

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: P945009

Luminaire Tested: **GALN-SB1A-830-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945009
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-SB1A-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3077 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

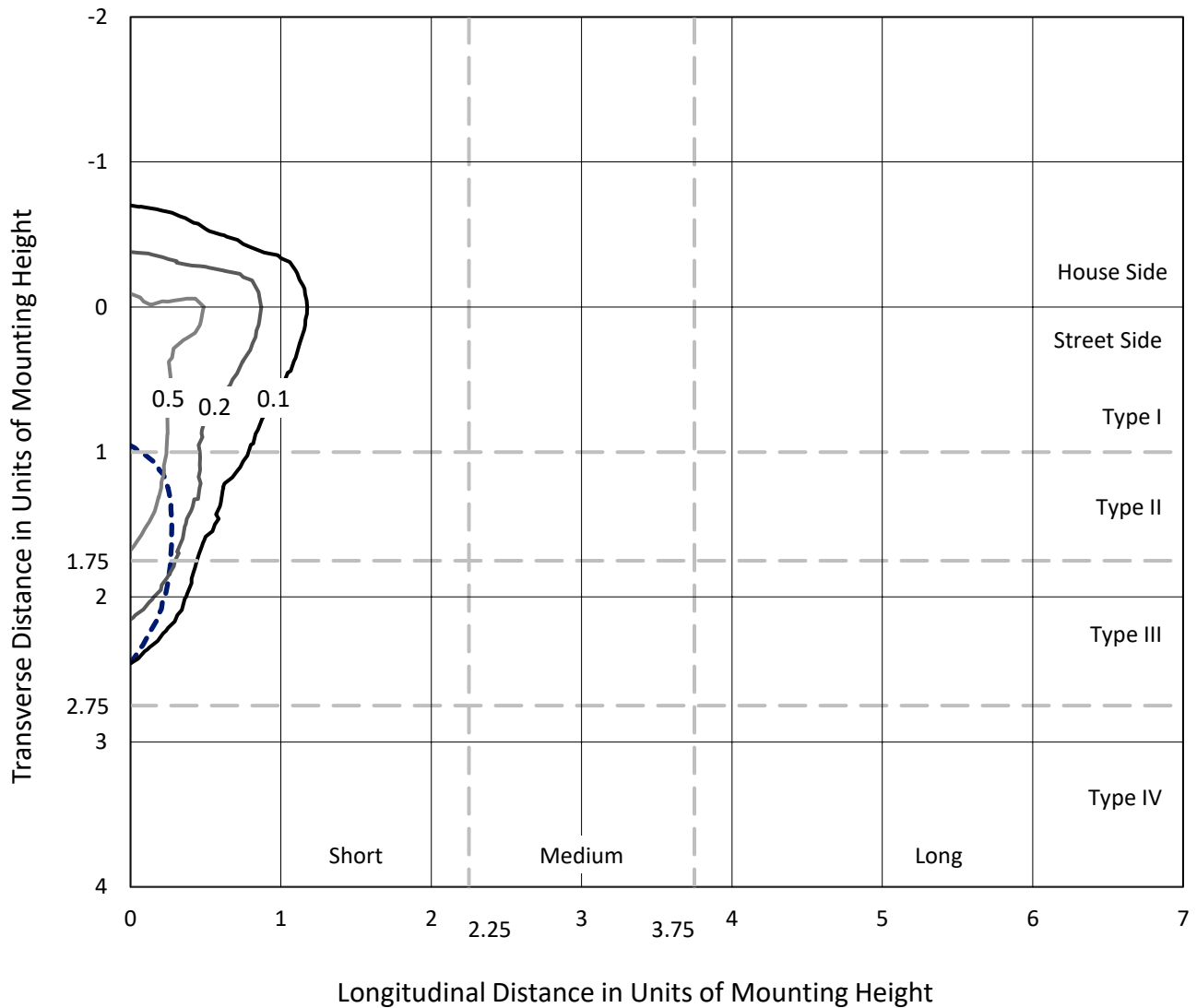
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

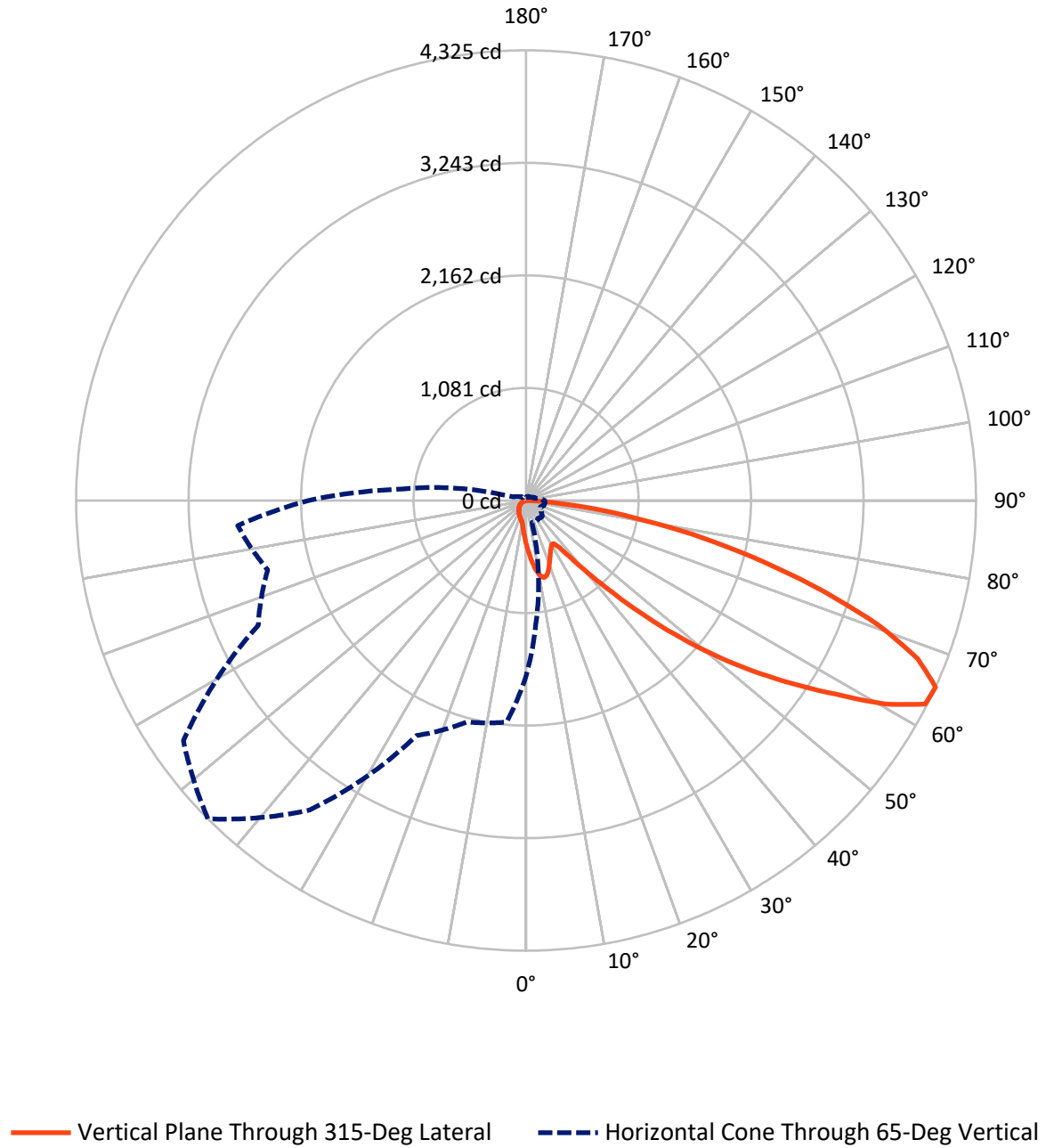
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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	430.9	0.0	430.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	2646.1	0.0	2646.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	3077.0	0.0	3077.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.9	1.4
10°-20°	125.7	4.1
20°-30°	185.3	6.0
30°-40°	238.0	7.7
40°-50°	384.9	12.5
50°-60°	675.0	21.9
60°-70°	844.6	27.4
70°-80°	493.5	16.0
80°-90°	88.1	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°	3077.0	100.0
0°-180°	3077.0	100.0

Coefficient of Utilization



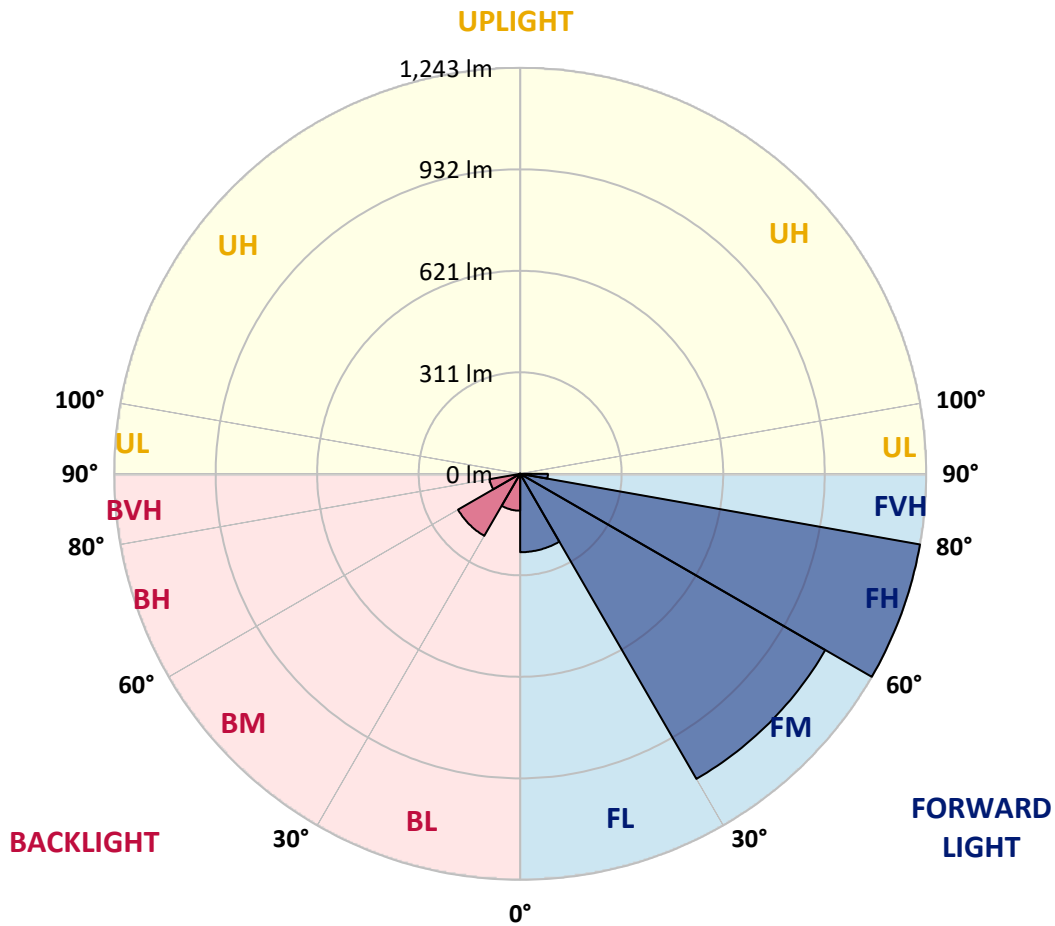
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	240.0	7.8			
FM (30°-60°)	1078.5	35.0			
FH (60°-80°)	1243.0	40.4			G1/1800
FVH (80°-90°)	84.7	2.8			G1/100
BL (0°-30°)	112.9	3.7	B1/500		
BM (30°-60°)	219.4	7.1	B0/220		
BH (60°-80°)	95.1	3.1	B0/110		G0/110
BVH (80°-90°)	3.4	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-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	426.1	426.1	426.1	426.1	426.1	426.1	426.1	426.1	426.1	426.1
2.5°	481.4	473.1	468.2	456.2	444.1	434.3	421.2	412.5	402.1	392.2
5°	536.5	523.1	507.0	485.0	464.9	444.3	424.4	404.7	383.9	364.8
7.5°	583.1	563.8	535.4	506.2	480.5	455.7	432.4	406.4	381.1	351.2
10°	618.7	594.2	556.9	518.5	489.0	464.0	441.3	419.3	393.8	357.8
12.5°	640.4	614.1	569.8	524.8	491.1	463.2	445.6	435.8	425.9	390.0
15°	656.3	627.9	578.9	529.3	486.3	451.9	439.0	448.7	460.2	437.3
17.5°	672.8	642.9	590.8	531.2	473.1	430.1	424.6	449.8	476.3	475.2
20°	688.5	658.8	601.2	529.9	451.9	403.6	408.5	440.7	471.4	484.4
22.5°	706.5	675.1	611.1	525.1	424.4	378.8	394.1	426.3	453.2	468.5
25°	728.6	695.7	625.1	517.9	394.7	358.2	379.4	409.5	431.4	442.0
27.5°	752.3	720.3	643.8	514.0	370.7	343.6	362.9	389.6	409.1	416.5
30°	781.8	748.9	665.8	509.8	355.1	335.1	345.7	366.5	385.6	393.0
32.5°	814.0	780.7	687.0	499.6	345.5	328.8	329.0	342.1	359.5	368.4
35°	854.3	818.9	709.7	477.4	337.9	321.4	312.7	319.0	333.4	344.0
37.5°	911.7	868.9	737.5	445.6	326.7	309.9	295.5	297.0	308.0	319.7
40°	991.0	936.1	770.1	412.5	310.5	293.8	276.6	276.0	284.0	295.5
42.5°	1098.2	1024.9	809.3	380.9	295.1	274.3	256.7	255.6	262.0	272.0
45°	1239.8	1138.5	857.4	353.8	283.0	255.2	237.8	237.4	242.7	251.4
47.5°	1421.1	1296.4	905.5	335.3	276.6	240.2	222.4	223.2	227.9	235.7
50°	1655.7	1502.3	920.2	326.0	276.6	232.1	208.6	212.8	216.6	222.6
52.5°	1937.0	1699.8	871.8	317.5	278.3	233.2	196.9	206.0	208.8	213.9
55°	2197.7	1796.7	749.5	305.9	278.7	239.7	187.0	200.5	205.6	207.5
57.5°	2349.1	1763.4	606.0	286.2	277.0	244.2	180.6	193.7	203.5	204.8
60°	2320.3	1646.6	446.2	271.1	264.5	242.5	178.7	183.4	198.8	200.7
62.5°	2098.1	1450.7	309.7	259.5	237.0	235.1	178.1	167.0	188.7	193.3
65°	1686.5	1142.1	218.8	223.4	207.7	219.0	174.7	150.1	176.4	182.7
67.5°	1223.5	772.9	157.9	181.0	188.2	192.9	167.0	137.8	162.4	170.9
70°	785.1	417.4	110.9	119.6	158.6	163.9	153.9	126.8	148.2	157.9
72.5°	558.1	246.5	79.7	83.7	127.4	136.5	135.5	114.5	131.6	143.5
75°	385.2	135.9	53.8	59.8	92.4	110.9	104.5	98.4	111.5	123.6
77.5°	241.4	60.8	32.2	41.5	60.6	87.1	71.6	76.1	86.9	98.1
80°	134.4	23.5	18.0	27.6	33.1	63.4	39.6	49.0	64.0	72.1
82.5°	29.3	3.0	8.1	11.9	12.9	36.9	21.0	28.4	40.3	39.6
85°	0.0	0.0	1.5	1.7	0.8	15.9	7.6	9.3	13.1	12.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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°
426.1	0°	426.1	426.1	426.1	426.1	426.1	426.1	426.1	426.1	426.1	426.1
383.2	2.5°	381.6	371.2	363.5	359.7	356.5	359.5	361.2	361.2	368.4	372.6
353.1	5°	345.7	327.1	312.9	303.3	297.6	299.5	301.6	304.0	313.1	319.2
335.3	7.5°	320.9	292.3	270.7	257.3	250.3	251.4	252.9	254.8	263.7	269.8
337.9	10°	316.3	275.1	244.6	227.0	218.5	217.1	216.2	215.6	220.9	225.5
366.7	12.5°	335.3	276.0	233.4	212.0	201.6	197.1	192.0	188.0	188.9	191.8
410.4	15°	369.5	286.8	229.8	204.1	191.2	183.8	177.8	173.0	171.9	173.0
448.5	17.5°	408.5	301.4	229.4	197.3	181.2	173.6	168.7	164.3	162.8	163.0
469.9	20°	434.3	313.1	228.1	189.7	171.7	164.9	160.7	156.2	154.7	155.2
464.0	22.5°	436.9	319.2	226.2	181.2	162.2	156.4	152.2	148.2	148.0	148.0
441.8	25°	423.1	319.2	222.1	173.6	153.0	148.0	144.1	139.3	140.1	140.5
416.5	27.5°	401.7	311.6	214.5	167.5	145.2	139.9	136.1	131.6	132.7	133.3
393.0	30°	380.5	301.8	205.4	160.5	137.8	131.6	128.9	125.1	125.5	126.3
369.7	32.5°	360.8	291.5	194.6	154.7	130.4	124.2	122.1	117.9	118.5	119.3
346.8	35°	341.3	280.0	181.9	148.0	123.6	117.4	115.7	110.9	111.3	112.6
323.9	37.5°	320.3	267.9	171.5	141.2	117.0	110.6	109.0	103.9	104.3	105.8
300.2	40°	298.2	256.1	161.3	134.0	110.0	103.7	102.2	96.7	97.1	98.8
276.8	42.5°	276.0	243.1	153.5	124.6	102.8	96.0	94.5	89.5	90.1	92.0
256.5	45°	255.4	227.7	148.4	114.3	96.0	88.4	86.9	82.2	83.5	85.6
239.3	47.5°	237.8	211.8	146.3	105.6	88.8	80.5	79.3	75.5	77.6	79.9
224.7	50°	222.8	196.5	143.5	96.7	82.0	73.8	72.5	70.0	72.7	75.0
214.7	52.5°	212.0	179.1	137.6	88.6	76.1	68.0	67.6	66.3	68.9	71.0
207.3	55°	202.6	161.1	128.0	81.6	70.8	63.2	63.6	63.0	65.1	66.8
202.9	57.5°	194.2	145.4	115.9	76.1	65.1	58.9	60.2	59.4	60.4	61.5
198.2	60°	184.0	129.5	101.5	70.0	58.3	54.7	56.2	53.8	53.6	54.1
189.7	62.5°	168.9	108.1	86.5	62.3	52.4	50.0	50.7	46.2	42.8	42.8
177.2	65°	148.0	86.9	72.5	53.8	45.6	43.7	43.2	36.9	32.2	31.8
163.6	67.5°	123.6	71.4	60.2	45.4	37.9	36.7	37.1	32.4	27.8	27.3
150.1	70°	100.7	59.1	48.5	36.2	29.3	30.5	32.4	27.8	23.3	22.7
134.2	72.5°	81.8	47.1	37.9	27.8	21.6	25.2	27.6	22.7	18.4	18.0
114.5	75°	63.2	34.6	27.1	18.9	15.7	19.5	21.6	16.5	13.1	12.5
88.6	77.5°	42.2	21.4	15.3	11.9	9.3	13.4	14.4	8.7	7.6	7.4
64.4	80°	25.6	10.0	6.6	5.7	3.2	4.9	5.7	3.6	4.0	4.2
34.3	82.5°	12.9	2.8	1.1	0.2	0.0	0.0	1.7	0.8	1.7	2.1
9.3	85°	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.1
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°
426.1	0°	426.1	426.1	426.1	426.1	426.1	426.1	426.1	426.1	426.1	426.1
374.3	2.5°	386.2	395.1	403.6	417.2	431.2	444.9	458.9	472.5	477.4	481.0
323.3	5°	341.7	358.4	377.9	404.9	433.7	463.4	493.5	521.0	533.5	542.0
275.1	7.5°	295.7	317.5	345.5	386.0	431.2	478.4	525.7	569.1	589.3	605.6
229.8	10°	250.1	273.9	309.3	355.5	416.5	484.4	549.6	609.4	635.5	656.1
197.1	12.5°	210.1	232.3	269.4	320.5	393.6	479.7	563.4	635.3	666.0	689.1
173.8	15°	181.9	197.6	230.4	285.5	366.5	464.6	564.3	647.6	681.3	705.4
164.1	17.5°	166.2	171.5	192.9	249.9	336.4	444.9	556.4	651.8	687.9	710.3
155.4	20°	157.7	158.6	164.5	203.7	297.8	426.5	549.0	656.1	694.0	712.9
149.2	22.5°	150.9	150.9	152.4	166.6	248.0	404.4	546.7	663.5	702.5	714.1
142.2	25°	144.8	144.8	145.2	149.0	196.5	370.7	545.2	674.9	714.1	717.3
135.2	27.5°	138.4	138.6	138.6	140.8	158.3	325.0	538.8	689.8	728.1	721.6
128.5	30°	132.1	132.5	132.5	134.0	140.1	271.3	526.3	707.6	746.4	727.1
121.7	32.5°	125.7	126.1	126.1	127.4	131.8	216.6	510.6	723.9	764.8	729.4
115.1	35°	119.1	119.8	119.3	121.0	125.7	172.3	490.7	740.2	784.7	736.8
108.7	37.5°	112.6	113.0	112.8	114.5	119.8	148.8	467.6	752.5	811.9	753.4
102.0	40°	106.0	105.8	105.8	107.7	113.4	142.0	438.6	772.0	850.9	782.4
95.2	42.5°	99.2	99.2	98.8	100.9	107.9	136.9	410.8	807.0	907.7	828.6
88.8	45°	93.1	92.8	92.0	93.9	102.6	128.0	401.1	872.3	991.6	903.4
82.5	47.5°	87.1	86.9	84.8	86.5	96.2	120.0	437.5	979.1	1108.0	1013.4
77.4	50°	81.8	82.0	78.0	79.5	89.9	113.8	516.6	1117.7	1262.5	1161.6
73.1	52.5°	76.9	76.9	71.6	72.5	82.0	108.3	591.8	1268.0	1466.4	1368.3
68.7	55°	72.1	71.6	65.7	66.1	74.2	100.5	603.1	1414.7	1744.5	1679.3
63.8	57.5°	66.6	65.7	60.2	60.2	67.0	94.8	522.7	1527.5	2089.6	2136.3
54.7	60°	59.8	59.1	55.5	54.5	61.3	99.8	368.8	1540.6	2312.2	2744.0
43.5	62.5°	51.1	51.9	50.0	48.5	55.7	103.7	218.5	1434.8	2258.4	2937.3
33.7	65°	40.3	43.7	43.2	42.2	61.3	87.3	129.1	1231.8	2093.2	2781.3
29.5	67.5°	34.3	36.7	36.0	36.0	64.2	66.3	81.2	962.4	1866.0	2596.2
24.6	70°	29.3	31.6	29.3	29.3	48.5	40.3	56.2	672.0	1620.7	2391.5
19.7	72.5°	24.2	26.5	24.0	22.3	38.8	30.1	41.1	419.9	1388.0	2178.2
14.0	75°	18.4	21.2	19.3	17.2	25.6	22.5	31.2	244.0	1150.0	1863.7
8.5	77.5°	11.7	15.3	14.4	12.1	18.9	16.3	22.5	145.2	887.3	1456.3
5.1	80°	7.2	7.8	8.1	7.6	10.8	11.0	15.3	82.7	607.3	1014.9
3.2	82.5°	4.7	4.7	3.6	4.0	5.3	6.4	8.7	31.2	357.0	617.9
1.9	85°	3.4	3.0	1.9	1.9	2.5	3.2	3.4	9.5	144.8	244.0
0.8	87.5°	1.7	1.5	0.6	0.8	1.3	1.1	0.8	0.4	36.5	78.0
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):

285°		295°	305°	315°	325°	335°	345°	355°	360°
426.1	0°	426.1	426.1	426.1	426.1	426.1	426.1	426.1	426.1
489.0	2.5°	493.3	499.8	500.3	500.3	494.5	494.3	482.7	481.4
561.1	5°	580.8	585.0	586.1	584.0	572.5	564.1	541.4	536.5
634.6	7.5°	660.9	669.4	669.4	664.3	645.7	628.3	595.4	583.1
695.5	10°	724.9	734.7	732.6	722.2	698.7	674.7	634.9	618.7
732.4	12.5°	756.1	766.1	760.6	748.7	725.8	700.6	658.6	640.4
743.0	15°	755.5	752.7	747.0	745.5	734.5	715.4	676.2	656.3
736.4	17.5°	728.6	705.2	700.8	715.6	729.6	724.9	691.5	672.8
720.7	20°	685.9	645.2	641.2	669.6	709.5	729.8	705.7	688.5
698.0	22.5°	641.0	597.1	587.8	619.2	679.2	731.3	723.7	706.5
673.0	25°	598.4	554.3	545.0	574.2	645.5	728.8	743.2	728.6
649.1	27.5°	562.8	520.2	511.5	540.7	613.0	721.6	762.7	752.3
625.3	30°	535.2	495.8	489.4	517.6	585.0	712.7	787.5	781.8
603.3	32.5°	519.1	490.3	492.6	515.7	570.0	702.9	811.2	814.0
592.5	35°	535.0	536.3	556.6	566.2	584.0	701.4	843.4	854.3
605.4	37.5°	614.1	658.2	700.4	692.5	652.5	718.6	891.6	911.7
661.8	40°	748.7	839.2	907.7	877.8	776.9	771.2	960.9	991.0
761.8	42.5°	913.2	1066.6	1179.4	1099.3	937.3	863.2	1059.9	1098.2
882.9	45°	1086.8	1347.1	1524.7	1358.1	1108.4	992.0	1209.7	1239.8
996.3	47.5°	1269.7	1687.9	1917.7	1645.1	1267.0	1138.7	1414.1	1421.1
1103.7	50°	1469.8	2061.7	2318.4	1931.9	1420.0	1306.8	1663.8	1655.7
1229.0	52.5°	1660.4	2446.0	2710.5	2220.0	1554.4	1515.4	1953.5	1937.0
1400.3	55°	1842.3	2830.1	3105.0	2496.8	1681.2	1791.0	2297.8	2197.7
1647.2	57.5°	2053.2	3175.4	3511.5	2774.9	1858.4	2148.8	2682.7	2349.1
2120.2	60°	2365.0	3567.7	3971.3	3156.1	2195.4	2524.8	2820.7	2320.3
2686.5	62.5°	2763.1	3928.5	4305.6	3529.6	2533.9	2595.6	2617.4	2098.1
2571.0	65°	2840.4	4019.9	4324.5	3629.4	2490.3	2201.8	2136.9	1686.5
2296.5	67.5°	2635.3	3854.7	4060.8	3443.5	2202.8	1701.5	1603.6	1223.5
2116.3	70°	2405.0	3540.0	3601.2	3127.5	1937.4	1251.5	1083.0	785.1
1993.0	72.5°	2169.1	3120.0	2993.3	2716.0	1702.8	911.3	781.1	558.1
1817.2	75°	1888.9	2567.8	2357.8	2256.7	1409.8	715.2	565.1	385.2
1563.1	77.5°	1512.6	1807.5	1751.3	1749.2	1059.4	522.5	377.1	241.4
1221.2	80°	1067.1	1173.1	1144.4	1317.4	710.7	379.0	227.0	134.4
850.0	82.5°	516.6	648.6	665.8	784.5	345.7	223.0	52.4	29.3
332.4	85°	202.2	312.9	263.9	297.8	97.1	62.1	1.3	0.0
54.7	87.5°	22.7	36.2	33.3	26.3	11.9	2.5	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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