

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: P527377

Luminaire Tested: **GALN-SA2B-827-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527377
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-827-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4650 lumens
Efficiency: N/A
Efficacy: 56.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G0

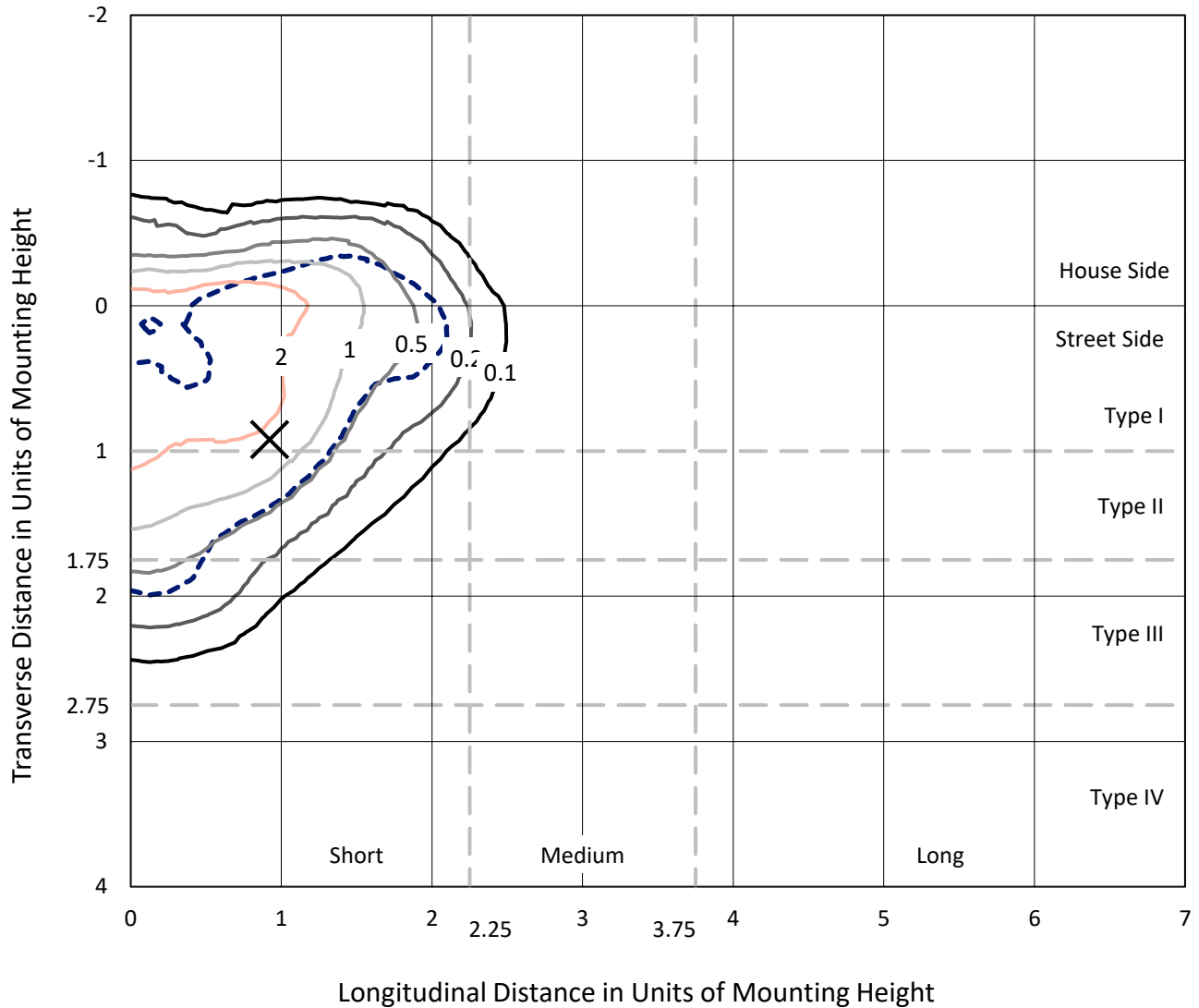
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

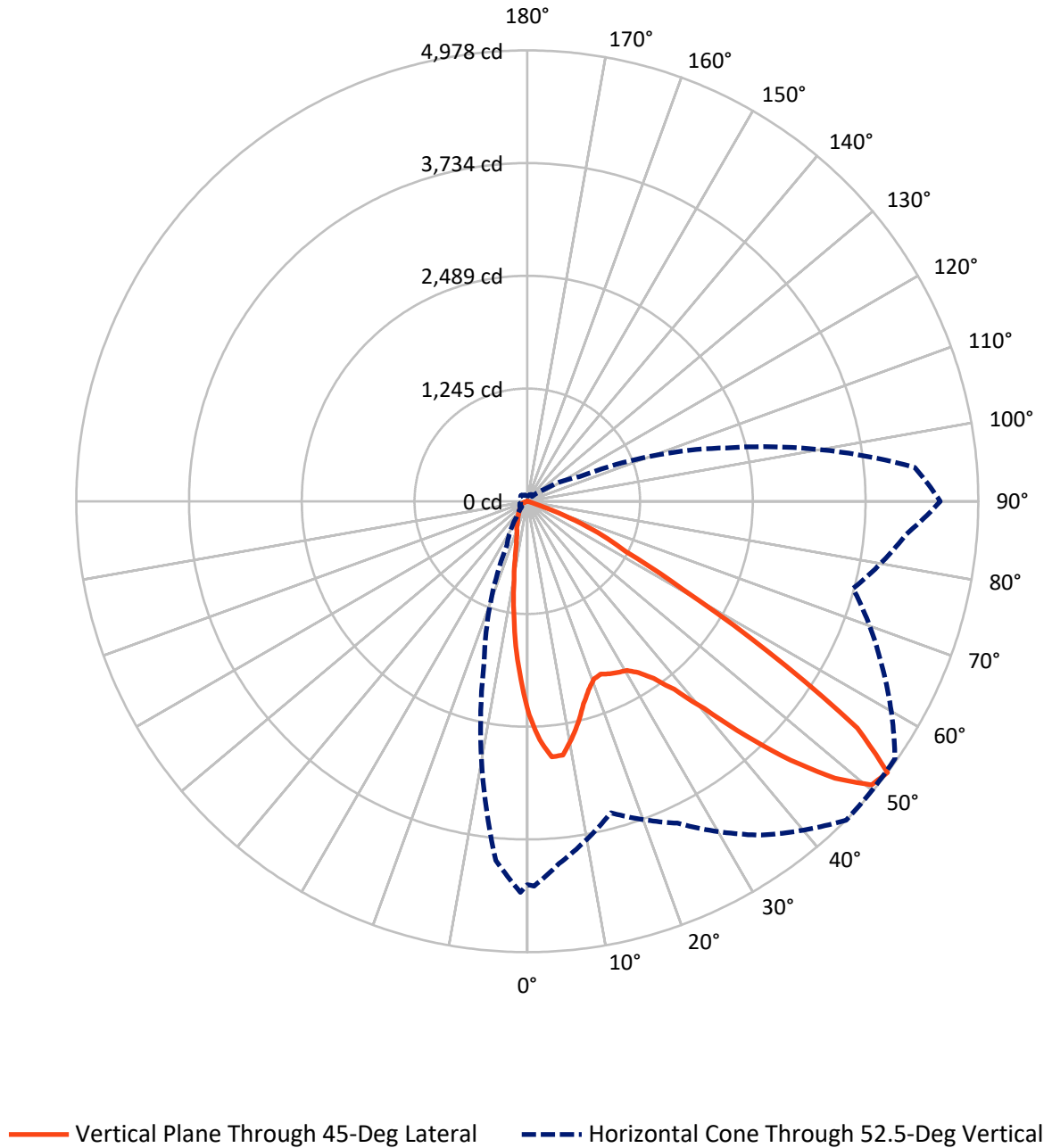
✕ Max cd
 - - - 1/2 Max cd



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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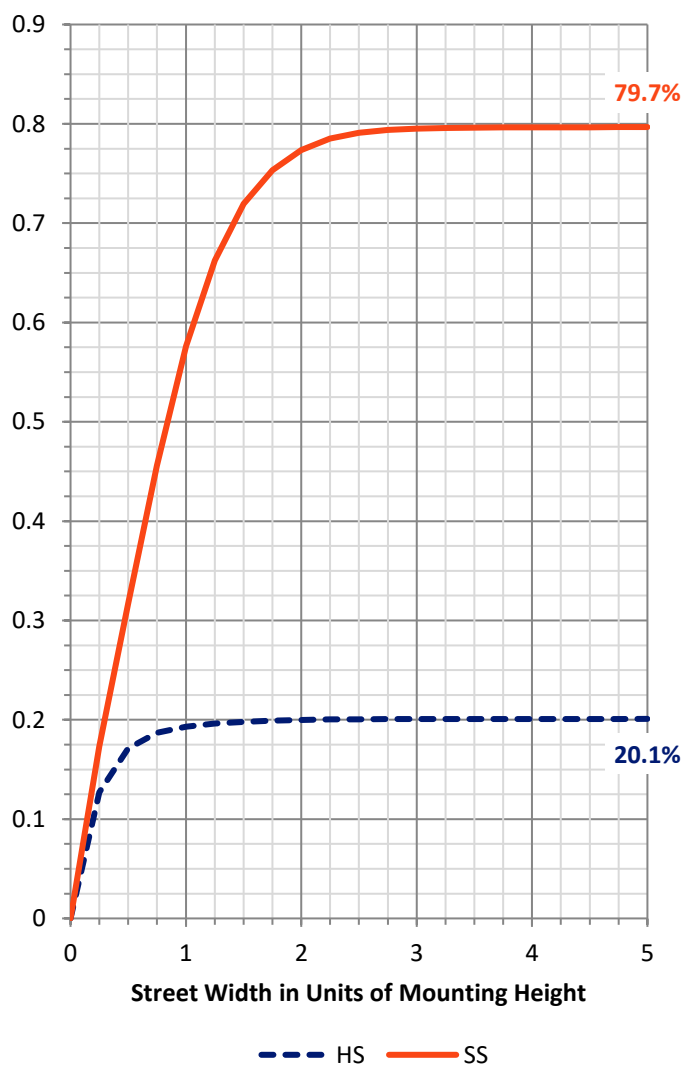
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	943.7	0.0	943.7
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	3706.3	0.0	3706.3
	% Fixture	79.7	0.0	79.7
Total	Lumens	4650.0	0.0	4650.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.9	3.7
10°-20°	339.2	7.3
20°-30°	516.3	11.1
30°-40°	771.6	16.6
40°-50°	1098.9	23.6
50°-60°	1181.3	25.4
60°-70°	523.4	11.3
70°-80°	42.3	0.9
80°-90°	4.9	0.1
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°	4650.0	100.0
0°-180°	4650.0	100.0

Coefficient of Utilization



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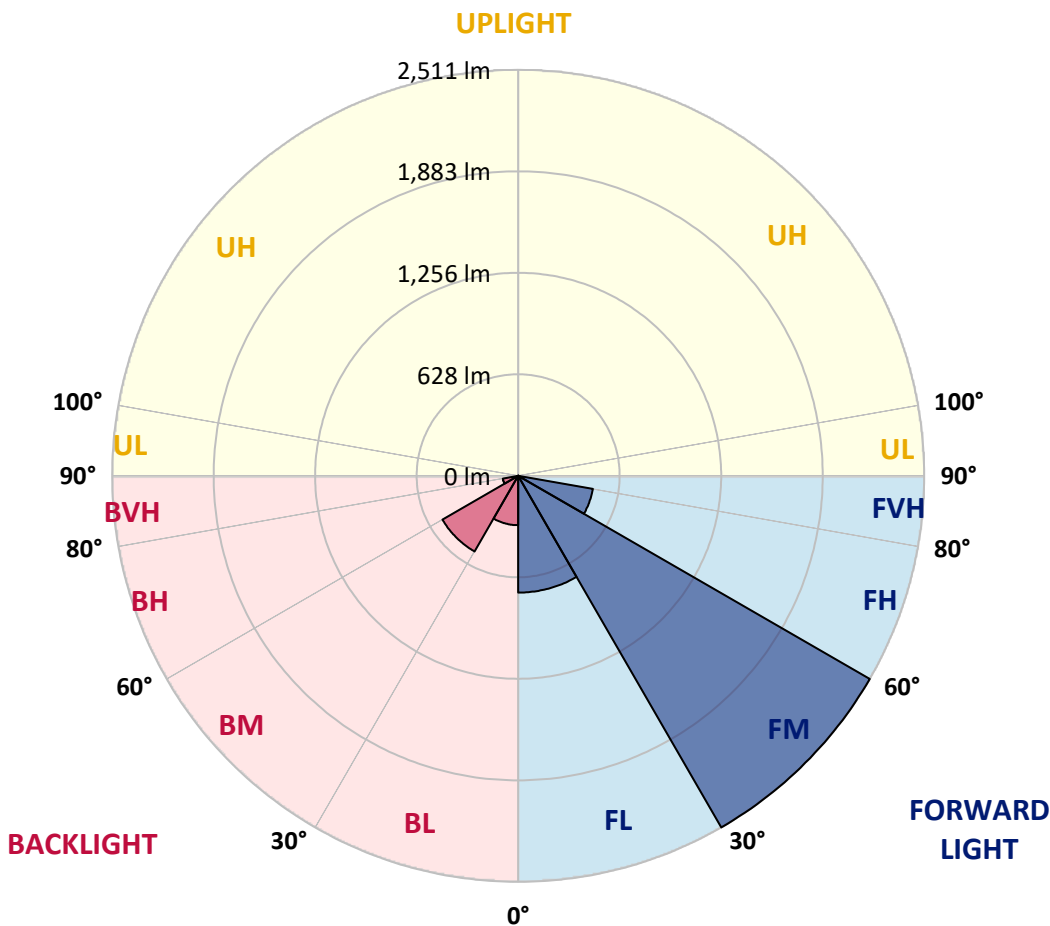
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	722.2	15.5			
FM (30°-60°)	2511.1	54.0			
FH (60°-80°)	469.2	10.1			G0/660
FVH (80°-90°)	3.7	0.1			G0/10
BL (0°-30°)	305.2	6.6	B1/500		
BM (30°-60°)	540.6	11.6	B1/1000		
BH (60°-80°)	96.6	2.1	B0/110		G0/110
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2357.8	2357.8	2357.8	2357.8	2357.8	2357.8	2357.8	2357.8	2357.8	2357.8	2357.8
2.5°	2495.0	2502.3	2542.5	2592.8	2619.3	2679.7	2637.6	2648.6	2625.7	2545.3	2482.1
5°	2419.0	2418.1	2469.3	2593.7	2711.7	2831.5	2835.2	2771.2	2658.7	2535.2	2358.7
7.5°	2190.4	2226.1	2279.1	2477.6	2696.2	2785.8	2828.8	2753.8	2580.9	2404.4	2213.3
10°	2017.5	2035.8	2125.5	2365.1	2525.1	2644.9	2671.5	2628.5	2495.9	2275.5	2061.4
12.5°	1917.9	1927.0	2032.2	2233.4	2402.6	2491.3	2504.1	2524.2	2429.1	2222.4	1965.4
15°	1918.8	1926.1	2067.8	2236.1	2302.9	2279.1	2321.2	2320.3	2361.4	2212.3	2045.9
17.5°	2056.9	2065.1	2193.1	2276.4	2247.1	2191.3	2188.6	2230.6	2317.5	2337.6	2167.5
20°	2294.7	2313.9	2408.1	2403.5	2238.9	2126.4	2095.3	2127.3	2329.4	2443.7	2412.6
22.5°	2614.8	2641.3	2707.1	2580.9	2276.4	2082.5	2072.4	2134.6	2408.1	2680.6	2690.7
25°	2986.1	3030.9	3062.9	2901.0	2409.9	2158.4	2110.8	2217.8	2514.2	2937.6	3044.6
27.5°	3232.1	3278.7	3271.4	3040.0	2499.5	2178.5	2138.3	2238.0	2606.5	2998.9	3229.4
30°	3424.2	3452.5	3503.7	3115.0	2589.2	2235.2	2166.6	2323.0	2636.7	3105.0	3452.5
32.5°	3648.2	3667.4	3671.1	3247.6	2727.3	2306.6	2254.4	2429.1	2770.2	3206.5	3650.1
35°	3874.1	3902.5	3843.0	3411.4	2812.3	2439.2	2400.8	2612.9	2877.2	3311.7	3867.7
37.5°	4119.2	4133.9	3996.7	3479.0	2933.9	2655.0	2634.0	2811.4	3062.9	3501.9	4109.2
40°	4325.0	4338.7	4160.4	3562.3	3062.0	2956.8	3010.8	3190.0	3315.3	3625.4	4229.9
42.5°	4439.3	4471.3	4215.3	3516.5	3319.0	3298.9	3538.5	3601.6	3608.0	3660.1	4337.8
45°	4470.4	4455.8	4124.7	3554.0	3544.0	3861.3	4079.0	4162.2	3898.8	3724.1	4365.3
47.5°	4326.8	4346.0	3991.2	3521.1	3839.4	4287.5	4569.2	4723.8	4115.6	3668.3	4297.6
50°	4210.7	4186.0	3948.2	3497.3	3918.9	4488.7	4923.1	4957.9	4314.9	3736.9	4223.5
52.5°	4233.6	4249.1	4016.8	3560.4	3920.8	4500.6	4978.0	4954.2	4321.4	3721.4	4197.0
55°	4282.0	4213.4	3987.5	3421.4	3658.3	4168.6	4418.3	4381.7	3988.4	3555.9	4132.0
57.5°	3694.9	3801.0	3666.5	3054.7	3002.5	3140.6	3136.1	3248.6	2975.1	3060.2	3761.6
60°	2998.9	3017.2	3067.5	2612.9	2077.9	2030.3	1964.5	1893.2	2002.0	2616.6	3421.4
62.5°	2637.6	2615.7	2794.9	2377.0	1467.0	1228.3	1217.3	1261.2	1544.7	2495.9	3209.2
65°	1916.9	1944.4	2074.2	1844.7	1101.1	937.4	921.0	1050.8	1250.2	2000.2	2449.2
67.5°	1170.7	1223.7	1235.6	1137.7	747.2	593.6	569.8	687.8	902.7	1294.1	1435.9
70°	540.5	604.5	664.9	621.0	432.6	244.2	230.5	289.0	455.5	744.5	761.8
72.5°	163.7	164.6	230.5	240.5	139.9	54.9	48.5	64.0	154.6	246.0	258.8
75°	11.9	12.8	31.1	35.7	26.5	13.7	14.6	17.4	32.9	54.9	41.2
77.5°	0.9	0.9	0.9	4.6	8.2	9.1	11.9	13.7	17.4	20.1	18.3
80°	0.9	0.0	0.9	3.7	6.4	9.1	11.0	12.8	13.7	15.5	13.7
82.5°	0.0	0.0	0.0	2.7	6.4	9.1	10.1	13.7	15.5	18.3	15.5
85°	0.0	0.0	0.0	2.7	6.4	10.1	9.1	4.6	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2357.8	2357.8	2357.8	2357.8	2357.8	2357.8	2357.8	2357.8	2357.8	2357.8	2357.8
2.5°	2493.1	2457.5	2376.1	2334.9	2238.0	2224.2	2129.1	2113.6	2081.6	2064.2	2022.1
5°	2280.9	2238.0	2105.3	1993.8	1863.9	1773.4	1703.8	1640.7	1604.2	1570.3	1585.9
7.5°	2108.1	1982.8	1835.5	1649.0	1499.0	1402.0	1295.9	1209.1	1157.8	1123.1	1131.3
10°	1927.0	1845.6	1640.7	1431.3	1250.2	1181.6	1098.4	1031.6	959.4	897.2	867.9
12.5°	1870.3	1749.6	1492.6	1279.5	1142.3	1075.5	980.4	903.6	811.2	735.3	708.8
15°	1880.4	1764.2	1452.3	1224.6	1062.7	947.5	834.1	739.0	637.5	584.4	557.0
17.5°	2044.1	1842.9	1478.9	1167.0	952.1	792.0	652.1	531.4	455.5	400.6	388.7
20°	2245.3	2013.0	1535.6	1124.9	861.5	630.1	476.5	372.2	309.1	300.0	297.2
22.5°	2539.8	2291.0	1657.2	1096.6	750.9	491.1	326.5	270.7	253.3	251.5	252.4
25°	2951.3	2639.5	1789.8	1072.8	667.6	378.6	267.1	229.6	224.1	221.3	225.9
27.5°	3129.7	2849.8	1860.2	1021.6	591.7	341.1	263.4	227.7	212.2	207.6	210.4
30°	3350.1	2989.7	1970.9	933.8	480.2	280.8	246.0	247.8	240.5	217.7	210.4
32.5°	3642.7	3164.4	2026.7	871.6	428.9	232.3	180.2	165.5	184.7	188.4	194.8
35°	3830.2	3341.8	2055.0	835.0	402.4	198.5	152.7	139.0	134.4	135.4	139.0
37.5°	4178.7	3581.5	2090.7	796.6	382.3	172.9	138.1	125.3	118.9	118.9	122.6
40°	4387.2	3771.7	2139.2	775.6	362.2	157.3	125.3	114.3	108.8	108.8	110.7
42.5°	4439.3	3865.9	2122.7	768.2	339.3	153.6	114.3	106.1	99.7	98.8	97.9
45°	4532.6	4009.5	2125.5	760.0	315.5	139.9	107.9	98.8	89.6	88.7	87.8
47.5°	4635.0	4112.8	2131.0	728.0	292.7	117.1	112.5	91.5	80.5	78.7	78.7
50°	4547.3	4195.1	2178.5	696.0	263.4	95.1	110.7	86.0	71.3	68.6	69.5
52.5°	4558.2	4292.1	2279.1	651.2	226.8	75.9	89.6	81.4	64.9	60.4	61.3
55°	4382.6	4189.7	2292.8	603.6	177.4	58.5	68.6	71.3	54.9	53.0	53.0
57.5°	3772.6	3547.6	2023.0	489.3	117.1	48.5	49.4	62.2	47.6	45.7	46.6
60°	3228.4	2848.0	1627.9	322.8	73.2	38.4	35.7	63.1	42.1	41.2	43.9
62.5°	2943.1	2340.4	1234.7	200.3	50.3	29.3	24.7	51.2	36.6	36.6	40.2
65°	2126.4	1572.1	717.9	105.2	35.7	22.9	18.3	29.3	30.2	31.1	32.9
67.5°	1317.0	793.8	302.7	51.2	23.8	15.5	11.9	18.3	20.1	20.1	21.9
70°	650.3	316.4	100.6	29.3	18.3	12.8	8.2	10.1	10.1	9.1	10.1
72.5°	201.2	95.1	25.6	18.3	12.8	8.2	4.6	3.7	1.8	0.0	0.9
75°	22.9	18.3	16.5	12.8	8.2	3.7	0.9	0.0	0.0	0.0	0.0
77.5°	13.7	15.5	15.5	12.8	8.2	2.7	0.0	0.0	0.0	0.0	0.0
80°	11.0	11.9	12.8	11.9	7.3	3.7	0.0	0.0	0.0	0.0	0.0
82.5°	13.7	15.5	17.4	15.5	10.1	4.6	1.8	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	2.7	0.9	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°	2357.8	2357.8	2357.8	2357.8	2357.8	2357.8	2357.8	2357.8	2357.8	2357.8	2357.8
2.5°	2004.7	1984.6	2013.0	1970.9	1970.0	1970.9	1959.0	1948.0	1965.4	2012.1	2016.6
5°	1530.1	1573.1	1586.8	1631.6	1606.9	1570.3	1577.6	1552.9	1613.3	1639.8	1618.8
7.5°	1113.9	1111.2	1203.6	1209.1	1221.0	1221.9	1220.0	1171.6	1122.2	1133.2	1166.1
10°	864.3	817.6	862.4	857.9	887.1	878.9	890.8	838.7	856.0	856.0	877.1
12.5°	704.2	654.8	646.6	634.7	646.6	651.2	655.7	645.7	675.0	688.7	703.3
15°	537.8	510.3	503.0	480.2	483.8	496.6	507.6	512.2	503.0	524.0	525.9
17.5°	390.5	389.6	394.2	393.3	389.6	386.9	385.9	374.1	370.4	372.2	379.5
20°	296.3	303.6	319.2	334.7	343.0	332.9	319.2	299.1	290.8	292.7	293.6
22.5°	253.3	264.3	285.3	302.7	311.0	292.7	268.0	250.6	246.9	246.0	245.1
25°	229.6	242.4	257.9	263.4	262.5	251.5	233.2	225.9	224.1	222.2	214.0
27.5°	216.8	221.3	224.1	230.5	233.2	225.9	221.3	210.4	208.5	208.5	203.0
30°	209.4	206.7	210.4	205.8	209.4	203.9	204.9	204.9	200.3	202.1	202.1
32.5°	194.8	195.7	195.7	186.6	189.3	182.9	189.3	194.8	195.7	196.6	203.9
35°	142.7	159.1	167.4	167.4	170.1	165.5	164.6	158.2	150.0	141.8	138.1
37.5°	125.3	131.7	142.7	149.1	153.6	150.0	141.8	131.7	127.1	123.5	119.8
40°	111.6	117.1	124.4	131.7	140.8	136.3	123.5	118.9	113.4	113.4	109.7
42.5°	100.6	103.3	107.9	118.9	129.0	119.8	110.7	107.0	104.3	103.3	102.4
45°	90.5	91.5	96.0	105.2	117.1	107.9	98.8	94.2	95.1	96.0	95.1
47.5°	81.4	83.2	86.0	96.9	104.3	99.7	89.6	86.9	86.9	86.9	87.8
50°	70.4	75.0	80.5	89.6	95.1	92.4	84.1	80.5	78.7	78.7	79.6
52.5°	63.1	66.8	74.1	85.1	92.4	87.8	79.6	74.1	70.4	69.5	71.3
55°	54.9	61.3	73.2	81.4	91.5	86.9	77.7	71.3	64.9	64.0	64.0
57.5°	49.4	59.4	70.4	80.5	88.7	85.1	77.7	69.5	61.3	60.4	60.4
60°	46.6	57.6	68.6	77.7	88.7	83.2	76.8	67.7	58.5	58.5	57.6
62.5°	43.9	54.0	64.9	74.1	85.1	80.5	74.1	64.9	55.8	55.8	54.0
65°	36.6	46.6	54.0	62.2	74.1	69.5	63.1	56.7	49.4	47.6	48.5
67.5°	25.6	32.0	39.3	47.6	54.9	53.0	50.3	45.7	39.3	38.4	37.5
70°	12.8	17.4	23.8	32.0	38.4	36.6	34.8	31.1	27.4	26.5	26.5
72.5°	1.8	5.5	10.1	14.6	20.1	21.0	20.1	19.2	18.3	17.4	18.3
75°	0.0	0.0	0.0	3.7	8.2	10.1	11.9	13.7	13.7	11.9	14.6
77.5°	0.0	0.0	0.0	0.0	0.9	4.6	9.1	11.9	14.6	12.8	17.4
80°	0.0	0.0	0.0	0.0	0.9	5.5	9.1	12.8	14.6	12.8	18.3
82.5°	0.0	0.0	0.0	0.0	0.9	6.4	9.1	11.9	13.7	12.8	16.5
85°	0.0	0.0	0.0	0.0	2.7	5.5	3.7	1.8	0.9	0.9	2.7
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°	2357.8	2357.8	2357.8	2357.8	2357.8	2357.8	2357.8	2357.8	2357.8	2357.8
2.5°	2042.2	2107.2	2176.7	2203.2	2285.5	2347.7	2389.8	2480.3	2494.0	2495.0
5°	1640.7	1673.7	1792.6	1848.3	1970.9	2066.0	2167.5	2313.9	2411.7	2419.0
7.5°	1166.1	1257.5	1307.8	1453.3	1604.2	1753.2	1904.1	2074.2	2187.7	2190.4
10°	938.4	997.8	1087.4	1196.3	1323.4	1475.2	1676.4	1874.0	1989.2	2017.5
12.5°	755.4	859.7	962.1	1074.6	1171.6	1285.9	1502.6	1766.0	1861.2	1917.9
15°	581.7	676.8	797.5	929.2	1039.0	1191.7	1438.6	1739.5	1899.6	1918.8
17.5°	428.9	514.0	625.6	749.9	914.6	1131.3	1449.6	1874.0	2024.9	2056.9
20°	308.2	357.6	445.4	589.9	799.3	1060.9	1460.6	2010.2	2239.8	2294.7
22.5°	244.2	264.3	321.9	450.0	670.4	986.8	1538.3	2270.9	2535.2	2614.8
25°	212.2	223.2	250.6	354.9	589.0	979.5	1662.7	2583.7	2928.5	2986.1
27.5°	204.9	206.7	230.5	325.6	545.1	931.0	1710.2	2805.9	3173.6	3232.1
30°	215.8	245.1	246.9	275.3	463.7	835.0	1734.9	3020.8	3381.2	3424.2
32.5°	186.6	177.4	183.8	213.1	407.9	779.2	1781.6	3208.3	3618.0	3648.2
35°	129.9	136.3	150.9	184.7	356.7	720.7	1793.5	3415.0	3843.0	3874.1
37.5°	119.8	123.5	135.4	157.3	313.7	687.8	1777.0	3565.9	4076.2	4119.2
40°	111.6	116.2	122.6	142.7	281.7	651.2	1754.1	3702.2	4218.9	4325.0
42.5°	105.2	108.8	114.3	136.3	254.3	614.6	1722.1	3894.2	4347.0	4439.3
45°	97.9	103.3	109.7	132.6	238.7	589.9	1698.4	3882.4	4421.0	4470.4
47.5°	90.5	99.7	107.0	123.5	234.1	578.0	1708.4	3837.5	4360.7	4326.8
50°	83.2	95.1	107.9	102.4	223.2	554.2	1720.3	3898.8	4217.1	4210.7
52.5°	76.8	90.5	100.6	84.1	198.5	531.4	1835.5	3979.3	4318.6	4233.6
55°	67.7	81.4	80.5	67.7	161.0	514.0	1926.1	3981.1	4250.0	4282.0
57.5°	61.3	72.3	63.1	56.7	118.9	429.8	1778.8	3338.2	3638.2	3694.9
60°	56.7	70.4	47.6	44.8	77.7	310.0	1552.9	2585.5	2891.9	2998.9
62.5°	52.1	66.8	37.5	36.6	54.0	220.4	1276.7	2163.9	2492.2	2637.6
65°	45.7	47.6	30.2	28.4	38.4	118.9	777.4	1489.8	1863.0	1916.9
67.5°	37.5	36.6	24.7	22.9	25.6	57.6	343.0	746.3	1080.1	1170.7
70°	30.2	30.2	21.0	18.3	18.3	26.5	89.6	297.2	488.4	540.5
72.5°	21.9	22.9	16.5	14.6	13.7	12.8	14.6	59.4	128.0	163.7
75°	19.2	20.1	16.5	12.8	10.1	8.2	6.4	5.5	7.3	11.9
77.5°	21.0	21.0	17.4	11.9	9.1	6.4	3.7	1.8	1.8	0.9
80°	26.5	27.4	22.9	15.5	11.0	7.3	4.6	1.8	0.9	0.9
82.5°	28.4	31.1	25.6	19.2	13.7	8.2	4.6	0.9	0.0	0.0
85°	7.3	11.9	20.1	17.4	13.7	8.2	4.6	0.9	0.0	0.0
87.5°	0.0	0.9	2.7	2.7	3.7	3.7	2.7	0.9	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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