

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: P451538

Luminaire Tested: **GALN-SA2B-830-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451538
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-SA2B-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA 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: 6530 lumens
Efficiency: N/A
Efficacy: 79.6 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): 82
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



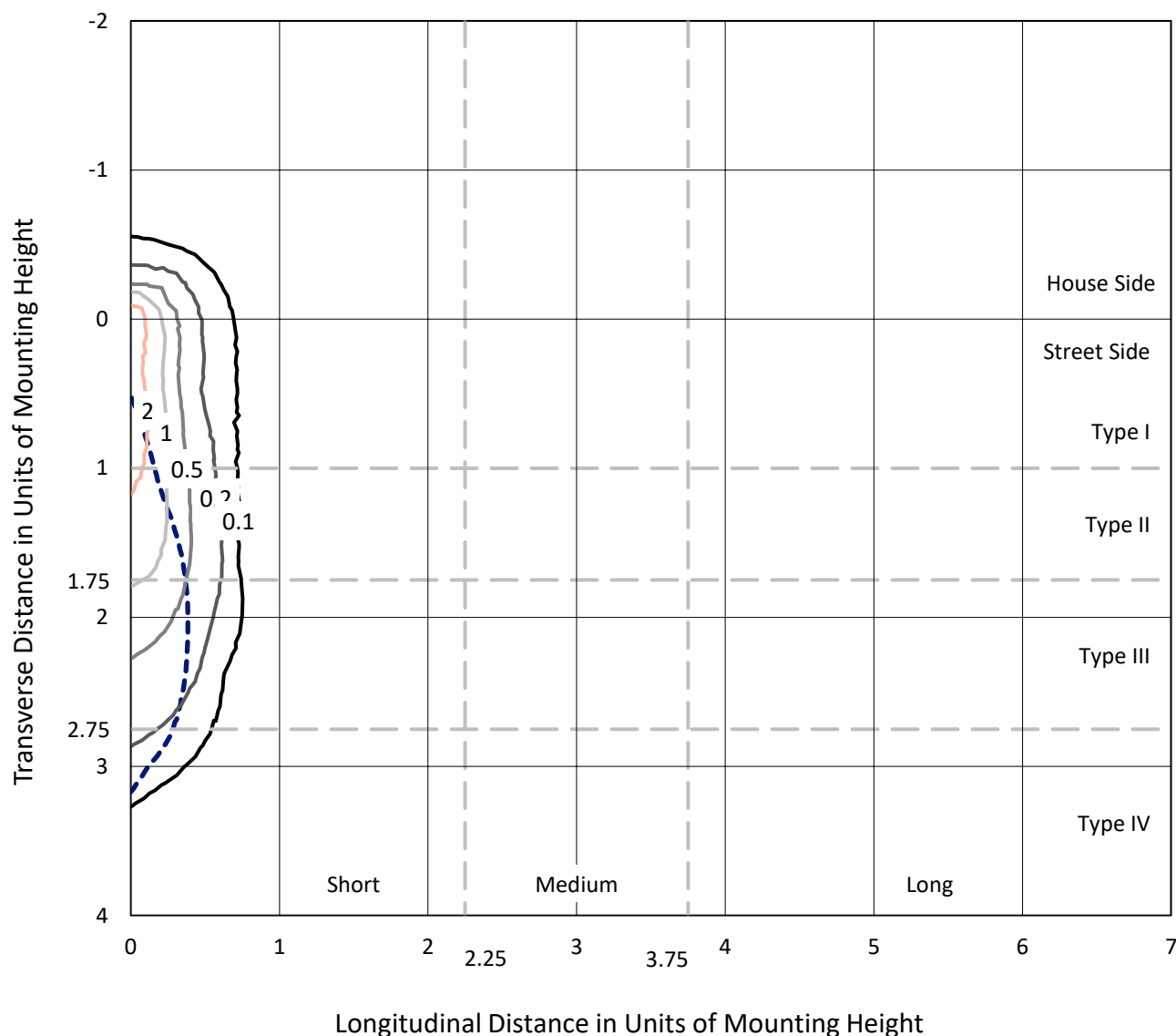
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

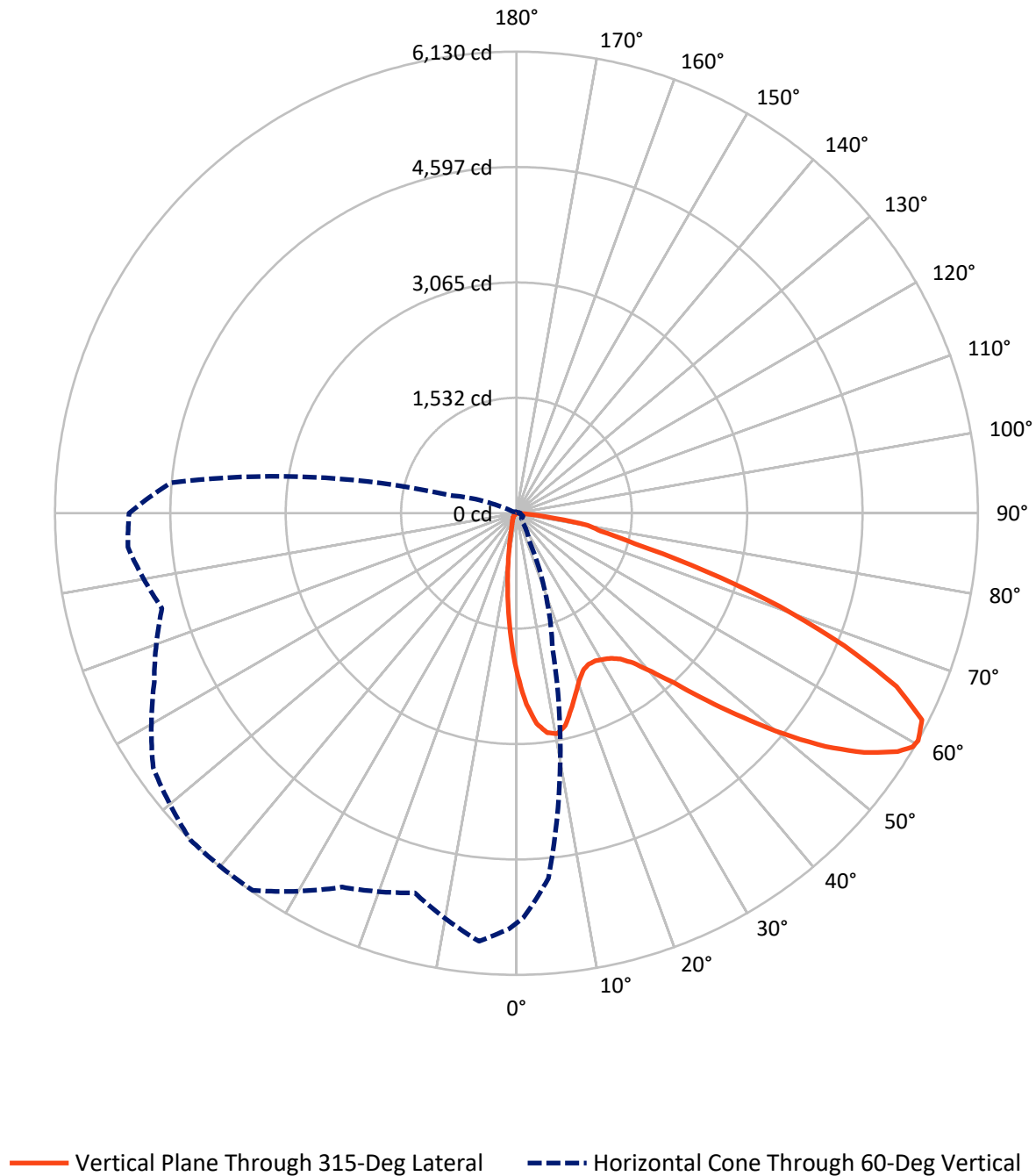


Based on 25 foot mounting height. Maximum calculated value = 3.5 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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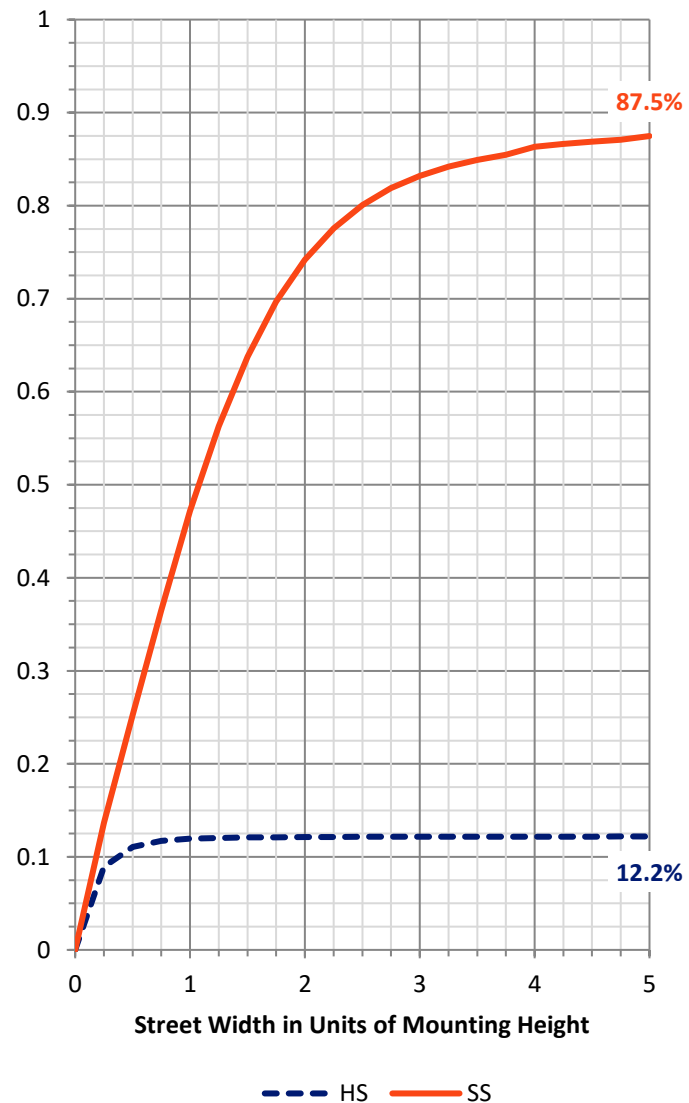
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	805.4	0.0	805.4
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	5724.6	0.0	5724.6
	% Fixture	87.7	0.0	87.7
Total	Lumens	6530.0	0.0	6530.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.5	2.5
10°-20°	318.8	4.9
20°-30°	467.5	7.2
30°-40°	695.2	10.6
40°-50°	1011.7	15.5
50°-60°	1459.0	22.3
60°-70°	1604.7	24.6
70°-80°	718.8	11.0
80°-90°	93.9	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°	6530.0	100.0
0°-180°	6530.0	100.0

Coefficient of Utilization



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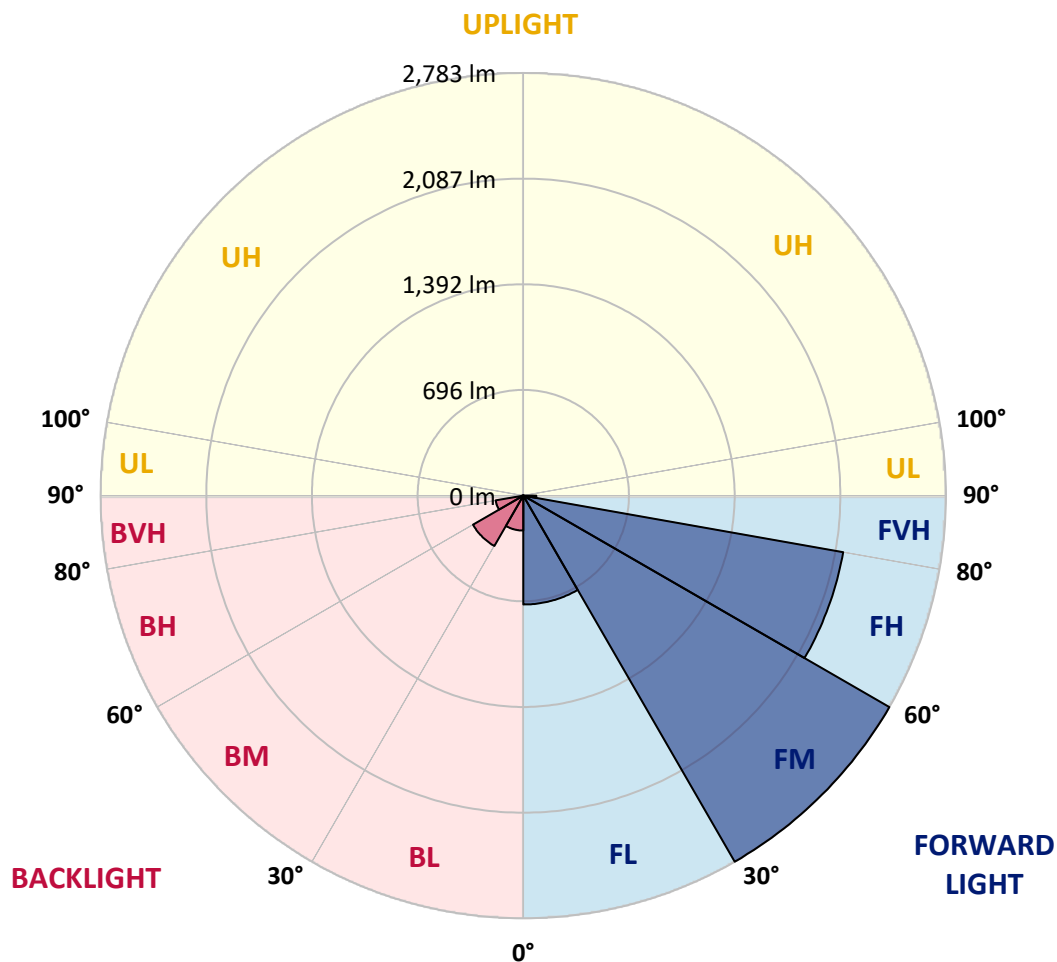
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	716.6	11.0			
FM	(30°-60°)	2783.3	42.6			
FH	(60°-80°)	2138.8	32.8			G2/5000
FVH	(80°-90°)	85.9	1.3			G1/100
BL	(0°-30°)	230.1	3.5	B1/500		
BM	(30°-60°)	382.5	5.9	B1/1000		
BH	(60°-80°)	184.7	2.8	B1/500		G1/500
BVH	(80°-90°)	8.0	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3
2.5°	2372.7	2362.3	2338.4	2266.0	2202.9	2120.5	2037.1	1971.6	1931.4	1857.5	1823.7
5°	2298.7	2303.7	2234.7	2085.8	1920.0	1806.8	1683.2	1584.9	1476.7	1408.2	1336.3
7.5°	2105.6	2095.7	2020.8	1813.3	1611.7	1447.9	1291.6	1164.5	1084.6	1020.6	966.9
10°	1940.3	1932.9	1837.1	1570.0	1353.6	1231.0	1125.3	1014.1	928.2	834.4	759.5
12.5°	1836.6	1819.7	1709.5	1430.6	1254.4	1140.2	1025.0	909.4	790.7	695.9	605.1
15°	1801.9	1777.5	1654.9	1382.4	1190.8	1045.9	901.4	768.4	631.9	527.2	458.7
17.5°	1864.9	1824.7	1694.1	1374.0	1114.9	922.8	745.1	571.8	429.9	349.9	307.8
20°	2009.3	1963.2	1793.4	1365.5	1030.5	784.8	566.4	404.1	297.3	253.6	230.3
22.5°	2223.8	2160.2	1940.3	1378.9	952.6	650.3	409.0	285.4	236.3	209.0	192.6
25°	2481.4	2428.3	2126.5	1426.6	891.0	544.5	316.2	233.3	199.0	182.2	169.8
27.5°	2763.8	2679.0	2367.2	1483.7	834.9	462.6	277.5	208.5	177.2	161.8	155.4
30°	2964.9	2898.9	2568.8	1523.4	764.9	401.1	253.6	205.5	177.7	159.3	147.4
32.5°	3163.4	3079.0	2737.5	1541.8	713.8	358.4	219.4	179.2	155.9	146.4	134.5
35°	3375.9	3287.5	2905.8	1531.8	675.6	330.1	199.0	159.8	133.5	117.6	105.7
37.5°	3590.8	3497.5	3073.1	1496.1	651.7	318.7	183.2	151.9	126.1	109.7	96.8
40°	3845.9	3721.4	3229.9	1466.8	626.9	312.7	172.7	146.9	120.6	103.2	90.3
42.5°	4054.4	3935.8	3378.4	1451.4	610.1	298.8	172.7	143.0	117.1	97.8	84.4
45°	4252.0	4128.9	3538.7	1463.8	603.1	281.4	174.7	142.5	114.7	93.8	80.4
47.5°	4417.3	4310.6	3703.5	1510.5	594.2	262.6	164.3	149.4	113.2	90.3	76.4
50°	4612.4	4509.1	3921.4	1604.8	578.3	243.7	151.4	160.8	112.7	87.4	73.0
52.5°	4887.4	4775.7	4222.2	1712.0	553.0	214.9	139.5	159.3	110.7	82.4	69.5
55°	5223.4	5133.1	4570.7	1840.6	518.2	182.7	120.6	141.5	104.7	74.0	63.5
57.5°	5438.8	5361.9	4831.8	1896.2	465.1	149.4	106.2	118.6	95.8	66.0	56.6
59°	5464.1	5394.7	4886.4	1877.8	430.4	136.5	99.3	101.8	93.3	61.6	52.6
60°	5442.8	5370.8	4864.5	1842.1	398.1	127.6	93.3	90.3	93.8	59.1	49.6
62.5°	5305.8	5182.7	4652.6	1660.9	348.0	117.1	82.9	74.0	82.9	53.1	44.2
65°	5041.2	4856.6	4233.1	1405.7	328.1	111.2	70.5	62.0	63.0	46.7	38.2
67.5°	4579.1	4346.3	3674.7	1142.2	319.7	111.7	59.6	55.6	48.6	39.7	33.8
70°	3848.4	3616.1	2948.5	939.6	315.7	111.7	50.6	47.7	40.7	33.3	29.3
72.5°	2727.1	2476.9	1989.0	738.1	284.4	111.2	43.2	43.2	33.3	27.8	23.8
75°	1540.8	1542.7	1250.4	522.2	236.3	91.8	34.7	34.3	24.3	21.3	17.9
77.5°	898.0	882.1	842.9	224.4	109.7	41.7	24.3	20.8	16.9	15.4	12.9
80°	461.6	379.7	369.8	81.4	39.2	26.3	16.9	11.9	10.9	9.9	8.9
82.5°	136.5	137.0	122.1	32.8	21.8	17.4	8.4	6.5	6.0	5.5	5.5
85°	9.4	6.0	6.9	9.9	13.4	6.9	0.5	1.5	1.5	2.0	2.5
87.5°	1.0	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°	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3
2.5°	1786.5	1808.3	1767.6	1768.6	1734.8	1745.8	1706.1	1719.0	1695.6	1713.5	1766.1
5°	1344.2	1349.2	1316.4	1306.0	1310.9	1331.3	1339.2	1303.0	1318.4	1288.1	1286.1
7.5°	947.1	953.0	934.2	931.7	967.4	959.0	974.4	937.2	901.9	917.3	889.0
10°	735.6	710.8	672.1	661.2	654.2	658.7	658.7	624.9	620.0	606.6	626.9
12.5°	580.8	550.5	513.8	464.1	451.7	450.7	432.3	402.6	393.1	381.7	398.6
15°	421.9	409.5	378.7	350.9	322.6	317.2	287.4	263.1	230.8	226.3	224.9
17.5°	296.8	278.5	278.0	262.1	245.7	234.8	207.0	179.2	166.8	165.3	165.3
20°	222.4	215.9	205.5	203.5	198.6	186.1	161.3	146.4	140.5	141.0	143.0
22.5°	187.1	182.7	173.2	168.8	166.8	155.9	137.5	127.6	124.6	124.6	125.1
25°	167.3	163.3	152.9	145.9	143.5	135.5	121.1	113.7	111.2	111.2	111.2
27.5°	152.4	147.4	136.5	130.5	126.1	117.1	108.2	100.8	98.3	98.3	98.8
30°	142.0	136.5	126.6	118.6	111.7	103.7	96.3	89.8	86.9	86.4	86.9
32.5°	128.1	123.1	113.2	108.2	100.3	90.8	84.9	78.9	75.9	76.4	75.9
35°	99.8	98.3	91.3	92.8	88.4	80.4	75.0	68.5	65.0	64.5	65.5
37.5°	90.8	84.9	76.9	77.4	75.9	73.0	64.0	57.1	54.6	54.6	55.1
40°	83.9	77.9	69.0	64.5	65.0	65.0	55.6	48.1	45.7	45.2	46.2
42.5°	77.9	72.0	62.0	54.6	52.6	55.1	47.2	39.7	37.2	36.2	37.2
45°	74.0	67.5	56.1	47.7	41.7	44.7	38.7	32.8	29.8	29.8	29.3
47.5°	70.0	64.0	51.6	41.2	34.7	33.3	31.8	26.3	23.3	22.8	23.3
50°	66.5	60.6	46.7	35.7	29.3	25.8	25.8	20.8	18.9	17.9	18.4
52.5°	63.0	56.6	42.2	31.8	25.3	20.8	18.4	16.9	15.4	14.9	15.4
55°	58.1	51.6	37.7	27.3	21.8	17.4	14.4	13.9	12.9	11.9	12.9
57.5°	52.1	46.2	33.3	23.3	17.4	13.4	11.9	11.4	10.4	9.9	9.9
59°	48.6	43.2	30.8	20.4	15.4	11.9	10.9	10.4	9.4	8.4	8.9
60°	46.7	42.2	29.3	18.9	13.9	10.9	9.9	9.4	8.4	7.9	8.4
62.5°	41.2	37.7	25.8	15.4	10.9	7.9	6.9	7.4	6.9	6.5	6.9
65°	36.2	33.3	21.8	11.9	8.4	5.5	5.0	6.5	6.0	5.5	6.0
67.5°	32.3	28.8	18.4	8.9	6.0	3.0	3.5	5.5	5.5	5.0	5.5
70°	27.8	24.8	14.9	6.5	3.0	1.5	2.5	4.0	5.0	4.5	5.0
72.5°	22.8	19.4	11.4	4.5	1.5	0.0	1.5	3.5	5.0	4.5	5.0
75°	17.9	14.4	8.4	2.5	0.0	0.0	0.5	3.0	5.0	4.5	5.0
77.5°	12.9	10.4	5.0	0.5	0.0	0.0	0.5	3.0	5.0	4.5	5.0
80°	8.4	7.4	2.0	0.0	0.0	0.0	0.5	3.0	5.0	5.0	5.5
82.5°	5.5	4.0	0.0	0.0	0.0	0.0	1.0	4.0	5.5	6.0	6.0
85°	2.5	0.0	0.0	0.0	0.0	0.0	2.0	5.0	6.5	6.5	6.5
87.5°	0.0	0.0	0.0	0.0	0.0	1.0	3.5	6.0	7.4	7.4	7.4
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3
2.5°	1775.1	1806.3	1850.5	1918.5	1973.6	2060.5	2127.0	2217.8	2309.7	2337.5	2380.6
5°	1306.5	1346.7	1446.9	1538.3	1595.9	1779.5	1895.7	2078.8	2243.1	2322.1	2407.9
7.5°	907.4	955.0	1031.5	1159.0	1280.2	1429.6	1617.2	1826.7	2067.4	2180.1	2301.2
10°	636.9	696.4	804.1	908.9	1061.3	1203.2	1388.4	1619.7	1885.2	2018.3	2170.2
12.5°	402.1	455.2	597.6	715.3	905.4	1070.2	1240.9	1450.4	1758.2	1894.7	2054.0
15°	229.8	274.5	341.0	491.9	702.9	920.8	1133.7	1377.0	1693.2	1861.4	2033.7
17.5°	171.3	183.2	212.9	298.3	490.4	745.1	1035.0	1354.6	1737.3	1934.9	2131.5
20°	144.0	151.9	165.8	199.5	312.7	573.8	938.7	1358.6	1880.3	2128.5	2315.1
22.5°	129.1	134.0	145.4	167.3	213.4	418.0	826.0	1381.9	2053.5	2366.2	2581.7
25°	113.2	119.6	129.6	148.4	177.7	289.9	714.8	1434.0	2296.3	2668.0	2870.6
27.5°	100.8	106.7	116.6	134.0	155.9	221.4	585.2	1478.7	2552.4	2971.8	3137.6
30°	88.4	94.3	104.2	118.1	138.0	179.2	445.7	1505.0	2801.1	3199.7	3327.2
32.5°	77.9	82.9	92.3	104.7	121.1	151.9	351.4	1477.7	2991.2	3406.7	3492.0
35°	67.5	73.5	81.4	92.8	107.2	129.6	292.4	1383.4	3154.5	3619.6	3650.4
37.5°	56.6	63.5	72.0	82.4	93.8	119.1	234.8	1279.2	3329.2	3885.2	3834.5
40°	47.7	54.1	62.0	73.5	83.9	109.2	180.7	1168.0	3517.8	4134.3	4035.6
42.5°	38.7	45.7	55.1	65.5	82.9	95.3	140.0	1052.8	3687.1	4351.3	4217.2
45°	30.8	36.7	46.7	60.1	82.4	81.9	108.2	939.2	3814.7	4506.1	4352.8
47.5°	24.3	29.3	39.2	58.6	75.9	69.5	86.9	868.7	3948.7	4645.6	4456.5
50°	19.4	24.3	33.8	61.1	66.5	59.6	73.0	880.1	4078.3	4716.6	4499.2
52.5°	16.4	21.3	29.3	48.1	51.1	52.1	64.0	932.7	4245.5	4792.5	4584.1
55°	14.4	18.9	24.8	33.8	39.7	46.7	58.6	970.9	4469.4	4955.4	4771.2
57.5°	11.4	16.4	22.3	28.8	32.8	40.7	54.1	973.9	4671.9	5164.3	5019.9
59°	10.4	14.9	20.8	27.3	29.3	36.7	51.1	948.6	4679.4	5195.6	5134.1
60°	9.4	14.4	19.9	25.3	27.8	34.7	48.6	919.3	4611.9	5146.0	5181.2
62.5°	7.9	12.4	17.4	20.4	23.8	28.8	42.2	813.1	4284.7	4921.1	5093.8
65°	6.9	10.9	14.9	16.9	19.9	24.8	37.2	650.8	3923.4	4616.3	4843.7
67.5°	6.5	9.9	12.9	14.4	17.4	22.8	33.3	459.6	3455.3	4229.7	4467.9
70°	6.0	9.4	11.4	13.4	15.4	19.4	28.3	268.0	2661.6	3551.6	3803.3
72.5°	6.0	8.9	9.9	11.4	13.4	17.4	26.3	144.9	1819.7	2709.2	3034.4
75°	6.0	8.4	8.9	9.9	11.9	15.9	23.3	75.9	1176.4	1882.3	2323.1
77.5°	6.0	7.9	8.9	9.4	11.4	13.9	20.4	47.7	783.8	1318.4	1570.0
80°	6.5	7.9	8.4	9.4	10.9	12.9	16.9	31.8	460.6	793.2	955.5
82.5°	6.9	7.9	8.9	9.9	11.4	12.4	14.9	19.9	212.5	524.7	593.7
85°	7.4	8.4	9.4	10.4	11.9	12.4	13.9	14.4	34.7	236.8	320.2
87.5°	7.9	8.9	9.9	10.9	12.9	12.9	12.9	12.9	11.9	25.3	64.5
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°	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3
2.5°	2435.2	2491.3	2530.5	2540.5	2512.2	2499.3	2463.5	2407.9	2374.2	2372.7
5°	2566.3	2697.8	2789.2	2804.5	2749.9	2657.6	2547.9	2406.4	2323.6	2298.7
7.5°	2543.9	2774.3	2921.2	2942.5	2850.7	2674.5	2462.0	2234.2	2143.9	2105.6
10°	2452.1	2733.1	2943.0	2976.8	2854.2	2606.0	2336.0	2081.8	1969.6	1940.3
12.5°	2373.7	2657.6	2844.3	2890.9	2798.1	2550.4	2260.5	1984.0	1863.9	1836.6
15°	2339.4	2568.3	2682.4	2706.3	2690.9	2515.7	2252.6	1969.1	1831.6	1801.9
17.5°	2373.7	2492.3	2506.7	2531.0	2565.3	2512.2	2329.0	2050.0	1901.6	1864.9
20°	2463.5	2426.3	2366.7	2377.2	2455.6	2526.6	2465.0	2229.2	2048.6	2009.3
22.5°	2616.4	2409.9	2274.9	2266.0	2365.2	2574.7	2664.6	2472.0	2262.5	2223.8
25°	2804.0	2451.1	2241.2	2221.8	2330.0	2645.2	2881.5	2769.3	2540.5	2481.4
27.5°	3008.6	2536.5	2241.2	2222.3	2327.0	2707.8	3067.1	3032.4	2828.4	2763.8
30°	3120.7	2607.0	2273.4	2252.1	2363.8	2744.0	3166.4	3266.2	3044.8	2964.9
32.5°	3221.0	2704.8	2336.5	2296.3	2440.7	2797.6	3255.3	3464.7	3217.0	3163.4
35°	3313.3	2809.5	2423.3	2376.7	2542.0	2871.1	3353.5	3673.2	3456.8	3375.9
37.5°	3415.1	2931.1	2558.8	2519.1	2711.2	3014.0	3470.2	3947.2	3692.6	3590.8
40°	3525.8	3072.1	2781.7	2764.8	2980.3	3175.8	3617.6	4239.6	3961.6	3845.9
42.5°	3638.5	3234.4	3054.7	3082.5	3285.0	3402.7	3769.0	4464.4	4182.0	4054.4
45°	3740.7	3441.9	3409.6	3547.1	3640.4	3624.1	3881.2	4622.8	4374.1	4252.0
47.5°	3869.8	3744.2	3839.0	4051.0	4053.4	3864.8	3966.1	4752.3	4539.4	4417.3
50°	4014.2	4101.1	4393.5	4609.4	4551.3	4101.6	4065.3	4905.7	4710.1	4612.4
52.5°	4181.5	4500.7	4905.7	5145.5	5010.0	4359.7	4230.6	5071.5	4981.2	4887.4
55°	4376.1	4773.2	5416.5	5607.6	5471.1	4680.4	4481.8	5296.4	5287.4	5223.4
57.5°	4596.0	5061.1	5712.3	5970.9	5849.3	5056.6	4832.8	5508.3	5474.6	5438.8
59°	4769.7	5209.0	5842.9	6110.9	6037.5	5320.2	5068.5	5640.4	5517.8	5464.1
60°	4874.9	5309.3	5891.0	6129.8	6112.9	5477.1	5217.9	5704.9	5517.3	5442.8
62.5°	5187.2	5484.5	5872.7	6045.9	6111.9	5777.9	5656.2	5775.9	5415.0	5305.8
65°	5298.4	5426.4	5568.4	5547.0	5603.6	5762.5	5936.2	5697.9	5196.6	5041.2
67.5°	5081.9	4789.6	4839.7	4697.2	4669.4	5123.1	5822.5	5316.7	4769.2	4579.1
70°	4283.8	3669.2	3643.9	3709.4	3529.8	4147.7	5228.4	4582.6	4063.9	3848.4
72.5°	3371.9	2593.1	2379.6	2620.9	2615.4	3164.4	4343.3	3251.8	2745.5	2727.1
75°	2651.7	1805.3	1584.4	1623.7	1699.1	2290.8	3459.3	2064.9	1690.7	1540.8
77.5°	1780.0	1279.2	1193.3	1145.1	1226.6	1470.8	2188.5	1119.8	948.1	898.0
80°	1026.0	929.2	1055.3	958.0	1001.7	926.7	1088.6	513.8	426.4	461.6
82.5°	667.6	529.1	563.9	418.9	572.8	577.8	349.5	151.9	128.6	136.5
85°	417.5	248.2	139.5	99.3	197.6	363.3	109.2	9.4	10.9	9.4
87.5°	108.2	41.2	17.4	25.8	31.8	28.3	25.3	1.5	0.5	1.0
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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