

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: P451161

Luminaire Tested: **GALN-SA2A-730-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451161
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-SA2A-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6015 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63
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

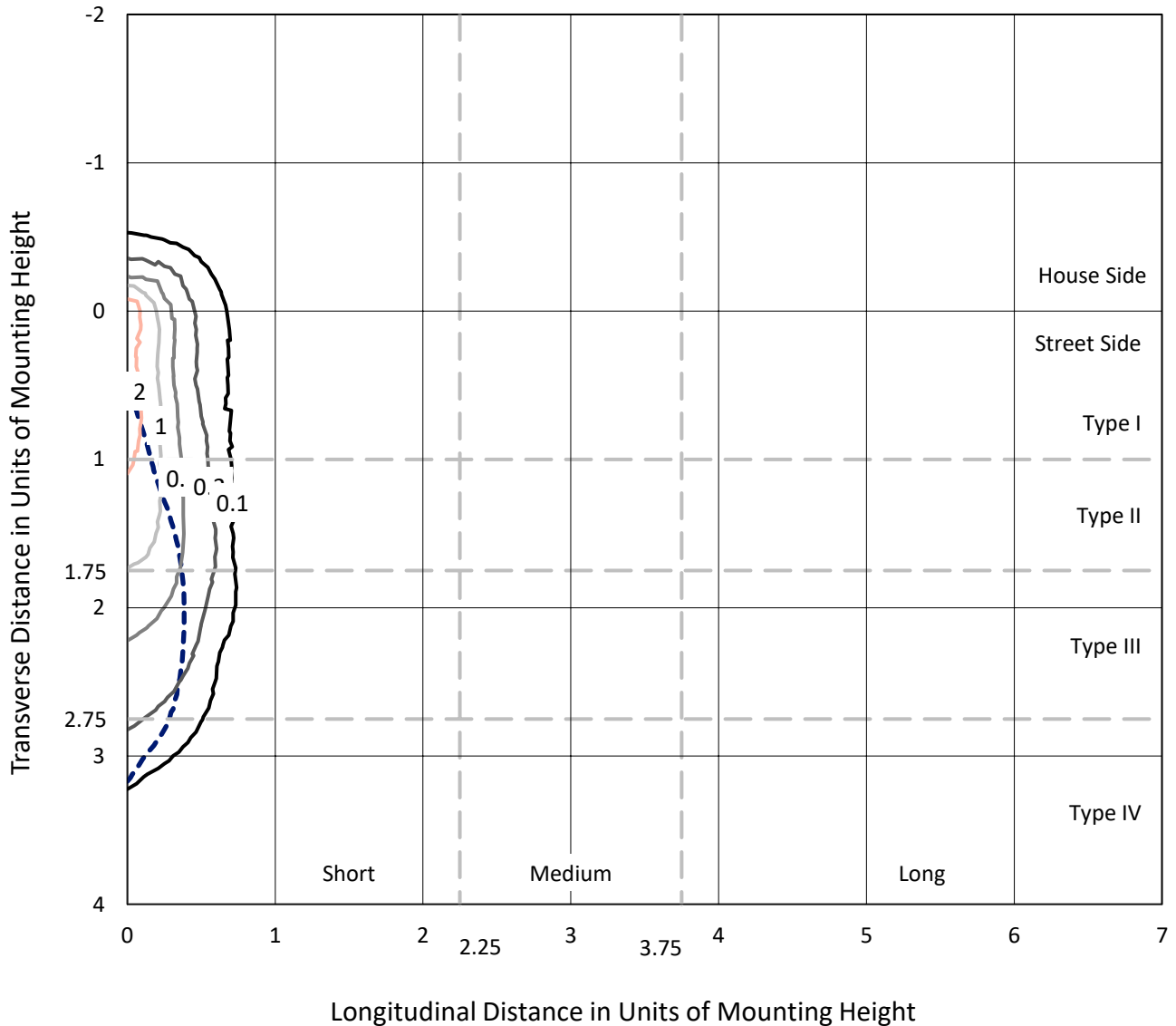




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Iso-Footcandle Lines of Horizontal Illumination

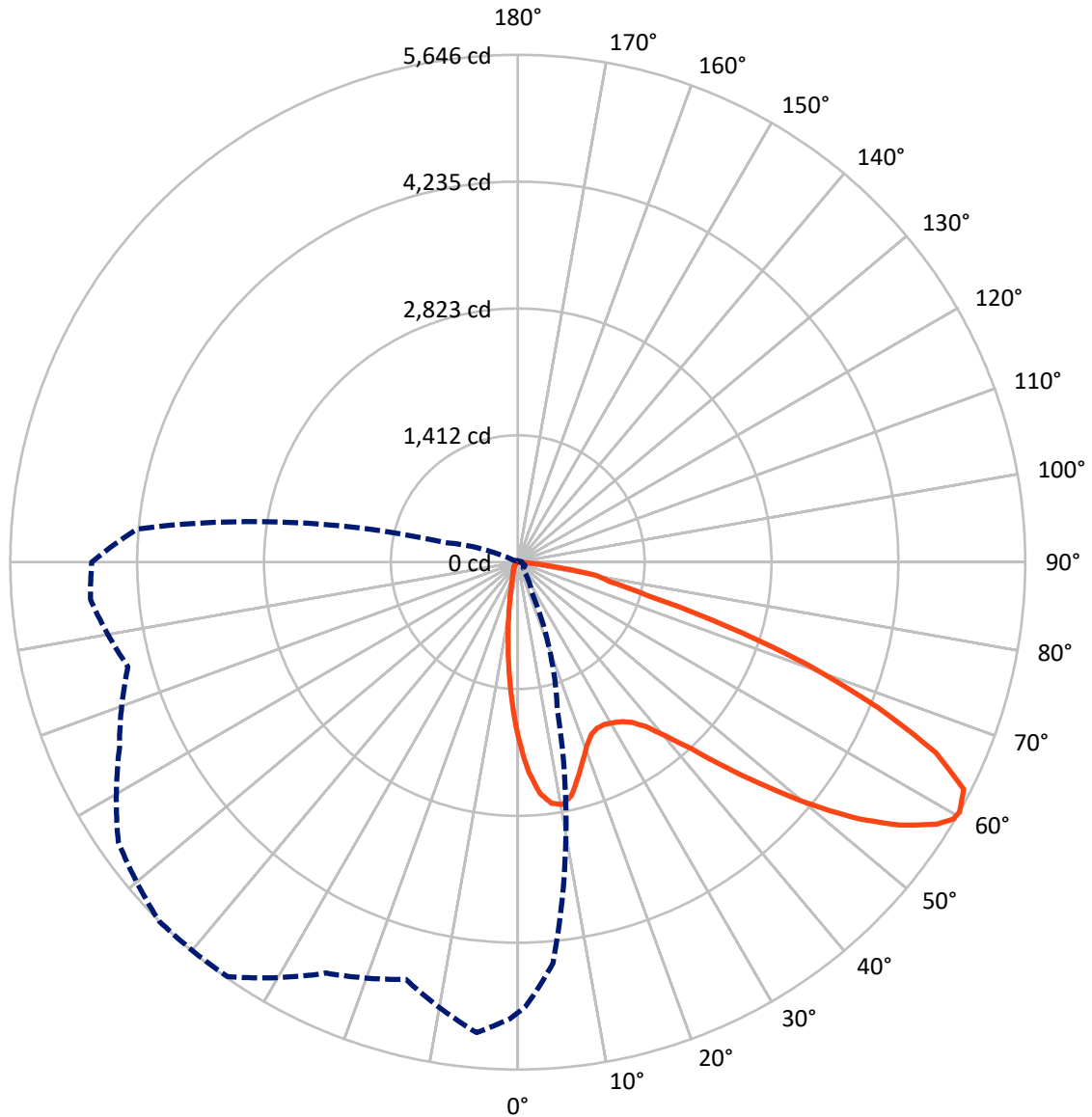
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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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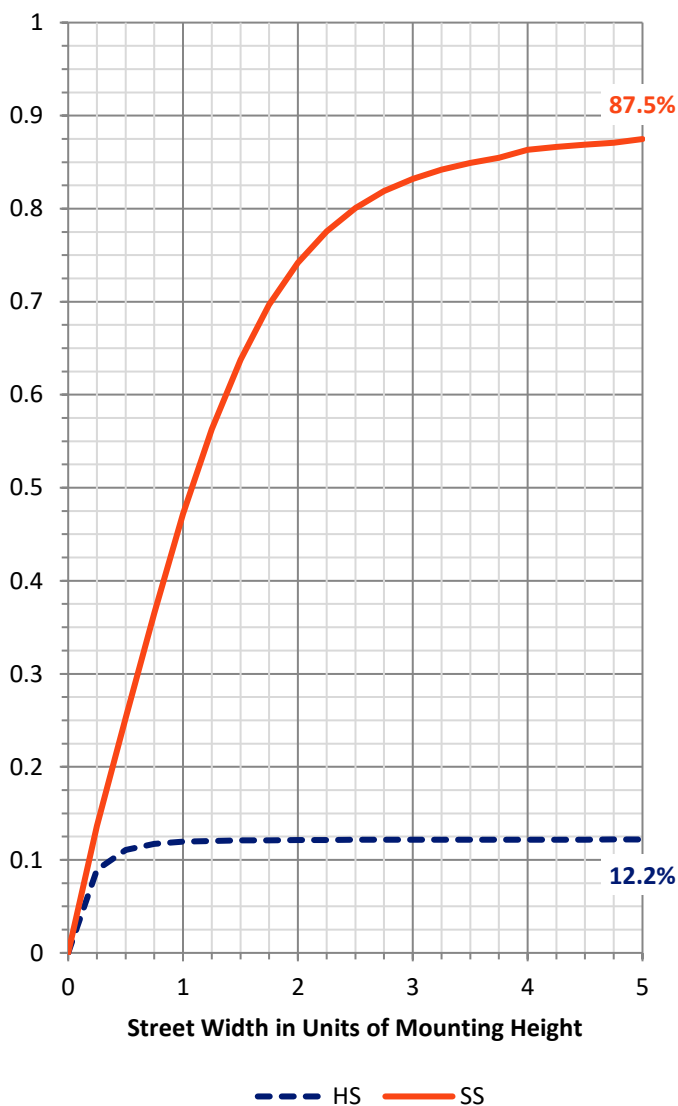
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	741.9	0.0	741.9
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	5273.1	0.0	5273.1
	% Fixture	87.7	0.0	87.7
Total	Lumens	6015.0	0.0	6015.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.9	2.5
10°-20°	293.7	4.9
20°-30°	430.6	7.2
30°-40°	640.4	10.6
40°-50°	931.9	15.5
50°-60°	1343.9	22.3
60°-70°	1478.1	24.6
70°-80°	662.1	11.0
80°-90°	86.5	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°	6015.0	100.0
0°-180°	6015.0	100.0

Coefficient of Utilization

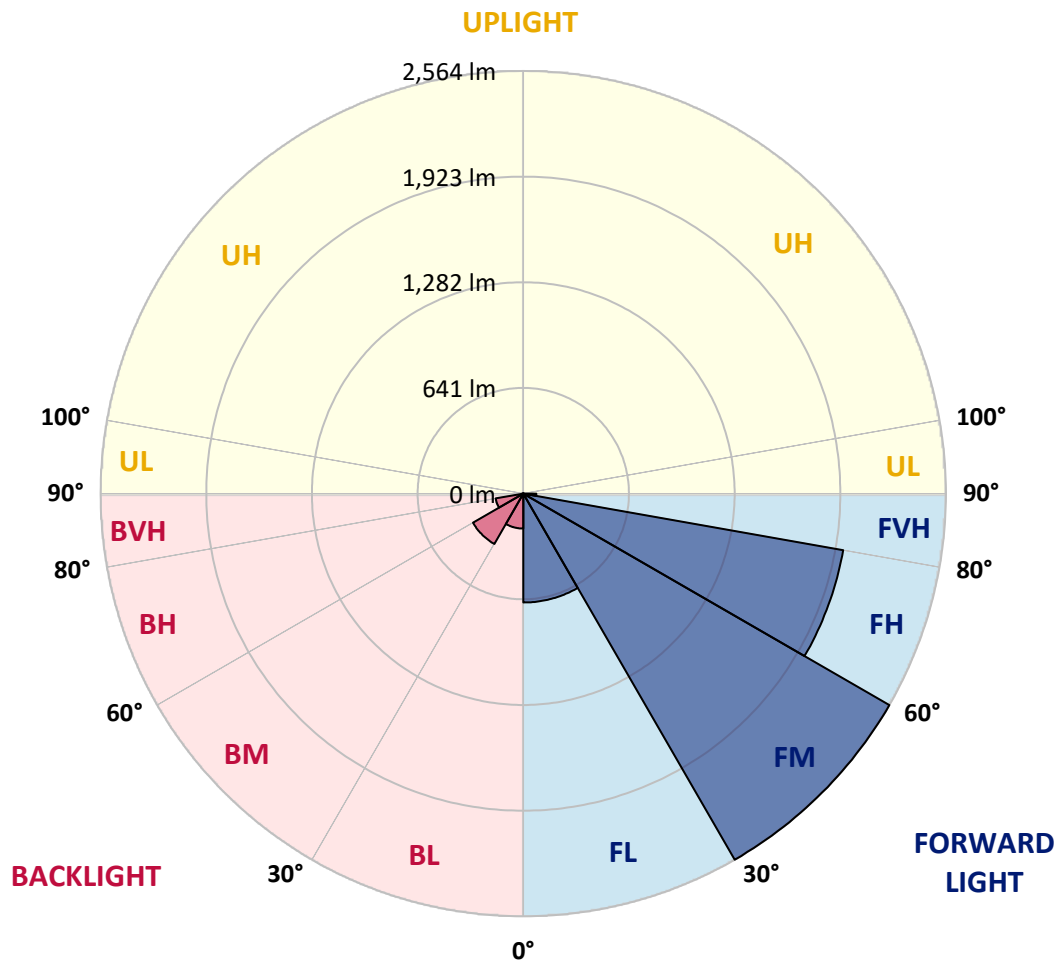


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	660.1	11.0			
FM (30°-60°)	2563.8	42.6			
FH (60°-80°)	1970.1	32.8			G2/5000
FVH (80°-90°)	79.1	1.3			G1/100
BL (0°-30°)	212.0	3.5	B1/500		
BM (30°-60°)	352.4	5.9	B1/1000		
BH (60°-80°)	170.1	2.8	B1/500		G1/500
BVH (80°-90°)	7.4	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-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1988.0	1988.0	1988.0	1988.0	1988.0	1988.0	1988.0	1988.0	1988.0	1988.0	1988.0
2.5°	2185.6	2176.0	2154.0	2087.3	2029.2	1953.3	1876.5	1816.1	1779.1	1711.0	1679.9
5°	2117.4	2122.0	2058.5	1921.3	1768.6	1664.3	1550.5	1459.9	1360.3	1297.2	1230.9
7.5°	1939.6	1930.4	1861.4	1670.3	1484.6	1333.7	1189.7	1072.7	999.1	940.1	890.7
10°	1787.3	1780.5	1692.2	1446.2	1246.9	1133.9	1036.5	934.1	855.0	768.6	699.6
12.5°	1691.8	1676.2	1574.7	1317.7	1155.4	1050.3	944.2	837.6	728.4	641.0	557.4
15°	1659.8	1637.3	1524.4	1273.4	1096.9	963.4	830.3	707.8	582.1	485.6	422.5
17.5°	1717.8	1680.8	1560.5	1265.6	1026.9	850.0	686.3	526.7	396.0	322.3	283.5
20°	1850.9	1808.4	1652.0	1257.8	949.2	722.9	521.7	372.2	273.9	233.6	212.2
22.5°	2048.4	1989.9	1787.3	1270.2	877.4	599.0	376.8	262.9	217.6	192.5	177.4
25°	2285.7	2236.8	1958.8	1314.1	820.7	501.6	291.3	214.9	183.3	167.8	156.4
27.5°	2545.9	2467.7	2180.5	1366.7	769.1	426.1	255.6	192.0	163.2	149.1	143.1
30°	2731.0	2670.2	2366.2	1403.2	704.6	369.4	233.6	189.3	163.7	146.8	135.8
32.5°	2913.9	2836.2	2521.6	1420.2	657.5	330.1	202.1	165.1	143.6	134.9	123.9
35°	3109.6	3028.2	2676.6	1411.0	622.3	304.1	183.3	147.2	123.0	108.4	97.4
37.5°	3307.6	3221.7	2830.7	1378.1	600.3	293.5	168.7	139.9	116.1	101.0	89.2
40°	3542.6	3427.9	2975.2	1351.1	577.5	288.1	159.1	135.3	111.1	95.1	83.2
42.5°	3734.7	3625.4	3111.9	1336.9	561.9	275.3	159.1	131.7	107.9	90.1	77.7
45°	3916.6	3803.3	3259.6	1348.4	555.5	259.3	160.9	131.2	105.6	86.4	74.1
47.5°	4068.9	3970.6	3411.4	1391.4	547.3	241.9	151.3	137.6	104.2	83.2	70.4
50°	4248.6	4153.5	3612.1	1478.2	532.7	224.5	139.5	148.1	103.8	80.5	67.2
52.5°	4501.9	4399.0	3889.2	1577.0	509.4	198.0	128.5	146.8	102.0	75.9	64.0
55°	4811.4	4728.2	4210.2	1695.4	477.3	168.3	111.1	130.3	96.5	68.1	58.5
57.5°	5009.9	4939.0	4450.7	1746.6	428.4	137.6	97.8	109.3	88.2	60.8	52.1
59°	5033.2	4969.2	4501.0	1729.7	396.4	125.7	91.4	93.7	86.0	56.7	48.5
60°	5013.5	4947.2	4480.9	1696.8	366.7	117.5	86.0	83.2	86.4	54.4	45.7
62.5°	4887.3	4774.0	4285.6	1529.9	320.5	107.9	76.4	68.1	76.4	48.9	40.7
65°	4643.6	4473.6	3899.3	1294.9	302.2	102.4	64.9	57.2	58.1	43.0	35.2
67.5°	4218.0	4003.5	3384.9	1052.1	294.5	102.9	54.9	51.2	44.8	36.6	31.1
70°	3544.9	3330.9	2716.0	865.5	290.8	102.9	46.6	43.9	37.5	30.6	27.0
72.5°	2512.0	2281.6	1832.1	679.9	262.0	102.4	39.8	39.8	30.6	25.6	21.9
75°	1419.2	1421.1	1151.8	481.0	217.6	84.6	32.0	31.5	22.4	19.7	16.5
77.5°	827.1	812.5	776.4	206.7	101.0	38.4	22.4	19.2	15.5	14.2	11.9
80°	425.2	349.8	340.6	75.0	36.1	24.2	15.5	11.0	10.1	9.1	8.2
82.5°	125.7	126.2	112.5	30.2	20.1	16.0	7.8	5.9	5.5	5.0	5.0
85°	8.7	5.5	6.4	9.1	12.3	6.4	0.5	1.4	1.4	1.8	2.3
87.5°	0.9	0.5	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°	1988.0	1988.0	1988.0	1988.0	1988.0	1988.0	1988.0	1988.0	1988.0	1988.0	1988.0
2.5°	1645.6	1665.7	1628.2	1629.1	1598.0	1608.1	1571.5	1583.4	1561.9	1578.4	1626.8
5°	1238.2	1242.8	1212.6	1203.0	1207.5	1226.3	1233.6	1200.2	1214.4	1186.5	1184.7
7.5°	872.4	877.9	860.5	858.2	891.1	883.4	897.5	863.3	830.8	845.0	818.9
10°	677.6	654.8	619.1	609.0	602.6	606.7	606.7	575.7	571.1	558.7	577.5
12.5°	535.0	507.1	473.2	427.5	416.1	415.2	398.2	370.8	362.1	351.6	367.2
15°	388.6	377.2	348.9	323.3	297.2	292.2	264.7	242.3	212.6	208.5	207.1
17.5°	273.4	256.5	256.0	241.4	226.3	216.3	190.7	165.1	153.6	152.3	152.3
20°	204.8	198.9	189.3	187.5	182.9	171.5	148.6	134.9	129.4	129.9	131.7
22.5°	172.4	168.3	159.6	155.5	153.6	143.6	126.7	117.5	114.8	114.8	115.2
25°	154.1	150.4	140.8	134.4	132.1	124.8	111.6	104.7	102.4	102.4	102.4
27.5°	140.4	135.8	125.7	120.3	116.1	107.9	99.7	92.8	90.5	90.5	91.0
30°	130.8	125.7	116.6	109.3	102.9	95.6	88.7	82.8	80.0	79.6	80.0
32.5°	118.0	113.4	104.2	99.7	92.4	83.7	78.2	72.7	70.0	70.4	70.0
35°	91.9	90.5	84.1	85.5	81.4	74.1	69.0	63.1	59.9	59.4	60.4
37.5°	83.7	78.2	70.9	71.3	70.0	67.2	59.0	52.6	50.3	50.3	50.8
40°	77.3	71.8	63.6	59.4	59.9	59.9	51.2	44.4	42.1	41.6	42.5
42.5°	71.8	66.3	57.2	50.3	48.5	50.8	43.4	36.6	34.3	33.4	34.3
45°	68.1	62.2	51.7	43.9	38.4	41.2	35.7	30.2	27.4	27.4	27.0
47.5°	64.5	59.0	47.6	38.0	32.0	30.6	29.3	24.2	21.5	21.0	21.5
50°	61.3	55.8	43.0	32.9	27.0	23.8	23.8	19.2	17.4	16.5	16.9
52.5°	58.1	52.1	38.9	29.3	23.3	19.2	16.9	15.5	14.2	13.7	14.2
55°	53.5	47.6	34.7	25.1	20.1	16.0	13.3	12.8	11.9	11.0	11.9
57.5°	48.0	42.5	30.6	21.5	16.0	12.3	11.0	10.5	9.6	9.1	9.1
59°	44.8	39.8	28.3	18.7	14.2	11.0	10.1	9.6	8.7	7.8	8.2
60°	43.0	38.9	27.0	17.4	12.8	10.1	9.1	8.7	7.8	7.3	7.8
62.5°	38.0	34.7	23.8	14.2	10.1	7.3	6.4	6.9	6.4	5.9	6.4
65°	33.4	30.6	20.1	11.0	7.8	5.0	4.6	5.9	5.5	5.0	5.5
67.5°	29.7	26.5	16.9	8.2	5.5	2.7	3.2	5.0	5.0	4.6	5.0
70°	25.6	22.9	13.7	5.9	2.7	1.4	2.3	3.7	4.6	4.1	4.6
72.5°	21.0	17.8	10.5	4.1	1.4	0.0	1.4	3.2	4.6	4.1	4.6
75°	16.5	13.3	7.8	2.3	0.0	0.0	0.5	2.7	4.6	4.1	4.6
77.5°	11.9	9.6	4.6	0.5	0.0	0.0	0.5	2.7	4.6	4.1	4.6
80°	7.8	6.9	1.8	0.0	0.0	0.0	0.5	2.7	4.6	4.6	5.0
82.5°	5.0	3.7	0.0	0.0	0.0	0.0	0.9	3.7	5.0	5.5	5.5
85°	2.3	0.0	0.0	0.0	0.0	0.0	1.8	4.6	5.9	5.9	5.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.9	3.2	5.5	6.9	6.9	6.9
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1988.0	1988.0	1988.0	1988.0	1988.0	1988.0	1988.0	1988.0	1988.0	1988.0	1988.0
2.5°	1635.1	1663.9	1704.6	1767.2	1818.0	1898.0	1959.2	2042.9	2127.5	2153.1	2192.9
5°	1203.4	1240.5	1332.8	1417.0	1470.0	1639.2	1746.2	1914.9	2066.2	2138.9	2218.0
7.5°	835.8	879.7	950.1	1067.6	1179.2	1316.8	1489.7	1682.6	1904.4	2008.2	2119.7
10°	586.6	641.5	740.7	837.2	977.6	1108.3	1278.9	1491.9	1736.6	1859.1	1999.0
12.5°	370.4	419.3	550.5	658.9	834.0	985.8	1143.1	1336.0	1619.5	1745.3	1892.0
15°	211.7	252.8	314.1	453.1	647.4	848.2	1044.3	1268.4	1559.6	1714.6	1873.3
17.5°	157.7	168.7	196.2	274.8	451.7	686.3	953.3	1247.8	1600.3	1782.3	1963.4
20°	132.6	139.9	152.7	183.8	288.1	528.6	864.6	1251.4	1732.0	1960.6	2132.5
22.5°	118.9	123.5	134.0	154.1	196.6	385.0	760.8	1272.9	1891.6	2179.6	2378.1
25°	104.2	110.2	119.3	136.7	163.7	267.0	658.4	1320.9	2115.2	2457.6	2644.2
27.5°	92.8	98.3	107.4	123.5	143.6	203.9	539.1	1362.1	2351.1	2737.4	2890.2
30°	81.4	86.9	96.0	108.8	127.1	165.1	410.6	1386.3	2580.2	2947.3	3064.8
32.5°	71.8	76.4	85.0	96.5	111.6	139.9	323.7	1361.2	2755.3	3138.0	3216.6
35°	62.2	67.7	75.0	85.5	98.8	119.3	269.3	1274.3	2905.7	3334.1	3362.5
37.5°	52.1	58.5	66.3	75.9	86.4	109.7	216.3	1178.3	3066.7	3578.8	3532.1
40°	43.9	49.8	57.2	67.7	77.3	100.6	166.4	1075.9	3240.4	3808.3	3717.3
42.5°	35.7	42.1	50.8	60.4	76.4	87.8	128.9	969.8	3396.3	4008.1	3884.6
45°	28.3	33.8	43.0	55.3	75.9	75.4	99.7	865.1	3513.8	4150.7	4009.5
47.5°	22.4	27.0	36.1	54.0	70.0	64.0	80.0	800.2	3637.3	4279.2	4105.0
50°	17.8	22.4	31.1	56.2	61.3	54.9	67.2	810.7	3756.6	4344.6	4144.3
52.5°	15.1	19.7	27.0	44.4	47.1	48.0	59.0	859.1	3910.7	4414.6	4222.5
55°	13.3	17.4	22.9	31.1	36.6	43.0	54.0	894.3	4116.9	4564.5	4394.9
57.5°	10.5	15.1	20.6	26.5	30.2	37.5	49.8	897.1	4303.5	4757.0	4624.0
59°	9.6	13.7	19.2	25.1	27.0	33.8	47.1	873.8	4310.3	4785.8	4729.1
60°	8.7	13.3	18.3	23.3	25.6	32.0	44.8	846.8	4248.1	4740.1	4772.6
62.5°	7.3	11.4	16.0	18.7	21.9	26.5	38.9	748.9	3946.8	4533.0	4692.1
65°	6.4	10.1	13.7	15.5	18.3	22.9	34.3	599.4	3614.0	4252.3	4461.7
67.5°	5.9	9.1	11.9	13.3	16.0	21.0	30.6	423.4	3182.8	3896.1	4115.5
70°	5.5	8.7	10.5	12.3	14.2	17.8	26.1	246.9	2451.7	3271.5	3503.3
72.5°	5.5	8.2	9.1	10.5	12.3	16.0	24.2	133.5	1676.2	2495.6	2795.1
75°	5.5	7.8	8.2	9.1	11.0	14.6	21.5	70.0	1083.6	1733.8	2139.8
77.5°	5.5	7.3	8.2	8.7	10.5	12.8	18.7	43.9	722.0	1214.4	1446.2
80°	5.9	7.3	7.8	8.7	10.1	11.9	15.5	29.3	424.3	730.7	880.2
82.5°	6.4	7.3	8.2	9.1	10.5	11.4	13.7	18.3	195.7	483.3	546.8
85°	6.9	7.8	8.7	9.6	11.0	11.4	12.8	13.3	32.0	218.1	294.9
87.5°	7.3	8.2	9.1	10.1	11.9	11.9	11.9	11.9	11.0	23.3	59.4
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°	1988.0	1988.0	1988.0	1988.0	1988.0	1988.0	1988.0	1988.0	1988.0	1988.0
2.5°	2243.2	2294.8	2331.0	2340.1	2314.0	2302.2	2269.2	2218.0	2186.9	2185.6
5°	2363.9	2485.1	2569.2	2583.4	2533.1	2448.0	2347.0	2216.7	2140.3	2117.4
7.5°	2343.3	2555.5	2690.8	2710.5	2625.9	2463.6	2267.9	2058.0	1974.8	1939.6
10°	2258.7	2517.5	2710.9	2742.0	2629.1	2400.5	2151.7	1917.6	1814.3	1787.3
12.5°	2186.5	2448.0	2619.9	2662.9	2577.4	2349.3	2082.2	1827.6	1716.9	1691.8
15°	2154.9	2365.7	2470.9	2492.8	2478.7	2317.3	2074.9	1813.8	1687.2	1659.8
17.5°	2186.5	2295.8	2309.0	2331.4	2363.0	2314.0	2145.3	1888.4	1751.7	1717.8
20°	2269.2	2234.9	2180.1	2189.7	2261.9	2327.3	2270.6	2053.4	1887.0	1850.9
22.5°	2410.1	2219.9	2095.5	2087.3	2178.7	2371.7	2454.4	2277.0	2084.1	2048.4
25°	2582.9	2257.8	2064.4	2046.6	2146.2	2436.6	2654.2	2550.9	2340.1	2285.7
27.5°	2771.3	2336.5	2064.4	2047.0	2143.5	2494.2	2825.2	2793.2	2605.3	2545.9
30°	2874.6	2401.4	2094.1	2074.5	2177.3	2527.6	2916.7	3008.6	2804.7	2731.0
32.5°	2967.0	2491.5	2152.2	2115.2	2248.2	2577.0	2998.5	3191.5	2963.3	2913.9
35°	3052.0	2587.9	2232.2	2189.2	2341.5	2644.6	3089.1	3383.5	3184.2	3109.6
37.5°	3145.8	2700.0	2357.0	2320.5	2497.4	2776.3	3196.5	3635.9	3401.3	3307.6
40°	3247.7	2829.8	2562.3	2546.8	2745.2	2925.4	3332.3	3905.2	3649.2	3542.6
42.5°	3351.5	2979.3	2813.8	2839.4	3026.0	3134.3	3471.8	4112.3	3852.2	3734.7
45°	3445.7	3170.4	3140.7	3267.4	3353.3	3338.2	3575.1	4258.2	4029.1	3916.6
47.5°	3564.6	3448.9	3536.2	3731.5	3733.8	3560.0	3653.3	4377.5	4181.4	4068.9
50°	3697.6	3777.6	4047.0	4245.9	4192.4	3778.1	3744.7	4518.8	4338.7	4248.6
52.5°	3851.7	4145.7	4518.8	4739.7	4614.8	4015.9	3897.0	4671.5	4588.3	4501.9
55°	4031.0	4396.7	4989.3	5165.3	5039.6	4311.2	4128.3	4878.7	4870.4	4811.4
57.5°	4233.5	4661.9	5261.8	5500.0	5388.0	4657.8	4451.6	5073.9	5042.8	5009.9
59°	4393.5	4798.2	5382.1	5629.0	5561.3	4900.6	4668.8	5195.5	5082.6	5033.2
60°	4490.5	4890.6	5426.4	5646.4	5630.8	5045.1	4806.4	5255.0	5082.1	5013.5
62.5°	4778.1	5052.0	5409.5	5569.1	5629.9	5322.2	5210.2	5320.3	4987.9	4887.3
65°	4880.5	4998.5	5129.2	5109.6	5161.7	5308.0	5468.0	5248.6	4786.8	4643.6
67.5°	4681.1	4411.8	4458.0	4326.8	4301.2	4719.1	5363.3	4897.4	4393.1	4218.0
70°	3945.9	3379.9	3356.5	3416.9	3251.4	3820.6	4816.0	4221.2	3743.4	3544.9
72.5°	3106.0	2388.6	2192.0	2414.2	2409.2	2914.9	4000.8	2995.3	2528.9	2512.0
75°	2442.5	1663.0	1459.5	1495.6	1565.1	2110.1	3186.4	1902.1	1557.3	1419.2
77.5°	1639.6	1178.3	1099.2	1054.8	1129.8	1354.8	2015.9	1031.5	873.3	827.1
80°	945.1	855.9	972.1	882.5	922.7	853.7	1002.7	473.2	392.8	425.2
82.5°	615.0	487.4	519.4	385.9	527.6	532.2	321.9	139.9	118.4	125.7
85°	384.5	228.6	128.5	91.4	182.0	334.7	100.6	8.7	10.1	8.7
87.5°	99.7	38.0	16.0	23.8	29.3	26.1	23.3	1.4	0.5	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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