

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: P528105

Luminaire Tested: **GALN-SA3A-830-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528105
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-SA3A-830-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 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: 5997 lumens
Efficiency: N/A
Efficacy: 64.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

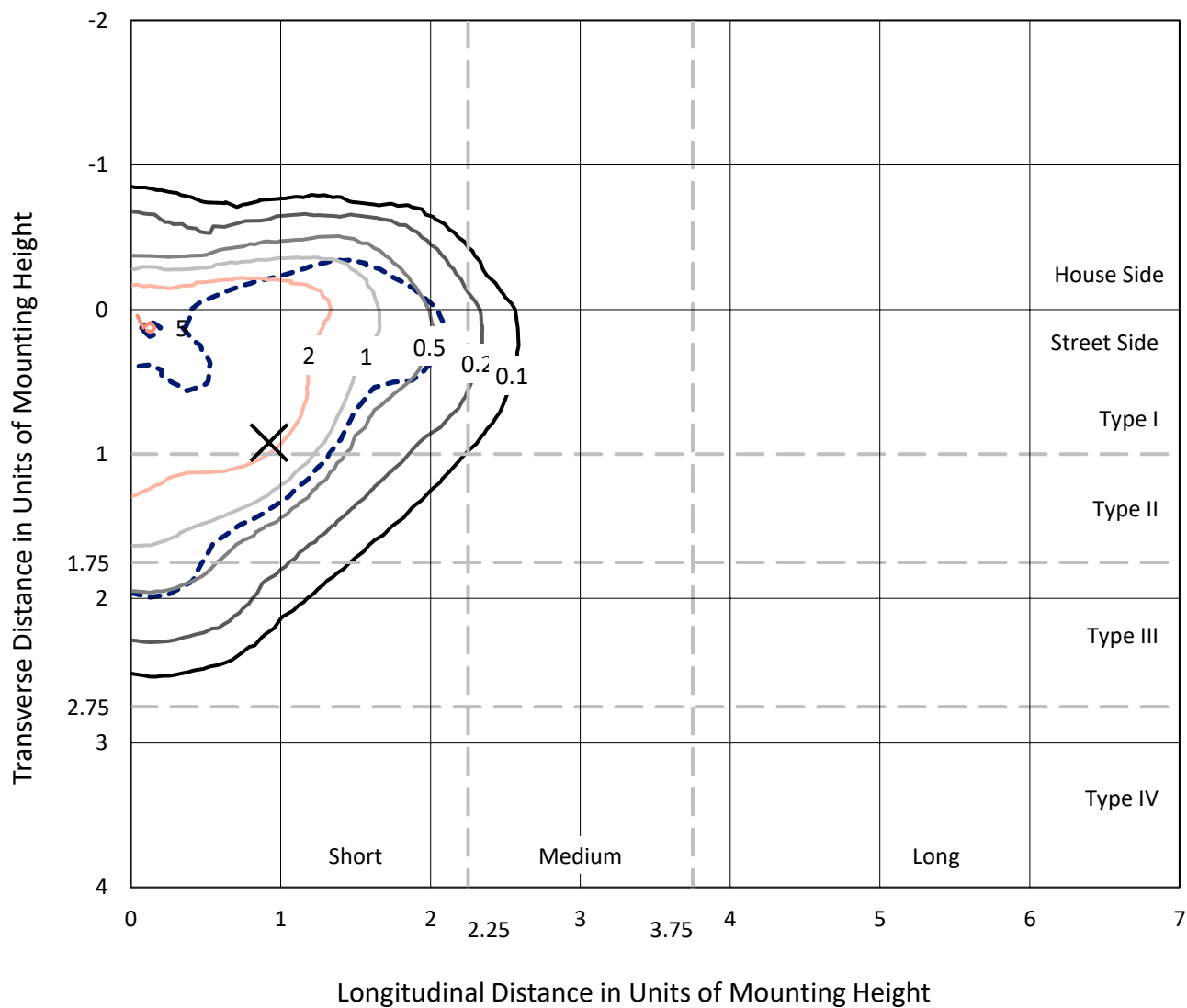
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

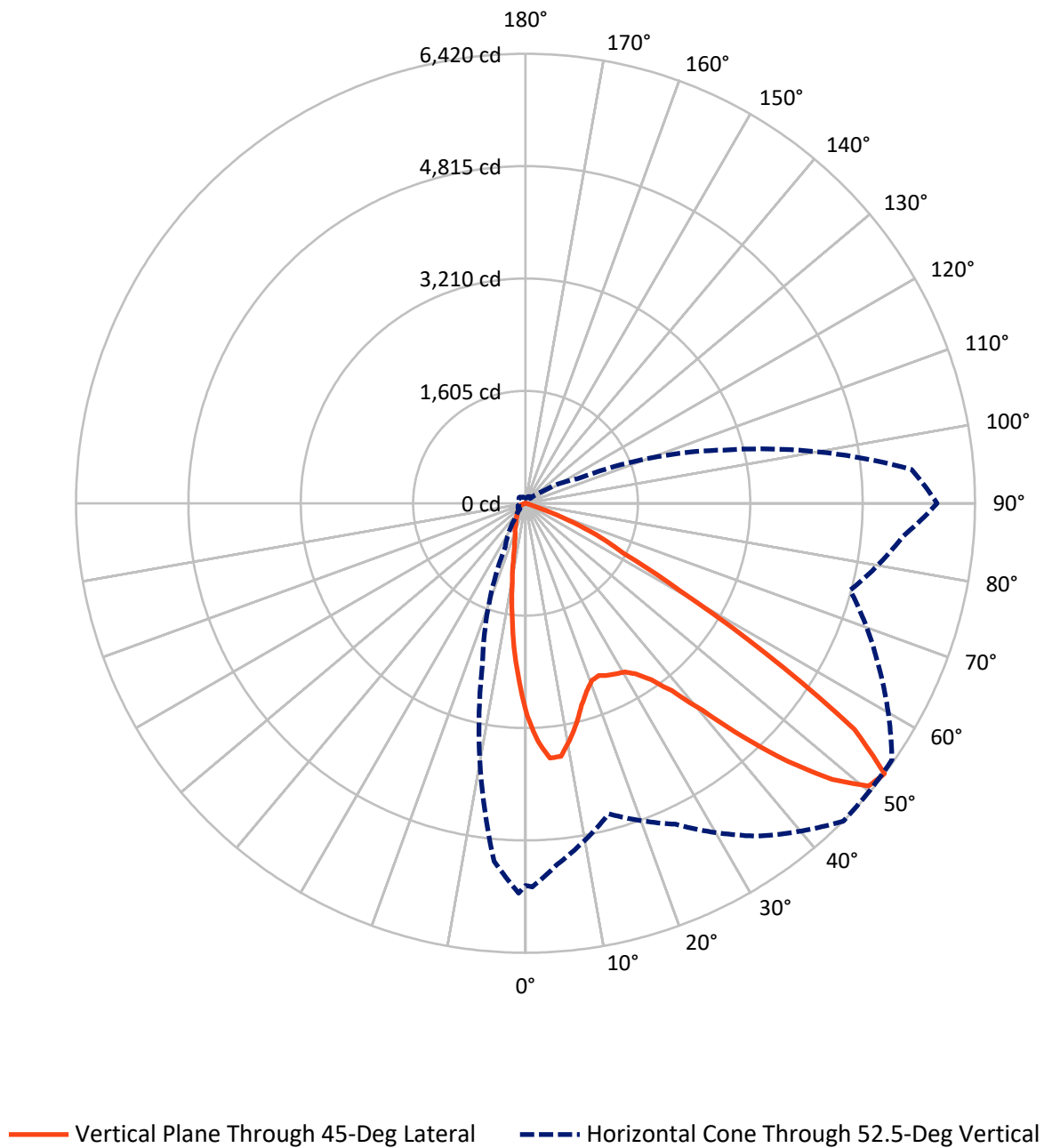
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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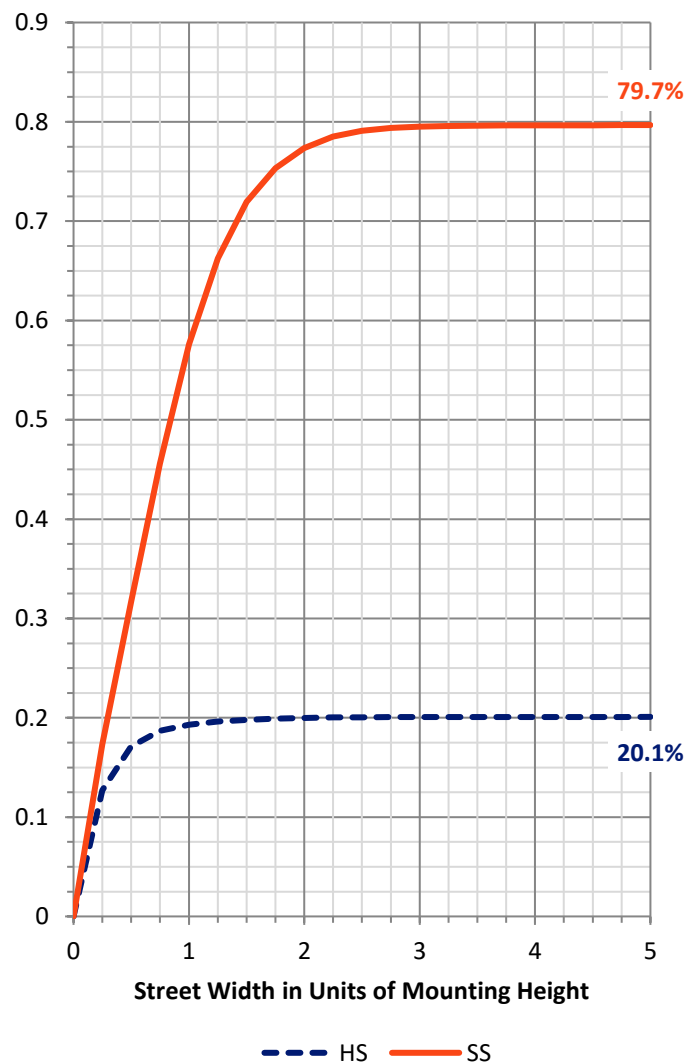
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1217.1	0.0	1217.1
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	4779.9	0.0	4779.9
	% Fixture	79.7	0.0	79.7
Total	Lumens	5997.0	0.0	5997.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.8	3.7
10°-20°	437.5	7.3
20°-30°	665.8	11.1
30°-40°	995.2	16.6
40°-50°	1417.2	23.6
50°-60°	1523.5	25.4
60°-70°	675.1	11.3
70°-80°	54.6	0.9
80°-90°	6.4	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°	5997.0	100.0
0°-180°	5997.0	100.0

Coefficient of Utilization



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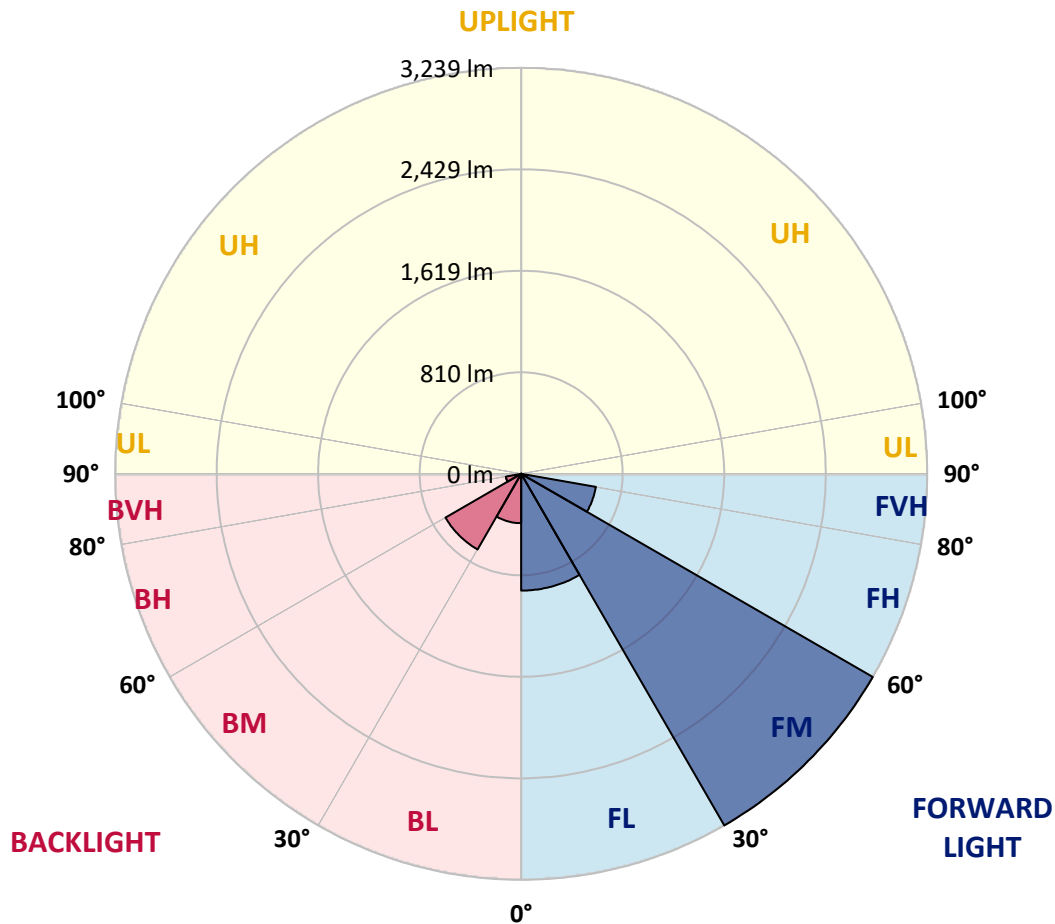
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	931.5	15.5			
FM	(30°-60°)	3238.6	54.0			
FH	(60°-80°)	605.2	10.1			G0/660
FVH	(80°-90°)	4.7	0.1			G0/10
BL	(0°-30°)	393.7	6.6	B1/500		
BM	(30°-60°)	697.3	11.6	B1/1000		
BH	(60°-80°)	124.5	2.1	B1/500		G1/500
BVH	(80°-90°)	1.7	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3040.8	3040.8	3040.8	3040.8	3040.8	3040.8	3040.8	3040.8	3040.8	3040.8	3040.8
2.5°	3217.7	3227.1	3279.0	3343.9	3378.1	3455.9	3401.7	3415.8	3386.4	3282.6	3201.2
5°	3119.8	3118.6	3184.7	3345.1	3497.2	3651.7	3656.5	3573.9	3428.8	3269.6	3041.9
7.5°	2824.9	2870.9	2939.3	3195.3	3477.2	3592.8	3648.2	3551.5	3328.6	3100.9	2854.4
10°	2602.0	2625.6	2741.2	3050.2	3256.6	3411.1	3445.3	3389.9	3218.9	2934.6	2658.6
12.5°	2473.4	2485.2	2620.9	2880.3	3098.6	3213.0	3229.5	3255.4	3132.8	2866.2	2534.8
15°	2474.6	2484.0	2666.9	2883.9	2970.0	2939.3	2993.6	2992.4	3045.5	2853.2	2638.5
17.5°	2652.7	2663.3	2828.4	2935.8	2898.0	2826.1	2822.5	2876.8	2988.9	3014.8	2795.4
20°	2959.4	2984.1	3105.6	3099.7	2887.4	2742.3	2702.2	2743.5	3004.2	3151.6	3111.5
22.5°	3372.2	3406.4	3491.3	3328.6	2935.8	2685.7	2672.8	2753.0	3105.6	3457.1	3470.1
25°	3851.1	3908.9	3950.2	3741.4	3108.0	2783.6	2722.3	2860.3	3242.5	3788.6	3926.6
27.5°	4168.4	4228.5	4219.1	3920.7	3223.6	2809.6	2757.7	2886.2	3361.6	3867.6	4164.8
30°	4416.1	4452.6	4518.7	4017.4	3339.2	2882.7	2794.2	2995.9	3400.5	4004.4	4452.6
32.5°	4705.0	4729.8	4734.5	4188.4	3517.3	2974.7	2907.5	3132.8	3572.7	4135.3	4707.4
35°	4996.4	5032.9	4956.3	4399.5	3627.0	3145.7	3096.2	3369.8	3710.7	4271.0	4988.1
37.5°	5312.5	5331.4	5154.4	4486.8	3783.8	3424.1	3397.0	3625.8	3950.2	4516.3	5299.5
40°	5577.9	5595.6	5365.6	4594.2	3949.0	3813.3	3882.9	4114.1	4275.7	4675.5	5455.2
42.5°	5725.3	5766.6	5436.3	4535.2	4280.4	4254.5	4563.5	4644.9	4653.1	4720.4	5594.4
45°	5765.4	5746.5	5319.6	4583.5	4570.6	4979.9	5260.6	5367.9	5028.2	4802.9	5629.8
47.5°	5580.2	5605.0	5147.3	4541.1	4951.6	5529.5	5892.8	6092.1	5307.8	4731.0	5542.5
50°	5430.4	5398.6	5091.9	4510.4	5054.2	5789.0	6349.3	6394.1	5564.9	4819.4	5446.9
52.5°	5459.9	5480.0	5180.4	4591.8	5056.5	5804.3	6420.0	6389.4	5573.1	4799.4	5412.7
55°	5522.4	5434.0	5142.6	4412.5	4718.0	5376.2	5698.2	5651.0	5143.8	4585.9	5329.0
57.5°	4765.2	4902.0	4728.6	3939.5	3872.3	4050.4	4044.5	4189.6	3836.9	3946.6	4851.3
60°	3867.6	3891.2	3956.1	3369.8	2679.8	2618.5	2533.6	2441.6	2581.9	3374.6	4412.5
62.5°	3401.7	3373.4	3604.6	3065.5	1891.9	1584.1	1569.9	1626.5	1992.2	3218.9	4138.9
65°	2472.2	2507.6	2675.1	2379.1	1420.1	1209.0	1187.8	1355.2	1612.4	2579.6	3158.7
67.5°	1509.8	1578.2	1593.5	1467.3	963.7	765.5	734.8	887.0	1164.2	1669.0	1851.8
70°	697.1	779.7	857.5	800.9	557.9	314.9	297.2	372.7	587.4	960.1	982.5
72.5°	211.1	212.3	297.2	310.2	180.5	70.8	62.5	82.6	199.3	317.3	333.8
75°	15.3	16.5	40.1	46.0	34.2	17.7	18.9	22.4	42.5	70.8	53.1
77.5°	1.2	1.2	1.2	5.9	10.6	11.8	15.3	17.7	22.4	25.9	23.6
80°	1.2	0.0	1.2	4.7	8.3	11.8	14.2	16.5	17.7	20.1	17.7
82.5°	0.0	0.0	0.0	3.5	8.3	11.8	13.0	17.7	20.1	23.6	20.1
85°	0.0	0.0	0.0	3.5	8.3	13.0	11.8	5.9	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°	3040.8	3040.8	3040.8	3040.8	3040.8	3040.8	3040.8	3040.8	3040.8	3040.8	3040.8
2.5°	3215.3	3169.3	3064.3	3011.3	2886.2	2868.6	2745.9	2725.8	2684.5	2662.1	2607.9
5°	2941.7	2886.2	2715.2	2571.3	2403.8	2287.1	2197.4	2116.0	2068.8	2025.2	2045.3
7.5°	2718.8	2557.2	2367.3	2126.6	1933.2	1808.2	1671.4	1559.3	1493.3	1448.4	1459.0
10°	2485.2	2380.2	2116.0	1845.9	1612.4	1523.9	1416.6	1330.5	1237.3	1157.1	1119.3
12.5°	2412.1	2256.4	1924.9	1650.1	1473.2	1387.1	1264.4	1165.3	1046.2	948.3	914.1
15°	2425.1	2275.3	1873.1	1579.4	1370.6	1222.0	1075.7	953.0	822.1	753.7	718.3
17.5°	2636.2	2376.7	1907.3	1505.0	1227.9	1021.4	841.0	685.3	587.4	516.6	501.3
20°	2895.7	2596.1	1980.4	1450.8	1111.1	812.7	614.5	480.1	398.7	386.9	383.3
22.5°	3275.5	2954.7	2137.3	1414.2	968.4	633.4	421.1	349.1	326.7	324.4	325.5
25°	3806.3	3404.0	2308.3	1383.6	861.0	488.3	344.4	296.1	289.0	285.4	291.3
27.5°	4036.3	3675.3	2399.1	1317.5	763.1	440.0	339.7	293.7	273.6	267.7	271.3
30°	4320.5	3855.8	2541.8	1204.3	619.2	362.1	317.3	319.6	310.2	280.7	271.3
32.5°	4698.0	4081.1	2613.8	1124.1	553.2	299.6	232.4	213.5	238.3	243.0	251.2
35°	4939.8	4309.9	2650.3	1076.9	519.0	256.0	197.0	179.3	173.4	174.6	179.3
37.5°	5389.1	4618.9	2696.3	1027.3	493.0	222.9	178.1	161.6	153.3	153.3	158.1
40°	5658.1	4864.3	2758.9	1000.2	467.1	202.9	161.6	147.4	140.4	140.4	142.7
42.5°	5725.3	4985.8	2737.6	990.8	437.6	198.2	147.4	136.8	128.6	127.4	126.2
45°	5845.6	5170.9	2741.2	980.2	406.9	180.5	139.2	127.4	115.6	114.4	113.2
47.5°	5977.7	5304.2	2748.2	938.9	377.4	151.0	145.1	118.0	103.8	101.4	101.4
50°	5864.5	5410.4	2809.6	897.6	339.7	122.7	142.7	110.9	92.0	88.5	89.6
52.5°	5878.6	5535.4	2939.3	839.8	292.5	97.9	115.6	105.0	83.7	77.8	79.0
55°	5652.2	5403.3	2957.0	778.5	228.8	75.5	88.5	92.0	70.8	68.4	68.4
57.5°	4865.4	4575.3	2609.1	631.0	151.0	62.5	63.7	80.2	61.3	59.0	60.2
60°	4163.6	3673.0	2099.5	416.4	94.4	49.5	46.0	81.4	54.3	53.1	56.6
62.5°	3795.6	3018.3	1592.3	258.3	64.9	37.7	31.8	66.1	47.2	47.2	51.9
65°	2742.3	2027.6	925.9	135.6	46.0	29.5	23.6	37.7	38.9	40.1	42.5
67.5°	1698.5	1023.8	390.4	66.1	30.7	20.1	15.3	23.6	25.9	25.9	28.3
70°	838.6	408.1	129.7	37.7	23.6	16.5	10.6	13.0	13.0	11.8	13.0
72.5°	259.5	122.7	33.0	23.6	16.5	10.6	5.9	4.7	2.4	0.0	1.2
75°	29.5	23.6	21.2	16.5	10.6	4.7	1.2	0.0	0.0	0.0	0.0
77.5°	17.7	20.1	20.1	16.5	10.6	3.5	0.0	0.0	0.0	0.0	0.0
80°	14.2	15.3	16.5	15.3	9.4	4.7	0.0	0.0	0.0	0.0	0.0
82.5°	17.7	20.1	22.4	20.1	13.0	5.9	2.4	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	3.5	1.2	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°	3040.8	3040.8	3040.8	3040.8	3040.8	3040.8	3040.8	3040.8	3040.8	3040.8	3040.8
2.5°	2585.5	2559.5	2596.1	2541.8	2540.6	2541.8	2526.5	2512.3	2534.8	2594.9	2600.8
5°	1973.3	2028.7	2046.4	2104.2	2072.4	2025.2	2034.6	2002.8	2080.6	2114.8	2087.7
7.5°	1436.6	1433.1	1552.2	1559.3	1574.6	1575.8	1573.5	1510.9	1447.2	1461.4	1503.9
10°	1114.6	1054.5	1112.3	1106.4	1144.1	1133.5	1148.8	1081.6	1104.0	1104.0	1131.1
12.5°	908.2	844.5	833.9	818.6	833.9	839.8	845.7	832.7	870.5	888.2	907.0
15°	693.5	658.2	648.7	619.2	624.0	640.5	654.6	660.5	648.7	675.9	678.2
17.5°	503.6	502.5	508.4	507.2	502.5	498.9	497.8	482.4	477.7	480.1	489.5
20°	382.2	391.6	411.6	431.7	442.3	429.3	411.6	385.7	375.1	377.4	378.6
22.5°	326.7	340.9	368.0	390.4	401.0	377.4	345.6	323.2	318.5	317.3	316.1
25°	296.1	312.6	332.6	339.7	338.5	324.4	300.8	291.3	289.0	286.6	276.0
27.5°	279.5	285.4	289.0	297.2	300.8	291.3	285.4	271.3	268.9	268.9	261.8
30°	270.1	266.6	271.3	265.4	270.1	263.0	264.2	264.2	258.3	260.7	260.7
32.5°	251.2	252.4	252.4	240.6	244.2	235.9	244.2	251.2	252.4	253.6	263.0
35°	184.0	205.2	215.8	215.8	219.4	213.5	212.3	204.1	193.4	182.8	178.1
37.5°	161.6	169.8	184.0	192.3	198.2	193.4	182.8	169.8	164.0	159.2	154.5
40°	143.9	151.0	160.4	169.8	181.6	175.7	159.2	153.3	146.3	146.3	141.5
42.5°	129.7	133.3	139.2	153.3	166.3	154.5	142.7	138.0	134.5	133.3	132.1
45°	116.8	118.0	123.8	135.6	151.0	139.2	127.4	121.5	122.7	123.8	122.7
47.5°	105.0	107.3	110.9	125.0	134.5	128.6	115.6	112.1	112.1	112.1	113.2
50°	90.8	96.7	103.8	115.6	122.7	119.1	108.5	103.8	101.4	101.4	102.6
52.5°	81.4	86.1	95.5	109.7	119.1	113.2	102.6	95.5	90.8	89.6	92.0
55°	70.8	79.0	94.4	105.0	118.0	112.1	100.3	92.0	83.7	82.6	82.6
57.5°	63.7	76.7	90.8	103.8	114.4	109.7	100.3	89.6	79.0	77.8	77.8
60°	60.2	74.3	88.5	100.3	114.4	107.3	99.1	87.3	75.5	75.5	74.3
62.5°	56.6	69.6	83.7	95.5	109.7	103.8	95.5	83.7	71.9	71.9	69.6
65°	47.2	60.2	69.6	80.2	95.5	89.6	81.4	73.1	63.7	61.3	62.5
67.5°	33.0	41.3	50.7	61.3	70.8	68.4	64.9	59.0	50.7	49.5	48.4
70°	16.5	22.4	30.7	41.3	49.5	47.2	44.8	40.1	35.4	34.2	34.2
72.5°	2.4	7.1	13.0	18.9	25.9	27.1	25.9	24.8	23.6	22.4	23.6
75°	0.0	0.0	0.0	4.7	10.6	13.0	15.3	17.7	17.7	15.3	18.9
77.5°	0.0	0.0	0.0	0.0	1.2	5.9	11.8	15.3	18.9	16.5	22.4
80°	0.0	0.0	0.0	0.0	1.2	7.1	11.8	16.5	18.9	16.5	23.6
82.5°	0.0	0.0	0.0	0.0	1.2	8.3	11.8	15.3	17.7	16.5	21.2
85°	0.0	0.0	0.0	0.0	3.5	7.1	4.7	2.4	1.2	1.2	3.5
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°	3040.8	3040.8	3040.8	3040.8	3040.8	3040.8	3040.8	3040.8	3040.8	3040.8
2.5°	2633.8	2717.6	2807.2	2841.4	2947.6	3027.8	3082.0	3198.8	3216.5	3217.7
5°	2116.0	2158.5	2311.8	2383.8	2541.8	2664.5	2795.4	2984.1	3110.3	3119.8
7.5°	1503.9	1621.8	1686.7	1874.2	2068.8	2261.1	2455.7	2675.1	2821.4	2824.9
10°	1210.2	1286.8	1402.4	1542.8	1706.7	1902.5	2162.0	2416.8	2565.4	2602.0
12.5°	974.3	1108.7	1240.8	1385.9	1510.9	1658.4	1937.9	2277.6	2400.3	2473.4
15°	750.2	872.8	1028.5	1198.4	1339.9	1536.9	1855.4	2243.4	2449.8	2474.6
17.5°	553.2	662.9	806.8	967.2	1179.5	1459.0	1869.5	2416.8	2611.4	2652.7
20°	397.5	461.2	574.4	760.8	1030.9	1368.2	1883.7	2592.5	2888.6	2959.4
22.5°	314.9	340.9	415.2	580.3	864.6	1272.7	1983.9	2928.7	3269.6	3372.2
25°	273.6	287.8	323.2	457.6	759.6	1263.2	2144.3	3332.1	3776.8	3851.1
27.5°	264.2	266.6	297.2	419.9	703.0	1200.7	2205.7	3618.7	4092.9	4168.4
30°	278.4	316.1	318.5	355.0	598.0	1076.9	2237.5	3895.9	4360.6	4416.1
32.5°	240.6	228.8	237.1	274.8	526.1	1004.9	2297.7	4137.7	4666.1	4705.0
35°	167.5	175.7	194.6	238.3	460.0	929.4	2313.0	4404.3	4956.3	4996.4
37.5°	154.5	159.2	174.6	202.9	404.6	887.0	2291.8	4598.9	5257.0	5312.5
40°	143.9	149.8	158.1	184.0	363.3	839.8	2262.3	4774.6	5441.0	5577.9
42.5°	135.6	140.4	147.4	175.7	327.9	792.6	2221.0	5022.3	5606.2	5725.3
45°	126.2	133.3	141.5	171.0	307.9	760.8	2190.3	5007.0	5701.7	5765.4
47.5°	116.8	128.6	138.0	159.2	302.0	745.4	2203.3	4949.2	5623.9	5580.2
50°	107.3	122.7	139.2	132.1	287.8	714.8	2218.6	5028.2	5438.7	5430.4
52.5°	99.1	116.8	129.7	108.5	256.0	685.3	2367.3	5132.0	5569.6	5459.9
55°	87.3	105.0	103.8	87.3	207.6	662.9	2484.0	5134.4	5481.1	5522.4
57.5°	79.0	93.2	81.4	73.1	153.3	554.4	2294.1	4305.2	4692.1	4765.2
60°	73.1	90.8	61.3	57.8	100.3	399.9	2002.8	3334.5	3729.6	3867.6
62.5°	67.2	86.1	48.4	47.2	69.6	284.3	1646.6	2790.7	3214.1	3401.7
65°	59.0	61.3	38.9	36.6	49.5	153.3	1002.6	1921.4	2402.6	2472.2
67.5°	48.4	47.2	31.8	29.5	33.0	74.3	442.3	962.5	1393.0	1509.8
70°	38.9	38.9	27.1	23.6	23.6	34.2	115.6	383.3	629.9	697.1
72.5°	28.3	29.5	21.2	18.9	17.7	16.5	18.9	76.7	165.1	211.1
75°	24.8	25.9	21.2	16.5	13.0	10.6	8.3	7.1	9.4	15.3
77.5°	27.1	27.1	22.4	15.3	11.8	8.3	4.7	2.4	2.4	1.2
80°	34.2	35.4	29.5	20.1	14.2	9.4	5.9	2.4	1.2	1.2
82.5°	36.6	40.1	33.0	24.8	17.7	10.6	5.9	1.2	0.0	0.0
85°	9.4	15.3	25.9	22.4	17.7	10.6	5.9	1.2	0.0	0.0
87.5°	0.0	1.2	3.5	3.5	4.7	4.7	3.5	1.2	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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