

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: P527117

Luminaire Tested: **GALN-SA2A-760-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527117
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-SA2A-760-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 615mA 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: 5084 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G0

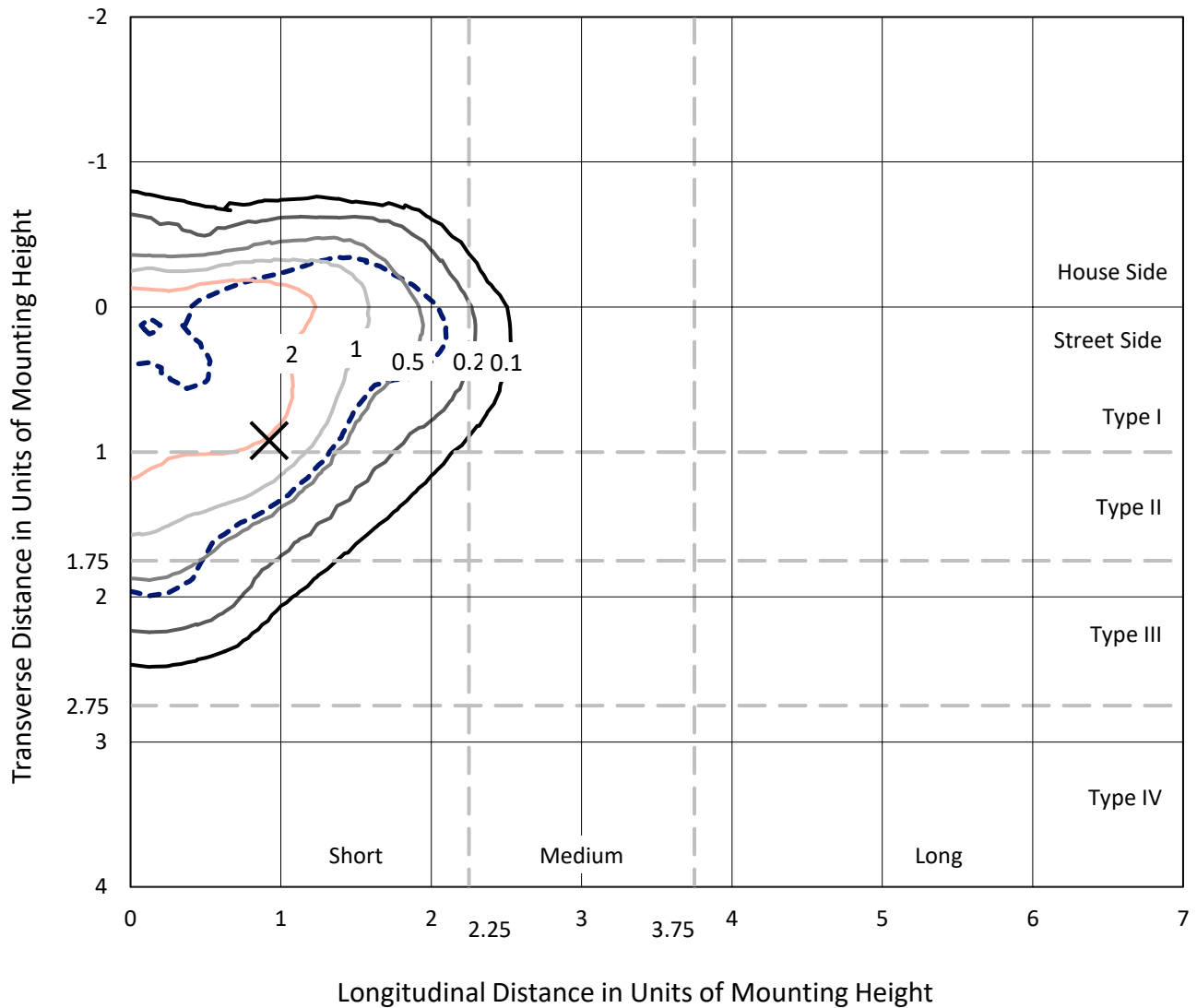
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

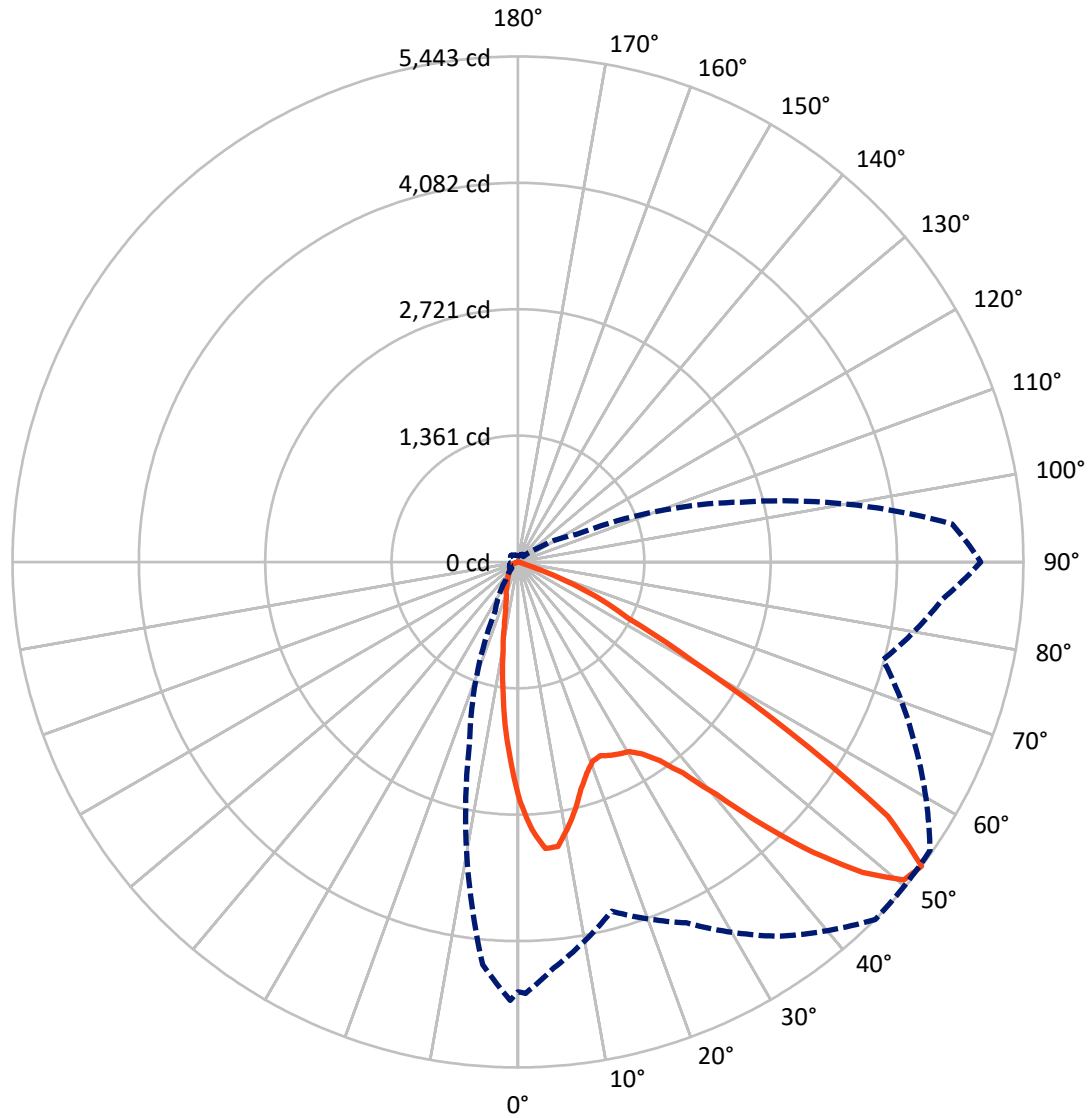
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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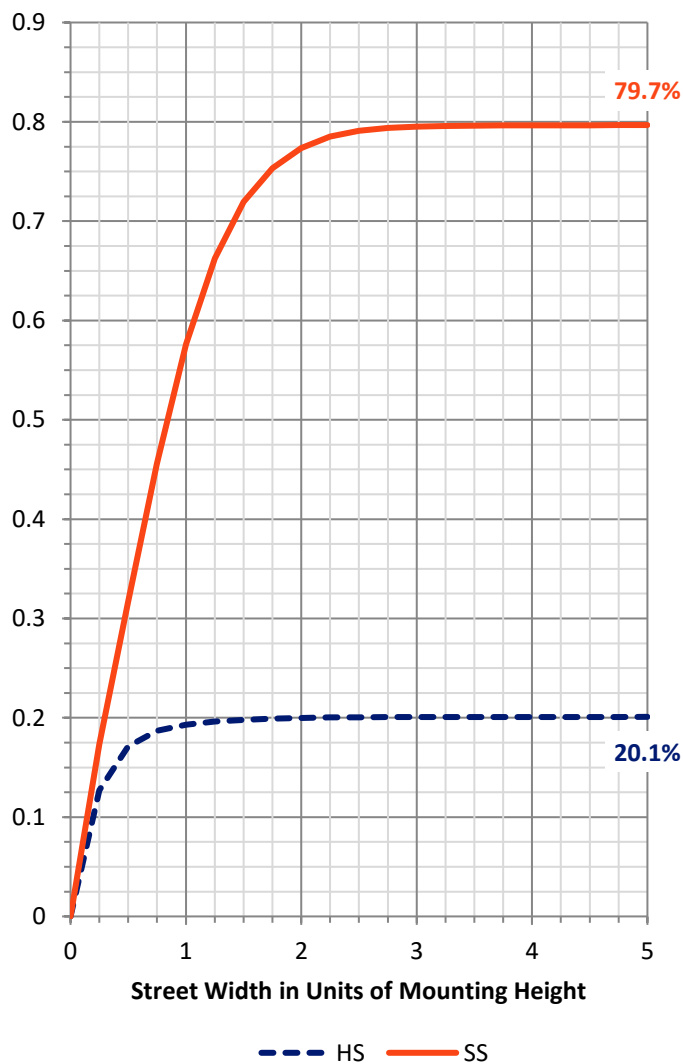
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1031.8	0.0	1031.8
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	4052.2	0.0	4052.2
	% Fixture	79.7	0.0	79.7
Total	Lumens	5084.0	0.0	5084.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.0	3.7
10°-20°	370.9	7.3
20°-30°	564.5	11.1
30°-40°	843.7	16.6
40°-50°	1201.5	23.6
50°-60°	1291.5	25.4
60°-70°	572.3	11.3
70°-80°	46.3	0.9
80°-90°	5.4	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°	5084.0	100.0
0°-180°	5084.0	100.0

Coefficient of Utilization



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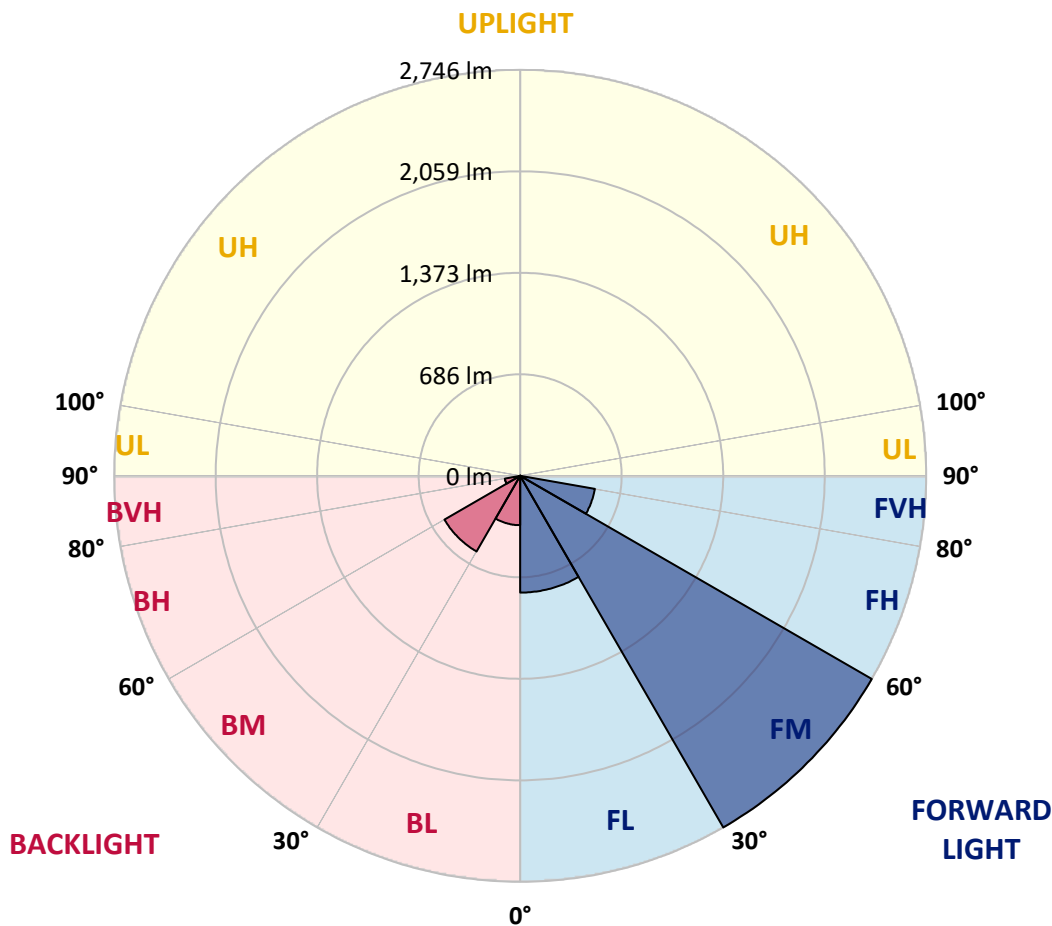
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	789.6	15.5			
FM (30°-60°)	2745.5	54.0			
FH (60°-80°)	513.0	10.1			G0/660
FVH (80°-90°)	4.0	0.1			G0/10
BL (0°-30°)	333.7	6.6	B1/500		
BM (30°-60°)	591.1	11.6	B1/1000		
BH (60°-80°)	105.6	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°	2577.8	2577.8	2577.8	2577.8	2577.8	2577.8	2577.8	2577.8	2577.8	2577.8	2577.8
2.5°	2727.8	2735.8	2779.8	2834.8	2863.8	2929.8	2883.8	2895.8	2870.8	2782.8	2713.8
5°	2644.8	2643.8	2699.8	2835.8	2964.8	3095.8	3099.8	3029.8	2906.8	2771.8	2578.8
7.5°	2394.8	2433.8	2491.8	2708.8	2947.8	3045.8	3092.8	3010.8	2821.8	2628.8	2419.8
10°	2205.8	2225.8	2323.8	2585.8	2760.8	2891.8	2920.8	2873.8	2728.8	2487.8	2253.8
12.5°	2096.9	2106.9	2221.8	2441.8	2626.8	2723.8	2737.8	2759.8	2655.8	2429.8	2148.9
15°	2097.9	2105.9	2260.8	2444.8	2517.8	2491.8	2537.8	2536.8	2581.8	2418.8	2236.8
17.5°	2248.8	2257.8	2397.8	2488.8	2456.8	2395.8	2392.8	2438.8	2533.8	2555.8	2369.8
20°	2508.8	2529.8	2632.8	2627.8	2447.8	2324.8	2290.8	2325.8	2546.8	2671.8	2637.8
22.5°	2858.8	2887.8	2959.8	2821.8	2488.8	2276.8	2265.8	2333.8	2632.8	2930.8	2941.8
25°	3264.8	3313.8	3348.8	3171.8	2634.8	2359.8	2307.8	2424.8	2748.8	3211.8	3328.8
27.5°	3533.8	3584.8	3576.8	3323.8	2732.8	2381.8	2337.8	2446.8	2849.8	3278.8	3530.8
30°	3743.7	3774.7	3830.7	3405.8	2830.8	2443.8	2368.8	2539.8	2882.8	3394.8	3774.7
32.5°	3988.7	4009.7	4013.7	3550.8	2981.8	2521.8	2464.8	2655.8	3028.8	3505.8	3990.7
35°	4235.7	4266.7	4201.7	3729.7	3074.8	2666.8	2624.8	2856.8	3145.8	3620.8	4228.7
37.5°	4503.7	4519.7	4369.7	3803.7	3207.8	2902.8	2879.8	3073.8	3348.8	3828.7	4492.7
40°	4728.7	4743.7	4548.7	3894.7	3347.8	3232.8	3291.8	3487.8	3624.8	3963.7	4624.7
42.5°	4853.7	4888.7	4608.7	3844.7	3628.8	3606.8	3868.7	3937.7	3944.7	4001.7	4742.7
45°	4887.7	4871.7	4509.7	3885.7	3874.7	4221.7	4459.7	4550.7	4262.7	4071.7	4772.7
47.5°	4730.7	4751.7	4363.7	3849.7	4197.7	4687.7	4995.7	5164.6	4499.7	4010.7	4698.7
50°	4603.7	4576.7	4316.7	3823.7	4284.7	4907.7	5382.6	5420.6	4717.7	4085.7	4617.7
52.5°	4628.7	4645.7	4391.7	3892.7	4286.7	4920.7	5442.6	5416.6	4724.7	4068.7	4588.7
55°	4681.7	4606.7	4359.7	3740.7	3999.7	4557.7	4830.7	4790.7	4360.7	3887.7	4517.7
57.5°	4039.7	4155.7	4008.7	3339.8	3282.8	3433.8	3428.8	3551.8	3252.8	3345.8	4112.7
60°	3278.8	3298.8	3353.8	2856.8	2271.8	2219.8	2147.9	2069.9	2188.9	2860.8	3740.7
62.5°	2883.8	2859.8	3055.8	2598.8	1603.9	1342.9	1330.9	1378.9	1688.9	2728.8	3508.8
65°	2095.9	2125.9	2267.8	2016.9	1203.9	1024.9	1006.9	1148.9	1366.9	2186.9	2677.8
67.5°	1279.9	1337.9	1350.9	1243.9	816.9	649.0	623.0	751.9	986.9	1414.9	1569.9
70°	591.0	661.0	727.0	679.0	473.0	267.0	252.0	316.0	498.0	813.9	832.9
72.5°	179.0	180.0	252.0	263.0	153.0	60.0	53.0	70.0	169.0	269.0	283.0
75°	13.0	14.0	34.0	39.0	29.0	15.0	16.0	19.0	36.0	60.0	45.0
77.5°	1.0	1.0	1.0	5.0	9.0	10.0	13.0	15.0	19.0	22.0	20.0
80°	1.0	0.0	1.0	4.0	7.0	10.0	12.0	14.0	15.0	17.0	15.0
82.5°	0.0	0.0	0.0	3.0	7.0	10.0	11.0	15.0	17.0	20.0	17.0
85°	0.0	0.0	0.0	3.0	7.0	11.0	10.0	5.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2577.8	2577.8	2577.8	2577.8	2577.8	2577.8	2577.8	2577.8	2577.8	2577.8	2577.8
2.5°	2725.8	2686.8	2597.8	2552.8	2446.8	2431.8	2327.8	2310.8	2275.8	2256.8	2210.8
5°	2493.8	2446.8	2301.8	2179.9	2037.9	1938.9	1862.9	1793.9	1753.9	1716.9	1733.9
7.5°	2304.8	2167.9	2006.9	1802.9	1638.9	1532.9	1416.9	1321.9	1265.9	1227.9	1236.9
10°	2106.9	2017.9	1793.9	1564.9	1366.9	1291.9	1200.9	1127.9	1048.9	980.9	948.9
12.5°	2044.9	1912.9	1631.9	1398.9	1248.9	1175.9	1071.9	987.9	886.9	803.9	774.9
15°	2055.9	1928.9	1587.9	1338.9	1161.9	1035.9	911.9	807.9	697.0	639.0	609.0
17.5°	2234.8	2014.9	1616.9	1275.9	1040.9	865.9	713.0	581.0	498.0	438.0	425.0
20°	2454.8	2200.9	1678.9	1229.9	941.9	689.0	521.0	407.0	338.0	328.0	325.0
22.5°	2776.8	2504.8	1811.9	1198.9	820.9	537.0	357.0	296.0	277.0	275.0	276.0
25°	3226.8	2885.8	1956.9	1172.9	730.0	414.0	292.0	251.0	245.0	242.0	247.0
27.5°	3421.8	3115.8	2033.9	1116.9	647.0	373.0	288.0	249.0	232.0	227.0	230.0
30°	3662.8	3268.8	2154.9	1020.9	525.0	307.0	269.0	271.0	263.0	238.0	230.0
32.5°	3982.7	3459.8	2215.8	952.9	469.0	254.0	197.0	181.0	202.0	206.0	213.0
35°	4187.7	3653.8	2246.8	912.9	440.0	217.0	167.0	152.0	147.0	148.0	152.0
37.5°	4568.7	3915.7	2285.8	870.9	418.0	189.0	151.0	137.0	130.0	130.0	134.0
40°	4796.7	4123.7	2338.8	847.9	396.0	172.0	137.0	125.0	119.0	119.0	121.0
42.5°	4853.7	4226.7	2320.8	839.9	371.0	168.0	125.0	116.0	109.0	108.0	107.0
45°	4955.7	4383.7	2323.8	830.9	345.0	153.0	118.0	108.0	98.0	97.0	96.0
47.5°	5067.7	4496.7	2329.8	795.9	320.0	128.0	123.0	100.0	88.0	86.0	86.0
50°	4971.7	4586.7	2381.8	760.9	288.0	104.0	121.0	94.0	78.0	75.0	76.0
52.5°	4983.7	4692.7	2491.8	712.0	248.0	83.0	98.0	89.0	71.0	66.0	67.0
55°	4791.7	4580.7	2506.8	660.0	194.0	64.0	75.0	78.0	60.0	58.0	58.0
57.5°	4124.7	3878.7	2211.8	535.0	128.0	53.0	54.0	68.0	52.0	50.0	51.0
60°	3529.8	3113.8	1779.9	353.0	80.0	42.0	39.0	69.0	46.0	45.0	48.0
62.5°	3217.8	2558.8	1349.9	219.0	55.0	32.0	27.0	56.0	40.0	40.0	44.0
65°	2324.8	1718.9	784.9	115.0	39.0	25.0	20.0	32.0	33.0	34.0	36.0
67.5°	1439.9	867.9	331.0	56.0	26.0	17.0	13.0	20.0	22.0	22.0	24.0
70°	711.0	346.0	110.0	32.0	20.0	14.0	9.0	11.0	11.0	10.0	11.0
72.5°	220.0	104.0	28.0	20.0	14.0	9.0	5.0	4.0	2.0	0.0	1.0
75°	25.0	20.0	18.0	14.0	9.0	4.0	1.0	0.0	0.0	0.0	0.0
77.5°	15.0	17.0	17.0	14.0	9.0	3.0	0.0	0.0	0.0	0.0	0.0
80°	12.0	13.0	14.0	13.0	8.0	4.0	0.0	0.0	0.0	0.0	0.0
82.5°	15.0	17.0	19.0	17.0	11.0	5.0	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°	2577.8	2577.8	2577.8	2577.8	2577.8	2577.8	2577.8	2577.8	2577.8	2577.8	2577.8
2.5°	2191.9	2169.9	2200.9	2154.9	2153.9	2154.9	2141.9	2129.9	2148.9	2199.9	2204.8
5°	1672.9	1719.9	1734.9	1783.9	1756.9	1716.9	1724.9	1697.9	1763.9	1792.9	1769.9
7.5°	1217.9	1214.9	1315.9	1321.9	1334.9	1335.9	1333.9	1280.9	1226.9	1238.9	1274.9
10°	944.9	893.9	942.9	937.9	969.9	960.9	973.9	916.9	935.9	935.9	958.9
12.5°	769.9	716.0	707.0	694.0	707.0	712.0	717.0	706.0	737.9	752.9	768.9
15°	588.0	558.0	550.0	525.0	529.0	543.0	555.0	560.0	550.0	573.0	575.0
17.5°	427.0	426.0	431.0	430.0	426.0	423.0	422.0	409.0	405.0	407.0	415.0
20°	324.0	332.0	349.0	366.0	375.0	364.0	349.0	327.0	318.0	320.0	321.0
22.5°	277.0	289.0	312.0	331.0	340.0	320.0	293.0	274.0	270.0	269.0	268.0
25°	251.0	265.0	282.0	288.0	287.0	275.0	255.0	247.0	245.0	243.0	234.0
27.5°	237.0	242.0	245.0	252.0	255.0	247.0	242.0	230.0	228.0	228.0	222.0
30°	229.0	226.0	230.0	225.0	229.0	223.0	224.0	224.0	219.0	221.0	221.0
32.5°	213.0	214.0	214.0	204.0	207.0	200.0	207.0	213.0	214.0	215.0	223.0
35°	156.0	174.0	183.0	183.0	186.0	181.0	180.0	173.0	164.0	155.0	151.0
37.5°	137.0	144.0	156.0	163.0	168.0	164.0	155.0	144.0	139.0	135.0	131.0
40°	122.0	128.0	136.0	144.0	154.0	149.0	135.0	130.0	124.0	124.0	120.0
42.5°	110.0	113.0	118.0	130.0	141.0	131.0	121.0	117.0	114.0	113.0	112.0
45°	99.0	100.0	105.0	115.0	128.0	118.0	108.0	103.0	104.0	105.0	104.0
47.5°	89.0	91.0	94.0	106.0	114.0	109.0	98.0	95.0	95.0	95.0	96.0
50°	77.0	82.0	88.0	98.0	104.0	101.0	92.0	88.0	86.0	86.0	87.0
52.5°	69.0	73.0	81.0	93.0	101.0	96.0	87.0	81.0	77.0	76.0	78.0
55°	60.0	67.0	80.0	89.0	100.0	95.0	85.0	78.0	71.0	70.0	70.0
57.5°	54.0	65.0	77.0	88.0	97.0	93.0	85.0	76.0	67.0	66.0	66.0
60°	51.0	63.0	75.0	85.0	97.0	91.0	84.0	74.0	64.0	64.0	63.0
62.5°	48.0	59.0	71.0	81.0	93.0	88.0	81.0	71.0	61.0	61.0	59.0
65°	40.0	51.0	59.0	68.0	81.0	76.0	69.0	62.0	54.0	52.0	53.0
67.5°	28.0	35.0	43.0	52.0	60.0	58.0	55.0	50.0	43.0	42.0	41.0
70°	14.0	19.0	26.0	35.0	42.0	40.0	38.0	34.0	30.0	29.0	29.0
72.5°	2.0	6.0	11.0	16.0	22.0	23.0	22.0	21.0	20.0	19.0	20.0
75°	0.0	0.0	0.0	4.0	9.0	11.0	13.0	15.0	15.0	13.0	16.0
77.5°	0.0	0.0	0.0	0.0	1.0	5.0	10.0	13.0	16.0	14.0	19.0
80°	0.0	0.0	0.0	0.0	1.0	6.0	10.0	14.0	16.0	14.0	20.0
82.5°	0.0	0.0	0.0	0.0	1.0	7.0	10.0	13.0	15.0	14.0	18.0
85°	0.0	0.0	0.0	0.0	3.0	6.0	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°	2577.8	2577.8	2577.8	2577.8	2577.8	2577.8	2577.8	2577.8	2577.8	2577.8
2.5°	2232.8	2303.8	2379.8	2408.8	2498.8	2566.8	2612.8	2711.8	2726.8	2727.8
5°	1793.9	1829.9	1959.9	2020.9	2154.9	2258.8	2369.8	2529.8	2636.8	2644.8
7.5°	1274.9	1374.9	1429.9	1588.9	1753.9	1916.9	2081.9	2267.8	2391.8	2394.8
10°	1025.9	1090.9	1188.9	1307.9	1446.9	1612.9	1832.9	2048.9	2174.9	2205.8
12.5°	825.9	939.9	1051.9	1174.9	1280.9	1405.9	1642.9	1930.9	2034.9	2096.9
15°	636.0	739.9	871.9	1015.9	1135.9	1302.9	1572.9	1901.9	2076.9	2097.9
17.5°	469.0	562.0	684.0	819.9	999.9	1236.9	1584.9	2048.9	2213.8	2248.8
20°	337.0	391.0	487.0	645.0	873.9	1159.9	1596.9	2197.9	2448.8	2508.8
22.5°	267.0	289.0	352.0	492.0	733.0	1078.9	1681.9	2482.8	2771.8	2858.8
25°	232.0	244.0	274.0	388.0	644.0	1070.9	1817.9	2824.8	3201.8	3264.8
27.5°	224.0	226.0	252.0	356.0	596.0	1017.9	1869.9	3067.8	3469.8	3533.8
30°	236.0	268.0	270.0	301.0	507.0	912.9	1896.9	3302.8	3696.7	3743.7
32.5°	204.0	194.0	201.0	233.0	446.0	851.9	1947.9	3507.8	3955.7	3988.7
35°	142.0	149.0	165.0	202.0	390.0	787.9	1960.9	3733.7	4201.7	4235.7
37.5°	131.0	135.0	148.0	172.0	343.0	751.9	1942.9	3898.7	4456.7	4503.7
40°	122.0	127.0	134.0	156.0	308.0	712.0	1917.9	4047.7	4612.7	4728.7
42.5°	115.0	119.0	125.0	149.0	278.0	672.0	1882.9	4257.7	4752.7	4853.7
45°	107.0	113.0	120.0	145.0	261.0	645.0	1856.9	4244.7	4833.7	4887.7
47.5°	99.0	109.0	117.0	135.0	256.0	632.0	1867.9	4195.7	4767.7	4730.7
50°	91.0	104.0	118.0	112.0	244.0	606.0	1880.9	4262.7	4610.7	4603.7
52.5°	84.0	99.0	110.0	92.0	217.0	581.0	2006.9	4350.7	4721.7	4628.7
55°	74.0	89.0	88.0	74.0	176.0	562.0	2105.9	4352.7	4646.7	4681.7
57.5°	67.0	79.0	69.0	62.0	130.0	470.0	1944.9	3649.8	3977.7	4039.7
60°	62.0	77.0	52.0	49.0	85.0	339.0	1697.9	2826.8	3161.8	3278.8
62.5°	57.0	73.0	41.0	40.0	59.0	241.0	1395.9	2365.8	2724.8	2883.8
65°	50.0	52.0	33.0	31.0	42.0	130.0	849.9	1628.9	2036.9	2095.9
67.5°	41.0	40.0	27.0	25.0	28.0	63.0	375.0	815.9	1180.9	1279.9
70°	33.0	33.0	23.0	20.0	20.0	29.0	98.0	325.0	534.0	591.0
72.5°	24.0	25.0	18.0	16.0	15.0	14.0	16.0	65.0	140.0	179.0
75°	21.0	22.0	18.0	14.0	11.0	9.0	7.0	6.0	8.0	13.0
77.5°	23.0	23.0	19.0	13.0	10.0	7.0	4.0	2.0	2.0	1.0
80°	29.0	30.0	25.0	17.0	12.0	8.0	5.0	2.0	1.0	1.0
82.5°	31.0	34.0	28.0	21.0	15.0	9.0	5.0	1.0	0.0	0.0
85°	8.0	13.0	22.0	19.0	15.0	9.0	5.0	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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