

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: P382750

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382750
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
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-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4133.3 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 III - Medium
BUG Rating: B1 - U0 - G1

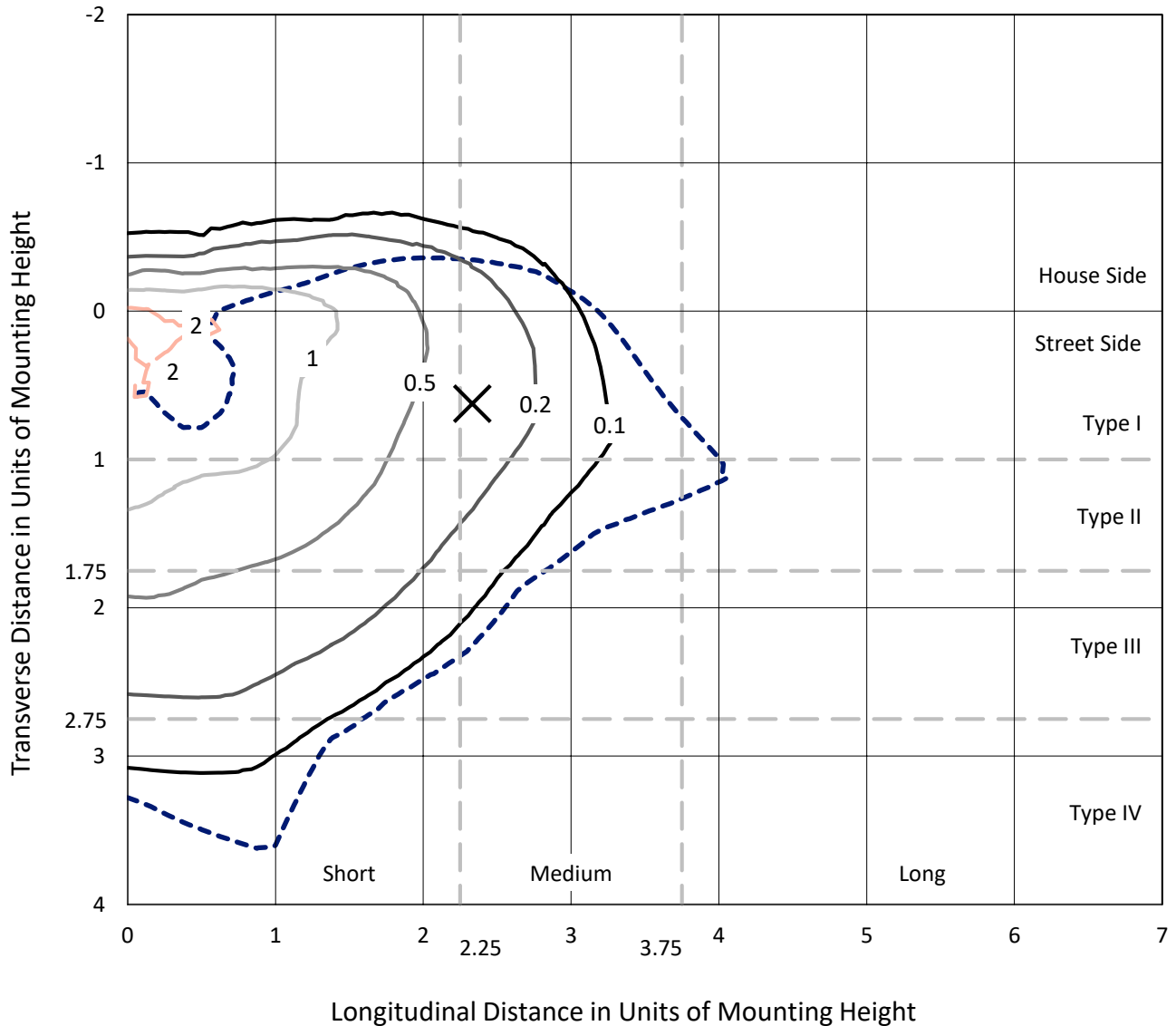
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

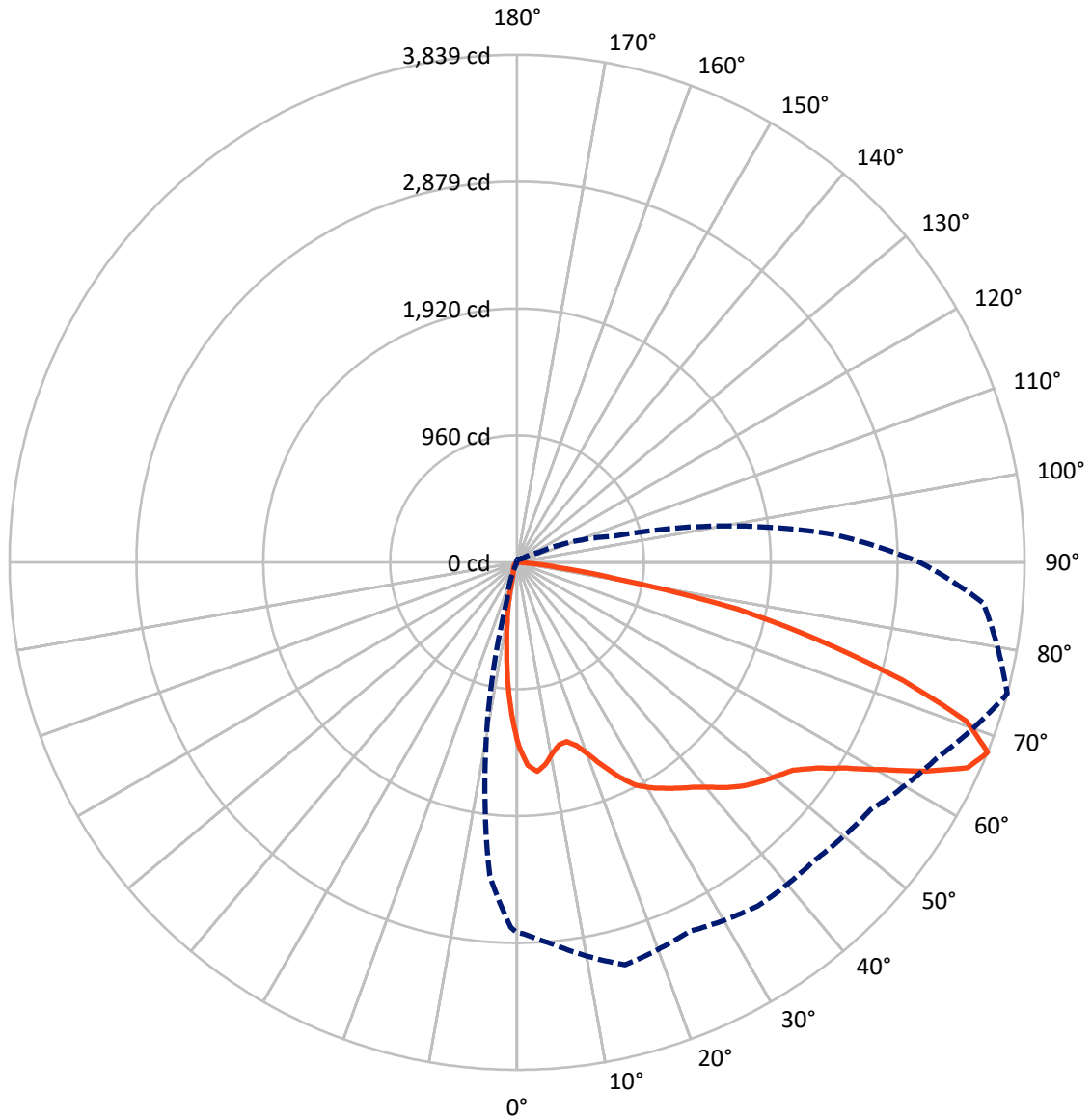
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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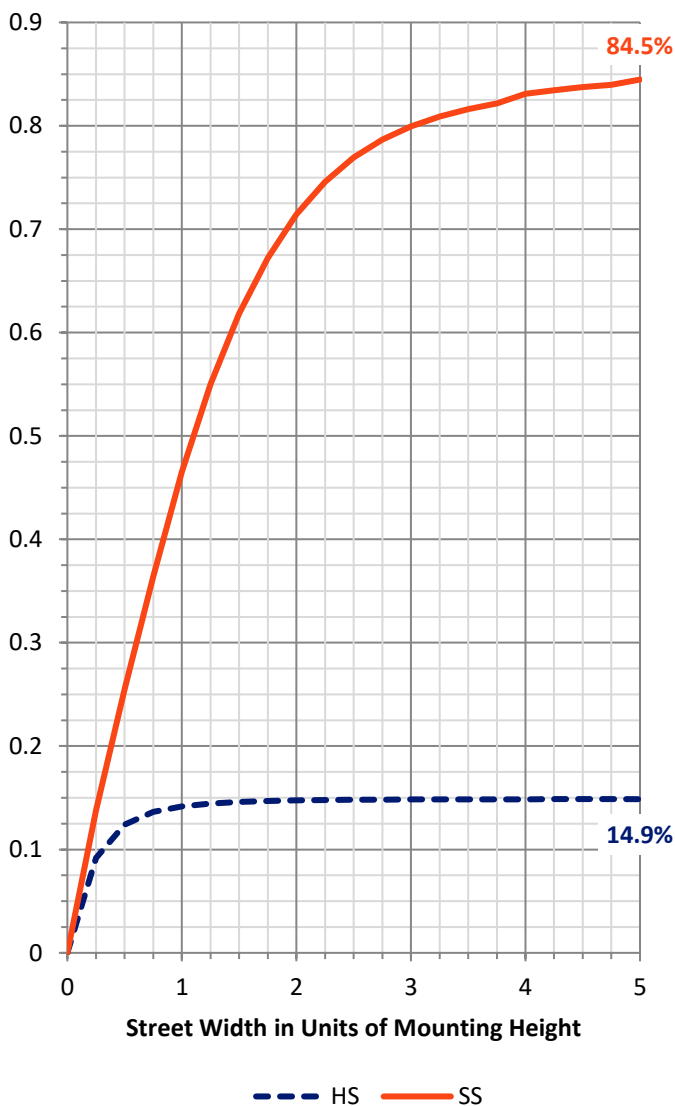
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	620.2	0.0	620.2
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	3513.0	0.0	3513.0
	% Fixture	85.0	0.0	85.0
Total	Lumens	4133.3	0.0	4133.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.2	2.5
10°-20°	207.1	5.0
20°-30°	293.0	7.1
30°-40°	430.8	10.4
40°-50°	619.2	15.0
50°-60°	871.7	21.1
60°-70°	1018.0	24.6
70°-80°	519.4	12.6
80°-90°	69.0	1.7
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°	4133.3	100.0
0°-180°	4133.3	100.0

Coefficient of Utilization

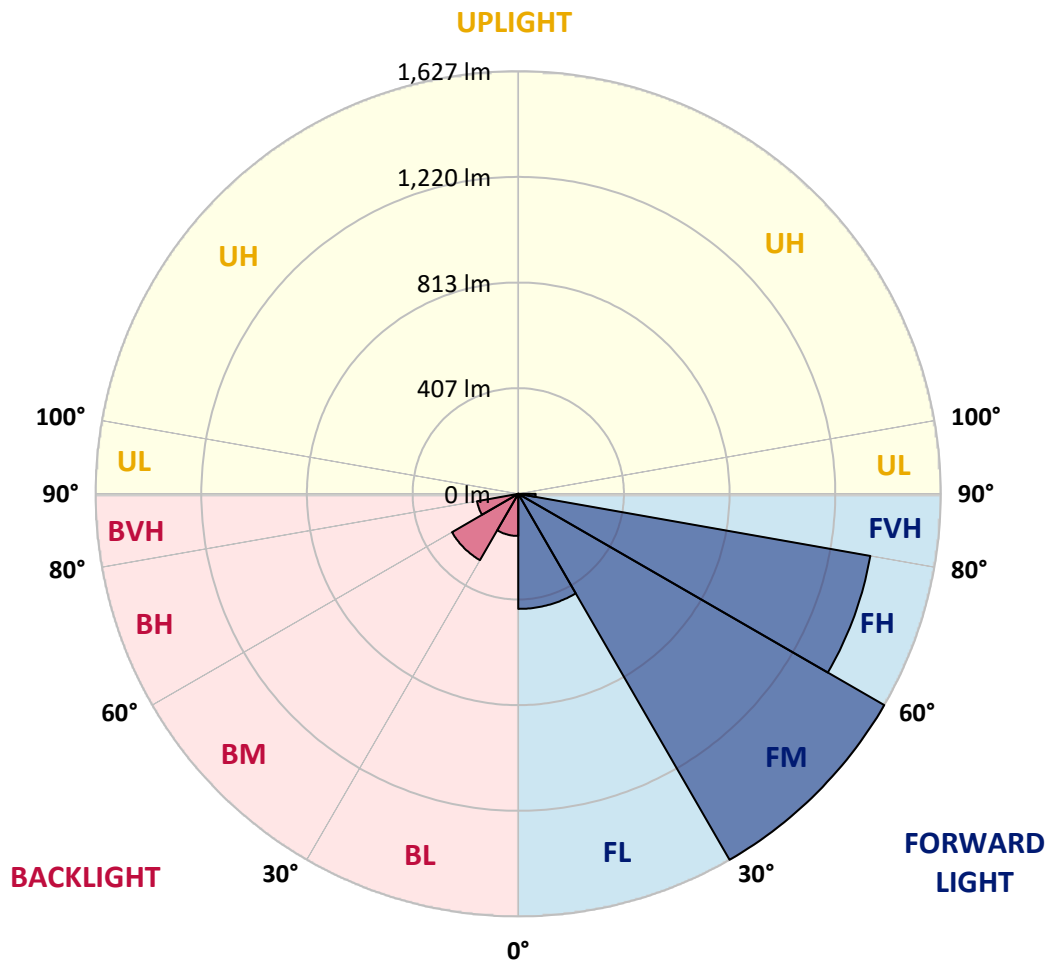


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	443.1	10.7			
FM (30°-60°)	1626.8	39.4			
FH (60°-80°)	1376.3	33.3			G1/1800
FVH (80°-90°)	66.9	1.6			G1/100
BL (0°-30°)	162.2	3.9	B1/500		
BM (30°-60°)	294.8	7.1	B1/1000		
BH (60°-80°)	161.1	3.9	B1/500		G1/500
BVH (80°-90°)	2.1	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6
2.5°	1503.1	1505.5	1517.7	1545.8	1576.6	1578.9	1599.7	1578.3	1571.1	1536.6	1501.0
5°	1514.5	1523.5	1565.2	1648.0	1719.9	1743.0	1759.4	1717.6	1673.5	1589.3	1499.4
7.5°	1423.0	1438.1	1503.7	1659.2	1787.6	1844.5	1855.2	1789.6	1681.7	1543.1	1407.9
10°	1305.9	1323.2	1402.4	1593.4	1769.8	1867.1	1882.0	1796.0	1641.0	1468.3	1309.1
12.5°	1211.2	1231.4	1312.3	1519.4	1708.6	1816.2	1845.6	1774.3	1605.7	1415.2	1241.6
15°	1167.5	1190.6	1275.7	1471.7	1640.5	1725.4	1749.6	1718.9	1586.1	1406.8	1225.9
17.5°	1192.6	1217.6	1305.4	1475.8	1576.7	1613.0	1632.5	1645.1	1586.1	1457.5	1271.7
20°	1295.4	1322.4	1415.2	1517.4	1523.9	1510.4	1531.4	1575.4	1604.6	1553.8	1381.8
22.5°	1437.6	1469.2	1574.0	1588.9	1498.0	1447.0	1449.7	1518.8	1638.0	1676.0	1534.4
25°	1610.8	1649.6	1756.2	1695.4	1508.8	1409.2	1408.2	1472.2	1670.7	1798.4	1704.6
27.5°	1783.0	1825.6	1919.2	1825.5	1553.3	1402.4	1400.4	1458.2	1702.7	1907.3	1890.4
30°	1927.3	1968.7	2049.4	1919.6	1601.2	1418.4	1409.0	1473.1	1721.7	1978.0	2025.9
32.5°	2044.7	2078.0	2143.2	1984.4	1652.6	1449.5	1429.1	1513.5	1753.9	2037.7	2150.5
35°	2174.0	2209.0	2235.1	2046.1	1710.1	1494.3	1465.1	1577.6	1803.7	2098.4	2286.9
37.5°	2321.4	2356.3	2353.1	2102.5	1783.2	1568.5	1549.9	1678.9	1881.1	2158.5	2439.3
40°	2465.7	2501.3	2475.9	2164.2	1868.9	1690.9	1677.3	1831.3	1984.6	2235.4	2617.8
42.5°	2600.8	2639.4	2585.0	2222.5	1971.1	1845.2	1868.7	2027.5	2114.2	2330.2	2771.7
45°	2709.7	2749.0	2676.3	2279.3	2078.7	2032.4	2103.1	2244.8	2270.1	2410.3	2875.7
47.5°	2788.8	2825.9	2739.8	2336.0	2216.6	2261.2	2384.4	2472.7	2410.8	2479.8	2949.5
50°	2839.3	2868.2	2758.4	2407.1	2397.5	2528.3	2677.5	2720.6	2543.4	2542.5	3039.2
52.5°	2871.4	2884.5	2772.1	2481.4	2586.3	2819.1	2964.6	2978.1	2679.9	2611.4	3160.0
55°	2982.0	2992.6	2869.3	2571.3	2742.4	3073.8	3224.2	3211.7	2834.4	2746.3	3302.5
57.5°	3170.8	3181.9	3069.9	2700.5	2868.6	3231.3	3412.4	3434.9	3015.5	2935.8	3455.3
60°	3265.5	3286.3	3246.4	2864.1	2991.0	3331.9	3540.6	3612.4	3241.9	3185.6	3603.3
62.5°	3179.6	3209.7	3267.7	3045.6	3112.6	3387.3	3580.6	3676.1	3473.6	3476.8	3694.5
65°	3008.1	3032.1	3130.5	3145.1	3183.1	3380.5	3481.8	3587.2	3615.6	3744.3	3689.6
67.5°	2800.9	2809.9	2893.3	3152.9	3080.9	3174.4	3185.4	3263.4	3503.5	3839.0	3541.4
70°	2502.7	2507.6	2580.4	2890.8	2647.6	2668.1	2651.9	2667.8	3012.0	3608.2	3167.3
72.5°	2014.2	2026.5	2130.1	2400.7	1928.8	1869.5	1997.1	1990.1	2319.6	3048.4	2352.3
75°	1482.9	1504.4	1660.8	1933.7	1353.7	1224.5	1317.8	1342.5	1649.0	2358.0	1471.0
77.5°	1038.3	1054.1	1205.7	1421.5	979.8	875.7	841.9	871.5	1088.4	1705.8	741.1
80°	598.1	604.0	700.8	820.8	660.2	755.4	684.3	704.7	652.2	758.9	318.8
82.5°	391.4	392.4	430.2	488.5	411.2	477.8	353.6	452.1	401.2	304.9	103.8
85°	211.5	212.7	249.5	346.7	232.8	131.5	77.3	158.8	248.1	69.9	28.4
87.5°	23.3	21.3	75.2	126.1	64.6	11.9	4.1	17.8	39.8	4.5	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°	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6
2.5°	1482.7	1466.5	1426.0	1383.2	1348.7	1316.4	1283.9	1244.1	1213.3	1207.1	1196.9
5°	1451.1	1399.6	1314.6	1229.2	1160.5	1073.8	1018.7	975.9	934.0	931.5	923.0
7.5°	1340.2	1272.5	1152.9	1034.8	938.1	855.4	772.1	716.3	672.4	656.9	647.7
10°	1233.7	1157.5	1008.1	873.4	787.1	714.0	655.3	597.0	544.1	507.7	491.3
12.5°	1159.3	1075.1	910.5	794.3	732.5	663.2	591.5	518.7	457.8	413.9	387.1
15°	1130.5	1040.6	877.8	763.0	686.6	599.0	507.3	424.1	356.5	316.8	292.7
17.5°	1164.8	1060.3	875.2	724.8	618.2	509.1	407.8	309.6	245.9	215.7	200.3
20°	1251.7	1122.5	874.3	678.1	536.7	402.5	276.3	203.6	165.1	148.2	140.9
22.5°	1374.7	1202.0	882.1	631.9	451.9	287.7	190.7	149.6	129.9	120.8	116.7
25°	1532.9	1313.6	904.2	589.9	372.2	214.6	148.6	125.3	111.4	104.3	101.4
27.5°	1701.5	1442.0	938.6	553.5	307.4	171.1	127.2	107.3	97.3	92.4	89.7
30°	1840.5	1590.9	973.5	513.0	260.4	149.2	116.5	97.9	86.4	83.2	80.7
32.5°	1962.1	1703.4	998.2	476.4	229.6	132.6	105.4	87.6	79.6	73.6	70.9
35°	2088.0	1797.2	997.4	450.7	208.5	120.0	95.9	78.3	68.9	61.9	59.7
37.5°	2224.3	1903.2	980.4	428.8	199.4	110.0	90.6	73.4	64.0	57.0	54.2
40°	2383.8	2014.4	962.9	408.2	196.7	102.0	86.9	69.5	59.5	52.6	49.9
42.5°	2539.3	2114.6	947.7	392.9	185.8	101.8	83.6	66.6	56.0	49.4	46.2
45°	2663.7	2208.0	944.7	383.8	174.3	105.4	81.9	64.6	53.3	46.6	43.7
47.5°	2767.0	2309.4	963.5	377.3	163.3	96.1	86.2	63.3	50.7	44.2	40.9
50°	2889.9	2433.9	1007.7	366.8	151.7	86.5	98.7	63.6	48.5	41.9	38.4
52.5°	3061.5	2606.3	1072.8	349.0	135.9	77.7	97.2	64.0	46.2	39.3	35.9
55°	3253.8	2821.5	1142.6	319.3	113.7	66.1	83.2	61.3	41.7	36.6	33.3
57.5°	3455.9	3016.6	1184.2	284.1	90.5	57.2	66.6	55.8	36.8	32.9	30.7
60°	3487.5	3090.9	1165.2	240.8	71.8	49.7	49.4	56.8	32.9	29.0	27.4
62.5°	3408.6	2997.6	1073.3	202.2	60.1	43.7	40.5	49.6	29.7	25.8	24.3
65°	3256.9	2745.6	924.6	182.3	55.8	37.4	33.7	34.8	26.1	22.5	21.1
67.5°	3045.9	2409.3	759.1	170.9	55.2	32.1	28.8	26.5	22.5	19.6	18.4
70°	2614.3	2007.1	605.6	164.7	53.7	27.0	24.3	21.5	18.8	16.7	15.6
72.5°	1924.1	1422.3	471.1	157.8	54.0	21.5	21.1	17.8	15.1	12.9	12.6
75°	1111.7	812.6	309.0	127.9	51.5	16.7	17.6	12.6	10.6	9.0	9.0
77.5°	592.5	495.6	117.7	53.3	18.8	10.6	10.0	7.5	6.6	5.5	5.3
80°	258.2	218.1	35.4	14.9	10.3	5.7	3.7	3.4	3.0	2.3	2.1
82.5°	91.5	78.9	11.6	7.3	4.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.8	14.9	0.0	1.8	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°	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6
2.5°	1176.2	1171.9	1146.4	1147.4	1151.9	1158.4	1143.1	1150.1	1169.1	1187.4	1194.2
5°	909.5	910.5	895.0	904.6	913.2	919.1	894.4	894.8	909.8	930.4	941.2
7.5°	640.8	639.3	640.1	663.0	679.2	667.5	676.7	644.7	646.7	661.4	650.4
10°	476.4	454.9	442.7	459.9	477.8	471.3	455.4	445.1	452.3	468.6	467.4
12.5°	374.4	343.5	325.2	312.9	327.5	315.4	315.0	306.0	296.2	298.0	324.1
15°	281.5	259.1	237.5	217.7	217.3	213.2	192.3	168.8	166.8	168.0	181.5
17.5°	193.7	186.0	177.2	160.1	155.7	138.4	118.0	108.7	104.0	106.1	110.7
20°	136.1	133.1	134.1	124.9	118.5	102.0	90.1	86.4	85.6	87.8	89.9
22.5°	112.8	107.5	106.9	102.7	96.3	84.4	78.0	75.7	74.8	76.8	78.3
25°	98.7	93.4	91.2	88.7	81.9	73.6	69.7	67.7	66.8	67.9	68.9
27.5°	86.9	82.1	80.1	78.3	71.6	65.8	62.7	60.9	60.1	60.5	61.5
30°	78.2	73.8	71.3	69.1	63.4	59.3	56.5	54.9	54.0	54.0	55.1
32.5°	68.9	66.6	64.2	61.5	56.2	53.5	50.7	48.7	48.0	48.2	48.9
35°	57.4	56.5	57.2	54.6	50.1	47.8	45.0	42.9	42.3	42.5	43.3
37.5°	50.9	47.4	49.6	48.2	45.6	42.5	38.9	37.0	36.1	36.6	37.0
40°	46.8	42.5	40.9	42.3	41.9	36.8	33.7	31.8	30.9	31.1	31.5
42.5°	43.3	38.2	34.7	34.5	36.8	32.1	28.8	27.0	26.1	26.1	26.5
45°	40.0	34.5	30.2	26.8	30.9	27.2	24.1	22.5	21.3	21.3	21.5
47.5°	37.4	31.3	26.3	21.9	23.3	22.4	19.7	18.2	17.0	17.0	17.2
50°	35.0	28.2	22.7	18.4	17.4	18.4	16.0	14.3	13.5	13.3	13.7
52.5°	32.5	25.1	19.4	15.6	13.7	13.9	12.6	11.4	10.3	10.3	10.8
55°	30.0	22.5	16.9	13.3	11.4	10.3	10.0	9.2	8.4	8.4	8.8
57.5°	27.4	19.7	14.3	11.0	9.0	8.2	8.2	7.6	7.1	7.1	7.5
60°	25.1	17.0	11.7	9.0	7.1	6.9	7.1	6.4	6.1	6.1	6.4
62.5°	22.4	14.5	9.6	7.5	5.7	5.5	6.1	5.7	5.3	5.3	5.7
65°	19.0	12.3	7.6	5.7	4.3	4.3	5.1	4.7	4.3	4.3	4.7
67.5°	16.0	10.3	5.9	4.1	3.2	3.4	4.3	3.9	3.7	3.7	4.1
70°	13.3	8.0	4.1	2.5	1.8	2.5	3.4	3.4	3.4	3.4	3.7
72.5°	10.0	5.5	2.3	1.0	0.7	1.8	2.7	3.2	3.0	3.0	3.5
75°	6.4	3.2	0.7	0.0	0.0	1.0	2.1	2.5	2.5	2.3	3.0
77.5°	3.7	1.0	0.0	0.0	0.0	0.0	1.4	1.2	1.0	0.7	1.4
80°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6
2.5°	1221.8	1244.9	1277.4	1311.8	1364.9	1407.0	1448.3	1483.8	1497.5	1503.1
5°	967.0	1000.9	1048.5	1109.6	1205.3	1291.5	1378.8	1466.7	1504.9	1514.5
7.5°	693.9	737.2	797.7	874.3	986.4	1098.0	1220.0	1349.1	1408.2	1423.0
10°	513.6	566.5	635.8	716.5	823.5	938.3	1071.2	1218.7	1286.2	1305.9
12.5°	364.4	435.9	528.7	626.7	719.5	822.0	956.5	1119.0	1189.9	1211.2
15°	214.0	283.1	392.9	524.4	643.2	747.0	883.7	1067.9	1146.0	1167.5
17.5°	122.8	157.2	240.2	386.7	548.0	691.8	860.7	1080.6	1172.6	1192.6
20°	93.8	104.7	138.4	249.1	436.8	637.6	860.7	1152.7	1266.1	1295.4
22.5°	82.1	90.1	103.8	148.6	321.5	579.3	870.7	1256.8	1405.1	1437.6
25°	72.8	80.1	91.9	111.8	219.3	510.2	894.4	1384.7	1568.7	1610.8
27.5°	65.2	72.0	82.6	97.9	150.0	426.8	926.3	1534.6	1749.3	1783.0
30°	58.3	64.8	74.4	85.1	115.7	332.3	953.5	1676.0	1891.0	1927.3
32.5°	51.9	57.8	66.4	74.4	94.7	245.7	956.5	1788.0	2008.7	2044.7
35°	45.8	51.1	59.0	65.2	78.5	194.0	910.9	1885.2	2126.4	2174.0
37.5°	40.0	45.0	51.9	56.5	69.1	158.2	841.2	1993.4	2277.4	2321.4
40°	34.5	38.9	46.0	49.2	65.4	121.6	765.4	2107.0	2425.4	2465.7
42.5°	29.3	33.7	40.5	46.6	57.4	90.8	683.6	2213.5	2558.5	2600.8
45°	24.5	29.0	35.9	49.4	47.6	67.9	596.0	2284.2	2663.7	2709.7
47.5°	19.7	24.9	34.3	46.9	38.0	49.9	526.7	2351.1	2743.3	2788.8
50°	15.8	21.0	38.6	41.9	31.1	38.2	497.7	2411.0	2795.6	2839.3
52.5°	12.9	17.6	36.4	32.1	26.1	31.5	513.4	2508.2	2844.0	2871.4
55°	10.8	13.9	21.9	22.4	22.2	26.8	532.8	2647.6	2969.1	2982.0
57.5°	9.4	11.2	15.3	17.2	18.6	23.8	533.1	2847.6	3162.7	3170.8
60°	8.0	9.8	12.8	13.9	16.0	21.3	513.7	2917.6	3238.9	3265.5
62.5°	7.1	8.6	10.6	11.6	13.5	19.2	468.4	2816.3	3134.4	3179.6
65°	6.2	7.8	8.8	9.8	11.9	17.2	393.6	2613.9	2960.8	3008.1
67.5°	5.5	6.9	7.8	8.8	10.8	15.3	289.8	2378.8	2761.8	2800.9
70°	4.9	6.1	7.1	7.8	9.4	12.9	175.8	2018.5	2486.5	2502.7
72.5°	4.7	5.5	6.4	7.1	8.2	11.4	89.1	1483.4	1987.7	2014.2
75°	4.1	4.9	5.9	6.2	7.3	9.8	36.2	974.3	1440.5	1482.9
77.5°	3.4	4.5	5.3	5.7	6.2	8.0	18.4	622.6	1010.9	1038.3
80°	1.2	3.4	4.5	4.7	5.3	5.9	12.1	340.9	586.4	598.1
82.5°	0.0	2.1	3.5	3.4	3.7	4.5	7.8	162.1	387.1	391.4
85°	0.0	1.0	2.7	2.1	1.6	3.2	2.7	35.4	203.1	211.5
87.5°	0.0	0.0	0.2	1.0	0.7	1.2	0.4	0.2	18.4	23.3
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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