4	1117.7	1044.5	870.3	764.7	684.0	597.3	512.9	420.7	354.4	310.9
17.5°	1163.0	1136.0	1057.6	867.6	725.1	615.3	505.6	406.6	306.6	239.4	208.5
20°	1246.9	1211.4	1111.8	866.9	677.1	533.7	394.7	282.7	202.1	162.5	146.3
22.5°	1378.8	1332.0	1189.7	873.1	627.7	447.9	285.1	192.1	151.7	131.2	121.6
25°	1538.2	1484.0	1301.8	895.2	584.2	364.5	207.1	151.7	128.0	113.0	104.9
27.5°	1689.6	1645.7	1443.6	927.2	550.5	297.2	168.1	128.6	109.5	99.5	93.0
30°	1841.0	1785.6	1589.0	965.2	510.0	251.5	147.8	117.3	98.1	87.5	83.4
32.5°	1951.0	1905.0	1703.0	992.6	466.7	221.8	132.2	107.3	91.7	80.9	74.8
35°	2080.4	2028.4	1800.7	998.6	438.9	203.0	118.9	96.5	79.5	69.9	63.4
37.5°	2220.3	2155.4	1913.4	985.3	417.1	193.9	108.8	91.7	74.2	64.4	57.6
40°	2374.9	2301.7	2021.7	966.1	395.8	190.7	101.2	87.9	70.1	60.1	53.1
42.5°	2537.7	2451.4	2115.5	946.0	382.3	179.9	100.4	84.2	67.0	56.2	49.1
45°	2674.6	2587.1	2211.8	939.3	372.7	168.1	103.8	81.6	64.8	53.1	46.2
47.5°	2783.7	2700.8	2310.4	954.2	367.2	157.4	94.6	85.0	63.6	50.3	43.7
50°	2913.8	2820.1	2449.4	998.6	359.2	146.6	85.5	97.3	63.6	48.5	41.5
52.5°	3077.1	2984.3	2604.5	1067.6	343.2	131.7	76.9	97.5	64.2	46.2	38.8
55°	3282.5	3215.1	2825.9	1143.1	317.6	109.8	66.6	83.7	61.9	41.9	36.2
57.5°	3479.4	3424.4	3027.7	1194.8	283.3	85.7	57.9	67.5	56.5	36.8	32.3
59°	3533.3	3473.1	3101.8	1197.1	257.7	74.8	53.7	55.8	55.4	34.5	30.0
60°	3533.3	3469.4	3123.1	1184.6	239.0	68.7	50.9	49.7	57.8	32.9	28.6
62.5°	3469.2	3379.6	3053.8	1099.8	195.0	58.5	44.4	41.1	51.9	29.5	25.2
65°	3336.1	3205.5	2817.7	946.5	173.8	53.7	38.4	33.6	36.1	26.1	22.1
67.5°	3114.1	2937.1	2477.3	764.7	165.4	52.3	33.1	28.6	27.2	22.4	19.4
70°	2723.1	2526.8	2064.0	601.2	158.2	51.7	27.8	24.0	21.9	18.8	16.5
72.5°	1982.0	1777.2	1465.3	470.1	153.9	52.8	22.4	20.1	18.0	14.7	12.8
75°	1133.7	999.6	823.6	310.5	131.2	50.5	17.2	16.9	12.9	10.5	8.8
77.5°	585.8	568.0	493.5	119.2	62.9	22.1	11.4	9.8	7.6	6.4	5.3
80°	252.7	250.0	216.3	34.5	16.7	12.3	6.4	4.1	3.5	2.7	2.1
82.5°	87.3	87.3	76.9	11.6	7.5	6.1	0.7	0.0	0.0	0.0	0.0
85°	17.6	19.7	13.9	0.0	2.5	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1
2.5°	1174.0	1150.4	1148.8	1133.9	1115.2	1106.9	1102.0	1110.6	1121.2	1122.3	1138.2
5°	911.3	886.5	896.8	870.3	875.7	870.3	861.8	863.4	868.0	853.4	871.6
7.5°	640.0	621.2	633.1	626.1	635.5	639.2	633.9	626.1	603.0	600.2	616.1
10°	482.4	461.0	448.4	435.0	437.9	444.0	442.0	436.3	421.7	422.5	437.7
12.5°	387.6	363.8	338.5	305.8	297.7	302.3	297.7	294.5	280.3	281.5	295.0
15°	294.1	274.4	248.1	221.8	207.5	208.9	196.4	187.5	178.8	168.1	176.3
17.5°	198.5	186.6	178.8	170.9	153.9	150.0	134.1	117.1	110.4	105.5	109.1
20°	140.6	134.1	131.0	130.6	120.8	115.9	100.4	89.9	86.5	85.5	87.7
22.5°	117.5	112.7	108.2	105.7	100.8	95.1	83.4	78.2	75.7	74.6	76.1
25°	102.2	98.7	94.0	89.7	87.7	81.6	73.2	69.3	67.7	66.6	67.4
27.5°	90.8	87.7	82.3	79.5	77.9	72.7	65.4	62.2	60.9	60.5	60.3
30°	81.8	78.9	73.8	70.7	67.9	63.3	59.0	55.8	54.4	54.0	53.7
32.5°	72.8	70.5	67.2	64.0	61.1	56.7	53.1	50.5	48.3	48.0	47.8
35°	61.5	59.2	57.4	57.2	54.4	50.3	47.6	44.2	42.5	41.9	42.1
37.5°	54.6	51.5	47.6	48.9	48.2	45.2	41.5	38.2	36.4	36.1	36.1
40°	50.3	46.9	42.5	40.1	42.5	41.9	36.1	32.7	30.9	30.7	30.4
42.5°	46.2	42.9	37.8	33.9	35.0	36.8	31.1	28.0	26.3	25.8	25.2
45°	43.2	39.8	34.1	29.5	27.2	30.9	26.6	22.7	21.7	21.0	20.6
47.5°	40.5	37.2	30.7	25.6	21.7	22.4	21.3	18.6	17.4	16.7	16.5
50°	38.2	34.7	27.8	21.9	18.0	16.5	17.2	14.7	13.7	12.9	12.5
52.5°	35.4	32.1	24.7	19.0	15.1	12.9	13.1	11.6	10.5	10.0	9.8
55°	33.3	30.0	22.1	16.7	13.3	10.5	9.4	9.0	8.4	8.0	7.8
57.5°	30.4	27.2	19.6	14.1	11.4	8.6	7.3	7.3	7.1	6.6	6.4
59°	28.6	25.8	18.0	12.8	10.3	7.5	6.4	6.6	6.4	6.1	5.9
60°	27.2	24.7	16.9	11.7	9.8	6.9	5.9	6.2	6.1	5.7	5.5
62.5°	24.0	22.4	14.5	9.8	8.6	5.5	4.9	5.3	5.3	5.1	4.9
65°	21.1	19.2	12.3	8.2	8.0	4.7	3.9	4.7	4.9	4.5	4.1
67.5°	18.4	16.5	10.8	6.6	7.5	3.7	3.0	3.9	5.3	4.1	3.7
70°	15.6	13.7	8.4	5.3	7.8	2.5	2.3	3.5	6.2	4.5	3.5
72.5°	12.1	10.5	5.9	3.9	8.4	1.8	1.8	3.0	7.1	4.9	3.4
75°	8.4	6.9	3.5	2.3	6.9	1.2	1.2	2.7	6.6	4.5	3.2
77.5°	4.9	3.7	1.2	0.2	3.5	0.0	0.2	2.0	4.7	2.7	1.4
80°	1.8	0.7	0.0	0.0	2.1	0.0	0.0	0.0	0.4	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1
2.5°	1142.3	1168.7	1192.4	1228.2	1270.7	1319.6	1361.7	1407.0	1449.5	1467.1	1479.2
5°	875.3	908.0	946.2	998.8	1068.9	1155.2	1236.1	1327.5	1425.8	1474.9	1521.1
7.5°	618.8	652.1	699.5	755.5	840.3	943.0	1048.7	1175.0	1308.1	1385.9	1462.4
10°	445.0	485.9	530.1	606.7	692.8	790.3	899.1	1040.1	1188.5	1274.6	1366.9
12.5°	302.8	349.4	416.4	502.1	603.4	698.8	793.5	927.9	1100.3	1185.6	1284.4
15°	181.7	207.5	278.3	377.6	501.7	620.8	724.4	859.3	1042.9	1147.4	1250.1
17.5°	112.0	123.9	162.5	244.0	374.3	524.8	666.8	836.0	1051.1	1178.3	1288.3
20°	89.2	94.0	106.3	144.1	248.1	419.1	602.0	831.2	1118.2	1274.8	1392.8
22.5°	77.5	82.1	90.3	104.7	156.0	313.8	540.5	835.5	1214.6	1419.5	1557.4
25°	68.3	72.2	80.1	92.0	114.3	221.1	474.7	854.7	1340.0	1599.0	1745.4
27.5°	61.1	64.4	71.6	82.6	98.1	154.3	400.2	878.0	1488.8	1782.7	1927.2
30°	54.4	57.4	63.8	74.0	85.1	118.7	318.3	893.9	1637.8	1927.2	2057.0
32.5°	48.7	50.9	56.7	65.4	74.0	94.6	242.0	891.3	1748.4	2047.4	2150.3
35°	42.9	45.0	50.1	57.6	64.4	78.2	190.3	843.8	1844.7	2172.1	2257.2
37.5°	36.4	39.1	44.1	50.7	55.4	68.7	153.9	786.4	1942.4	2314.6	2376.5
40°	30.9	33.6	38.0	45.2	48.2	65.2	118.2	716.5	2052.2	2473.9	2507.2
42.5°	25.6	28.2	32.7	38.9	45.5	56.2	87.5	636.6	2157.7	2610.2	2626.4
45°	20.8	23.3	28.0	34.3	48.5	46.6	67.7	551.1	2242.9	2723.6	2728.8
47.5°	16.5	18.8	23.7	32.3	45.2	37.2	48.3	483.9	2314.3	2812.1	2798.1
50°	12.8	14.7	19.7	37.0	39.6	30.7	36.6	461.6	2378.4	2866.8	2830.8
52.5°	10.0	11.7	16.2	34.7	30.7	25.4	30.7	482.5	2466.1	2912.3	2849.2
55°	8.0	9.8	12.8	19.7	21.0	21.5	26.3	502.1	2617.5	3018.8	2957.8
57.5°	6.6	8.4	10.3	13.9	15.8	18.2	23.3	504.3	2795.8	3195.8	3138.2
59°	6.1	7.6	9.4	12.3	13.9	16.7	21.9	492.5	2858.6	3260.1	3231.4
60°	5.7	7.3	8.8	11.4	12.9	15.6	21.1	481.4	2861.3	3257.8	3271.1
62.5°	4.9	6.4	7.8	9.6	11.0	13.3	19.0	440.1	2745.5	3151.1	3247.2
65°	4.3	5.7	7.1	8.2	9.4	11.9	17.2	364.7	2547.5	2979.0	3083.7
67.5°	3.9	4.9	6.4	7.3	8.4	10.5	15.3	260.0	2300.3	2768.6	2836.5
70°	3.5	4.7	5.9	6.6	7.6	9.2	13.1	149.3	1942.4	2460.4	2508.8
72.5°	3.4	4.5	5.3	6.2	6.9	8.2	11.9	70.2	1422.3	1971.0	2097.3
75°	3.0	4.1	4.9	5.9	6.4	7.5	10.2	33.6	946.0	1426.4	1569.8
77.5°	1.8	3.4	4.5	5.3	5.7	6.4	8.4	19.4	603.7	987.3	1162.9
80°	0.0	1.2	3.4	4.5	4.9	5.5	6.4	15.3	323.1	564.1	677.0
82.5°	0.0	0.0	2.3	3.5	3.4	3.7	4.9	9.6	145.7	368.6	415.4
85°	0.0	0.0	0.7	2.7	2.3	1.8	3.4	3.4	32.0	186.6	232.8
87.5°	0.0	0.0	0.0	0.2	1.2	0.7	1.4	0.4	0.2	13.9	56.4
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°	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1
2.5°	1521.7	1536.2	1560.6	1572.2	1566.6	1542.5	1513.7	1484.3	1467.1	1473.9
5°	1615.3	1689.8	1733.0	1747.2	1723.4	1669.3	1598.6	1505.5	1472.4	1463.4
7.5°	1615.3	1755.7	1844.6	1860.2	1806.9	1701.0	1568.5	1423.0	1374.7	1357.1
10°	1558.5	1749.5	1873.5	1898.4	1824.0	1665.6	1488.1	1322.1	1264.7	1246.5
12.5°	1494.5	1700.3	1830.9	1865.1	1804.0	1630.4	1432.3	1253.7	1186.1	1170.3
15°	1455.2	1639.5	1747.6	1772.5	1746.7	1609.8	1418.9	1233.2	1153.6	1138.4
17.5°	1469.2	1592.6	1631.5	1646.0	1663.5	1602.5	1455.2	1278.2	1177.6	1163.0
20°	1522.3	1543.0	1522.9	1541.1	1588.1	1609.6	1541.5	1387.0	1266.3	1246.9
22.5°	1612.3	1517.4	1460.9	1468.0	1525.2	1632.9	1673.4	1542.5	1403.1	1378.8
25°	1717.3	1538.2	1426.4	1419.9	1478.6	1663.7	1794.1	1711.6	1565.0	1538.2
27.5°	1849.2	1584.7	1419.3	1412.9	1462.4	1692.4	1894.2	1878.7	1735.5	1689.6
30°	1951.0	1630.6	1440.3	1425.4	1478.6	1712.4	1974.7	2020.7	1871.4	1841.0
32.5°	2024.1	1684.6	1474.4	1452.8	1524.5	1746.8	2036.7	2150.8	1997.1	1951.0
35°	2079.7	1743.3	1529.3	1493.9	1587.5	1799.1	2095.0	2289.1	2130.7	2080.4
37.5°	2131.8	1825.7	1615.3	1573.0	1686.4	1883.3	2156.3	2446.2	2280.3	2220.3
40°	2204.3	1919.1	1747.9	1710.2	1852.6	1998.0	2233.1	2609.8	2450.4	2374.9
42.5°	2277.0	2019.3	1883.5	1893.6	2059.8	2137.4	2332.2	2782.8	2618.4	2537.7
45°	2343.3	2122.7	2076.7	2123.7	2252.3	2290.3	2430.7	2882.9	2752.5	2674.6
47.5°	2402.5	2251.9	2268.8	2393.9	2471.2	2428.7	2504.3	2969.2	2852.3	2783.7
50°	2471.2	2419.1	2521.9	2698.9	2723.1	2554.0	2571.3	3071.4	2969.0	2913.8
52.5°	2546.4	2595.3	2802.2	2958.2	2950.4	2690.0	2638.6	3185.9	3129.0	3077.1
55°	2631.7	2737.6	3049.0	3201.0	3194.4	2842.0	2750.1	3327.5	3329.4	3282.5
57.5°	2758.4	2860.1	3216.6	3397.4	3408.5	3017.4	2939.3	3486.0	3510.7	3479.4
59°	2849.2	2939.7	3283.1	3479.4	3524.8	3153.0	3077.5	3578.1	3561.8	3533.3
60°	2916.6	2990.2	3315.9	3522.3	3592.3	3245.0	3179.5	3632.1	3567.9	3533.3
62.5°	3083.1	3100.2	3375.3	3570.8	3670.1	3449.4	3466.5	3724.1	3525.8	3469.2
65°	3160.8	3169.7	3374.4	3483.9	3594.9	3608.6	3726.8	3726.8	3423.0	3336.1
67.5°	3128.4	3085.9	3207.0	3195.8	3306.5	3514.1	3824.7	3590.2	3226.4	3114.1
70°	2864.1	2700.6	2646.8	2651.7	2736.4	3056.5	3630.9	3188.1	2854.5	2723.1
72.5°	2383.1	1991.0	1858.1	2009.7	2031.9	2349.0	3094.3	2400.9	2105.1	1982.0
75°	1916.8	1403.5	1187.4	1347.5	1385.0	1719.1	2393.7	1495.3	1229.6	1133.7
77.5°	1377.0	1007.5	852.0	840.8	889.3	1090.2	1698.5	752.5	627.7	585.8
80°	782.3	663.1	713.9	673.6	698.1	681.7	807.0	330.0	270.3	252.7
82.5°	472.2	391.9	424.4	353.3	447.1	389.4	310.9	105.7	91.9	87.3
85°	307.1	214.2	111.6	74.8	154.1	248.8	69.5	28.8	22.1	17.6
87.5°	105.9	54.6	5.5	2.3	16.5	46.4	2.5	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

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