

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: P946521

Luminaire Tested: **GALN-SB2A-927-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946521
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-927-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4167 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

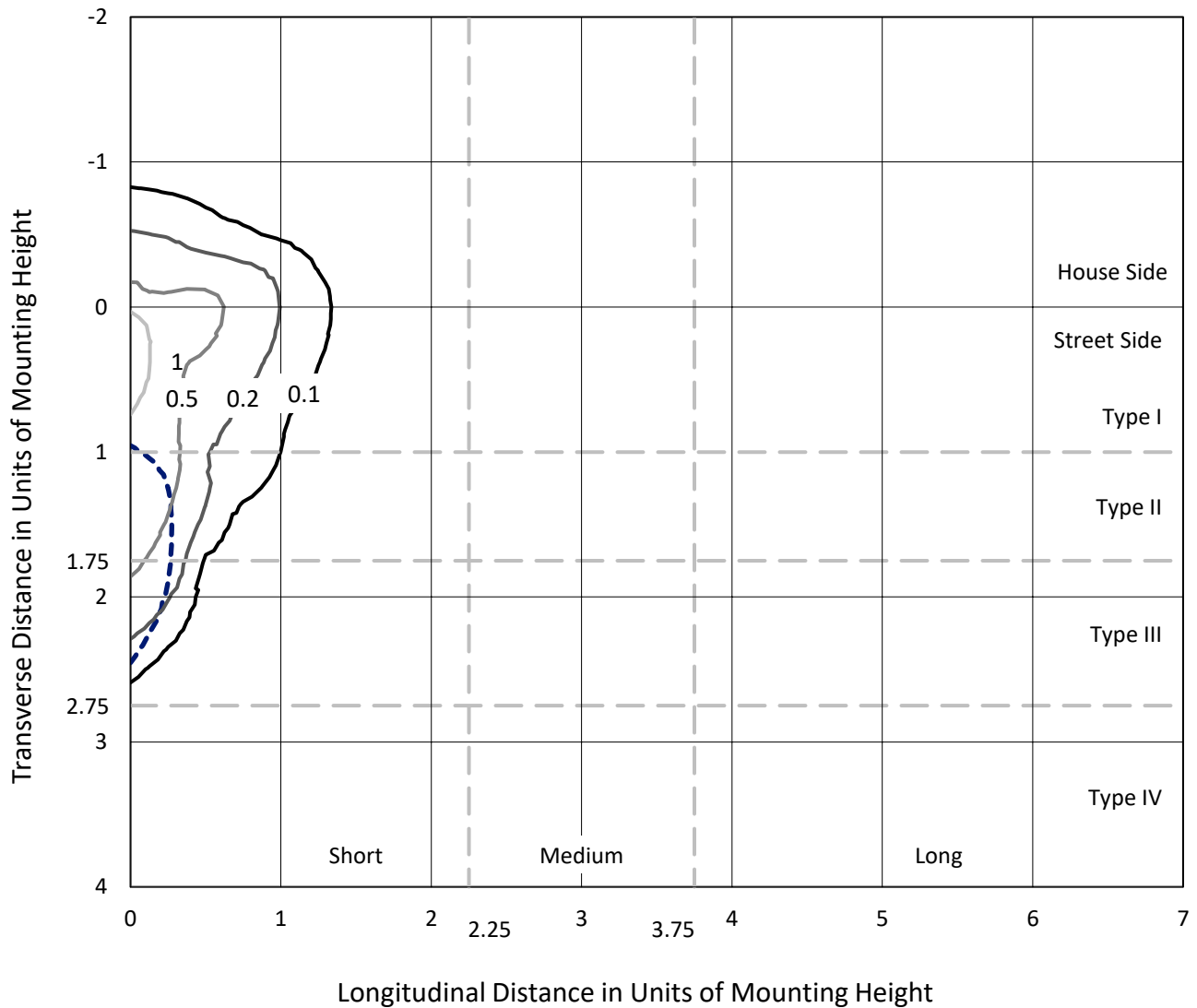
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

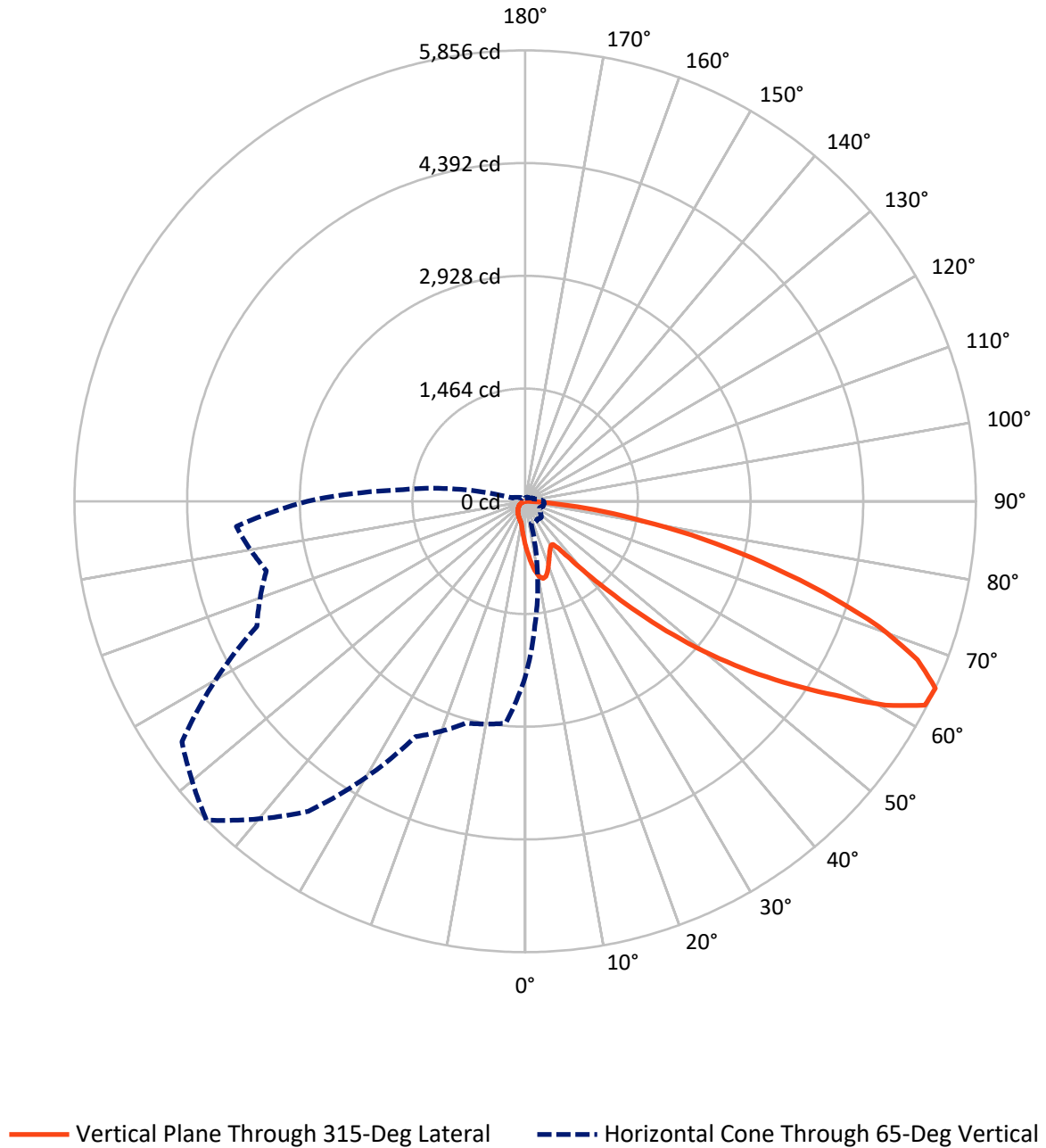
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	583.6	0.0	583.6
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	3583.4	0.0	3583.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	4167.0	0.0	4167.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.8	1.4
10°-20°	170.3	4.1
20°-30°	250.9	6.0
30°-40°	322.3	7.7
40°-50°	521.3	12.5
50°-60°	914.1	21.9
60°-70°	1143.8	27.4
70°-80°	668.4	16.0
80°-90°	119.2	2.9
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°	4167.0	100.0
0°-180°	4167.0	100.0

Coefficient of Utilization



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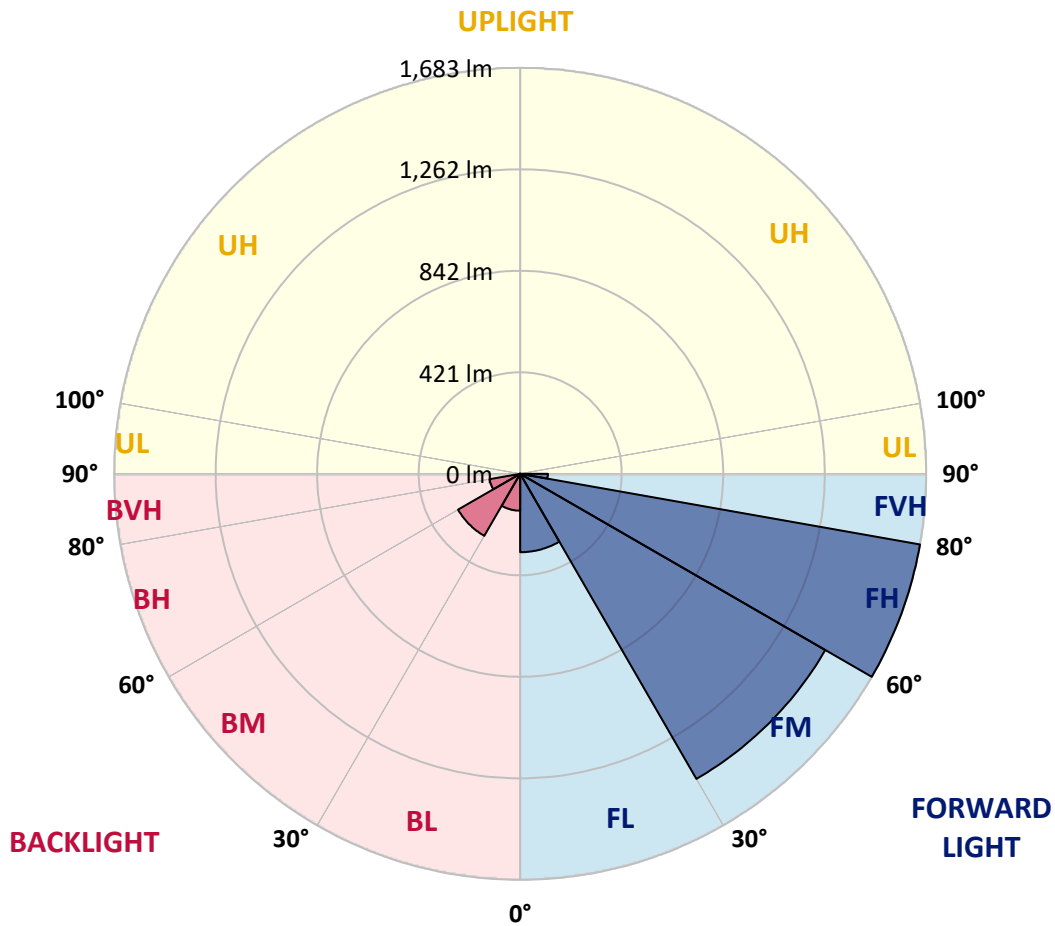
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	325.0	7.8			
FM (30°-60°)	1460.5	35.0			
FH (60°-80°)	1683.3	40.4			G1/1800
FVH (80°-90°)	114.7	2.8			G2/225
BL (0°-30°)	153.0	3.7	B1/500		
BM (30°-60°)	297.2	7.1	B1/1000		
BH (60°-80°)	128.8	3.1	B1/500		G1/500
BVH (80°-90°)	4.6	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-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
2.5°	651.9	640.7	634.1	617.8	601.4	588.2	570.4	558.6	544.6	531.1
5°	726.6	708.5	686.7	656.8	629.5	601.7	574.7	548.0	519.9	494.0
7.5°	789.7	763.6	725.1	685.5	650.8	617.2	585.6	550.3	516.1	475.7
10°	837.9	804.6	754.1	702.2	662.3	628.4	597.7	567.8	533.4	484.6
12.5°	867.2	831.6	771.6	710.8	665.1	627.2	603.4	590.2	576.7	528.2
15°	888.7	850.3	784.0	716.8	658.5	612.0	594.5	607.7	623.2	592.2
17.5°	911.1	870.7	800.0	719.4	640.7	582.5	575.0	609.1	645.0	643.6
20°	932.4	892.2	814.1	717.7	612.0	546.6	553.2	596.8	638.4	655.9
22.5°	956.8	914.3	827.6	711.1	574.7	513.0	533.6	577.3	613.7	634.4
25°	986.6	942.1	846.5	701.3	534.5	485.1	513.8	554.6	584.2	598.5
27.5°	1018.8	975.4	871.8	696.1	502.1	465.3	491.5	527.6	554.0	564.1
30°	1058.7	1014.2	901.7	690.4	480.8	453.8	468.2	496.3	522.2	532.2
32.5°	1102.3	1057.3	930.4	676.6	467.9	445.2	445.5	463.3	486.9	498.9
35°	1156.9	1108.9	961.1	646.5	457.6	435.2	423.4	432.0	451.5	465.9
37.5°	1234.7	1176.7	998.7	603.4	442.4	419.7	400.2	402.2	417.1	432.9
40°	1342.0	1267.7	1042.9	558.6	420.5	397.9	374.6	373.8	384.7	400.2
42.5°	1487.3	1387.9	1096.0	515.9	399.6	371.5	347.6	346.2	354.8	368.3
45°	1679.0	1541.8	1161.2	479.1	383.2	345.6	322.1	321.5	328.7	340.5
47.5°	1924.5	1755.7	1226.3	454.1	374.6	325.2	301.1	302.3	308.6	319.2
50°	2242.2	2034.4	1246.1	441.5	374.6	314.3	282.5	288.2	293.4	301.4
52.5°	2623.2	2302.0	1180.7	430.0	376.9	315.8	266.7	279.0	282.8	289.6
55°	2976.3	2433.1	1015.1	414.2	377.5	324.7	253.2	271.6	278.5	281.0
57.5°	3181.2	2388.1	820.7	387.5	375.2	330.7	244.6	262.4	275.6	277.3
60°	3142.2	2229.9	604.3	367.2	358.3	328.4	242.0	248.3	269.3	271.8
62.5°	2841.3	1964.7	419.4	351.4	320.9	318.4	241.1	226.2	255.5	261.8
65°	2283.9	1546.7	296.2	302.6	281.3	296.5	236.5	203.2	238.8	247.4
67.5°	1656.9	1046.6	213.9	245.2	254.9	261.2	226.2	186.6	219.9	231.4
70°	1063.3	565.2	150.1	161.9	214.7	221.9	208.4	171.7	200.7	213.9
72.5°	755.8	333.9	107.9	113.4	172.5	184.9	183.4	155.0	178.3	194.3
75°	521.6	184.0	72.9	81.0	125.2	150.1	141.5	133.2	151.0	167.4
77.5°	327.0	82.4	43.6	56.3	82.1	118.0	97.0	103.1	117.7	132.9
80°	182.0	31.9	24.4	37.3	44.8	85.8	53.7	66.3	86.7	97.6
82.5°	39.6	4.0	10.9	16.1	17.5	49.9	28.4	38.5	54.5	53.7
85°	0.0	0.0	2.0	2.3	1.1	21.5	10.3	12.6	17.8	16.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
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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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
577.0	0°	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
519.0	2.5°	516.7	502.6	492.3	487.1	482.8	486.9	489.2	489.2	498.9	504.7
478.2	5°	468.2	442.9	423.7	410.8	403.0	405.6	408.5	411.6	424.0	432.3
454.1	7.5°	434.6	395.9	366.6	348.5	339.0	340.5	342.5	345.0	357.1	365.4
457.6	10°	428.3	372.6	331.3	307.4	296.0	294.0	292.8	291.9	299.1	305.4
496.6	12.5°	454.1	373.8	316.1	287.1	273.0	267.0	260.1	254.6	255.8	259.8
555.8	15°	500.4	388.4	311.2	276.4	258.9	248.9	240.8	234.2	232.8	234.2
607.4	17.5°	553.2	408.2	310.6	267.3	245.4	235.1	228.5	222.5	220.5	220.8
636.4	20°	588.2	424.0	308.9	256.9	232.5	223.3	217.6	211.6	209.6	210.1
628.4	22.5°	591.6	432.3	306.3	245.4	219.6	211.9	206.1	200.7	200.4	200.4
598.2	25°	573.0	432.3	300.8	235.1	207.3	200.4	195.2	188.6	189.7	190.3
564.1	27.5°	544.0	422.0	290.5	226.8	196.6	189.5	184.3	178.3	179.7	180.6
532.2	30°	515.3	408.8	278.2	217.3	186.6	178.3	174.5	169.4	169.9	171.1
500.6	32.5°	488.6	394.7	263.5	209.6	176.5	168.2	165.3	159.6	160.5	161.6
469.6	35°	462.2	379.2	246.3	200.4	167.4	159.0	156.7	150.1	150.7	152.4
438.6	37.5°	433.8	362.8	232.2	191.2	158.5	149.8	147.6	140.7	141.2	143.2
406.5	40°	403.9	346.8	218.5	181.4	149.0	140.4	138.4	130.9	131.5	133.8
374.9	42.5°	373.8	329.3	207.8	168.8	139.2	130.0	128.0	121.1	122.0	124.6
347.3	45°	345.9	308.3	200.9	154.7	130.0	119.7	117.7	111.4	113.1	116.0
324.1	47.5°	322.1	286.8	198.1	143.0	120.3	109.1	107.4	102.2	105.1	108.2
304.3	50°	301.7	266.1	194.3	130.9	111.1	99.9	98.2	94.7	98.5	101.6
290.8	52.5°	287.1	242.6	186.3	120.0	103.1	92.1	91.6	89.9	93.3	96.2
280.7	55°	274.4	218.2	173.4	110.5	95.9	85.5	86.1	85.3	88.1	90.4
274.7	57.5°	262.9	196.9	157.0	103.1	88.1	79.8	81.5	80.4	81.8	83.2
268.4	60°	249.2	175.4	137.5	94.7	78.9	74.1	76.1	72.9	72.6	73.2
256.9	62.5°	228.8	146.4	117.1	84.4	70.9	67.7	68.6	62.6	58.0	58.0
240.0	65°	200.4	117.7	98.2	72.9	61.7	59.1	58.6	49.9	43.6	43.1
221.6	67.5°	167.4	96.7	81.5	61.4	51.4	49.7	50.2	43.9	37.6	37.0
203.2	70°	136.4	80.1	65.7	49.1	39.6	41.3	43.9	37.6	31.6	30.7
181.7	72.5°	110.8	63.7	51.4	37.6	29.3	34.2	37.3	30.7	25.0	24.4
155.0	75°	85.5	46.8	36.7	25.5	21.2	26.4	29.3	22.4	17.8	16.9
120.0	77.5°	57.1	29.0	20.7	16.1	12.6	18.1	19.5	11.8	10.3	10.0
87.3	80°	34.7	13.5	8.9	7.8	4.3	6.6	7.8	4.9	5.5	5.7
46.5	82.5°	17.5	3.7	1.4	0.3	0.0	0.0	2.3	1.1	2.3	2.9
12.6	85°	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.4
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

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CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
577.0	0°	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
507.0	2.5°	523.0	535.1	546.6	564.9	583.9	602.5	621.5	639.9	646.5	651.3
437.8	5°	462.7	485.4	511.8	548.3	587.3	627.5	668.3	705.6	722.5	734.0
372.6	7.5°	400.5	430.0	467.9	522.7	583.9	647.9	711.9	770.8	798.0	820.1
311.2	10°	338.7	370.9	418.8	481.4	564.1	655.9	744.4	825.3	860.6	888.5
267.0	12.5°	284.5	314.6	364.9	434.0	533.1	649.6	763.0	860.3	902.0	933.2
235.4	15°	246.3	267.5	312.0	386.7	496.3	629.2	764.2	877.0	922.6	955.3
222.2	17.5°	225.1	232.2	261.2	338.4	455.6	602.5	753.5	882.7	931.5	961.9
210.4	20°	213.6	214.7	222.8	275.9	403.3	577.6	743.5	888.5	939.8	965.4
202.1	22.5°	204.4	204.4	206.4	225.6	335.9	547.7	740.3	898.5	951.3	967.1
192.6	25°	196.1	196.1	196.6	201.8	266.1	502.1	738.3	914.0	967.1	971.4
183.1	27.5°	187.5	187.7	187.7	190.6	214.4	440.1	729.7	934.1	986.1	977.2
174.0	30°	178.8	179.4	179.4	181.4	189.7	367.4	712.8	958.2	1010.7	984.6
164.8	32.5°	170.2	170.8	170.8	172.5	178.6	293.4	691.5	980.3	1035.7	987.8
155.9	35°	161.3	162.2	161.6	163.9	170.2	233.4	664.6	1002.4	1062.7	997.8
147.3	37.5°	152.4	153.0	152.7	155.0	162.2	201.5	633.3	1019.1	1099.5	1020.2
138.1	40°	143.5	143.2	143.2	145.8	153.6	192.3	593.9	1045.5	1152.3	1059.5
128.9	42.5°	134.3	134.3	133.8	136.6	146.1	185.4	556.3	1092.8	1229.2	1122.1
120.3	45°	126.0	125.7	124.6	127.2	138.9	173.4	543.1	1181.3	1342.9	1223.5
111.7	47.5°	118.0	117.7	114.8	117.1	130.3	162.5	592.5	1325.9	1500.5	1372.4
104.8	50°	110.8	111.1	105.6	107.6	121.7	154.2	699.6	1513.7	1709.7	1573.1
99.0	52.5°	104.2	104.2	97.0	98.2	111.1	146.7	801.5	1717.2	1985.9	1853.0
93.0	55°	97.6	97.0	89.0	89.6	100.5	136.1	816.7	1915.9	2362.5	2274.1
86.4	57.5°	90.1	89.0	81.5	81.5	90.7	128.3	707.9	2068.6	2829.9	2893.0
74.1	60°	81.0	80.1	75.2	73.8	83.0	135.2	499.5	2086.4	3131.3	3716.0
58.8	62.5°	69.2	70.3	67.7	65.7	75.5	140.4	296.0	1943.1	3058.4	3977.8
45.6	65°	54.5	59.1	58.6	57.1	83.0	118.3	174.8	1668.1	2834.7	3766.6
39.9	67.5°	46.5	49.7	48.8	48.8	87.0	89.9	109.9	1303.3	2527.0	3515.9
33.3	70°	39.6	42.8	39.6	39.6	65.7	54.5	76.1	910.0	2194.9	3238.6
26.7	72.5°	32.7	35.9	32.4	30.1	52.5	40.8	55.7	568.7	1879.7	2949.9
18.9	75°	25.0	28.7	26.1	23.3	34.7	30.4	42.2	330.4	1557.3	2523.9
11.5	77.5°	15.8	20.7	19.5	16.4	25.5	22.1	30.4	196.6	1201.6	1972.1
6.9	80°	9.8	10.6	10.9	10.3	14.6	14.9	20.7	112.0	822.4	1374.5
4.3	82.5°	6.3	6.3	4.9	5.5	7.2	8.6	11.8	42.2	483.4	836.8
2.6	85°	4.6	4.0	2.6	2.6	3.4	4.3	4.6	12.9	196.1	330.4
1.1	87.5°	2.3	2.0	0.9	1.1	1.7	1.4	1.1	0.6	49.4	105.6
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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CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
577.0	0°	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
662.3	2.5°	668.0	676.9	677.5	677.5	669.7	669.4	653.6	651.9
759.9	5°	786.6	792.3	793.7	790.9	775.4	763.9	733.2	726.6
859.5	7.5°	895.1	906.5	906.5	899.7	874.4	850.9	806.4	789.7
941.9	10°	981.8	995.0	992.1	978.0	946.2	913.7	859.8	837.9
991.8	12.5°	1024.0	1037.4	1030.0	1013.9	982.9	948.7	891.9	867.2
1006.2	15°	1023.1	1019.4	1011.6	1009.6	994.7	968.8	915.7	888.7
997.3	17.5°	986.6	955.1	949.0	969.1	988.1	981.8	936.4	911.1
976.0	20°	928.9	873.8	868.4	906.8	960.8	988.4	955.6	932.4
945.3	22.5°	868.1	808.7	796.0	838.5	919.7	990.4	980.0	956.8
911.4	25°	810.4	750.7	738.0	777.7	874.1	986.9	1006.4	986.6
879.0	27.5°	762.2	704.5	692.7	732.3	830.2	977.2	1032.9	1018.8
846.8	30°	724.8	671.4	662.8	701.0	792.3	965.1	1066.4	1058.7
817.0	32.5°	703.0	664.0	667.1	698.4	771.9	951.9	1098.6	1102.3
802.3	35°	724.5	726.3	753.8	766.7	790.9	949.9	1142.2	1156.9
819.9	37.5°	831.6	891.3	948.5	937.8	883.6	973.1	1207.4	1234.7
896.2	40°	1013.9	1136.5	1229.2	1188.7	1052.1	1044.3	1301.3	1342.0
1031.7	42.5°	1236.7	1444.5	1597.2	1488.7	1269.4	1168.9	1435.3	1487.3
1195.6	45°	1471.8	1824.3	2064.8	1839.2	1501.1	1343.5	1638.3	1679.0
1349.2	47.5°	1719.5	2285.9	2597.1	2227.9	1715.8	1542.1	1915.0	1924.5
1494.7	50°	1990.5	2792.0	3139.6	2616.3	1923.0	1769.7	2253.2	2242.2
1664.4	52.5°	2248.6	3312.4	3670.7	3006.4	2105.0	2052.2	2645.6	2623.2
1896.3	55°	2494.9	3832.6	4204.9	3381.3	2276.7	2425.4	3111.8	2976.3
2230.8	57.5°	2780.5	4300.2	4755.5	3757.9	2516.7	2910.0	3633.1	3181.2
2871.2	60°	3202.8	4831.6	5378.1	4274.1	2973.1	3419.2	3819.9	3142.2
3638.2	62.5°	3741.9	5320.1	5830.8	4779.9	3431.5	3515.1	3544.7	2841.3
3481.8	65°	3846.6	5443.9	5856.4	4915.1	3372.4	2981.7	2893.9	2283.9
3110.0	67.5°	3568.8	5220.2	5499.3	4663.3	2983.2	2304.3	2171.6	1656.9
2866.0	70°	3257.0	4793.9	4876.9	4235.3	2623.8	1694.8	1466.6	1063.3
2699.0	72.5°	2937.5	4225.3	4053.6	3678.1	2306.0	1234.1	1057.8	755.8
2461.0	75°	2558.0	3477.5	3193.0	3056.1	1909.3	968.5	765.3	521.6
2116.8	77.5°	2048.5	2447.8	2371.7	2368.8	1434.7	707.6	510.7	327.0
1653.8	80°	1445.1	1588.6	1549.9	1784.1	962.5	513.3	307.4	182.0
1151.1	82.5°	699.6	878.4	901.7	1062.4	468.2	302.0	70.9	39.6
450.1	85°	273.9	423.7	357.4	403.3	131.5	84.1	1.7	0.0
74.1	87.5°	30.7	49.1	45.1	35.6	16.1	3.4	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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