

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: P945429

Luminaire Tested: **GALN-SB1B-850-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945429
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-SB1B-850-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 450mA 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: 4112 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

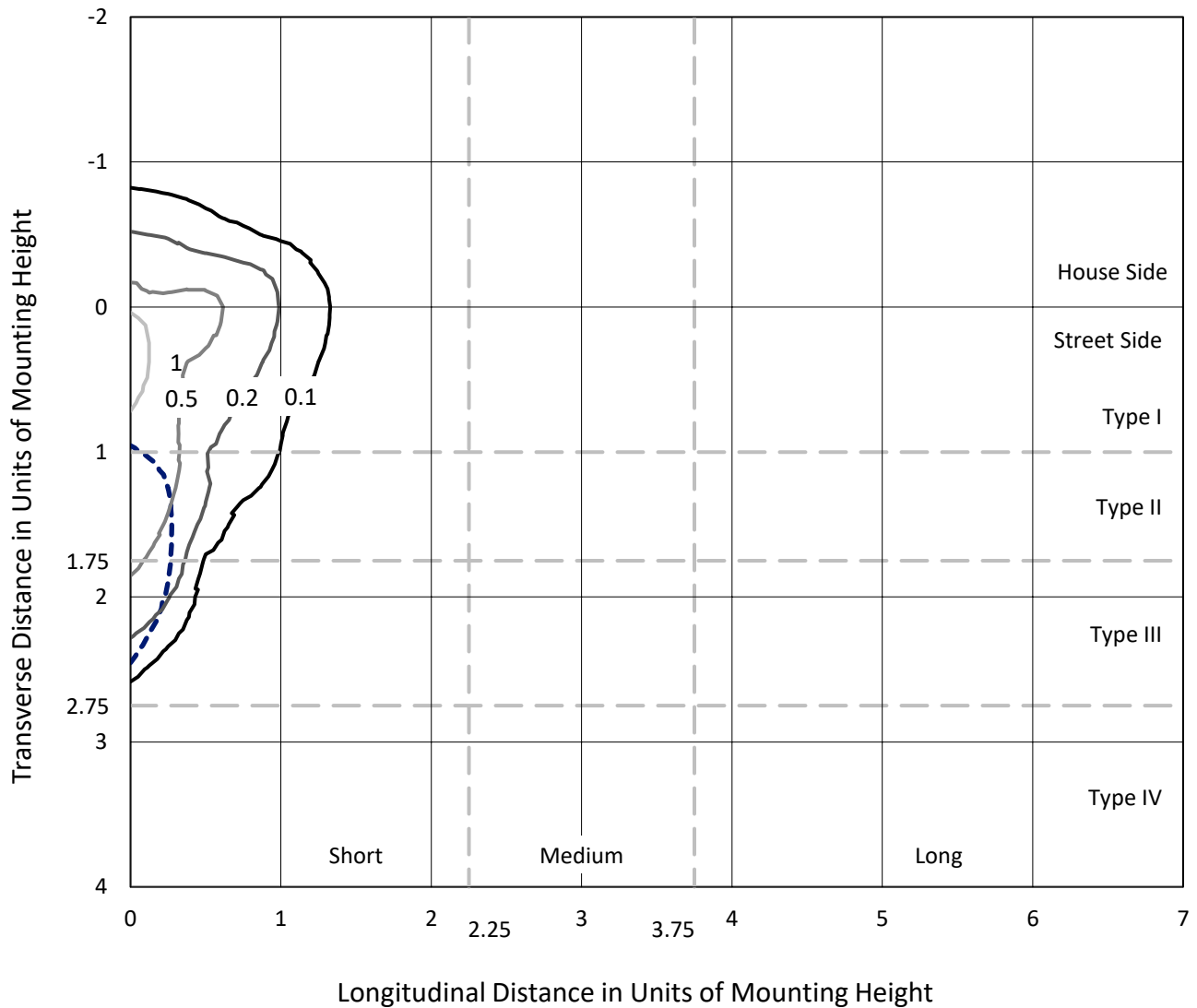
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

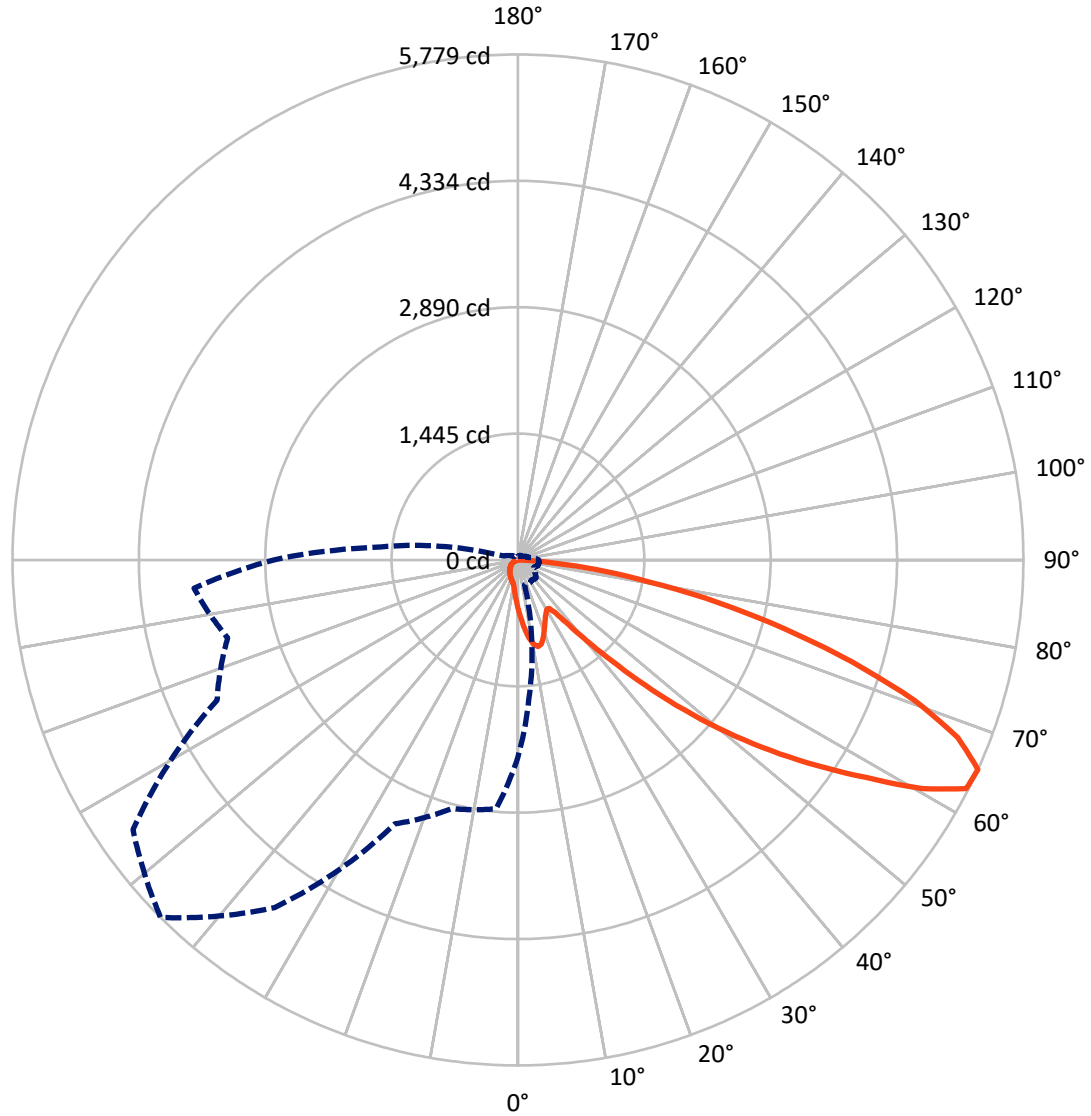
× Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	575.9	0.0	575.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	3536.1	0.0	3536.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	4112.0	0.0	4112.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.1	1.4
10°-20°	168.0	4.1
20°-30°	247.6	6.0
30°-40°	318.0	7.7
40°-50°	514.4	12.5
50°-60°	902.0	21.9
60°-70°	1128.7	27.4
70°-80°	659.5	16.0
80°-90°	117.7	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°	4112.0	100.0
0°-180°	4112.0	100.0

Coefficient of Utilization



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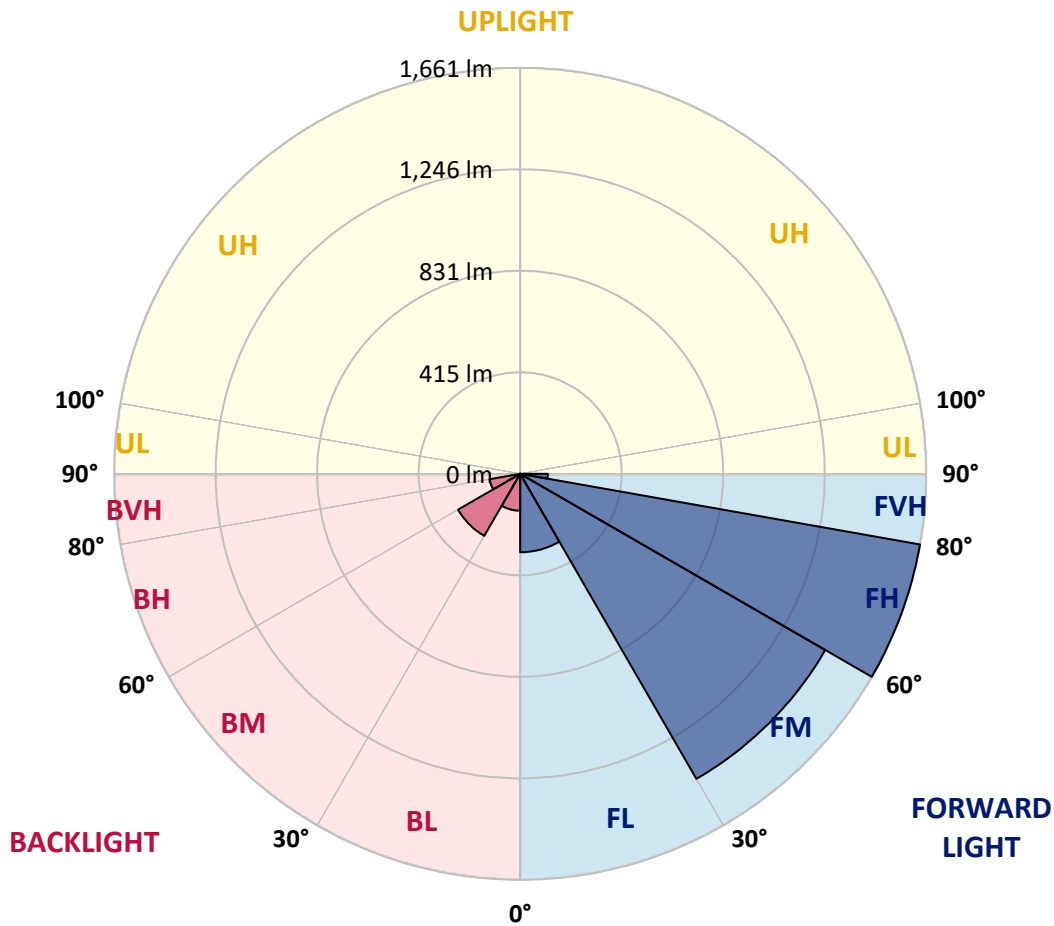
CATALOG NUMBER: GALN-SB1B-850-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	320.7	7.8			
FM (30°-60°)	1441.2	35.0			
FH (60°-80°)	1661.1	40.4			G1/1800
FVH (80°-90°)	113.2	2.8			G2/225
BL (0°-30°)	150.9	3.7	B1/500		
BM (30°-60°)	293.2	7.1	B1/1000		
BH (60°-80°)	127.2	3.1	B1/500		G1/500
BVH (80°-90°)	4.5	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°	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4
2.5°	643.3	632.3	625.8	609.6	593.5	580.4	562.9	551.3	537.4	524.1
5°	717.0	699.1	677.6	648.1	621.2	593.7	567.1	540.8	513.0	487.5
7.5°	779.3	753.5	715.5	676.5	642.2	609.0	577.9	543.0	509.3	469.4
10°	826.9	794.0	744.2	692.9	653.5	620.1	589.8	560.3	526.3	478.2
12.5°	855.8	820.6	761.4	701.4	656.3	619.0	595.4	582.4	569.1	521.2
15°	877.0	839.1	773.6	707.3	649.8	603.9	586.7	599.7	615.0	584.4
17.5°	899.1	859.2	789.5	709.9	632.3	574.8	567.4	601.1	636.5	635.1
20°	920.1	880.4	803.4	708.2	603.9	539.4	545.9	588.9	630.0	647.3
22.5°	944.2	902.2	816.7	701.7	567.1	506.2	526.6	569.7	605.6	626.0
25°	973.6	929.7	835.4	692.0	527.5	478.7	507.1	547.3	576.5	590.6
27.5°	1005.3	962.6	860.3	686.9	495.4	459.2	485.0	520.7	546.7	556.6
30°	1044.7	1000.8	889.8	681.3	474.5	447.9	462.0	489.8	515.3	525.2
32.5°	1087.8	1043.3	918.1	667.7	461.7	439.4	439.6	457.2	480.4	492.3
35°	1141.6	1094.3	948.4	637.9	451.5	429.4	417.8	426.3	445.6	459.8
37.5°	1218.4	1161.1	985.5	595.4	436.5	414.1	394.9	396.9	411.6	427.2
40°	1324.3	1250.9	1029.1	551.3	415.0	392.6	369.7	368.8	379.6	394.9
42.5°	1467.6	1369.6	1081.5	509.0	394.3	366.6	343.0	341.6	350.1	363.4
45°	1656.9	1521.5	1145.8	472.8	378.2	341.1	317.8	317.3	324.3	336.0
47.5°	1899.1	1732.5	1210.1	448.1	369.7	320.9	297.2	298.3	304.5	315.0
50°	2212.7	2007.6	1229.7	435.7	369.7	310.2	278.7	284.4	289.5	297.4
52.5°	2588.6	2271.6	1165.1	424.3	371.9	311.6	263.2	275.3	279.0	285.8
55°	2937.0	2401.0	1001.7	408.8	372.5	320.4	249.8	268.0	274.8	277.3
57.5°	3139.2	2356.6	809.9	382.4	370.2	326.3	241.3	258.9	271.9	273.6
60°	3100.7	2200.5	596.3	362.3	353.5	324.1	238.8	245.0	265.7	268.3
62.5°	2803.8	1938.7	413.9	346.7	316.7	314.2	238.0	223.2	252.1	258.3
65°	2253.7	1526.3	292.3	298.6	277.6	292.6	233.4	200.6	235.7	244.2
67.5°	1635.1	1032.8	211.0	241.9	251.5	257.8	223.2	184.1	217.0	228.3
70°	1049.2	557.8	148.2	159.8	211.9	219.0	205.7	169.4	198.0	211.0
72.5°	745.9	329.4	106.5	111.9	170.2	182.4	181.0	153.0	175.9	191.8
75°	514.7	181.6	72.0	79.9	123.5	148.2	139.7	131.4	149.0	165.1
77.5°	322.6	81.3	43.1	55.5	81.0	116.4	95.7	101.7	116.1	131.2
80°	179.6	31.4	24.1	36.8	44.2	84.7	53.0	65.4	85.5	96.3
82.5°	39.1	4.0	10.8	15.9	17.3	49.3	28.0	38.0	53.8	53.0
85°	0.0	0.0	2.0	2.3	1.1	21.2	10.2	12.5	17.6	16.4
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°
569.4	0°	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4
512.2	2.5°	509.9	496.0	485.8	480.7	476.5	480.4	482.7	482.7	492.3	498.0
471.9	5°	462.0	437.1	418.1	405.4	397.7	400.3	403.1	406.2	418.4	426.6
448.1	7.5°	428.9	390.6	361.7	343.9	334.5	336.0	337.9	340.5	352.4	360.6
451.5	10°	422.6	367.7	326.9	303.4	292.1	290.1	288.9	288.1	295.2	301.4
490.1	12.5°	448.1	368.8	311.9	283.3	269.4	263.4	256.6	251.3	252.4	256.4
548.4	15°	493.7	383.3	307.1	272.8	255.5	245.6	237.7	231.2	229.7	231.2
599.4	17.5°	545.9	402.8	306.5	263.7	242.2	232.0	225.5	219.5	217.6	217.8
628.0	20°	580.4	418.4	304.8	253.5	229.5	220.4	214.7	208.8	206.8	207.4
620.1	22.5°	583.8	426.6	302.3	242.2	216.7	209.1	203.4	198.0	197.7	197.7
590.3	25°	565.4	426.6	296.9	232.0	204.5	197.7	192.6	186.1	187.2	187.8
556.6	27.5°	536.8	416.4	286.7	223.8	194.0	187.0	181.9	175.9	177.3	178.2
525.2	30°	508.5	403.4	274.5	214.4	184.1	175.9	172.2	167.1	167.7	168.8
494.0	32.5°	482.1	389.5	260.0	206.8	174.2	166.0	163.2	157.5	158.4	159.5
463.4	35°	456.1	374.2	243.0	197.7	165.1	156.9	154.7	148.2	148.7	150.4
432.8	37.5°	428.0	358.1	229.2	188.7	156.4	147.9	145.6	138.8	139.4	141.4
401.1	40°	398.6	342.2	215.6	179.0	147.0	138.5	136.5	129.2	129.7	132.0
370.0	42.5°	368.8	324.9	205.1	166.6	137.4	128.3	126.3	119.5	120.4	122.9
342.8	45°	341.3	304.2	198.3	152.7	128.3	118.1	116.1	109.9	111.6	114.4
319.8	47.5°	317.8	283.0	195.5	141.1	118.7	107.6	105.9	100.8	103.7	106.8
300.3	50°	297.7	262.6	191.8	129.2	109.6	98.6	96.9	93.5	97.2	100.3
287.0	52.5°	283.3	239.4	183.8	118.4	101.7	90.9	90.4	88.7	92.1	94.9
277.0	55°	270.8	215.3	171.1	109.1	94.6	84.4	85.0	84.1	87.0	89.2
271.1	57.5°	259.5	194.3	155.0	101.7	87.0	78.8	80.4	79.3	80.7	82.1
264.9	60°	245.9	173.1	135.7	93.5	77.9	73.1	75.1	72.0	71.7	72.2
253.5	62.5°	225.8	144.5	115.6	83.3	70.0	66.9	67.7	61.8	57.2	57.2
236.8	65°	197.7	116.1	96.9	72.0	60.9	58.4	57.8	49.3	43.1	42.5
218.7	67.5°	165.1	95.5	80.4	60.6	50.7	49.0	49.6	43.3	37.1	36.5
200.6	70°	134.6	79.0	64.9	48.4	39.1	40.8	43.3	37.1	31.2	30.3
179.3	72.5°	109.3	62.9	50.7	37.1	28.9	33.7	36.8	30.3	24.6	24.1
153.0	75°	84.4	46.2	36.3	25.2	21.0	26.1	28.9	22.1	17.6	16.7
118.4	77.5°	56.4	28.6	20.4	15.9	12.5	17.8	19.3	11.6	10.2	9.9
86.1	80°	34.3	13.3	8.8	7.6	4.2	6.5	7.6	4.8	5.4	5.7
45.9	82.5°	17.3	3.7	1.4	0.3	0.0	0.0	2.3	1.1	2.3	2.8
12.5	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°
569.4	0°	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4
500.3	2.5°	516.1	528.0	539.4	557.5	576.2	594.6	613.3	631.4	637.9	642.7
432.0	5°	456.6	479.0	505.1	541.1	579.6	619.2	659.5	696.3	713.0	724.3
367.7	7.5°	395.2	424.3	461.7	515.8	576.2	639.3	702.5	760.6	787.5	809.3
307.1	10°	334.3	366.0	413.3	475.1	556.6	647.3	734.5	814.4	849.3	876.7
263.4	12.5°	280.7	310.5	360.0	428.3	526.0	641.0	752.9	849.0	890.0	920.9
232.3	15°	243.0	264.0	307.9	381.6	489.8	620.9	754.1	865.4	910.4	942.7
219.3	17.5°	222.1	229.2	257.8	334.0	449.6	594.6	743.6	871.1	919.2	949.3
207.6	20°	210.8	211.9	219.8	272.2	398.0	569.9	733.7	876.7	927.4	952.6
199.4	22.5°	201.7	201.7	203.7	222.7	331.4	540.5	730.6	886.6	938.8	954.3
190.1	25°	193.5	193.5	194.0	199.1	262.6	495.4	728.6	901.9	954.3	958.6
180.7	27.5°	185.0	185.3	185.3	188.1	211.6	434.3	720.1	921.8	973.0	964.3
171.7	30°	176.5	177.0	177.0	179.0	187.2	362.6	703.4	945.6	997.4	971.6
162.6	32.5°	168.0	168.5	168.5	170.2	176.2	289.5	682.4	967.4	1022.1	974.7
153.8	35°	159.2	160.0	159.5	161.7	168.0	230.3	655.8	989.2	1048.7	984.7
145.3	37.5°	150.4	151.0	150.7	153.0	160.0	198.9	624.9	1005.6	1084.9	1006.8
136.3	40°	141.6	141.4	141.4	143.9	151.6	189.8	586.1	1031.7	1137.1	1045.6
127.2	42.5°	132.6	132.6	132.0	134.8	144.2	183.0	549.0	1078.4	1213.0	1107.3
118.7	45°	124.4	124.1	122.9	125.5	137.1	171.1	536.0	1165.7	1325.2	1207.3
110.2	47.5°	116.4	116.1	113.3	115.6	128.6	160.3	584.7	1308.4	1480.7	1354.3
103.4	50°	109.3	109.6	104.2	106.2	120.1	152.1	690.3	1493.7	1687.2	1552.3
97.7	52.5°	102.8	102.8	95.7	96.9	109.6	144.8	790.9	1694.5	1959.7	1828.5
91.8	55°	96.3	95.7	87.8	88.4	99.1	134.3	805.9	1890.6	2331.3	2244.1
85.3	57.5°	88.9	87.8	80.4	80.4	89.5	126.6	698.6	2041.3	2792.5	2854.8
73.1	60°	79.9	79.0	74.2	72.8	81.9	133.4	492.9	2058.8	3090.0	3667.0
58.1	62.5°	68.3	69.4	66.9	64.9	74.5	138.5	292.1	1917.5	3018.0	3925.3
45.0	65°	53.8	58.4	57.8	56.4	81.9	116.7	172.5	1646.1	2797.3	3716.8
39.4	67.5°	45.9	49.0	48.2	48.2	85.8	88.7	108.5	1286.1	2493.7	3469.5
32.9	70°	39.1	42.2	39.1	39.1	64.9	53.8	75.1	898.0	2165.9	3195.9
26.3	72.5°	32.3	35.4	32.0	29.7	51.8	40.2	55.0	561.2	1854.9	2910.9
18.7	75°	24.6	28.3	25.8	22.9	34.3	30.0	41.6	326.0	1536.8	2490.5
11.3	77.5°	15.6	20.4	19.3	16.1	25.2	21.8	30.0	194.0	1185.8	1946.1
6.8	80°	9.6	10.5	10.8	10.2	14.4	14.7	20.4	110.5	811.6	1356.3
4.2	82.5°	6.2	6.2	4.8	5.4	7.1	8.5	11.6	41.6	477.0	825.7
2.5	85°	4.5	4.0	2.5	2.5	3.4	4.2	4.5	12.7	193.5	326.0
1.1	87.5°	2.3	2.0	0.8	1.1	1.7	1.4	1.1	0.6	48.7	104.2
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°
569.4	0°	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4
653.5	2.5°	659.2	668.0	668.5	668.5	660.9	660.6	645.0	643.3
749.8	5°	776.2	781.8	783.3	780.4	765.1	753.8	723.5	717.0
848.1	7.5°	883.2	894.6	894.6	887.8	862.9	839.6	795.7	779.3
929.4	10°	968.8	981.8	979.0	965.1	933.7	901.7	848.4	826.9
978.7	12.5°	1010.4	1023.8	1016.4	1000.5	969.9	936.2	880.1	855.8
992.9	15°	1009.6	1005.9	998.3	996.3	981.5	956.0	903.6	877.0
984.1	17.5°	973.6	942.5	936.5	956.3	975.0	968.8	924.0	899.1
963.1	20°	916.7	862.3	856.9	894.9	948.1	975.3	943.0	920.1
932.8	22.5°	856.6	798.0	785.5	827.4	907.6	977.3	967.1	944.2
899.4	25°	799.7	740.8	728.3	767.4	862.6	973.9	993.2	973.6
867.4	27.5°	752.1	695.2	683.5	722.6	819.2	964.3	1019.2	1005.3
835.7	30°	715.3	662.6	654.1	691.8	781.8	952.4	1052.4	1044.7
806.2	32.5°	693.7	655.2	658.3	689.2	761.7	939.3	1084.1	1087.8
791.8	35°	715.0	716.7	743.9	756.6	780.4	937.4	1127.1	1141.6
809.0	37.5°	820.6	879.6	935.9	925.5	871.9	960.3	1191.4	1218.4
884.4	40°	1000.5	1121.5	1213.0	1173.0	1038.2	1030.6	1284.1	1324.3
1018.1	42.5°	1220.3	1425.4	1576.1	1469.1	1252.6	1153.5	1416.4	1467.6
1179.8	45°	1452.3	1800.2	2037.6	1814.9	1481.2	1325.7	1616.6	1656.9
1331.4	47.5°	1696.8	2255.7	2562.8	2198.5	1693.1	1521.7	1889.7	1899.1
1475.0	50°	1964.2	2755.1	3098.2	2581.8	1897.7	1746.4	2223.4	2212.7
1642.4	52.5°	2218.9	3268.7	3622.2	2966.7	2077.2	2025.1	2610.7	2588.6
1871.3	55°	2461.9	3782.0	4149.4	3336.7	2246.6	2393.4	3070.7	2937.0
2201.3	57.5°	2743.8	4243.4	4692.7	3708.3	2483.5	2871.5	3585.1	3139.2
2833.3	60°	3160.5	4767.8	5307.1	4217.7	2933.9	3374.1	3769.5	3100.7
3590.2	62.5°	3692.5	5249.9	5753.9	4716.8	3386.3	3468.7	3497.9	2803.8
3435.8	65°	3795.9	5372.0	5779.1	4850.2	3327.9	2942.4	2855.7	2253.7
3069.0	67.5°	3521.7	5151.3	5426.7	4601.8	2943.8	2273.8	2143.0	1635.1
2828.2	70°	3214.0	4730.7	4812.5	4179.4	2589.1	1672.4	1447.2	1049.2
2663.3	72.5°	2898.7	4169.5	4000.1	3629.6	2275.5	1217.8	1043.9	745.9
2428.5	75°	2524.3	3431.6	3150.9	3015.7	1884.1	955.8	755.2	514.7
2088.9	77.5°	2021.4	2415.5	2340.4	2337.6	1415.8	698.3	503.9	322.6
1631.9	80°	1426.0	1567.6	1529.4	1760.5	949.8	506.5	303.4	179.6
1135.9	82.5°	690.3	866.8	889.8	1048.4	462.0	298.0	70.0	39.1
444.2	85°	270.2	418.1	352.7	398.0	129.7	83.0	1.7	0.0
73.1	87.5°	30.3	48.4	44.5	35.1	15.9	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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