

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: P527405

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527405
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-830-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5027 lumens
Efficiency: N/A
Efficacy: 61.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

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



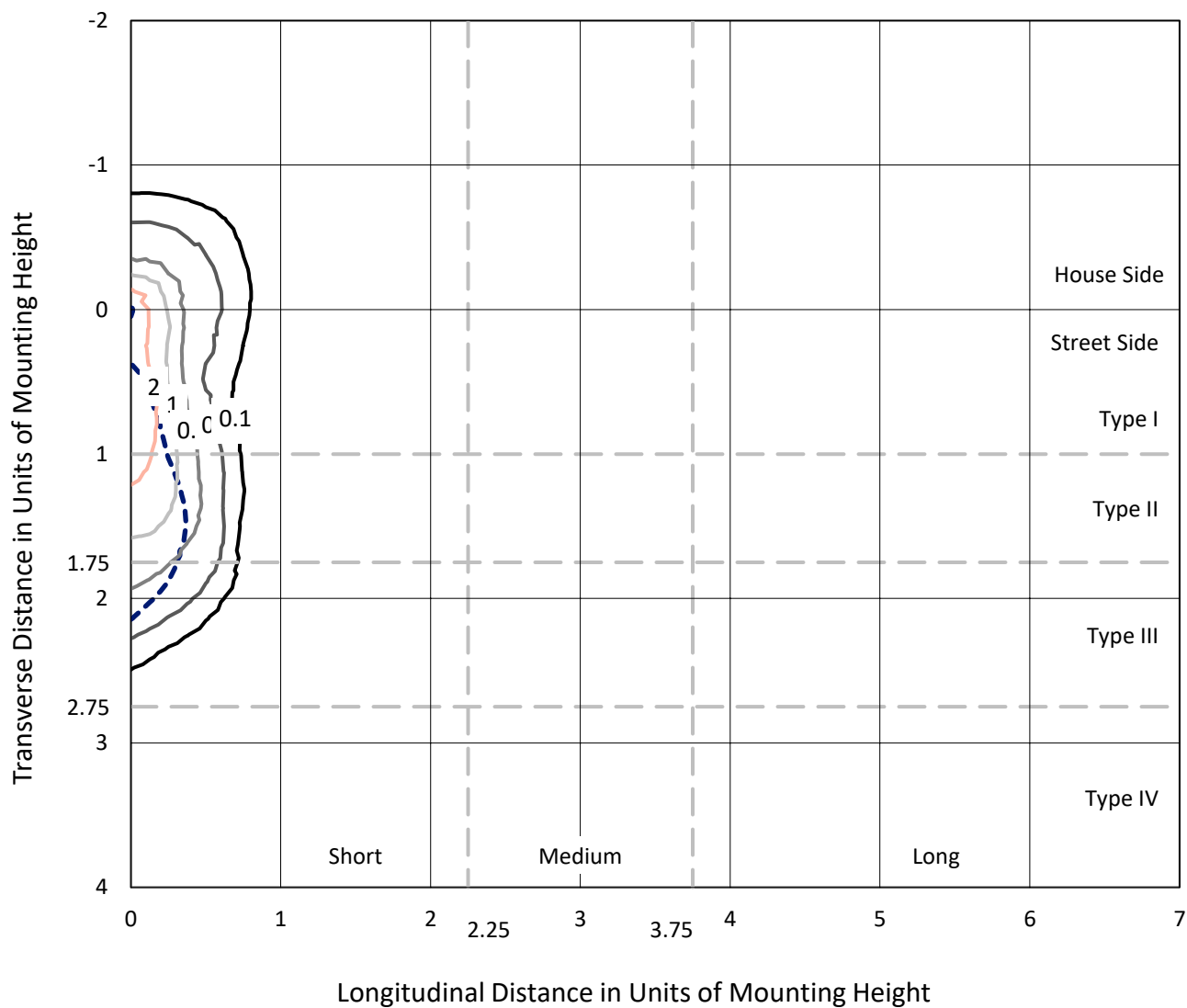
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



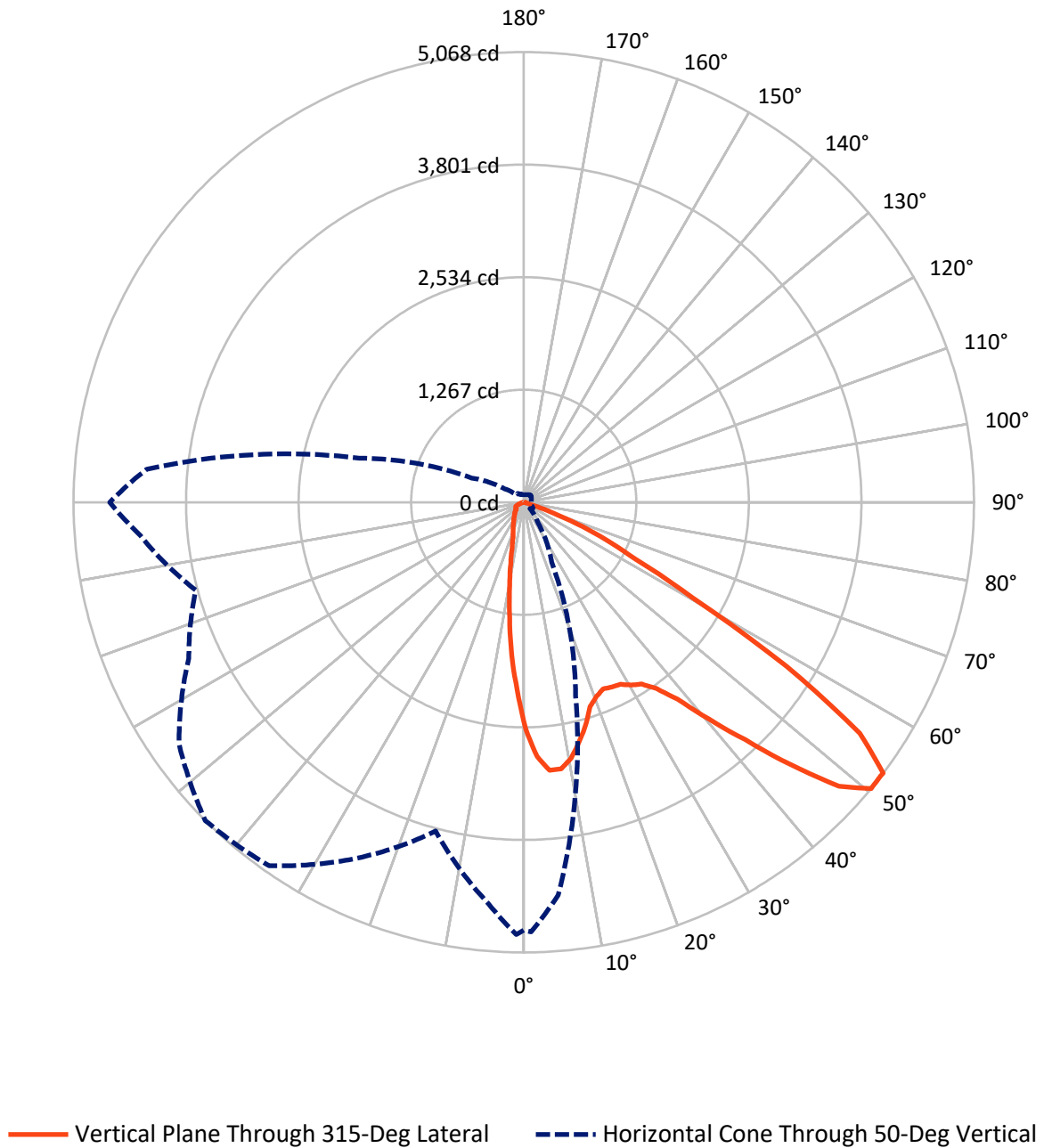
Based on 25 foot mounting height. Maximum calculated value = 4.1 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1006.9	0.0	1006.9
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	4020.1	0.0	4020.1
	% Fixture	80.0	0.0	80.0
Total	Lumens	5027.0	0.0	5027.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.8	3.7
10°-20°	369.3	7.3
20°-30°	554.8	11.0
30°-40°	832.8	16.6
40°-50°	1170.4	23.3
50°-60°	1262.5	25.1
60°-70°	586.2	11.7
70°-80°	55.2	1.1
80°-90°	10.2	0.2
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°	5027.0	100.0
0°-180°	5027.0	100.0

Coefficient of Utilization



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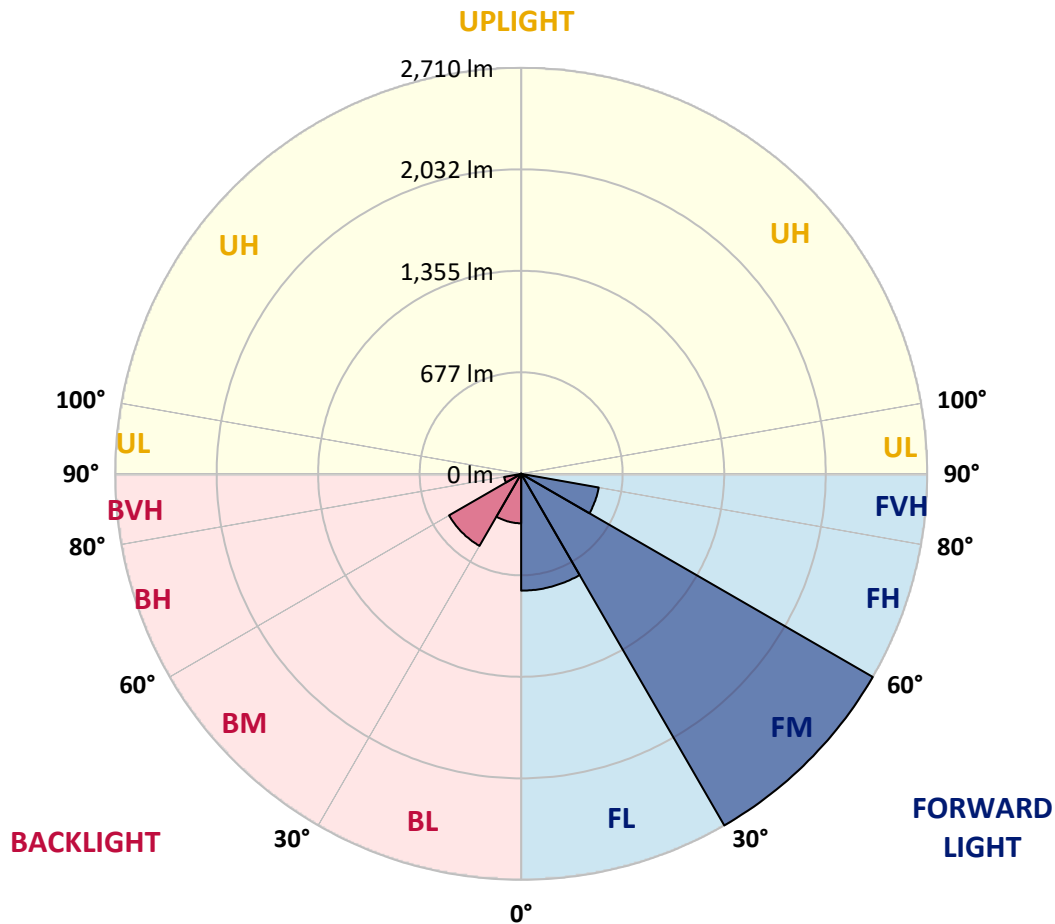
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	779.9	15.5			
FM	(30°-60°)	2709.9	53.9			
FH	(60°-80°)	525.7	10.5			G0/660
FVH	(80°-90°)	4.6	0.1			G0/10
BL	(0°-30°)	330.0	6.6	B1/500		
BM	(30°-60°)	555.7	11.1	B1/1000		
BH	(60°-80°)	115.6	2.3	B1/500		G1/500
BVH	(80°-90°)	5.6	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2549.3	2549.3	2549.3	2549.3	2549.3	2549.3	2549.3	2549.3	2549.3	2549.3	2549.3
2.5°	2650.1	2609.2	2557.3	2514.4	2450.6	2321.9	2287.0	2245.1	2210.2	2163.3	2097.5
5°	2409.7	2396.7	2372.8	2211.2	2094.5	1938.9	1811.3	1757.4	1686.6	1628.7	1586.8
7.5°	2226.2	2174.3	2098.5	1935.9	1749.4	1582.9	1441.2	1358.4	1264.7	1232.8	1175.9
10°	2029.7	2041.7	1929.9	1701.5	1476.1	1341.5	1253.7	1173.9	1089.1	1033.3	952.5
12.5°	1966.8	1928.0	1842.2	1559.9	1367.4	1241.7	1135.0	1036.3	946.5	856.8	779.0
15°	2007.7	1947.9	1828.2	1530.0	1283.6	1127.0	993.4	859.7	777.0	662.3	581.5
17.5°	2154.4	2106.5	1945.9	1561.9	1240.8	1017.3	818.9	681.2	554.5	450.8	409.9
20°	2398.7	2330.9	2129.4	1602.8	1176.9	884.7	664.3	494.7	375.0	331.1	308.2
22.5°	2638.1	2601.2	2346.9	1681.6	1120.1	767.0	498.7	333.1	280.3	272.3	257.3
25°	3093.9	2983.2	2679.0	1824.2	1076.2	656.3	376.0	268.3	237.4	231.4	233.4
27.5°	3365.2	3272.4	2986.2	1919.0	1027.3	571.5	318.2	246.4	225.4	212.4	207.5
30°	3625.5	3517.8	3138.8	1974.8	922.6	481.7	282.3	236.4	231.4	212.4	206.5
32.5°	3826.0	3720.3	3359.2	2058.6	879.7	423.9	232.4	184.5	171.6	169.6	187.5
35°	4133.2	4020.5	3547.7	2104.5	846.8	394.0	201.5	164.6	149.6	143.6	144.6
37.5°	4419.4	4342.6	3722.3	2122.4	811.9	385.0	180.5	147.6	134.6	130.7	129.7
40°	4658.8	4487.2	3887.8	2141.4	796.9	368.0	167.6	134.6	125.7	119.7	119.7
42.5°	4768.5	4594.0	4073.3	2130.4	792.9	341.1	167.6	123.7	116.7	110.7	109.7
45°	4744.6	4673.8	4156.1	2125.4	792.9	314.2	152.6	120.7	110.7	102.7	100.7
47.5°	4806.4	4713.7	4259.8	2146.4	777.0	295.2	128.7	126.7	104.7	94.8	92.8
50°	4817.4	4835.3	4440.4	2255.1	742.1	271.3	100.7	124.7	100.7	85.8	83.8
52°	4889.2	4777.5	4495.2	2312.9	705.2	253.3	84.8	106.7	96.7	79.8	77.8
52.5°	4790.5	4863.3	4508.2	2333.9	709.1	241.4	81.8	104.7	94.8	79.8	74.8
55°	4679.7	4749.6	4455.3	2378.8	650.3	189.5	63.8	75.8	85.8	69.8	66.8
57.5°	4067.3	4138.2	3871.9	2178.3	529.6	133.6	52.9	56.9	75.8	64.8	61.8
60°	3615.5	3564.7	3249.5	1817.2	376.0	74.8	41.9	43.9	82.8	59.8	58.8
62.5°	3304.3	3195.6	2715.9	1403.3	229.4	49.9	32.9	33.9	63.8	55.9	55.9
65°	2444.6	2322.9	1804.3	848.8	112.7	34.9	24.9	26.9	39.9	47.9	47.9
67.5°	1395.3	1348.5	871.7	383.0	46.9	21.9	19.0	20.9	30.9	38.9	36.9
70°	641.3	575.5	335.1	80.8	21.9	15.0	15.0	17.0	24.9	28.9	26.9
72.5°	187.5	177.5	81.8	13.0	9.0	9.0	10.0	13.0	19.0	21.9	19.9
75°	14.0	9.0	6.0	4.0	4.0	6.0	8.0	13.0	19.0	20.9	17.0
77.5°	1.0	2.0	1.0	1.0	3.0	6.0	9.0	16.0	24.9	25.9	19.0
80°	1.0	1.0	0.0	1.0	3.0	6.0	10.0	18.0	27.9	29.9	16.0
82.5°	0.0	0.0	0.0	1.0	4.0	8.0	12.0	19.0	25.9	31.9	17.0
85°	0.0	0.0	0.0	1.0	6.0	11.0	14.0	5.0	3.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2549.3	2549.3	2549.3	2549.3	2549.3	2549.3	2549.3	2549.3	2549.3	2549.3	2549.3
2.5°	2144.4	2118.5	2108.5	2117.5	2114.5	2111.5	2166.3	2154.4	2152.4	2170.3	2166.3
5°	1609.8	1563.9	1689.6	1638.7	1691.6	1723.5	1729.5	1732.5	1769.4	1730.5	1781.3
7.5°	1147.0	1159.0	1158.0	1191.9	1252.7	1306.6	1338.5	1313.6	1311.6	1306.6	1284.6
10°	916.6	895.7	891.7	883.7	902.6	948.5	987.4	956.5	934.6	964.5	955.5
12.5°	749.0	720.1	704.2	672.2	673.2	704.2	704.2	704.2	726.1	743.1	756.0
15°	574.5	550.6	550.6	518.6	511.7	512.7	528.6	530.6	565.5	575.5	580.5
17.5°	401.9	389.0	403.9	416.9	408.9	410.9	416.9	418.9	423.9	419.9	429.9
20°	309.2	307.2	311.2	334.1	351.1	361.1	354.1	344.1	338.1	324.2	324.2
22.5°	262.3	266.3	273.3	292.2	314.2	320.2	312.2	289.2	271.3	269.3	270.3
25°	233.4	237.4	248.3	260.3	272.3	282.3	274.3	257.3	247.4	238.4	238.4
27.5°	215.4	217.4	223.4	232.4	242.4	250.3	247.4	238.4	227.4	223.4	214.4
30°	201.5	204.5	211.4	213.4	222.4	226.4	221.4	219.4	212.4	207.5	204.5
32.5°	194.5	193.5	198.5	200.5	201.5	204.5	198.5	201.5	200.5	192.5	189.5
35°	146.6	154.6	167.6	178.5	181.5	185.5	184.5	180.5	169.6	160.6	149.6
37.5°	131.7	136.6	143.6	152.6	164.6	169.6	167.6	157.6	144.6	138.6	136.6
40°	121.7	124.7	130.7	136.6	148.6	157.6	150.6	141.6	131.7	126.7	123.7
42.5°	112.7	113.7	116.7	122.7	131.7	145.6	133.6	121.7	117.7	114.7	112.7
45°	102.7	102.7	106.7	109.7	119.7	132.7	120.7	109.7	107.7	105.7	104.7
47.5°	94.8	95.7	97.7	101.7	109.7	118.7	110.7	101.7	96.7	95.7	93.8
50°	84.8	85.8	89.8	93.8	103.7	108.7	103.7	93.8	88.8	85.8	85.8
52°	76.8	79.8	83.8	91.8	98.7	106.7	100.7	89.8	83.8	80.8	78.8
52.5°	75.8	77.8	81.8	90.8	98.7	105.7	99.7	88.8	81.8	79.8	77.8
55°	67.8	70.8	77.8	88.8	97.7	105.7	97.7	87.8	77.8	72.8	70.8
57.5°	64.8	66.8	75.8	89.8	96.7	105.7	97.7	87.8	77.8	68.8	66.8
60°	61.8	65.8	75.8	86.8	95.7	106.7	98.7	86.8	75.8	64.8	64.8
62.5°	58.8	61.8	74.8	84.8	91.8	102.7	94.8	84.8	72.8	61.8	60.8
65°	50.9	55.9	65.8	70.8	78.8	88.8	80.8	73.8	63.8	54.9	53.9
67.5°	38.9	40.9	48.9	54.9	59.8	68.8	64.8	55.9	48.9	41.9	41.9
70°	26.9	28.9	34.9	37.9	42.9	47.9	44.9	37.9	32.9	28.9	27.9
72.5°	19.0	19.9	21.9	23.9	25.9	27.9	26.9	21.9	19.0	18.0	17.0
75°	15.0	17.0	18.0	17.0	16.0	15.0	15.0	13.0	11.0	10.0	10.0
77.5°	15.0	16.0	15.0	13.0	11.0	10.0	9.0	8.0	6.0	5.0	6.0
80°	13.0	13.0	13.0	11.0	10.0	9.0	8.0	7.0	6.0	5.0	5.0
82.5°	14.0	14.0	13.0	11.0	11.0	9.0	9.0	8.0	7.0	5.0	5.0
85°	0.0	0.0	0.0	2.0	5.0	9.0	9.0	8.0	7.0	6.0	6.0
87.5°	0.0	0.0	0.0	0.0	1.0	2.0	4.0	5.0	6.0	6.0	6.0
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°	2549.3	2549.3	2549.3	2549.3	2549.3	2549.3	2549.3	2549.3	2549.3	2549.3	2549.3
2.5°	2202.2	2240.1	2311.9	2383.8	2427.6	2479.5	2573.3	2623.1	2688.0	2719.9	2782.7
5°	1774.4	1864.1	1896.0	1977.8	2065.6	2153.4	2293.0	2446.6	2574.3	2662.0	2775.7
7.5°	1294.6	1315.6	1439.2	1494.1	1637.7	1797.3	1987.8	2181.3	2342.9	2486.5	2573.3
10°	970.5	1047.3	1125.1	1229.8	1345.5	1510.0	1692.6	1906.0	2115.5	2259.1	2368.8
12.5°	780.0	840.8	944.5	1057.2	1199.9	1308.6	1492.1	1703.5	1974.8	2115.5	2260.1
15°	590.5	668.2	785.9	902.6	1053.2	1167.9	1353.5	1619.8	1968.8	2162.3	2287.0
17.5°	437.9	490.7	596.4	727.1	880.7	1042.3	1292.6	1610.8	2035.7	2266.1	2394.7
20°	335.1	353.1	419.9	536.6	703.2	914.6	1193.9	1649.7	2233.2	2518.4	2649.1
22.5°	271.3	279.3	305.2	386.0	547.6	802.9	1147.0	1676.6	2455.6	2820.6	2995.2
25°	236.4	234.4	251.3	286.3	427.9	698.2	1087.2	1778.3	2727.9	3175.7	3332.3
27.5°	215.4	215.4	223.4	248.3	355.1	630.3	1049.3	1851.2	3002.1	3487.9	3572.6
30°	204.5	206.5	229.4	237.4	295.2	549.6	986.4	1925.0	3264.4	3687.3	3804.0
32.5°	189.5	181.5	176.5	196.5	248.3	476.8	923.6	1955.9	3476.9	3931.7	4031.4
35°	145.6	141.6	147.6	162.6	213.4	414.9	853.8	1990.8	3721.3	4215.0	4234.9
37.5°	131.7	130.7	134.6	147.6	179.5	361.1	803.9	1981.8	3907.8	4449.3	4395.5
40°	121.7	121.7	124.7	135.6	160.6	323.2	752.0	1973.8	4088.3	4712.7	4555.1
42.5°	113.7	113.7	118.7	125.7	152.6	298.2	713.1	1962.9	4239.9	4874.2	4648.8
45°	102.7	105.7	113.7	120.7	154.6	281.3	684.2	1921.0	4291.8	4872.2	4603.9
47.5°	94.8	98.7	106.7	116.7	139.6	276.3	664.3	1884.1	4273.8	4752.6	4463.3
50°	85.8	90.8	101.7	118.7	118.7	266.3	643.3	1917.0	4260.8	4659.8	4328.7
52°	79.8	83.8	97.7	115.7	103.7	245.4	630.3	1980.8	4313.7	4647.8	4268.8
52.5°	78.8	81.8	94.8	113.7	98.7	241.4	621.4	1995.8	4330.7	4617.9	4309.7
55°	69.8	73.8	86.8	88.8	80.8	198.5	592.4	2029.7	4246.9	4559.1	4270.8
57.5°	65.8	67.8	76.8	72.8	69.8	149.6	509.7	1976.8	3772.1	4049.4	3973.6
60°	60.8	62.8	71.8	56.9	58.8	104.7	383.0	1716.5	3029.1	3374.2	3510.8
62.5°	58.8	57.8	67.8	45.9	49.9	75.8	270.3	1395.3	2333.9	2777.7	3014.1
65°	51.9	50.9	48.9	38.9	42.9	58.8	161.6	910.6	1644.7	2101.5	2231.2
67.5°	39.9	41.9	35.9	30.9	35.9	45.9	89.8	407.9	862.7	1260.7	1365.4
70°	27.9	29.9	28.9	26.9	31.9	37.9	51.9	139.6	357.1	662.3	730.1
72.5°	17.0	20.9	21.9	22.9	27.9	32.9	36.9	44.9	94.8	234.4	291.2
75°	10.0	14.0	17.0	19.9	22.9	27.9	30.9	31.9	32.9	43.9	70.8
77.5°	7.0	10.0	15.0	19.0	22.9	27.9	32.9	34.9	32.9	30.9	32.9
80°	6.0	10.0	14.0	18.0	23.9	28.9	32.9	32.9	31.9	27.9	29.9
82.5°	6.0	10.0	15.0	19.0	22.9	27.9	31.9	32.9	29.9	27.9	28.9
85°	7.0	11.0	16.0	19.9	24.9	22.9	20.9	17.0	16.0	13.0	14.0
87.5°	7.0	10.0	10.0	11.0	12.0	12.0	12.0	11.0	9.0	8.0	8.0
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°	2549.3	2549.3	2549.3	2549.3	2549.3	2549.3	2549.3	2549.3	2549.3	2549.3
2.5°	2785.7	2865.5	2862.5	2864.5	2852.5	2771.7	2732.8	2634.1	2662.0	2650.1
5°	2892.4	2971.2	3039.0	3031.1	2939.3	2829.6	2667.0	2513.4	2471.5	2409.7
7.5°	2785.7	2975.2	3038.0	3029.1	2893.4	2752.8	2493.5	2339.9	2267.1	2226.2
10°	2616.1	2835.6	2913.4	2929.3	2837.6	2624.1	2385.8	2139.4	2100.5	2029.7
12.5°	2519.4	2679.0	2726.9	2769.7	2737.8	2578.2	2304.0	2067.6	2013.7	1966.8
15°	2440.6	2535.4	2555.3	2604.2	2623.1	2537.4	2346.9	2145.4	2012.7	2007.7
17.5°	2513.4	2474.5	2401.7	2416.7	2476.5	2538.4	2457.6	2299.0	2170.3	2154.4
20°	2634.1	2462.5	2298.0	2334.9	2384.8	2574.3	2625.1	2513.4	2439.6	2398.7
22.5°	2772.7	2483.5	2265.1	2283.0	2377.8	2655.0	2896.4	2834.6	2696.9	2638.1
25°	3029.1	2541.3	2291.0	2303.0	2432.6	2767.8	3141.8	3187.7	3105.9	3093.9
27.5°	3279.4	2691.0	2347.9	2320.9	2460.6	2877.5	3290.4	3536.7	3393.1	3365.2
30°	3407.1	2812.6	2432.6	2386.7	2576.3	2944.3	3380.1	3764.1	3638.5	3625.5
32.5°	3602.6	2923.3	2498.5	2439.6	2641.1	3027.1	3547.7	4012.5	3890.8	3826.0
35°	3684.3	3044.0	2643.1	2574.3	2826.6	3142.8	3633.5	4233.9	4196.0	4133.2
37.5°	3841.9	3173.7	2813.6	2809.6	3051.0	3293.4	3788.1	4535.1	4528.1	4419.4
40°	3854.9	3315.3	3082.9	3208.6	3398.1	3555.7	3923.7	4618.9	4732.6	4658.8
42.5°	3874.9	3563.7	3548.7	3652.4	3815.0	3781.1	3928.7	4638.8	4812.4	4768.5
45°	3883.8	3812.0	4022.5	4214.0	4281.8	4076.3	3881.8	4600.9	4854.3	4744.6
47.5°	3812.0	4025.5	4405.5	4775.5	4795.4	4257.8	3861.9	4562.1	4879.2	4806.4
50°	3822.0	4159.1	4736.6	5067.7	4994.9	4418.4	3831.0	4538.1	4866.3	4817.4
52°	3798.1	4162.1	4783.5	5061.7	5010.9	4329.7	3778.1	4446.4	4854.3	4889.2
52.5°	3825.0	4144.1	4734.6	5065.7	4999.9	4373.5	3771.1	4497.2	4861.3	4790.5
55°	3732.2	3930.7	4448.3	4589.0	4579.0	3969.6	3556.7	4328.7	4678.7	4679.7
57.5°	3373.2	3407.1	3488.9	3485.9	3440.0	3120.8	3042.0	3980.6	4171.1	4067.3
60°	2972.2	2494.5	2274.0	2184.3	2133.4	2081.5	2691.0	3641.5	3659.4	3615.5
62.5°	2568.3	1729.5	1436.2	1411.3	1423.3	1612.8	2601.2	3506.8	3399.1	3304.3
65°	2072.6	1260.7	1043.3	1010.4	1127.0	1331.5	2105.5	2689.0	2523.4	2444.6
67.5°	1301.6	919.6	705.2	643.3	783.9	916.6	1383.4	1689.6	1504.1	1395.3
70°	772.0	513.7	319.2	286.3	322.2	488.7	775.0	842.8	697.2	641.3
72.5°	304.2	188.5	88.8	75.8	78.8	171.6	285.3	278.3	210.4	187.5
75°	81.8	56.9	30.9	24.9	20.9	31.9	45.9	29.9	11.0	14.0
77.5°	37.9	33.9	26.9	20.9	16.0	12.0	6.0	2.0	2.0	1.0
80°	32.9	28.9	24.9	20.9	16.0	10.0	5.0	1.0	1.0	1.0
82.5°	30.9	26.9	22.9	19.0	15.0	10.0	5.0	1.0	0.0	0.0
85°	13.0	17.0	19.0	18.0	16.0	10.0	5.0	1.0	0.0	0.0
87.5°	7.0	6.0	5.0	4.0	3.0	2.0	2.0	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

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