

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: P527403

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527403
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-830-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 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: 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 - G0

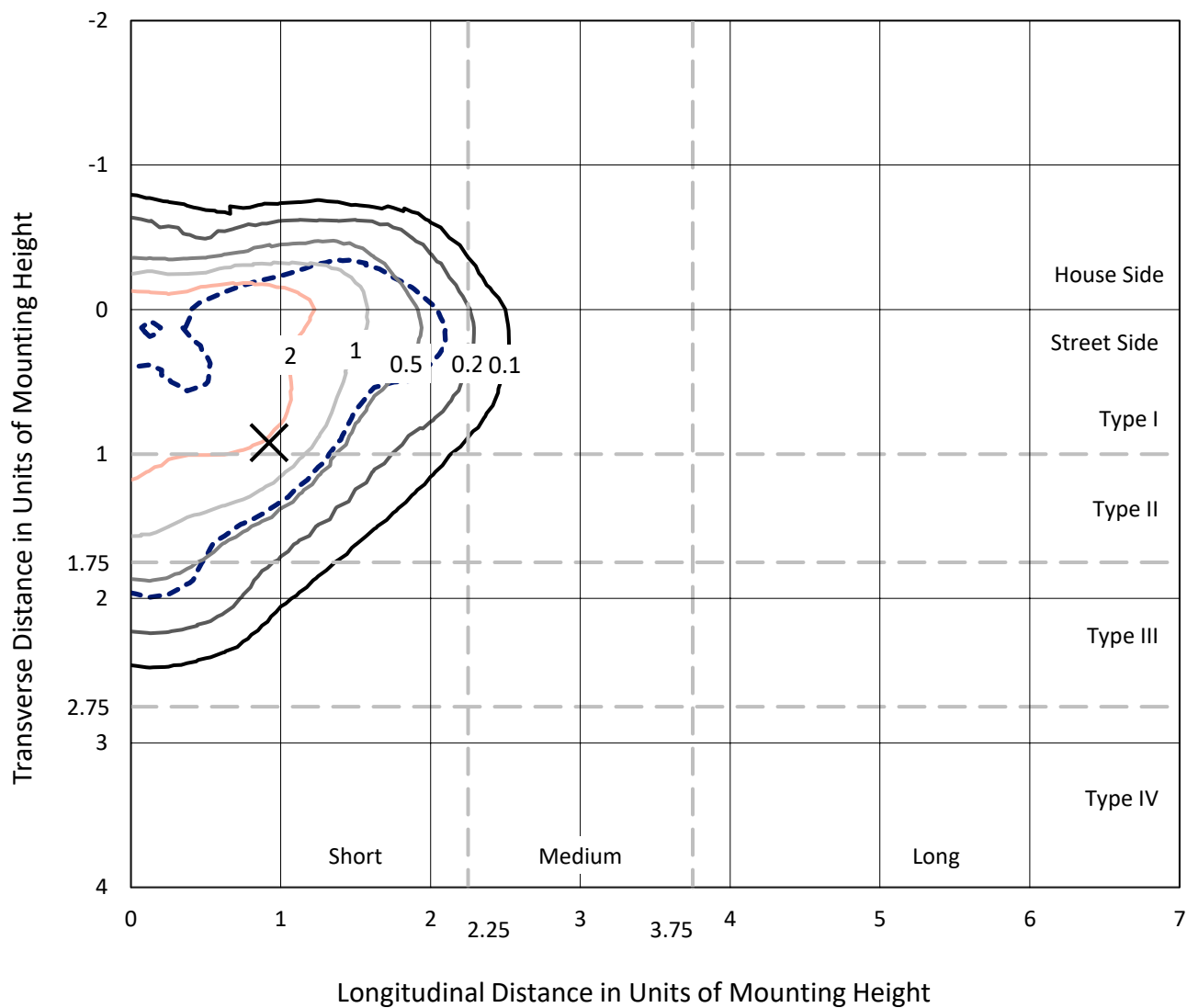
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

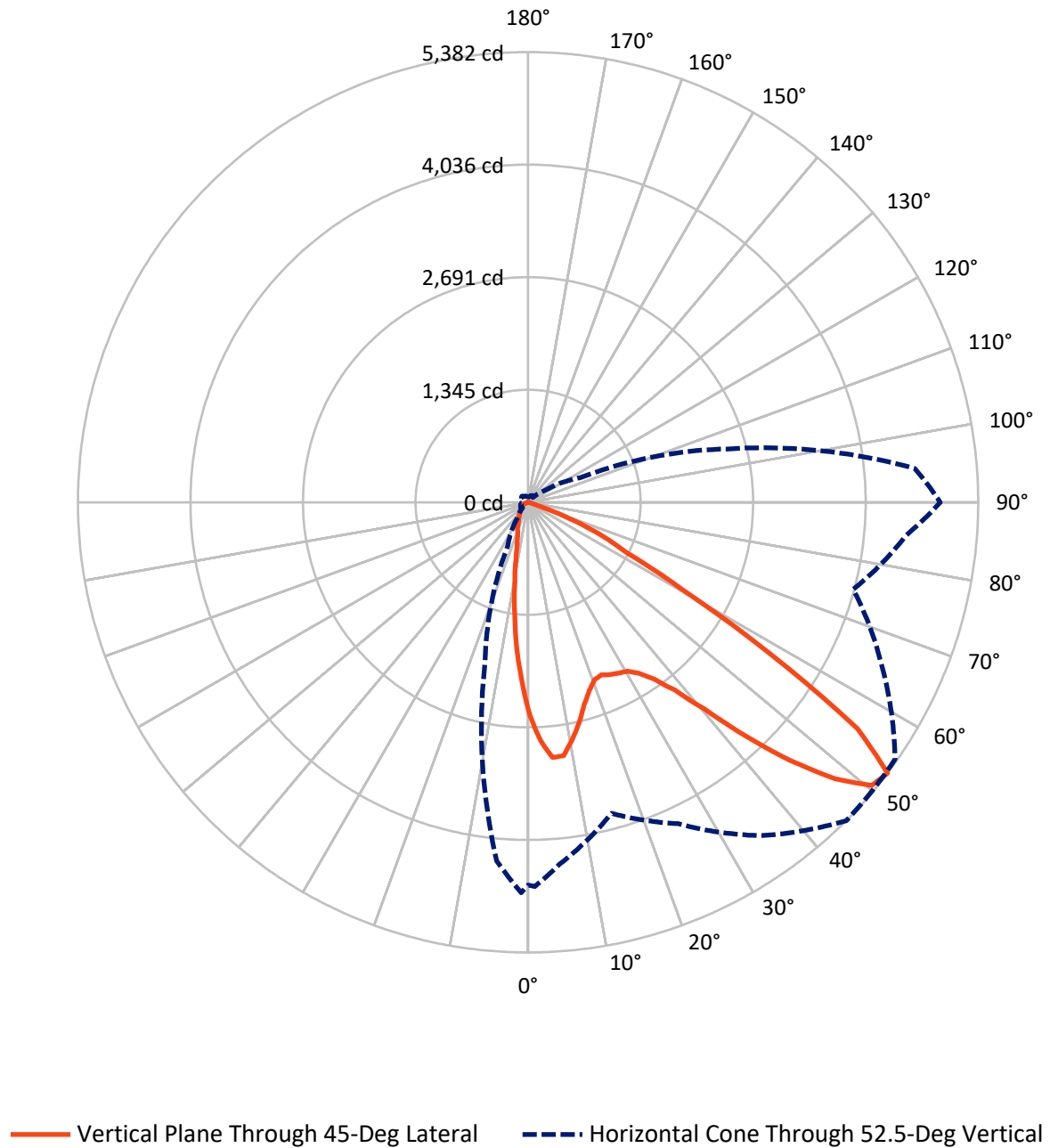
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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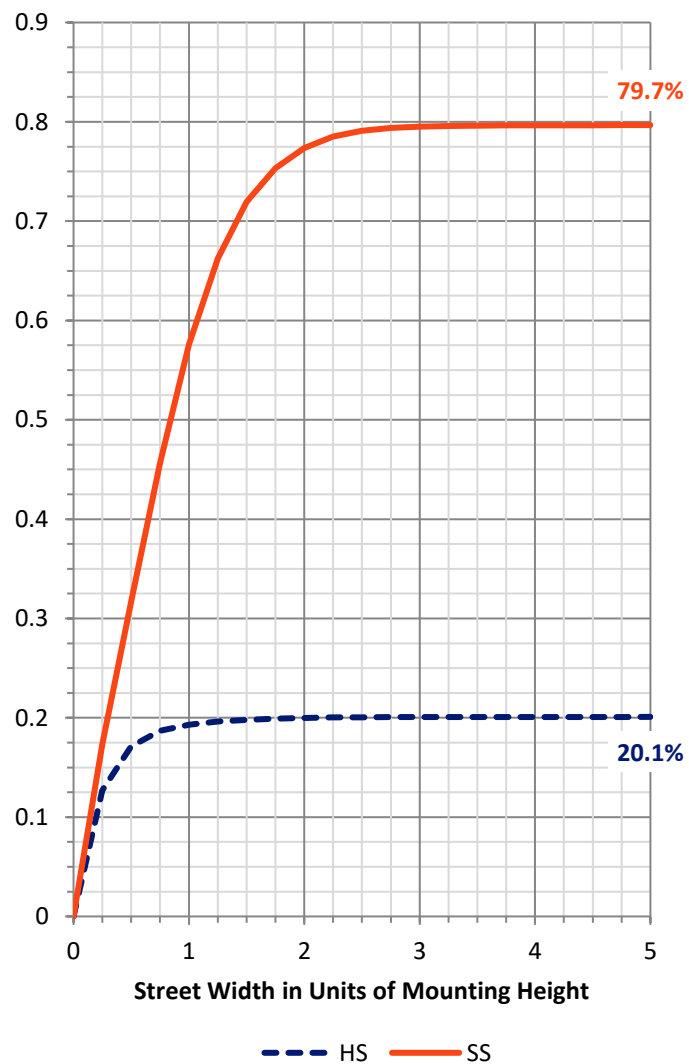
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1020.2	0.0	1020.2
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	4006.8	0.0	4006.8
	% Fixture	79.7	0.0	79.7
Total	Lumens	5027.0	0.0	5027.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.9	3.7
10°-20°	366.8	7.3
20°-30°	558.1	11.1
30°-40°	834.2	16.6
40°-50°	1188.0	23.6
50°-60°	1277.0	25.4
60°-70°	565.9	11.3
70°-80°	45.8	0.9
80°-90°	5.3	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°	5027.0	100.0
0°-180°	5027.0	100.0

Coefficient of Utilization



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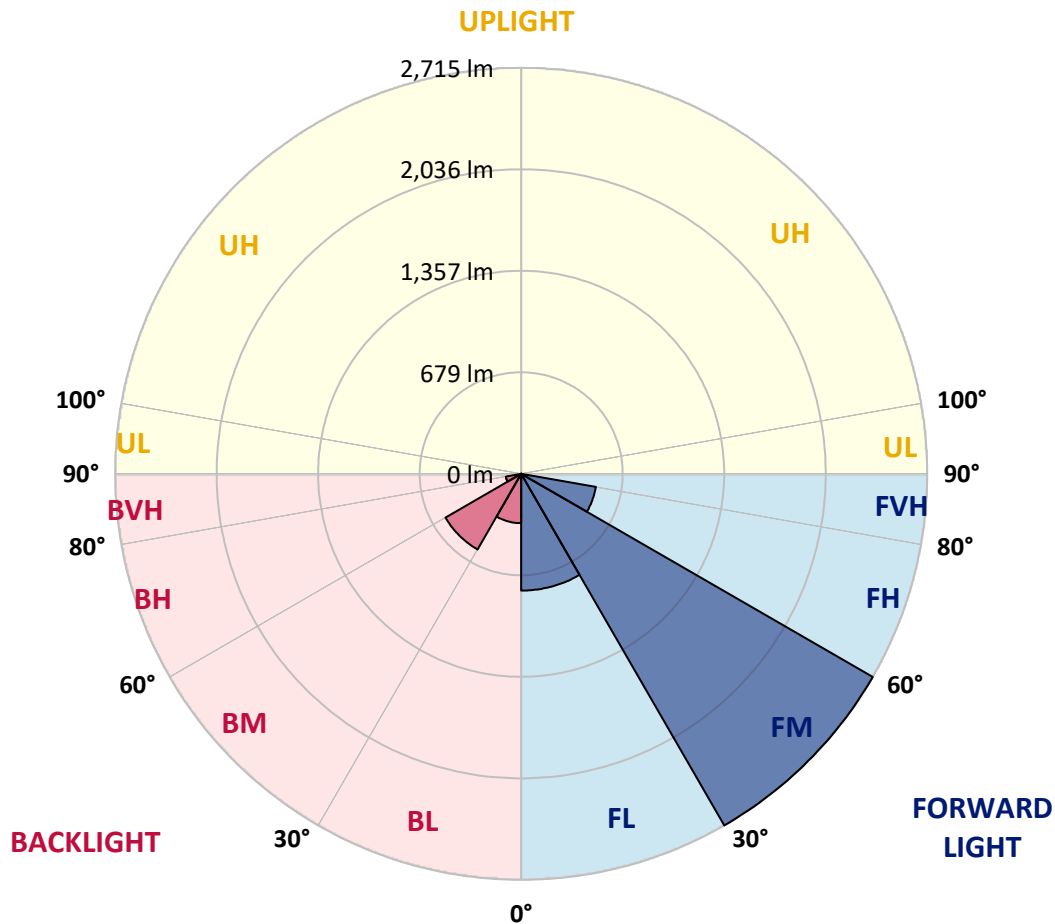
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	780.8	15.5			
FM	(30°-60°)	2714.7	54.0			
FH	(60°-80°)	507.3	10.1			G0/660
FVH	(80°-90°)	4.0	0.1			G0/10
BL	(0°-30°)	330.0	6.6	B1/500		
BM	(30°-60°)	584.5	11.6	B1/1000		
BH	(60°-80°)	104.4	2.1	B0/110		G0/110
BVH	(80°-90°)	1.4	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°	2548.9	2548.9	2548.9	2548.9	2548.9	2548.9	2548.9	2548.9	2548.9	2548.9	2548.9
2.5°	2697.2	2705.1	2748.6	2803.0	2831.7	2897.0	2851.5	2863.3	2838.6	2751.6	2683.4
5°	2615.2	2614.2	2669.5	2804.0	2931.6	3061.1	3065.0	2995.8	2874.2	2740.7	2549.9
7.5°	2368.0	2406.5	2463.9	2678.4	2914.7	3011.6	3058.1	2977.0	2790.2	2599.3	2392.7
10°	2181.1	2200.9	2297.8	2556.8	2729.9	2859.4	2888.1	2841.6	2698.2	2459.9	2228.6
12.5°	2073.3	2083.2	2196.9	2414.5	2597.4	2693.3	2707.1	2728.9	2626.0	2402.6	2124.8
15°	2074.3	2082.2	2235.5	2417.4	2489.6	2463.9	2509.4	2508.4	2552.9	2391.7	2211.8
17.5°	2223.6	2232.5	2371.0	2460.9	2429.3	2369.0	2366.0	2411.5	2505.4	2527.2	2343.3
20°	2480.7	2501.5	2603.3	2598.4	2420.4	2298.8	2265.2	2299.8	2518.3	2641.9	2608.2
22.5°	2826.8	2855.4	2926.6	2790.2	2460.9	2251.3	2240.4	2307.7	2603.3	2897.9	2908.8
25°	3228.2	3276.6	3311.2	3136.2	2605.3	2333.4	2282.0	2397.6	2718.0	3175.8	3291.5
27.5°	3494.1	3544.6	3536.7	3286.5	2702.2	2355.1	2311.6	2419.4	2817.9	3242.0	3491.2
30°	3701.8	3732.4	3787.8	3367.6	2799.1	2416.4	2342.3	2511.4	2850.5	3356.7	3732.4
32.5°	3944.0	3964.8	3968.7	3510.9	2948.4	2493.6	2437.2	2626.0	2994.8	3466.5	3946.0
35°	4188.2	4218.9	4154.6	3687.9	3040.3	2636.9	2595.4	2824.8	3110.5	3580.2	4181.3
37.5°	4453.2	4469.0	4320.7	3761.1	3171.8	2870.3	2847.5	3039.3	3311.2	3785.8	4442.3
40°	4675.7	4690.5	4497.7	3851.1	3310.2	3196.5	3254.9	3448.7	3584.1	3919.3	4572.8
42.5°	4799.3	4833.9	4557.0	3801.6	3588.1	3566.3	3825.4	3893.6	3900.5	3956.9	4689.5
45°	4832.9	4817.0	4459.1	3842.2	3831.3	4174.4	4409.7	4499.7	4214.9	4026.1	4719.2
47.5°	4677.6	4698.4	4314.8	3806.6	4150.7	4635.1	4939.6	5106.7	4449.2	3965.8	4646.0
50°	4552.1	4525.4	4268.3	3780.9	4236.7	4852.6	5322.3	5359.9	4664.8	4039.9	4565.9
52.5°	4576.8	4593.6	4342.5	3849.1	4238.6	4865.5	5381.6	5355.9	4671.7	4023.1	4537.2
55°	4629.2	4555.0	4310.8	3698.8	3954.9	4506.6	4776.5	4737.0	4311.8	3844.1	4467.0
57.5°	3994.4	4109.1	3963.8	3302.3	3246.0	3395.3	3390.3	3511.9	3216.3	3308.3	4066.6
60°	3242.0	3261.8	3316.2	2824.8	2246.4	2195.0	2123.8	2046.7	2164.3	2828.7	3698.8
62.5°	2851.5	2827.7	3021.5	2569.7	1585.9	1327.9	1316.0	1363.4	1669.9	2698.2	3469.4
65°	2072.4	2102.0	2242.4	1994.3	1190.4	1013.4	995.6	1136.0	1351.6	2162.3	2647.8
67.5°	1265.6	1322.9	1335.8	1230.0	807.8	641.7	616.0	743.5	975.9	1399.0	1552.3
70°	584.3	653.5	718.8	671.3	467.7	264.0	249.2	312.4	492.4	804.8	823.6
72.5°	177.0	178.0	249.2	260.0	151.3	59.3	52.4	69.2	167.1	266.0	279.8
75°	12.9	13.8	33.6	38.6	28.7	14.8	15.8	18.8	35.6	59.3	44.5
77.5°	1.0	1.0	1.0	4.9	8.9	9.9	12.9	14.8	18.8	21.8	19.8
80°	1.0	0.0	1.0	4.0	6.9	9.9	11.9	13.8	14.8	16.8	14.8
82.5°	0.0	0.0	0.0	3.0	6.9	9.9	10.9	14.8	16.8	19.8	16.8
85°	0.0	0.0	0.0	3.0	6.9	10.9	9.9	4.9	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°	2548.9	2548.9	2548.9	2548.9	2548.9	2548.9	2548.9	2548.9	2548.9	2548.9	2548.9
2.5°	2695.3	2656.7	2568.7	2524.2	2419.4	2404.6	2301.7	2284.9	2250.3	2231.5	2186.1
5°	2465.9	2419.4	2276.0	2155.4	2015.0	1917.1	1842.0	1773.8	1734.2	1697.6	1714.4
7.5°	2279.0	2143.5	1984.4	1782.7	1620.5	1515.7	1401.0	1307.1	1251.7	1214.1	1223.0
10°	2083.2	1995.2	1773.8	1547.3	1351.6	1277.4	1187.5	1115.3	1037.2	969.9	938.3
12.5°	2021.9	1891.4	1613.6	1383.2	1234.9	1162.7	1059.9	976.9	877.0	794.9	766.3
15°	2032.8	1907.2	1570.1	1323.9	1148.9	1024.3	901.7	798.9	689.1	631.8	602.1
17.5°	2209.8	1992.3	1598.8	1261.6	1029.3	856.2	705.0	574.4	492.4	433.1	420.2
20°	2427.3	2176.2	1660.1	1216.1	931.4	681.2	515.1	402.4	334.2	324.3	321.3
22.5°	2745.7	2476.7	1791.6	1185.5	811.7	530.9	353.0	292.7	273.9	271.9	272.9
25°	3190.6	2853.4	1934.9	1159.8	721.8	409.3	288.7	248.2	242.2	239.3	244.2
27.5°	3383.4	3080.9	2011.1	1104.4	639.7	368.8	284.8	246.2	229.4	224.4	227.4
30°	3621.7	3232.1	2130.7	1009.5	519.1	303.5	266.0	267.9	260.0	235.3	227.4
32.5°	3938.1	3421.0	2191.0	942.3	463.7	251.1	194.8	179.0	199.7	203.7	210.6
35°	4140.8	3612.8	2221.7	902.7	435.0	214.6	165.1	150.3	145.3	146.3	150.3
37.5°	4517.5	3871.8	2260.2	861.2	413.3	186.9	149.3	135.5	128.5	128.5	132.5
40°	4742.9	4077.5	2312.6	838.4	391.5	170.1	135.5	123.6	117.7	117.7	119.6
42.5°	4799.3	4179.3	2294.8	830.5	366.8	166.1	123.6	114.7	107.8	106.8	105.8
45°	4900.1	4334.6	2297.8	821.6	341.1	151.3	116.7	106.8	96.9	95.9	94.9
47.5°	5010.8	4446.3	2303.7	787.0	316.4	126.6	121.6	98.9	87.0	85.0	85.0
50°	4915.9	4535.3	2355.1	752.4	284.8	102.8	119.6	92.9	77.1	74.2	75.1
52.5°	4927.8	4640.1	2463.9	704.0	245.2	82.1	96.9	88.0	70.2	65.3	66.2
55°	4738.0	4529.3	2478.7	652.6	191.8	63.3	74.2	77.1	59.3	57.3	57.3
57.5°	4078.5	3835.2	2187.1	529.0	126.6	52.4	53.4	67.2	51.4	49.4	50.4
60°	3490.2	3078.9	1759.9	349.0	79.1	41.5	38.6	68.2	45.5	44.5	47.5
62.5°	3181.7	2530.1	1334.8	216.5	54.4	31.6	26.7	55.4	39.5	39.5	43.5
65°	2298.8	1699.6	776.1	113.7	38.6	24.7	19.8	31.6	32.6	33.6	35.6
67.5°	1423.8	858.2	327.3	55.4	25.7	16.8	12.9	19.8	21.8	21.8	23.7
70°	703.0	342.1	108.8	31.6	19.8	13.8	8.9	10.9	10.9	9.9	10.9
72.5°	217.5	102.8	27.7	19.8	13.8	8.9	4.9	4.0	2.0	0.0	1.0
75°	24.7	19.8	17.8	13.8	8.9	4.0	1.0	0.0	0.0	0.0	0.0
77.5°	14.8	16.8	16.8	13.8	8.9	3.0	0.0	0.0	0.0	0.0	0.0
80°	11.9	12.9	13.8	12.9	7.9	4.0	0.0	0.0	0.0	0.0	0.0
82.5°	14.8	16.8	18.8	16.8	10.9	4.9	2.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	3.0	1.0	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°	2548.9	2548.9	2548.9	2548.9	2548.9	2548.9	2548.9	2548.9	2548.9	2548.9	2548.9
2.5°	2167.3	2145.5	2176.2	2130.7	2129.7	2130.7	2117.8	2106.0	2124.8	2175.2	2180.1
5°	1654.1	1700.6	1715.4	1763.9	1737.2	1697.6	1705.5	1678.8	1744.1	1772.8	1750.0
7.5°	1204.3	1201.3	1301.2	1307.1	1319.9	1320.9	1319.0	1266.6	1213.2	1225.0	1260.6
10°	934.3	883.9	932.4	927.4	959.1	950.2	963.0	906.7	925.4	925.4	948.2
12.5°	761.3	707.9	699.0	686.2	699.0	704.0	708.9	698.0	729.7	744.5	760.3
15°	581.4	551.7	543.8	519.1	523.0	536.9	548.7	553.7	543.8	566.5	568.5
17.5°	422.2	421.2	426.1	425.2	421.2	418.2	417.2	404.4	400.4	402.4	410.3
20°	320.3	328.3	345.1	361.9	370.8	359.9	345.1	323.3	314.4	316.4	317.4
22.5°	273.9	285.7	308.5	327.3	336.2	316.4	289.7	270.9	267.0	266.0	265.0
25°	248.2	262.0	278.8	284.8	283.8	271.9	252.1	244.2	242.2	240.3	231.4
27.5°	234.3	239.3	242.2	249.2	252.1	244.2	239.3	227.4	225.4	225.4	219.5
30°	226.4	223.5	227.4	222.5	226.4	220.5	221.5	221.5	216.5	218.5	218.5
32.5°	210.6	211.6	211.6	201.7	204.7	197.7	204.7	210.6	211.6	212.6	220.5
35°	154.2	172.0	180.9	180.9	183.9	179.0	178.0	171.0	162.2	153.3	149.3
37.5°	135.5	142.4	154.2	161.2	166.1	162.2	153.3	142.4	137.4	133.5	129.5
40°	120.6	126.6	134.5	142.4	152.3	147.3	133.5	128.5	122.6	122.6	118.6
42.5°	108.8	111.7	116.7	128.5	139.4	129.5	119.6	115.7	112.7	111.7	110.7
45°	97.9	98.9	103.8	113.7	126.6	116.7	106.8	101.8	102.8	103.8	102.8
47.5°	88.0	90.0	92.9	104.8	112.7	107.8	96.9	93.9	93.9	93.9	94.9
50°	76.1	81.1	87.0	96.9	102.8	99.9	91.0	87.0	85.0	85.0	86.0
52.5°	68.2	72.2	80.1	92.0	99.9	94.9	86.0	80.1	76.1	75.1	77.1
55°	59.3	66.2	79.1	88.0	98.9	93.9	84.0	77.1	70.2	69.2	69.2
57.5°	53.4	64.3	76.1	87.0	95.9	92.0	84.0	75.1	66.2	65.3	65.3
60°	50.4	62.3	74.2	84.0	95.9	90.0	83.1	73.2	63.3	63.3	62.3
62.5°	47.5	58.3	70.2	80.1	92.0	87.0	80.1	70.2	60.3	60.3	58.3
65°	39.5	50.4	58.3	67.2	80.1	75.1	68.2	61.3	53.4	51.4	52.4
67.5°	27.7	34.6	42.5	51.4	59.3	57.3	54.4	49.4	42.5	41.5	40.5
70°	13.8	18.8	25.7	34.6	41.5	39.5	37.6	33.6	29.7	28.7	28.7
72.5°	2.0	5.9	10.9	15.8	21.8	22.7	21.8	20.8	19.8	18.8	19.8
75°	0.0	0.0	0.0	4.0	8.9	10.9	12.9	14.8	14.8	12.9	15.8
77.5°	0.0	0.0	0.0	0.0	1.0	4.9	9.9	12.9	15.8	13.8	18.8
80°	0.0	0.0	0.0	0.0	1.0	5.9	9.9	13.8	15.8	13.8	19.8
82.5°	0.0	0.0	0.0	0.0	1.0	6.9	9.9	12.9	14.8	13.8	17.8
85°	0.0	0.0	0.0	0.0	3.0	5.9	4.0	2.0	1.0	1.0	3.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2548.9	2548.9	2548.9	2548.9	2548.9	2548.9	2548.9	2548.9	2548.9	2548.9
2.5°	2207.8	2278.0	2353.2	2381.8	2470.8	2538.0	2583.5	2681.4	2696.2	2697.2
5°	1773.8	1809.4	1937.9	1998.2	2130.7	2233.5	2343.3	2501.5	2607.3	2615.2
7.5°	1260.6	1359.5	1413.9	1571.1	1734.2	1895.4	2058.5	2242.4	2365.0	2368.0
10°	1014.4	1078.7	1175.6	1293.2	1430.7	1594.8	1812.3	2025.9	2150.5	2181.1
12.5°	816.7	929.4	1040.1	1161.7	1266.6	1390.1	1624.5	1909.2	2012.0	2073.3
15°	628.8	731.7	862.2	1004.5	1123.2	1288.3	1555.3	1880.5	2053.6	2074.3
17.5°	463.7	555.7	676.3	810.8	988.7	1223.0	1567.1	2025.9	2189.0	2223.6
20°	333.2	386.6	481.5	637.7	864.1	1146.9	1579.0	2173.2	2421.4	2480.7
22.5°	264.0	285.7	348.0	486.5	724.7	1066.8	1663.0	2455.0	2740.7	2826.8
25°	229.4	241.2	270.9	383.6	636.7	1058.9	1797.5	2793.1	3165.9	3228.2
27.5°	221.5	223.5	249.2	352.0	589.3	1006.5	1848.9	3033.4	3430.9	3494.1
30°	233.3	265.0	267.0	297.6	501.3	902.7	1875.6	3265.7	3655.3	3701.8
32.5°	201.7	191.8	198.7	230.4	441.0	842.4	1926.0	3468.4	3911.4	3944.0
35°	140.4	147.3	163.1	199.7	385.6	779.1	1938.9	3691.9	4154.6	4188.2
37.5°	129.5	133.5	146.3	170.1	339.1	743.5	1921.1	3855.0	4406.7	4453.2
40°	120.6	125.6	132.5	154.2	304.5	704.0	1896.4	4002.3	4561.0	4675.7
42.5°	113.7	117.7	123.6	147.3	274.9	664.4	1861.8	4210.0	4699.4	4799.3
45°	105.8	111.7	118.6	143.4	258.1	637.7	1836.1	4197.1	4779.5	4832.9
47.5°	97.9	107.8	115.7	133.5	253.1	624.9	1846.9	4148.7	4714.2	4677.6
50°	90.0	102.8	116.7	110.7	241.2	599.2	1859.8	4214.9	4559.0	4552.1
52.5°	83.1	97.9	108.8	91.0	214.6	574.4	1984.4	4301.9	4668.7	4576.8
55°	73.2	88.0	87.0	73.2	174.0	555.7	2082.2	4303.9	4594.6	4629.2
57.5°	66.2	78.1	68.2	61.3	128.5	464.7	1923.1	3608.8	3933.1	3994.4
60°	61.3	76.1	51.4	48.4	84.0	335.2	1678.8	2795.1	3126.3	3242.0
62.5°	56.4	72.2	40.5	39.5	58.3	238.3	1380.3	2339.3	2694.3	2851.5
65°	49.4	51.4	32.6	30.7	41.5	128.5	840.4	1610.6	2014.0	2072.4
67.5°	40.5	39.5	26.7	24.7	27.7	62.3	370.8	806.8	1167.7	1265.6
70°	32.6	32.6	22.7	19.8	19.8	28.7	96.9	321.3	528.0	584.3
72.5°	23.7	24.7	17.8	15.8	14.8	13.8	15.8	64.3	138.4	177.0
75°	20.8	21.8	17.8	13.8	10.9	8.9	6.9	5.9	7.9	12.9
77.5°	22.7	22.7	18.8	12.9	9.9	6.9	4.0	2.0	2.0	1.0
80°	28.7	29.7	24.7	16.8	11.9	7.9	4.9	2.0	1.0	1.0
82.5°	30.7	33.6	27.7	20.8	14.8	8.9	4.9	1.0	0.0	0.0
85°	7.9	12.9	21.8	18.8	14.8	8.9	4.9	1.0	0.0	0.0
87.5°	0.0	1.0	3.0	3.0	4.0	4.0	3.0	1.0	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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