

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: P382722

Luminaire Tested: **GLEON-SA1A-735-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382722
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-SA1A-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA 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: 3370.3 lumens
Efficiency: N/A
Efficacy: 99.1 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

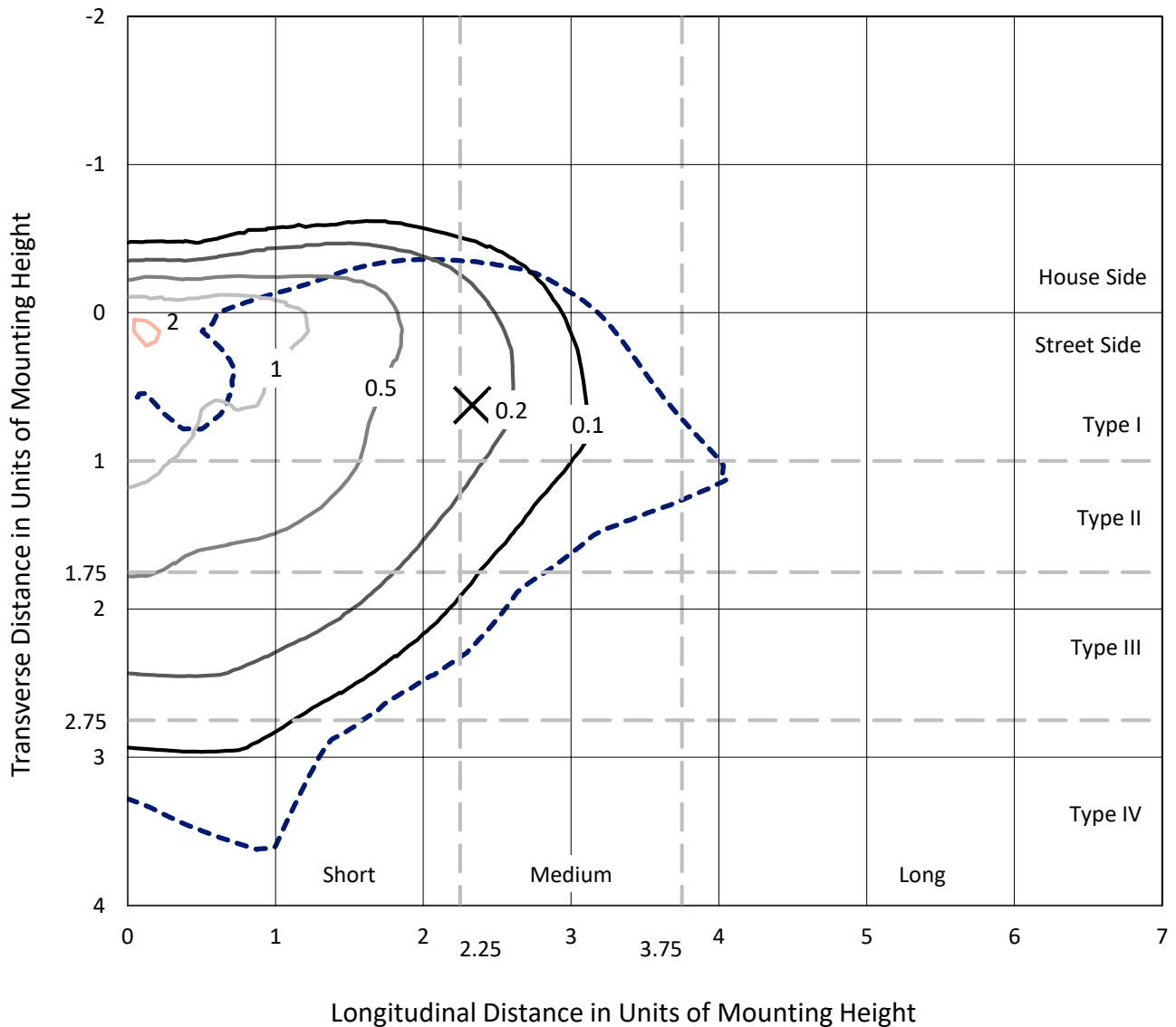
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

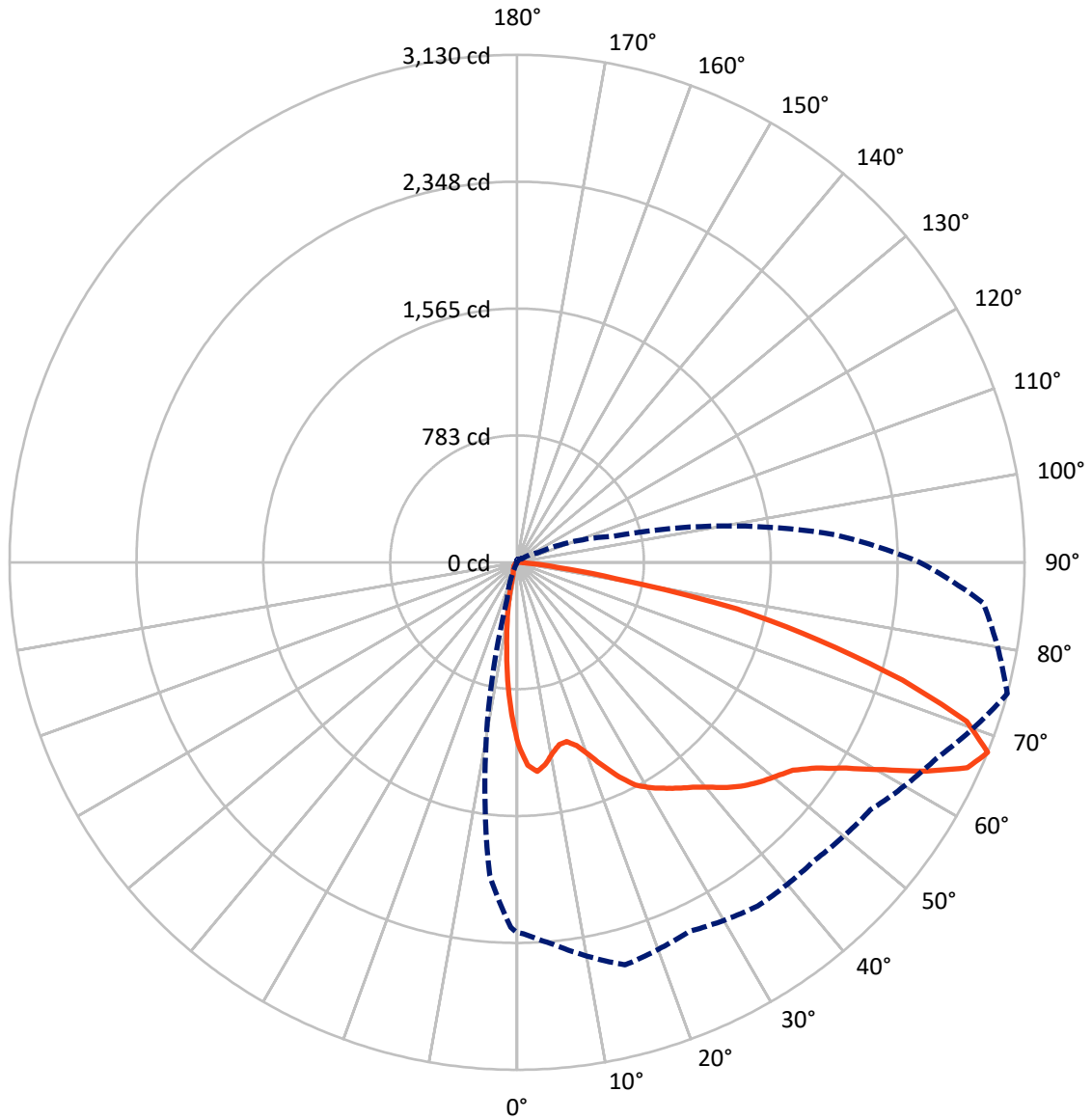
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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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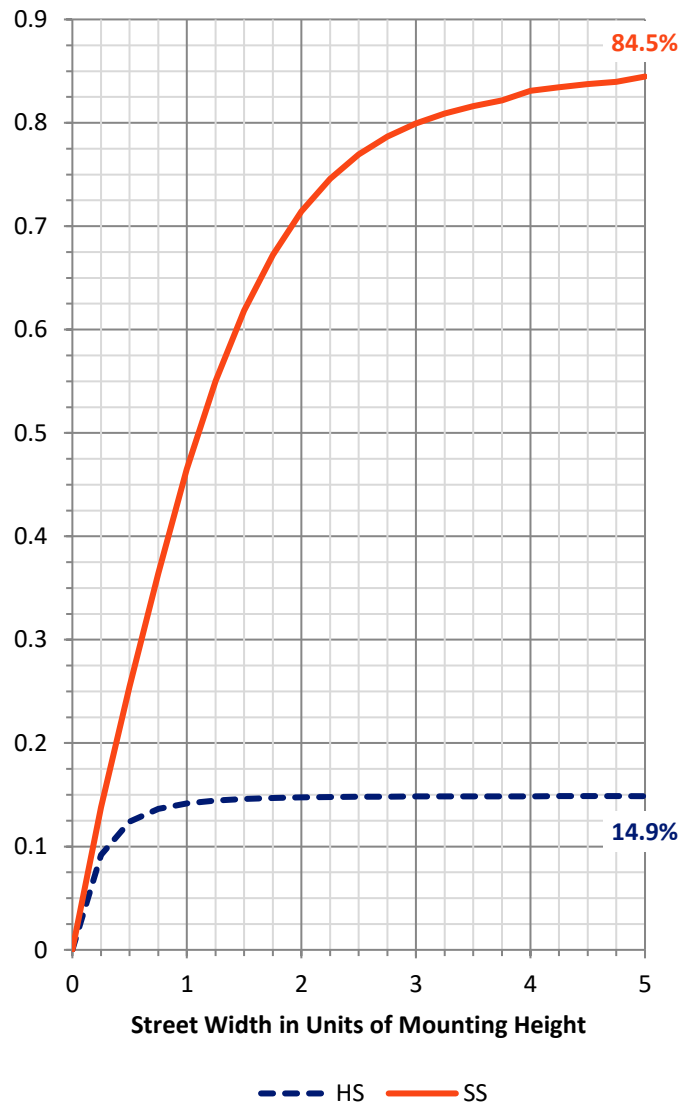
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	505.8	0.0	505.8
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	2864.6	0.0	2864.6
	% Fixture	85.0	0.0	85.0
Total	Lumens	3370.3	0.0	3370.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	2.5
10°-20°	168.9	5.0
20°-30°	238.9	7.1
30°-40°	351.3	10.4
40°-50°	504.9	15.0
50°-60°	710.8	21.1
60°-70°	830.1	24.6
70°-80°	423.5	12.6
80°-90°	56.3	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°	3370.3	100.0
0°-180°	3370.3	100.0

Coefficient of Utilization

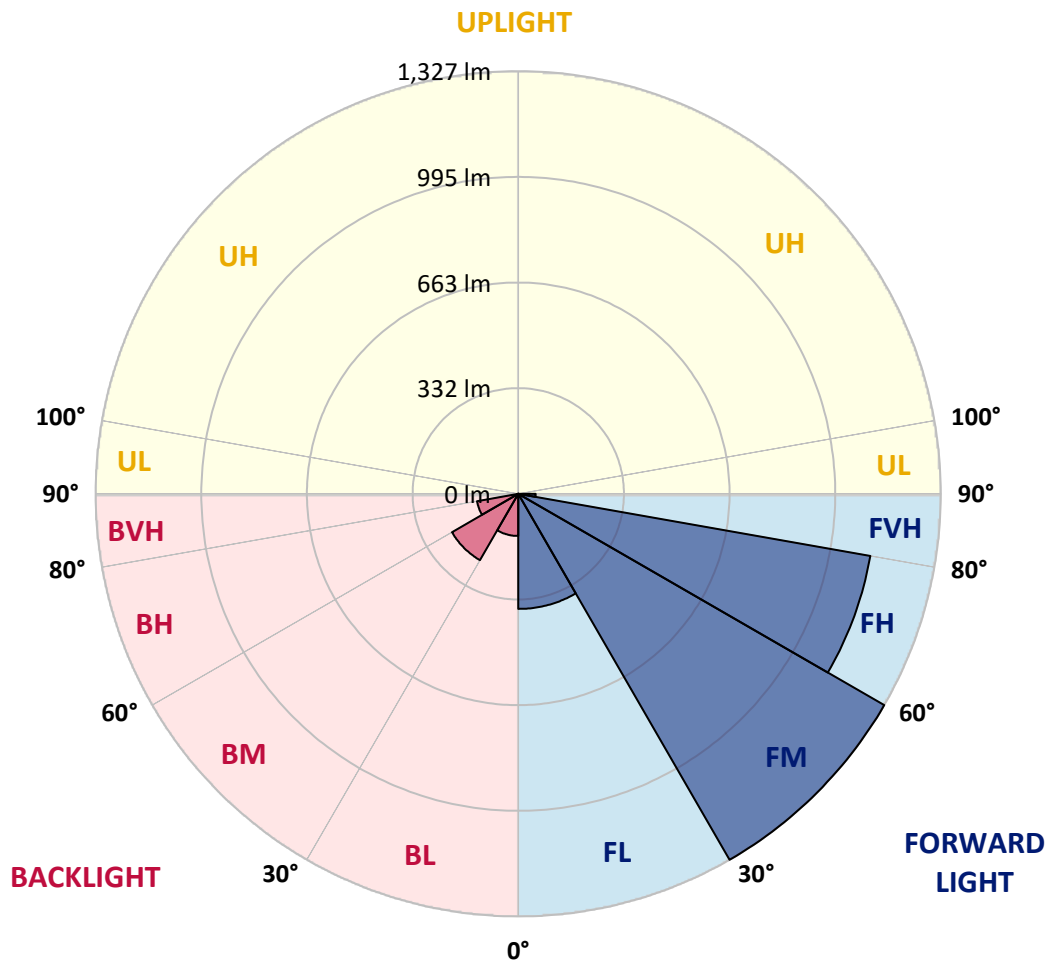


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	361.3	10.7			
FM (30°-60°)	1326.5	39.4			
FH (60°-80°)	1122.2	33.3			G1/1800
FVH (80°-90°)	54.5	1.6			G1/100
BL (0°-30°)	132.3	3.9	B1/500		
BM (30°-60°)	240.4	7.1	B1/1000		
BH (60°-80°)	131.4	3.9	B1/500		G1/500
BVH (80°-90°)	1.7	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°	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7
2.5°	1225.7	1227.6	1237.5	1260.5	1285.5	1287.5	1304.4	1287.0	1281.1	1253.0	1224.0
5°	1235.0	1242.3	1276.3	1343.9	1402.4	1421.3	1434.7	1400.5	1364.6	1296.0	1222.7
7.5°	1160.4	1172.7	1226.2	1353.0	1457.7	1504.0	1512.7	1459.3	1371.3	1258.2	1148.1
10°	1064.9	1078.9	1143.5	1299.3	1443.2	1522.5	1534.6	1464.6	1338.1	1197.2	1067.5
12.5°	987.6	1004.1	1070.0	1239.0	1393.1	1481.0	1504.9	1446.8	1309.4	1154.0	1012.4
15°	952.0	970.9	1040.2	1200.0	1337.8	1406.9	1426.7	1401.6	1293.4	1147.1	999.6
17.5°	972.4	992.9	1064.5	1203.4	1285.7	1315.3	1331.2	1341.4	1293.4	1188.5	1037.0
20°	1056.3	1078.4	1154.0	1237.4	1242.6	1231.6	1248.6	1284.6	1308.4	1267.0	1126.7
22.5°	1172.2	1198.1	1283.5	1295.6	1221.5	1179.9	1182.1	1238.5	1335.7	1366.7	1251.3
25°	1313.5	1345.2	1432.0	1382.5	1230.3	1149.1	1148.2	1200.5	1362.4	1466.4	1390.0
27.5°	1453.9	1488.6	1565.0	1488.5	1266.5	1143.5	1141.9	1188.9	1388.4	1555.2	1541.5
30°	1571.5	1605.3	1671.1	1565.3	1305.7	1156.5	1148.9	1201.2	1403.8	1612.9	1652.0
32.5°	1667.3	1694.5	1747.6	1618.1	1347.5	1181.9	1165.4	1234.1	1430.2	1661.5	1753.5
35°	1772.6	1801.2	1822.5	1668.4	1394.4	1218.5	1194.7	1286.4	1470.7	1711.1	1864.8
37.5°	1892.9	1921.3	1918.8	1714.4	1454.0	1279.0	1263.8	1369.1	1533.8	1760.1	1989.0
40°	2010.6	2039.6	2018.8	1764.7	1523.9	1378.8	1367.6	1493.3	1618.3	1822.8	2134.6
42.5°	2120.8	2152.2	2107.8	1812.2	1607.3	1504.6	1523.7	1653.2	1724.0	1900.1	2260.1
45°	2209.5	2241.6	2182.3	1858.5	1695.0	1657.2	1714.9	1830.5	1851.1	1965.4	2344.9
47.5°	2274.0	2304.4	2234.0	1904.8	1807.5	1843.9	1944.3	2016.3	1965.8	2022.0	2405.1
50°	2315.2	2338.8	2249.2	1962.9	1955.0	2061.6	2183.3	2218.5	2073.9	2073.2	2478.2
52.5°	2341.4	2352.1	2260.4	2023.3	2108.9	2298.8	2417.4	2428.4	2185.2	2129.3	2576.7
55°	2431.6	2440.2	2339.6	2096.6	2236.2	2506.4	2629.1	2618.9	2311.2	2239.3	2692.9
57.5°	2585.5	2594.5	2503.3	2202.0	2339.1	2634.8	2782.5	2800.9	2458.9	2393.9	2817.5
60°	2662.7	2679.7	2647.1	2335.5	2438.9	2716.9	2887.1	2945.6	2643.5	2597.6	2938.2
62.5°	2592.7	2617.3	2664.5	2483.5	2538.1	2762.0	2919.7	2997.5	2832.5	2835.1	3012.5
65°	2452.8	2472.4	2552.6	2564.6	2595.6	2756.4	2839.2	2925.1	2948.3	3053.1	3008.6
67.5°	2283.9	2291.2	2359.2	2571.0	2512.2	2588.5	2597.4	2661.0	2856.8	3130.4	2887.7
70°	2040.7	2044.7	2104.1	2357.2	2158.9	2175.6	2162.4	2175.3	2456.0	2942.2	2582.6
72.5°	1642.4	1652.5	1736.9	1957.6	1572.8	1524.4	1628.5	1622.8	1891.4	2485.7	1918.1
75°	1209.2	1226.7	1354.2	1576.7	1103.9	998.5	1074.4	1094.8	1344.6	1922.7	1199.5
77.5°	846.7	859.6	983.2	1159.1	798.9	714.0	686.6	710.7	887.6	1390.9	604.3
80°	487.8	492.5	571.4	669.3	538.3	615.9	558.0	574.6	531.8	618.8	259.9
82.5°	319.1	320.0	350.7	398.3	335.3	389.6	288.3	368.6	327.2	248.6	84.6
85°	172.4	173.4	203.4	282.7	189.8	107.3	63.1	129.5	202.2	57.0	23.2
87.5°	19.0	17.4	61.3	102.8	52.7	9.8	3.4	14.5	32.4	3.6	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°	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7
2.5°	1209.1	1195.8	1162.8	1127.8	1099.7	1073.3	1046.9	1014.5	989.4	984.3	976.0
5°	1183.3	1141.2	1071.9	1002.3	946.3	875.6	830.7	795.7	761.5	759.5	752.6
7.5°	1092.9	1037.7	940.0	843.8	764.9	697.5	629.5	584.0	548.2	535.6	528.2
10°	1006.0	943.9	822.1	712.3	641.8	582.3	534.3	486.8	443.7	414.0	400.6
12.5°	945.3	876.7	742.4	647.7	597.3	540.8	482.4	422.9	373.3	337.5	315.6
15°	921.9	848.5	715.7	622.2	560.0	488.4	413.7	345.8	290.7	258.3	238.7
17.5°	949.8	864.6	713.7	591.1	504.1	415.1	332.6	252.4	200.6	176.0	163.3
20°	1020.7	915.3	712.9	552.9	437.6	328.3	225.2	166.0	134.6	120.8	115.0
22.5°	1120.9	980.2	719.2	515.2	368.5	234.6	155.5	121.9	105.8	98.5	95.1
25°	1250.0	1071.1	737.3	481.1	303.5	174.9	121.2	102.2	90.8	85.1	82.7
27.5°	1387.4	1175.9	765.4	451.3	250.7	139.5	103.8	87.5	79.4	75.4	73.1
30°	1500.8	1297.2	793.8	418.3	212.3	121.7	95.0	79.8	70.4	67.8	65.8
32.5°	1599.9	1389.0	813.9	388.5	187.2	108.1	85.9	71.4	65.0	60.0	57.8
35°	1702.6	1465.5	813.3	367.5	170.0	97.9	78.2	63.9	56.2	50.5	48.7
37.5°	1813.7	1551.9	799.4	349.6	162.6	89.7	74.0	59.9	52.2	46.5	44.2
40°	1943.9	1642.6	785.2	332.8	160.4	83.2	70.9	56.6	48.5	42.9	40.7
42.5°	2070.6	1724.3	772.7	320.5	151.5	83.0	68.2	54.3	45.6	40.2	37.6
45°	2172.0	1800.5	770.4	312.9	142.1	85.9	66.7	52.7	43.4	38.0	35.6
47.5°	2256.3	1883.1	785.7	307.7	133.1	78.4	70.2	51.6	41.4	36.1	33.3
50°	2356.5	1984.7	821.7	299.0	123.7	70.6	80.5	51.9	39.6	34.2	31.3
52.5°	2496.4	2125.2	874.7	284.5	110.8	63.3	79.2	52.2	37.6	32.0	29.3
55°	2653.1	2300.6	931.7	260.4	92.8	53.9	67.8	49.9	34.0	29.8	27.1
57.5°	2817.9	2459.8	965.6	231.7	73.8	46.6	54.3	45.5	30.0	26.8	25.1
60°	2843.8	2520.3	950.1	196.4	58.6	40.5	40.2	46.3	26.8	23.7	22.4
62.5°	2779.5	2444.4	875.3	164.9	49.0	35.6	33.1	40.4	24.3	21.1	19.8
65°	2655.7	2238.9	753.9	148.7	45.5	30.5	27.5	28.4	21.2	18.4	17.2
67.5°	2483.6	1964.5	619.0	139.4	45.0	26.2	23.5	21.5	18.4	15.9	15.0
70°	2131.8	1636.6	493.8	134.2	43.8	22.1	19.8	17.6	15.4	13.6	12.8
72.5°	1568.9	1159.8	384.2	128.6	44.1	17.6	17.2	14.5	12.3	10.5	10.2
75°	906.5	662.6	252.0	104.2	42.0	13.6	14.3	10.2	8.7	7.4	7.4
77.5°	483.1	404.1	95.9	43.4	15.4	8.7	8.1	6.1	5.4	4.5	4.3
80°	210.6	177.8	28.9	12.1	8.5	4.7	3.1	2.7	2.4	2.0	1.8
82.5°	74.5	64.4	9.4	5.9	3.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.0	12.1	0.0	1.4	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°	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7
2.5°	959.0	955.6	934.8	935.6	939.3	944.5	932.1	937.8	953.3	968.2	973.7
5°	741.6	742.4	729.8	737.6	744.7	749.4	729.3	729.6	741.9	758.7	767.5
7.5°	522.6	521.3	521.9	540.6	553.8	544.3	551.8	525.8	527.3	539.4	530.4
10°	388.5	370.8	361.0	375.0	389.6	384.3	371.4	362.9	368.8	382.0	381.1
12.5°	305.3	280.0	265.2	255.2	267.1	257.2	256.9	249.6	241.6	243.0	264.2
15°	229.6	211.2	193.7	177.6	177.2	173.8	156.8	137.6	136.0	137.0	148.0
17.5°	157.9	151.7	144.5	130.6	127.0	112.9	96.2	88.6	84.8	86.5	90.2
20°	110.9	108.5	109.4	101.8	96.6	83.2	73.4	70.4	69.8	71.5	73.3
22.5°	91.9	87.7	87.2	83.8	78.5	68.8	63.5	61.8	61.0	62.6	63.9
25°	80.5	76.2	74.4	72.3	66.7	60.0	56.8	55.2	54.4	55.4	56.2
27.5°	70.9	66.9	65.3	63.9	58.4	53.7	51.0	49.7	49.0	49.4	50.1
30°	63.7	60.2	58.1	56.4	51.7	48.3	46.1	44.7	44.1	44.1	44.9
32.5°	56.2	54.3	52.4	50.1	45.8	43.6	41.4	39.8	39.1	39.3	39.9
35°	46.8	46.1	46.6	44.5	40.9	38.9	36.7	34.9	34.5	34.7	35.3
37.5°	41.5	38.7	40.4	39.3	37.2	34.7	31.8	30.2	29.3	29.8	30.2
40°	38.2	34.7	33.3	34.5	34.2	30.0	27.5	25.9	25.2	25.4	25.7
42.5°	35.3	31.1	28.2	28.1	30.0	26.2	23.5	22.1	21.2	21.2	21.5
45°	32.6	28.1	24.6	21.9	25.2	22.2	19.7	18.4	17.4	17.4	17.6
47.5°	30.5	25.5	21.4	17.9	19.0	18.2	16.1	14.8	13.9	13.9	14.1
50°	28.6	23.0	18.5	15.0	14.3	15.0	13.1	11.6	11.0	10.9	11.2
52.5°	26.5	20.4	15.8	12.8	11.2	11.4	10.2	9.2	8.5	8.5	8.8
55°	24.4	18.4	13.7	10.9	9.2	8.5	8.1	7.5	6.9	6.9	7.2
57.5°	22.4	16.1	11.6	8.9	7.4	6.7	6.7	6.2	5.8	5.8	6.1
60°	20.4	13.9	9.6	7.4	5.8	5.6	5.8	5.3	4.9	4.9	5.3
62.5°	18.2	11.8	7.8	6.1	4.7	4.5	4.9	4.7	4.3	4.3	4.7
65°	15.5	10.1	6.2	4.7	3.5	3.5	4.2	3.8	3.5	3.5	3.8
67.5°	13.1	8.5	4.8	3.4	2.5	2.7	3.5	3.2	3.1	3.1	3.4
70°	10.9	6.5	3.4	2.0	1.4	2.0	2.7	2.7	2.7	2.7	3.1
72.5°	8.1	4.5	2.0	0.8	0.7	1.4	2.2	2.5	2.4	2.4	2.9
75°	5.3	2.5	0.7	0.0	0.0	0.8	1.8	2.0	2.0	2.0	2.4
77.5°	3.1	0.8	0.0	0.0	0.0	0.0	1.1	0.9	0.8	0.7	1.1
80°	0.8	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°	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7
2.5°	996.3	1015.1	1041.6	1069.7	1113.0	1147.3	1181.0	1209.9	1221.1	1225.7
5°	788.6	816.1	855.0	904.8	982.9	1053.1	1124.3	1196.0	1227.1	1235.0
7.5°	565.8	601.1	650.4	712.9	804.4	895.3	994.8	1100.1	1148.2	1160.4
10°	418.8	461.9	518.4	584.2	671.6	765.1	873.5	993.7	1048.8	1064.9
12.5°	297.2	355.4	431.1	511.0	586.8	670.2	779.9	912.5	970.2	987.6
15°	174.5	230.8	320.5	427.6	524.5	609.0	720.6	870.8	934.4	952.0
17.5°	100.1	128.2	195.9	315.3	446.9	564.1	701.8	881.2	956.1	972.4
20°	76.5	85.4	112.9	203.1	356.2	519.8	701.8	939.9	1032.3	1056.3
22.5°	66.9	73.4	84.6	121.2	262.1	472.4	710.0	1024.8	1145.7	1172.2
25°	59.4	65.3	74.9	91.2	178.9	416.0	729.3	1129.1	1279.2	1313.5
27.5°	53.2	58.8	67.4	79.8	122.3	348.0	755.3	1251.3	1426.4	1453.9
30°	47.6	52.8	60.6	69.5	94.4	270.9	777.6	1366.7	1542.0	1571.5
32.5°	42.3	47.1	54.1	60.6	77.3	200.4	779.9	1458.0	1637.9	1667.3
35°	37.4	41.6	48.1	53.2	64.0	158.2	742.7	1537.1	1733.9	1772.6
37.5°	32.6	36.7	42.3	46.1	56.4	129.0	685.9	1625.5	1856.9	1892.9
40°	28.1	31.8	37.5	40.1	53.3	99.1	624.1	1718.1	1977.7	2010.6
42.5°	23.9	27.5	33.1	38.0	46.8	74.1	557.3	1805.0	2086.2	2120.8
45°	19.9	23.7	29.3	40.2	38.8	55.4	486.0	1862.5	2172.0	2209.5
47.5°	16.1	20.3	27.9	38.3	30.9	40.7	429.4	1917.1	2236.9	2274.0
50°	12.9	17.0	31.5	34.2	25.4	31.1	405.9	1966.0	2279.6	2315.2
52.5°	10.5	14.3	29.7	26.2	21.2	25.7	418.6	2045.2	2319.0	2341.4
55°	8.8	11.4	17.9	18.2	18.1	21.9	434.4	2158.9	2421.0	2431.6
57.5°	7.6	9.1	12.5	14.1	15.2	19.5	434.8	2322.1	2578.9	2585.5
60°	6.5	8.0	10.3	11.4	13.1	17.4	418.9	2379.1	2641.0	2662.7
62.5°	5.8	7.0	8.7	9.4	11.0	15.6	381.9	2296.5	2555.8	2592.7
65°	5.1	6.4	7.2	8.0	9.8	14.1	320.9	2131.4	2414.3	2452.8
67.5°	4.5	5.6	6.4	7.2	8.8	12.5	236.3	1939.7	2251.9	2283.9
70°	4.0	4.9	5.8	6.4	7.6	10.5	143.4	1645.9	2027.5	2040.7
72.5°	3.8	4.5	5.3	5.8	6.7	9.2	72.7	1209.5	1620.8	1642.4
75°	3.4	4.0	4.8	5.1	5.9	8.0	29.5	794.4	1174.6	1209.2
77.5°	2.7	3.6	4.3	4.7	5.1	6.5	15.0	507.7	824.3	846.7
80°	0.9	2.7	3.6	3.8	4.3	4.8	9.9	278.0	478.2	487.8
82.5°	0.0	1.8	2.9	2.7	3.1	3.6	6.4	132.2	315.6	319.1
85°	0.0	0.8	2.2	1.8	1.3	2.5	2.2	28.9	165.5	172.4
87.5°	0.0	0.0	0.2	0.8	0.7	0.9	0.3	0.2	15.0	19.0
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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