

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: P450465

Luminaire Tested: **GALN-SA1B-730-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450465
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 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: 3766 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

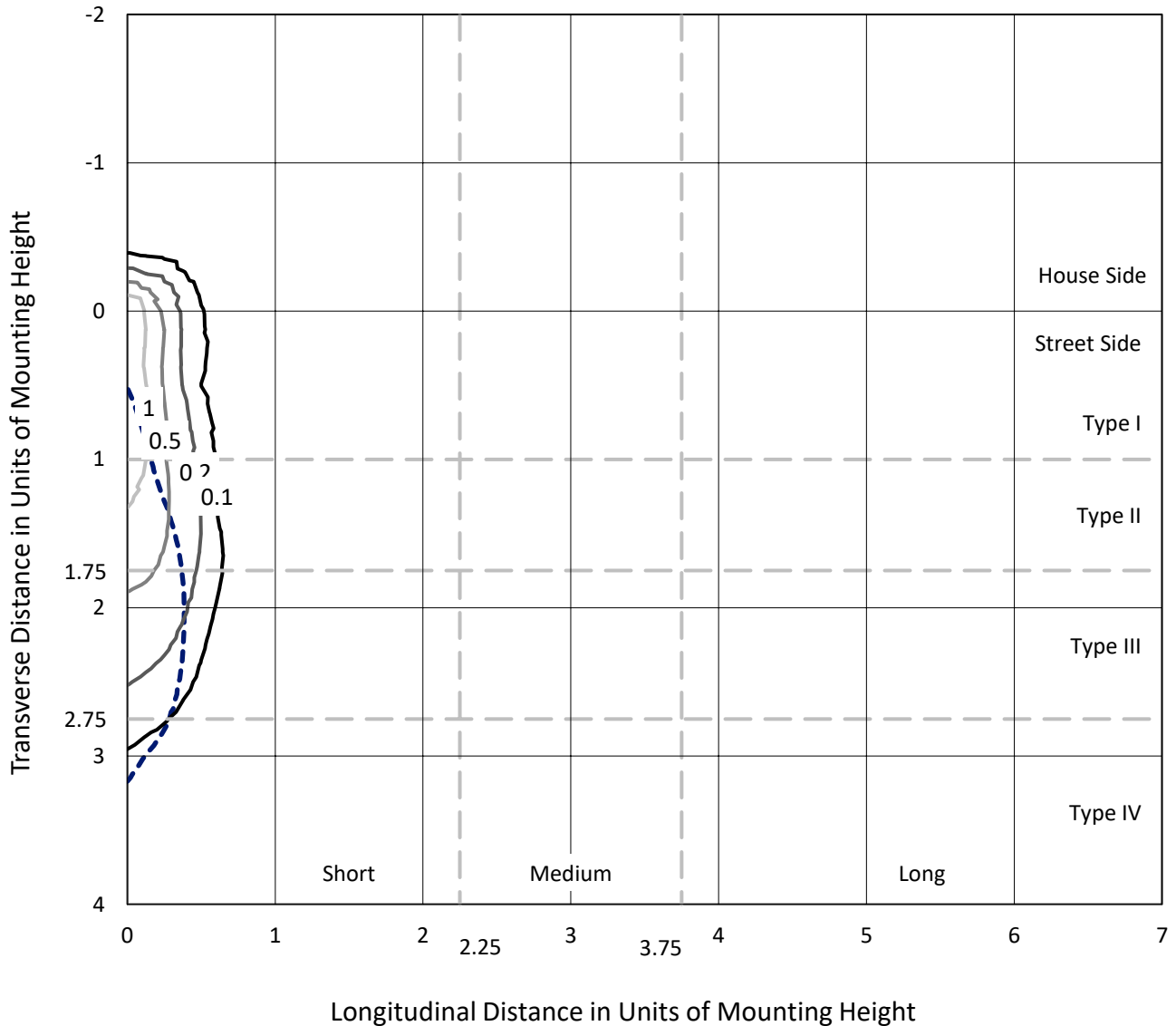
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

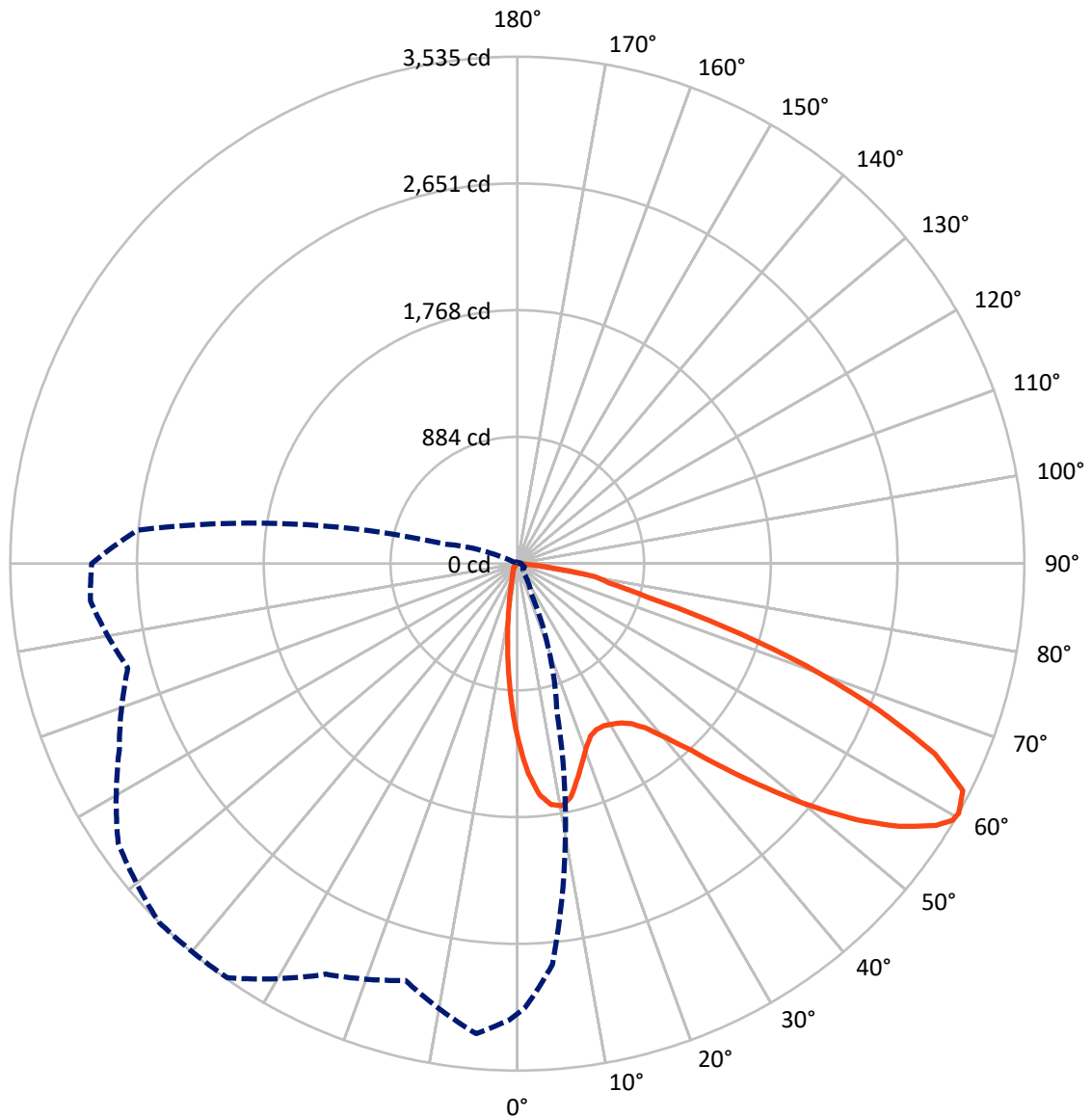
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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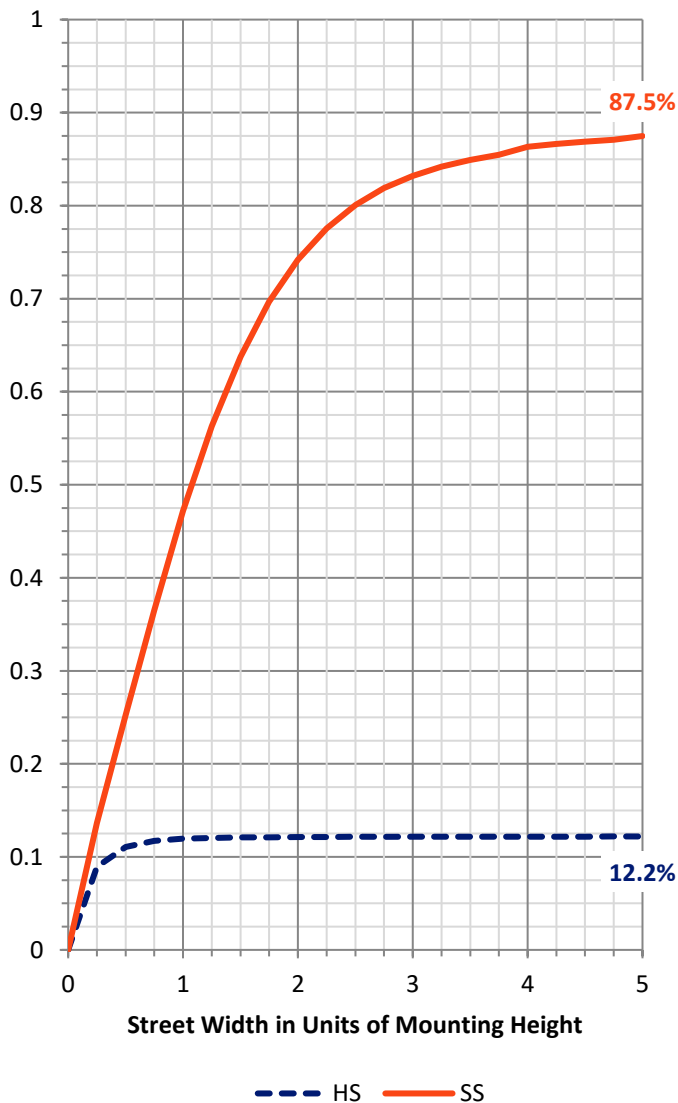
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	464.5	0.0	464.5
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	3301.5	0.0	3301.5
	% Fixture	87.7	0.0	87.7
Total	Lumens	3766.0	0.0	3766.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.6	2.5
10°-20°	183.9	4.9
20°-30°	269.6	7.2
30°-40°	400.9	10.6
40°-50°	583.5	15.5
50°-60°	841.4	22.3
60°-70°	925.5	24.6
70°-80°	414.5	11.0
80°-90°	54.2	1.4
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°	3766.0	100.0
0°-180°	3766.0	100.0



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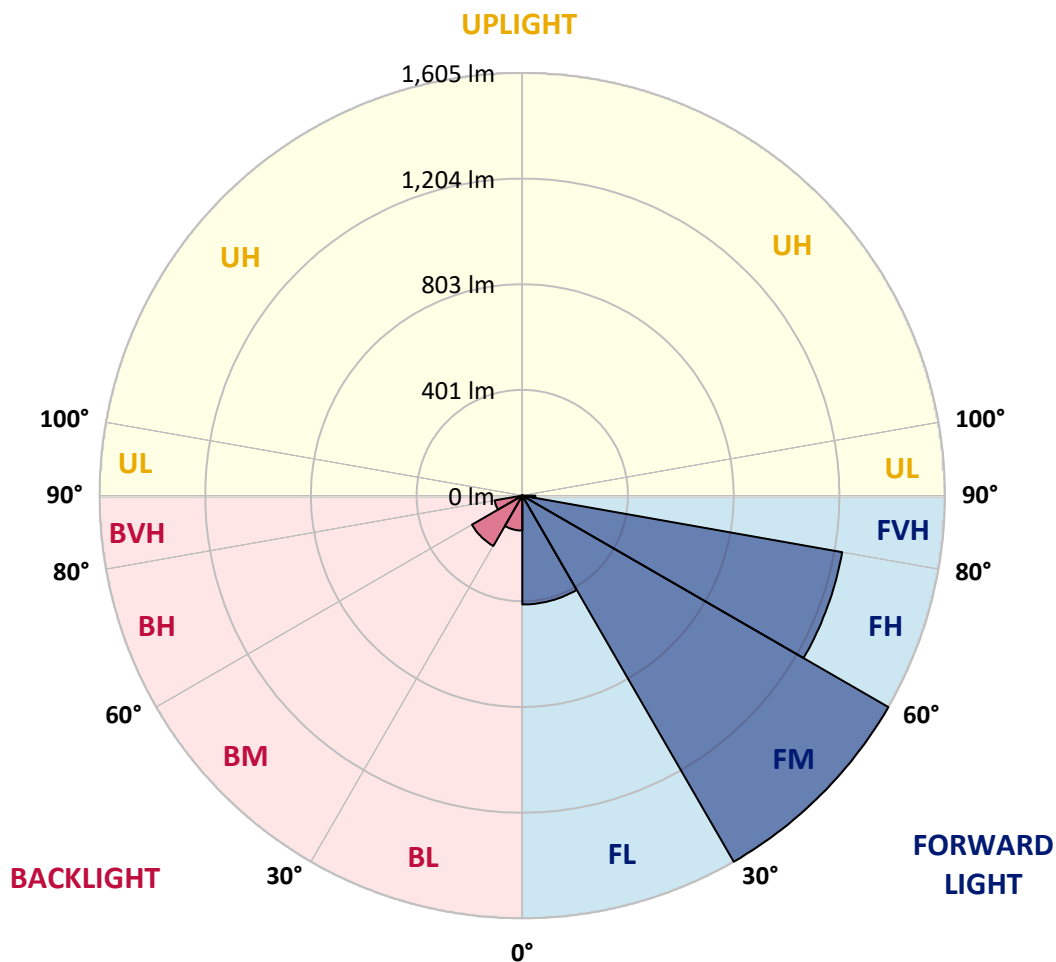
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	413.3	11.0			
FM (30°-60°)	1605.2	42.6			
FH (60°-80°)	1233.5	32.8			G1/1800
FVH (80°-90°)	49.5	1.3			G1/100
BL (0°-30°)	132.7	3.5	B1/500		
BM (30°-60°)	220.6	5.9	B1/1000		
BH (60°-80°)	106.5	2.8	B0/110		G0/110
BVH (80°-90°)	4.6	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7
2.5°	1368.4	1362.4	1348.6	1306.8	1270.5	1223.0	1174.9	1137.1	1113.9	1071.2	1051.8
5°	1325.7	1328.6	1288.8	1202.9	1107.3	1042.0	970.8	914.1	851.7	812.2	770.6
7.5°	1214.4	1208.6	1165.4	1045.8	929.5	835.1	744.9	671.6	625.5	588.6	557.7
10°	1119.0	1114.7	1059.5	905.5	780.7	710.0	649.0	584.9	535.3	481.2	438.0
12.5°	1059.2	1049.5	985.9	825.0	723.4	657.6	591.2	524.5	456.0	401.4	349.0
15°	1039.2	1025.1	954.4	797.3	686.8	603.2	519.9	443.2	364.4	304.0	264.5
17.5°	1075.5	1052.3	977.1	792.4	643.0	532.2	429.7	329.8	247.9	201.8	177.5
20°	1158.8	1132.2	1034.3	787.5	594.3	452.6	326.6	233.0	171.5	146.3	132.8
22.5°	1282.5	1245.9	1119.0	795.3	549.4	375.0	235.9	164.6	136.3	120.5	111.1
25°	1431.1	1400.4	1226.4	822.7	513.9	314.0	182.4	134.5	114.8	105.1	97.9
27.5°	1594.0	1545.0	1365.2	855.7	481.5	266.8	160.0	120.2	102.2	93.3	89.6
30°	1709.9	1671.8	1481.5	878.6	441.1	231.3	146.3	118.5	102.5	91.9	85.0
32.5°	1824.4	1775.8	1578.8	889.2	411.7	206.7	126.5	103.3	89.9	84.5	77.6
35°	1946.9	1896.0	1675.8	883.4	389.6	190.4	114.8	92.2	77.0	67.8	61.0
37.5°	2070.9	2017.1	1772.3	862.8	375.9	183.8	105.6	87.6	72.7	63.3	55.8
40°	2218.0	2146.2	1862.8	845.9	361.6	180.4	99.6	84.7	69.6	59.5	52.1
42.5°	2338.3	2269.9	1948.4	837.1	351.8	172.3	99.6	82.4	67.6	56.4	48.7
45°	2452.2	2381.2	2040.8	844.2	347.8	162.3	100.8	82.2	66.1	54.1	46.4
47.5°	2547.5	2486.0	2135.9	871.1	342.7	151.4	94.8	86.2	65.3	52.1	44.1
50°	2660.1	2600.5	2261.6	925.5	333.5	140.6	87.3	92.8	65.0	50.4	42.1
52.5°	2818.6	2754.2	2435.0	987.4	318.9	124.0	80.4	91.9	63.8	47.5	40.1
55°	3012.5	2960.4	2636.0	1061.5	298.9	105.3	69.6	81.6	60.4	42.7	36.6
57.5°	3136.7	3092.3	2786.6	1093.6	268.2	86.2	61.3	68.4	55.3	38.1	32.6
59°	3151.3	3111.2	2818.1	1083.0	248.2	78.7	57.3	58.7	53.8	35.5	30.3
60°	3139.0	3097.5	2805.5	1062.4	229.6	73.6	53.8	52.1	54.1	34.1	28.6
62.5°	3060.0	2989.0	2683.2	957.9	200.7	67.6	47.8	42.7	47.8	30.6	25.5
65°	2907.4	2800.9	2441.3	810.7	189.2	64.1	40.7	35.8	36.4	26.9	22.0
67.5°	2640.9	2506.6	2119.3	658.7	184.4	64.4	34.4	32.1	28.1	22.9	19.5
70°	2219.5	2085.5	1700.5	541.9	182.1	64.4	29.2	27.5	23.5	19.2	16.9
72.5°	1572.8	1428.5	1147.1	425.7	164.0	64.1	24.9	24.9	19.2	16.0	13.7
75°	888.6	889.7	721.1	301.2	136.3	53.0	20.0	19.8	14.0	12.3	10.3
77.5°	517.9	508.7	486.1	129.4	63.3	24.0	14.0	12.0	9.7	8.9	7.4
80°	266.2	219.0	213.3	46.9	22.6	15.2	9.7	6.9	6.3	5.7	5.2
82.5°	78.7	79.0	70.4	18.9	12.6	10.0	4.9	3.7	3.4	3.1	3.1
85°	5.4	3.4	4.0	5.7	7.7	4.0	0.3	0.9	0.9	1.1	1.4
87.5°	0.6	0.3	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°	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7
2.5°	1030.3	1042.9	1019.4	1020.0	1000.5	1006.8	983.9	991.4	977.9	988.2	1018.6
5°	775.2	778.1	759.2	753.2	756.0	767.8	772.4	751.5	760.3	742.9	741.7
7.5°	546.2	549.6	538.8	537.3	557.9	553.1	562.0	540.5	520.2	529.0	512.7
10°	424.3	409.9	387.6	381.3	377.3	379.9	379.9	360.4	357.6	349.8	361.6
12.5°	334.9	317.5	296.3	267.7	260.5	259.9	249.3	232.2	226.7	220.1	229.9
15°	243.3	236.2	218.4	202.4	186.1	182.9	165.8	151.7	133.1	130.5	129.7
17.5°	171.2	160.6	160.3	151.2	141.7	135.4	119.4	103.3	96.2	95.3	95.3
20°	128.3	124.5	118.5	117.4	114.5	107.4	93.0	84.5	81.0	81.3	82.4
22.5°	107.9	105.3	99.9	97.3	96.2	89.9	79.3	73.6	71.9	71.9	72.1
25°	96.5	94.2	88.2	84.2	82.7	78.2	69.9	65.6	64.1	64.1	64.1
27.5°	87.9	85.0	78.7	75.3	72.7	67.6	62.4	58.1	56.7	56.7	57.0
30°	81.9	78.7	73.0	68.4	64.4	59.8	55.5	51.8	50.1	49.8	50.1
32.5°	73.9	71.0	65.3	62.4	57.8	52.4	49.0	45.5	43.8	44.1	43.8
35°	57.5	56.7	52.7	53.5	51.0	46.4	43.2	39.5	37.5	37.2	37.8
37.5°	52.4	49.0	44.4	44.7	43.8	42.1	36.9	32.9	31.5	31.5	31.8
40°	48.4	44.9	39.8	37.2	37.5	37.5	32.1	27.8	26.3	26.1	26.6
42.5°	44.9	41.5	35.8	31.5	30.3	31.8	27.2	22.9	21.5	20.9	21.5
45°	42.7	38.9	32.3	27.5	24.0	25.8	22.3	18.9	17.2	17.2	16.9
47.5°	40.4	36.9	29.8	23.8	20.0	19.2	18.3	15.2	13.5	13.2	13.5
50°	38.4	34.9	26.9	20.6	16.9	14.9	14.9	12.0	10.9	10.3	10.6
52.5°	36.4	32.6	24.3	18.3	14.6	12.0	10.6	9.7	8.9	8.6	8.9
55°	33.5	29.8	21.8	15.7	12.6	10.0	8.3	8.0	7.4	6.9	7.4
57.5°	30.1	26.6	19.2	13.5	10.0	7.7	6.9	6.6	6.0	5.7	5.7
59°	28.1	24.9	17.7	11.7	8.9	6.9	6.3	6.0	5.4	4.9	5.2
60°	26.9	24.3	16.9	10.9	8.0	6.3	5.7	5.4	4.9	4.6	4.9
62.5°	23.8	21.8	14.9	8.9	6.3	4.6	4.0	4.3	4.0	3.7	4.0
65°	20.9	19.2	12.6	6.9	4.9	3.1	2.9	3.7	3.4	3.1	3.4
67.5°	18.6	16.6	10.6	5.2	3.4	1.7	2.0	3.1	3.1	2.9	3.1
70°	16.0	14.3	8.6	3.7	1.7	0.9	1.4	2.3	2.9	2.6	2.9
72.5°	13.2	11.2	6.6	2.6	0.9	0.0	0.9	2.0	2.9	2.6	2.9
75°	10.3	8.3	4.9	1.4	0.0	0.0	0.3	1.7	2.9	2.6	2.9
77.5°	7.4	6.0	2.9	0.3	0.0	0.0	0.3	1.7	2.9	2.6	2.9
80°	4.9	4.3	1.1	0.0	0.0	0.0	0.3	1.7	2.9	2.9	3.1
82.5°	3.1	2.3	0.0	0.0	0.0	0.0	0.6	2.3	3.1	3.4	3.4
85°	1.4	0.0	0.0	0.0	0.0	0.0	1.1	2.9	3.7	3.7	3.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.6	2.0	3.4	4.3	4.3	4.3
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°	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7
2.5°	1023.7	1041.7	1067.2	1106.4	1138.2	1188.3	1226.7	1279.1	1332.0	1348.1	1373.0
5°	753.5	776.7	834.5	887.2	920.4	1026.3	1093.3	1198.9	1293.7	1339.2	1388.7
7.5°	523.3	550.8	594.9	668.4	738.3	824.5	932.7	1053.5	1192.3	1257.3	1327.2
10°	367.3	401.6	463.8	524.2	612.1	693.9	800.7	934.1	1087.3	1164.0	1251.6
12.5°	231.9	262.5	344.7	412.5	522.2	617.2	715.7	836.5	1014.0	1092.7	1184.6
15°	132.5	158.3	196.7	283.7	405.4	531.0	653.8	794.1	976.5	1073.5	1172.9
17.5°	98.8	105.6	122.8	172.1	282.8	429.7	596.9	781.2	1002.0	1115.9	1229.3
20°	83.0	87.6	95.6	115.1	180.4	330.9	541.3	783.5	1084.4	1227.5	1335.2
22.5°	74.4	77.3	83.9	96.5	123.1	241.0	476.4	797.0	1184.3	1364.7	1488.9
25°	65.3	69.0	74.7	85.6	102.5	167.2	412.2	827.0	1324.3	1538.7	1655.5
27.5°	58.1	61.5	67.3	77.3	89.9	127.7	337.5	852.8	1472.0	1713.9	1809.5
30°	51.0	54.4	60.1	68.1	79.6	103.3	257.1	868.0	1615.4	1845.3	1918.9
32.5°	44.9	47.8	53.2	60.4	69.9	87.6	202.7	852.2	1725.1	1964.7	2013.9
35°	38.9	42.4	46.9	53.5	61.8	74.7	168.6	797.8	1819.3	2087.5	2105.3
37.5°	32.6	36.6	41.5	47.5	54.1	68.7	135.4	737.7	1920.0	2240.7	2211.5
40°	27.5	31.2	35.8	42.4	48.4	63.0	104.2	673.6	2028.8	2384.4	2327.4
42.5°	22.3	26.3	31.8	37.8	47.8	55.0	80.7	607.2	2126.4	2509.5	2432.2
45°	17.7	21.2	26.9	34.6	47.5	47.2	62.4	541.6	2200.0	2598.8	2510.3
47.5°	14.0	16.9	22.6	33.8	43.8	40.1	50.1	501.0	2277.3	2679.2	2570.2
50°	11.2	14.0	19.5	35.2	38.4	34.4	42.1	507.6	2352.0	2720.2	2594.8
52.5°	9.4	12.3	16.9	27.8	29.5	30.1	36.9	537.9	2448.5	2764.0	2643.7
55°	8.3	10.9	14.3	19.5	22.9	26.9	33.8	560.0	2577.6	2857.9	2751.7
57.5°	6.6	9.4	12.9	16.6	18.9	23.5	31.2	561.7	2694.4	2978.4	2895.1
59°	6.0	8.6	12.0	15.7	16.9	21.2	29.5	547.1	2698.7	2996.4	2960.9
60°	5.4	8.3	11.5	14.6	16.0	20.0	28.1	530.2	2659.8	2967.8	2988.1
62.5°	4.6	7.2	10.0	11.7	13.7	16.6	24.3	468.9	2471.1	2838.1	2937.7
65°	4.0	6.3	8.6	9.7	11.5	14.3	21.5	375.3	2262.7	2662.3	2793.5
67.5°	3.7	5.7	7.4	8.3	10.0	13.2	19.2	265.1	1992.7	2439.3	2576.7
70°	3.4	5.4	6.6	7.7	8.9	11.2	16.3	154.6	1535.0	2048.3	2193.4
72.5°	3.4	5.2	5.7	6.6	7.7	10.0	15.2	83.6	1049.5	1562.5	1750.0
75°	3.4	4.9	5.2	5.7	6.9	9.2	13.5	43.8	678.5	1085.5	1339.8
77.5°	3.4	4.6	5.2	5.4	6.6	8.0	11.7	27.5	452.0	760.3	905.5
80°	3.7	4.6	4.9	5.4	6.3	7.4	9.7	18.3	265.7	457.5	551.1
82.5°	4.0	4.6	5.2	5.7	6.6	7.2	8.6	11.5	122.5	302.6	342.4
85°	4.3	4.9	5.4	6.0	6.9	7.2	8.0	8.3	20.0	136.6	184.6
87.5°	4.6	5.2	5.7	6.3	7.4	7.4	7.4	7.4	6.9	14.6	37.2
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°	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7	1244.7
2.5°	1404.5	1436.8	1459.4	1465.1	1448.8	1441.4	1420.8	1388.7	1369.2	1368.4
5°	1480.0	1555.9	1608.6	1617.4	1586.0	1532.7	1469.4	1387.9	1340.0	1325.7
7.5°	1467.2	1600.0	1684.7	1697.0	1644.1	1542.4	1419.9	1288.5	1236.4	1214.4
10°	1414.2	1576.2	1697.3	1716.8	1646.1	1502.9	1347.2	1200.6	1135.9	1119.0
12.5°	1369.0	1532.7	1640.3	1667.3	1613.7	1470.9	1303.7	1144.2	1075.0	1059.2
15°	1349.2	1481.2	1547.0	1560.8	1551.9	1450.8	1299.1	1135.6	1056.3	1039.2
17.5°	1369.0	1437.4	1445.7	1459.7	1479.5	1448.8	1343.2	1182.3	1096.7	1075.5
20°	1420.8	1399.3	1365.0	1371.0	1416.2	1457.1	1421.6	1285.7	1181.5	1158.8
22.5°	1508.9	1389.9	1312.0	1306.8	1364.1	1484.9	1536.7	1425.6	1304.8	1282.5
25°	1617.2	1413.6	1292.5	1281.4	1343.8	1525.6	1661.8	1597.1	1465.1	1431.1
27.5°	1735.1	1462.9	1292.5	1281.6	1342.0	1561.6	1768.9	1748.8	1631.2	1594.0
30°	1799.8	1503.5	1311.1	1298.8	1363.2	1582.5	1826.1	1883.7	1756.0	1709.9
32.5°	1857.6	1559.9	1347.5	1324.3	1407.6	1613.4	1877.4	1998.2	1855.3	1824.4
35°	1910.9	1620.3	1397.6	1370.7	1466.0	1655.8	1934.1	2118.4	1993.6	1946.9
37.5°	1969.6	1690.4	1475.7	1452.8	1563.6	1738.3	2001.3	2276.4	2129.6	2070.9
40°	2033.4	1771.7	1604.3	1594.5	1718.8	1831.6	2086.4	2445.1	2284.7	2218.0
42.5°	2098.4	1865.4	1761.7	1777.8	1894.6	1962.4	2173.7	2574.7	2411.9	2338.3
45°	2157.4	1985.0	1966.4	2045.7	2099.5	2090.1	2238.4	2666.1	2522.6	2452.2
47.5°	2231.8	2159.4	2214.0	2336.3	2337.7	2228.9	2287.3	2740.8	2618.0	2547.5
50°	2315.1	2365.2	2533.8	2658.3	2624.8	2365.5	2344.6	2829.2	2716.4	2660.1
52.5°	2411.6	2595.6	2829.2	2967.5	2889.4	2514.3	2439.9	2924.9	2872.8	2818.6
55°	2523.8	2752.8	3123.8	3234.0	3155.3	2699.3	2584.8	3054.5	3049.4	3012.5
57.5°	2650.6	2918.8	3294.4	3443.6	3373.4	2916.3	2787.2	3176.8	3157.3	3136.7
59°	2750.8	3004.2	3369.7	3524.3	3481.9	3068.3	2923.1	3252.9	3182.2	3151.3
60°	2811.5	3062.0	3397.5	3535.2	3525.5	3158.7	3009.3	3290.1	3181.9	3139.0
62.5°	2991.6	3163.0	3386.9	3486.8	3524.9	3332.2	3262.1	3331.1	3123.0	3060.0
65°	3055.7	3129.5	3211.4	3199.1	3231.7	3323.3	3423.5	3286.1	2997.0	2907.4
67.5°	2930.9	2762.3	2791.2	2709.0	2693.0	2954.6	3358.0	3066.3	2750.5	2640.9
70°	2470.5	2116.1	2101.5	2139.3	2035.7	2392.1	3015.3	2642.9	2343.7	2219.5
72.5°	1944.7	1495.5	1372.4	1511.5	1508.4	1825.0	2504.9	1875.4	1583.4	1572.8
75°	1529.3	1041.2	913.8	936.4	979.9	1321.2	1995.0	1190.9	975.0	888.6
77.5°	1026.6	737.7	688.2	660.4	707.4	848.2	1262.2	645.8	546.8	517.9
80°	591.7	535.9	608.6	552.5	577.7	534.5	627.8	296.3	245.9	266.2
82.5°	385.0	305.2	325.2	241.6	330.4	333.2	201.5	87.6	74.1	78.7
85°	240.8	143.1	80.4	57.3	113.9	209.6	63.0	5.4	6.3	5.4
87.5°	62.4	23.8	10.0	14.9	18.3	16.3	14.6	0.9	0.3	0.6
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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