

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: P945870

Luminaire Tested: **GALN-SB1C-940-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945870
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-SB1C-940-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 615mA 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: 4143 lumens
Efficiency: N/A
Efficacy: 76.2 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

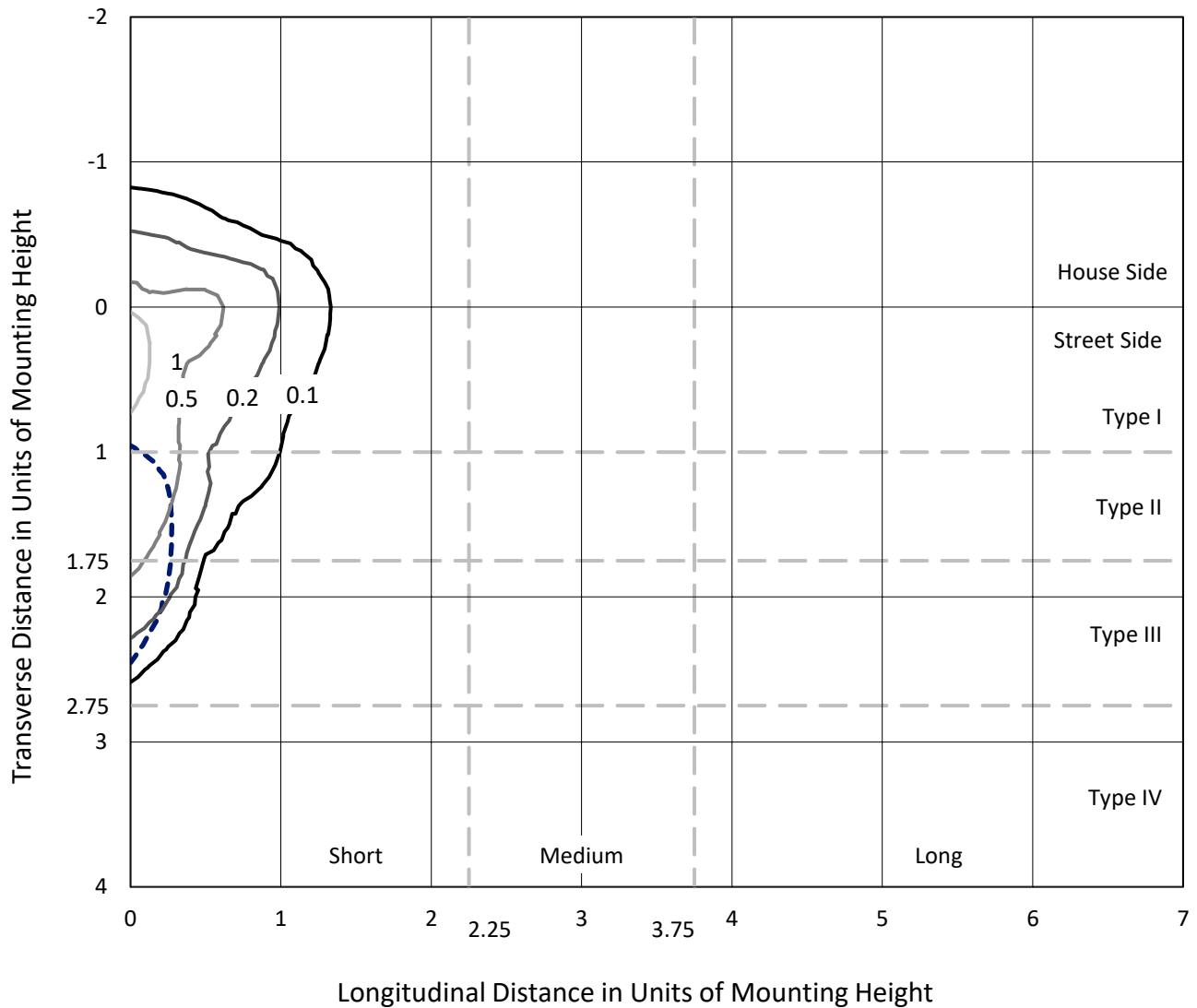
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

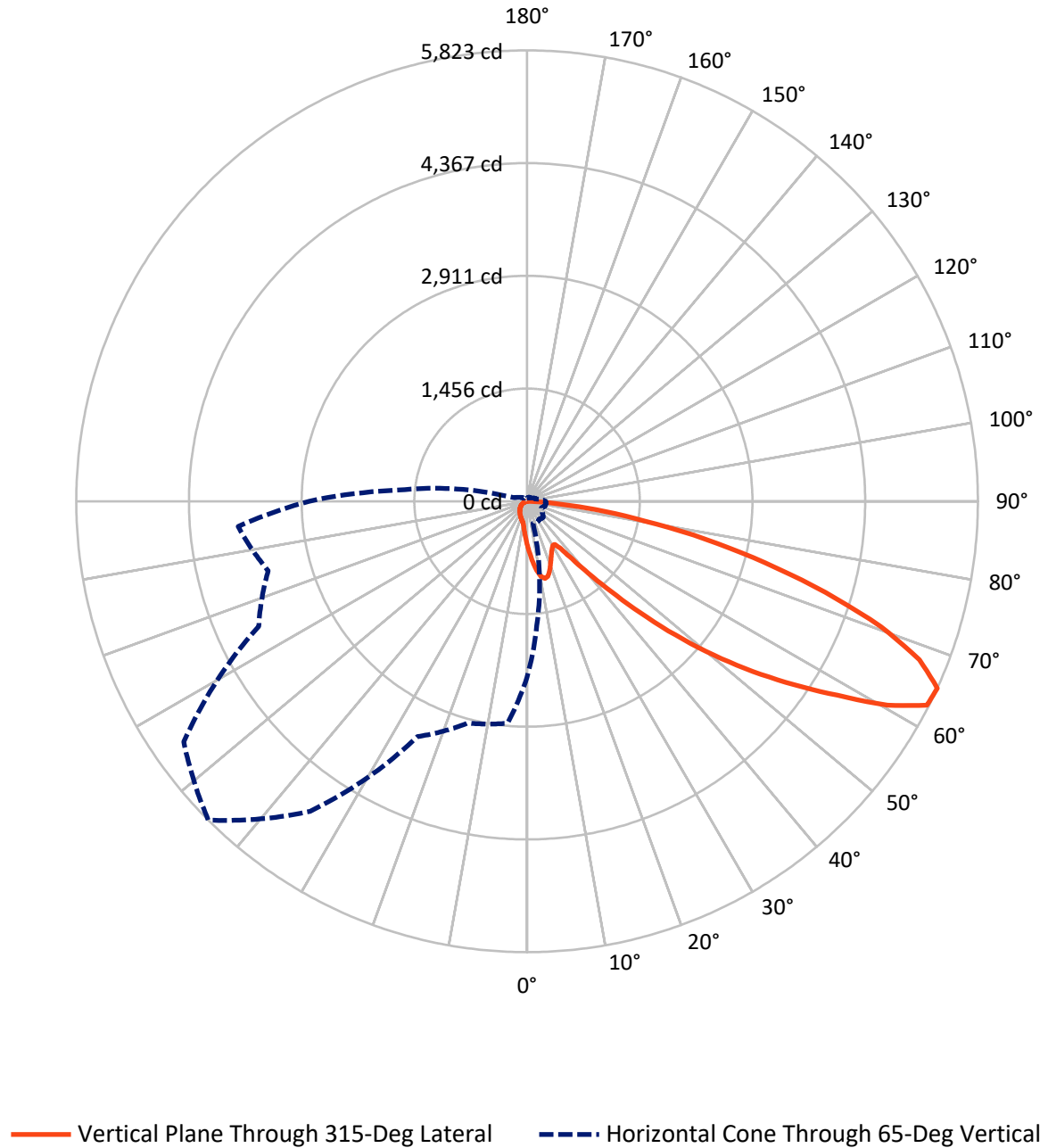
× Max cd
 - - - 1/2 Max cd



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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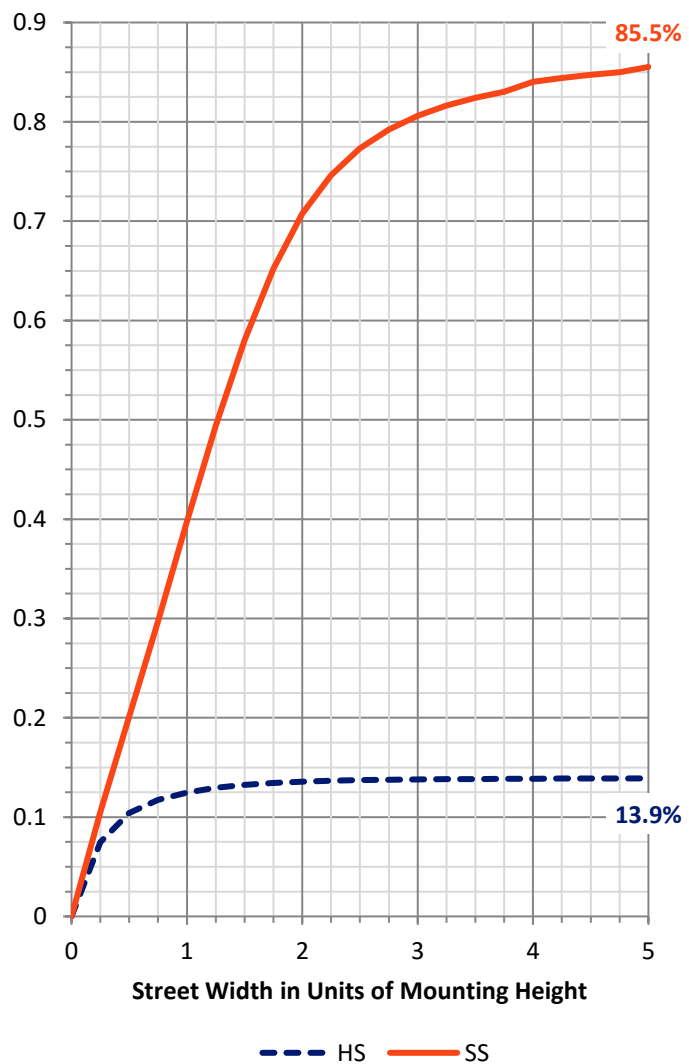
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	580.2	0.0	580.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	3562.8	0.0	3562.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	4143.0	0.0	4143.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.5	1.4
10°-20°	169.3	4.1
20°-30°	249.4	6.0
30°-40°	320.4	7.7
40°-50°	518.3	12.5
50°-60°	908.8	21.9
60°-70°	1137.2	27.4
70°-80°	664.5	16.0
80°-90°	118.6	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°	4143.0	100.0
0°-180°	4143.0	100.0

Coefficient of Utilization



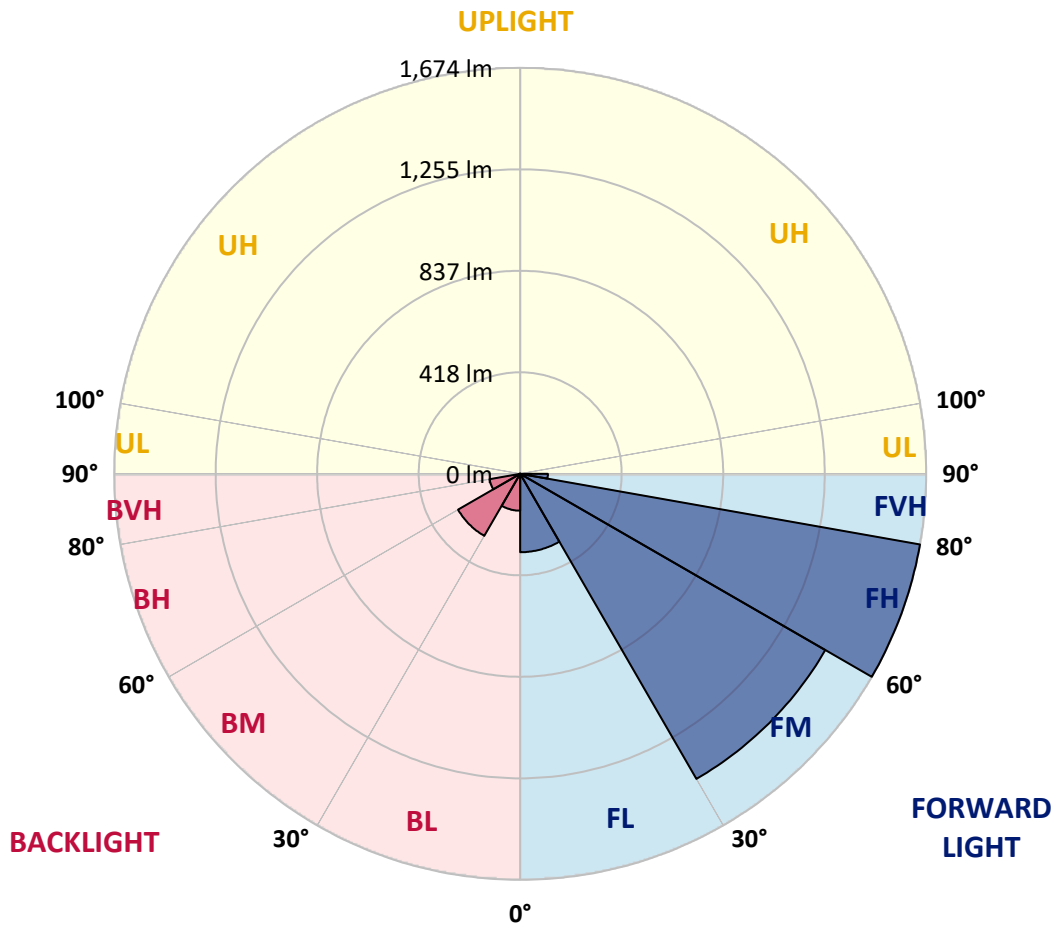
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	323.1	7.8			
FM (30°-60°)	1452.1	35.0			
FH (60°-80°)	1673.6	40.4			G1/1800
FVH (80°-90°)	114.0	2.8			G2/225
BL (0°-30°)	152.1	3.7	B1/500		
BM (30°-60°)	295.5	7.1	B1/1000		
BH (60°-80°)	128.1	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°	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7
2.5°	648.2	637.0	630.5	614.2	597.9	584.8	567.1	555.4	541.4	528.0
5°	722.4	704.4	682.7	653.0	625.9	598.2	571.4	544.8	516.9	491.2
7.5°	785.2	759.2	720.9	681.6	647.0	613.6	582.2	547.1	513.2	472.9
10°	833.1	800.0	749.8	698.1	658.4	624.8	594.2	564.5	530.3	481.8
12.5°	862.2	826.8	767.2	706.7	661.3	623.6	599.9	586.8	573.4	525.2
15°	883.6	845.4	779.5	712.7	654.7	608.5	591.1	604.2	619.6	588.8
17.5°	905.9	865.6	795.4	715.2	637.0	579.1	571.7	605.6	641.3	639.9
20°	927.0	887.1	809.4	713.5	608.5	543.4	550.0	593.4	634.8	652.2
22.5°	951.3	909.0	822.8	707.0	571.4	510.0	530.6	574.0	610.2	630.8
25°	981.0	936.7	841.7	697.3	531.4	482.3	510.9	551.4	580.8	595.1
27.5°	1012.9	969.8	866.8	692.1	499.2	462.6	488.6	524.6	550.8	560.8
30°	1052.6	1008.4	896.5	686.4	478.1	451.2	465.5	493.5	519.2	529.1
32.5°	1096.0	1051.2	925.0	672.7	465.2	442.7	443.0	460.7	484.1	496.0
35°	1150.2	1102.5	955.6	642.7	454.9	432.7	421.0	429.5	448.9	463.2
37.5°	1227.5	1169.9	992.9	599.9	439.8	417.3	397.9	399.9	414.7	430.4
40°	1334.3	1260.4	1036.9	555.4	418.1	395.6	372.5	371.6	382.4	397.9
42.5°	1478.7	1380.0	1089.7	512.9	397.3	369.3	345.6	344.2	352.8	366.2
45°	1669.4	1532.9	1154.5	476.3	381.0	343.6	320.2	319.7	326.8	338.5
47.5°	1913.4	1745.6	1219.3	451.5	372.5	323.4	299.4	300.5	306.8	317.4
50°	2229.3	2022.7	1239.0	439.0	372.5	312.5	280.8	286.6	291.7	299.7
52.5°	2608.1	2288.7	1173.9	427.5	374.7	314.0	265.1	277.4	281.1	288.0
55°	2959.1	2419.1	1009.2	411.8	375.3	322.8	251.7	270.0	276.8	279.4
57.5°	3162.9	2374.3	816.0	385.3	373.0	328.8	243.2	260.9	274.0	275.7
60°	3124.1	2217.1	600.8	365.0	356.2	326.5	240.6	246.9	267.7	270.3
62.5°	2825.0	1953.3	417.0	349.3	319.1	316.5	239.7	224.9	254.0	260.3
65°	2270.7	1537.8	294.5	300.8	279.7	294.8	235.2	202.1	237.5	246.0
67.5°	1647.4	1040.6	212.6	243.7	253.4	259.7	224.9	185.5	218.6	230.0
70°	1057.2	562.0	149.3	161.0	213.5	220.6	207.2	170.7	199.5	212.6
72.5°	751.5	331.9	107.3	112.7	171.5	183.8	182.4	154.1	177.2	193.2
75°	518.6	182.9	72.5	80.5	124.4	149.3	140.7	132.4	150.1	166.4
77.5°	325.1	81.9	43.4	55.9	81.6	117.3	96.5	102.5	117.0	132.1
80°	180.9	31.7	24.3	37.1	44.5	85.3	53.4	65.9	86.2	97.0
82.5°	39.4	4.0	10.8	16.0	17.4	49.7	28.3	38.2	54.2	53.4
85°	0.0	0.0	2.0	2.3	1.1	21.4	10.3	12.6	17.7	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°
573.7	0°	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7
516.0	2.5°	513.7	499.8	489.5	484.3	480.1	484.1	486.3	486.3	496.0	501.7
475.5	5°	465.5	440.4	421.3	408.4	400.7	403.3	406.1	409.3	421.5	429.8
451.5	7.5°	432.1	393.6	364.5	346.5	337.1	338.5	340.5	343.1	355.0	363.3
454.9	10°	425.8	370.5	329.4	305.7	294.3	292.3	291.1	290.3	297.4	303.7
493.8	12.5°	451.5	371.6	314.2	285.4	271.4	265.4	258.6	253.2	254.3	258.3
552.6	15°	497.5	386.2	309.4	274.8	257.4	247.4	239.5	232.9	231.5	232.9
603.9	17.5°	550.0	405.9	308.8	265.7	244.0	233.8	227.2	221.2	219.2	219.5
632.8	20°	584.8	421.5	307.1	255.4	231.2	222.0	216.3	210.3	208.3	208.9
624.8	22.5°	588.2	429.8	304.5	244.0	218.3	210.6	204.9	199.5	199.2	199.2
594.8	25°	569.7	429.8	299.1	233.8	206.1	199.2	194.1	187.5	188.7	189.2
560.8	27.5°	540.9	419.6	288.8	225.5	195.5	188.4	183.2	177.2	178.7	179.5
529.1	30°	512.3	406.4	276.6	216.1	185.5	177.2	173.5	168.4	169.0	170.1
497.8	32.5°	485.8	392.4	262.0	208.3	175.5	167.2	164.4	158.7	159.5	160.7
466.9	35°	459.5	377.0	244.9	199.2	166.4	158.1	155.8	149.3	149.8	151.6
436.1	37.5°	431.3	360.8	230.9	190.1	157.5	149.0	146.7	139.9	140.4	142.4
404.1	40°	401.6	344.8	217.2	180.4	148.1	139.6	137.6	130.1	130.7	133.0
372.7	42.5°	371.6	327.4	206.6	167.8	138.4	129.3	127.3	120.4	121.3	123.9
345.3	45°	343.9	306.5	199.8	153.8	129.3	119.0	117.0	110.7	112.5	115.3
322.2	47.5°	320.2	285.1	196.9	142.1	119.6	108.5	106.7	101.6	104.5	107.6
302.5	50°	300.0	264.6	193.2	130.1	110.5	99.3	97.6	94.2	97.9	101.0
289.1	52.5°	285.4	241.2	185.2	119.3	102.5	91.6	91.0	89.3	92.8	95.6
279.1	55°	272.9	216.9	172.4	109.9	95.3	85.1	85.6	84.8	87.6	89.9
273.1	57.5°	261.4	195.8	156.1	102.5	87.6	79.3	81.1	79.9	81.3	82.8
266.9	60°	247.7	174.4	136.7	94.2	78.5	73.6	75.6	72.5	72.2	72.8
255.4	62.5°	227.5	145.6	116.4	83.9	70.5	67.4	68.2	62.2	57.7	57.7
238.6	65°	199.2	117.0	97.6	72.5	61.4	58.8	58.2	49.7	43.4	42.8
220.3	67.5°	166.4	96.2	81.1	61.1	51.1	49.4	49.9	43.7	37.4	36.8
202.1	70°	135.6	79.6	65.4	48.8	39.4	41.1	43.7	37.4	31.4	30.5
180.7	72.5°	110.2	63.4	51.1	37.4	29.1	34.0	37.1	30.5	24.8	24.3
154.1	75°	85.1	46.5	36.5	25.4	21.1	26.3	29.1	22.3	17.7	16.8
119.3	77.5°	56.8	28.8	20.5	16.0	12.6	18.0	19.4	11.7	10.3	10.0
86.8	80°	34.5	13.4	8.8	7.7	4.3	6.6	7.7	4.9	5.4	5.7
46.2	82.5°	17.4	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°
573.7	0°	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7
504.0	2.5°	520.0	532.0	543.4	561.7	580.5	599.1	617.9	636.2	642.7	647.6
435.2	5°	460.1	482.6	508.9	545.1	583.9	623.9	664.4	701.5	718.4	729.8
370.5	7.5°	398.1	427.5	465.2	519.7	580.5	644.2	707.8	766.3	793.4	815.4
309.4	10°	336.8	368.7	416.4	478.6	560.8	652.2	740.1	820.6	855.7	883.3
265.4	12.5°	282.8	312.8	362.8	431.5	530.0	645.9	758.6	855.4	896.8	927.9
234.0	15°	244.9	266.0	310.2	384.4	493.5	625.6	759.8	871.9	917.3	949.8
220.9	17.5°	223.8	230.9	259.7	336.5	452.9	599.1	749.2	877.6	926.2	956.4
209.2	20°	212.3	213.5	221.5	274.3	401.0	574.2	739.2	883.3	934.4	959.8
200.9	22.5°	203.2	203.2	205.2	224.3	333.9	544.6	736.1	893.3	945.8	961.5
191.5	25°	194.9	194.9	195.5	200.6	264.6	499.2	734.1	908.7	961.5	965.8
182.1	27.5°	186.4	186.7	186.7	189.5	213.2	437.5	725.5	928.7	980.4	971.5
173.0	30°	177.8	178.4	178.4	180.4	188.7	365.3	708.7	952.7	1004.9	979.0
163.8	32.5°	169.2	169.8	169.8	171.5	177.5	291.7	687.6	974.7	1029.8	982.1
155.0	35°	160.4	161.3	160.7	163.0	169.2	232.0	660.7	996.6	1056.6	992.1
146.4	37.5°	151.6	152.1	151.8	154.1	161.3	200.4	629.6	1013.2	1093.1	1014.3
137.3	40°	142.7	142.4	142.4	145.0	152.7	191.2	590.5	1039.5	1145.6	1053.4
128.1	42.5°	133.6	133.6	133.0	135.9	145.3	184.4	553.1	1086.6	1222.1	1115.7
119.6	45°	125.3	125.0	123.9	126.4	138.1	172.4	540.0	1174.5	1335.1	1216.4
111.0	47.5°	117.3	117.0	114.2	116.4	129.6	161.5	589.1	1318.3	1491.8	1364.5
104.2	50°	110.2	110.5	105.0	107.0	121.0	153.3	695.5	1505.0	1699.9	1564.0
98.5	52.5°	103.6	103.6	96.5	97.6	110.5	145.8	796.9	1707.3	1974.5	1842.3
92.5	55°	97.0	96.5	88.5	89.0	99.9	135.3	812.0	1904.8	2348.9	2261.0
85.9	57.5°	89.6	88.5	81.1	81.1	90.2	127.6	703.8	2056.7	2813.6	2876.4
73.6	60°	80.5	79.6	74.8	73.4	82.5	134.4	496.6	2074.4	3113.2	3694.6
58.5	62.5°	68.8	69.9	67.4	65.4	75.1	139.6	294.3	1931.9	3040.8	3954.9
45.4	65°	54.2	58.8	58.2	56.8	82.5	117.6	173.8	1658.5	2818.4	3744.9
39.7	67.5°	46.2	49.4	48.5	48.5	86.5	89.3	109.3	1295.8	2512.5	3495.7
33.1	70°	39.4	42.5	39.4	39.4	65.4	54.2	75.6	904.7	2182.2	3220.0
26.5	72.5°	32.5	35.7	32.3	30.0	52.2	40.5	55.4	565.4	1868.9	2932.9
18.8	75°	24.8	28.5	26.0	23.1	34.5	30.3	42.0	328.5	1548.3	2509.3
11.4	77.5°	15.7	20.5	19.4	16.3	25.4	22.0	30.3	195.5	1194.7	1960.8
6.8	80°	9.7	10.6	10.8	10.3	14.6	14.8	20.5	111.3	817.7	1366.5
4.3	82.5°	6.3	6.3	4.9	5.4	7.1	8.6	11.7	42.0	480.6	832.0
2.6	85°	4.6	4.0	2.6	2.6	3.4	4.3	4.6	12.8	194.9	328.5
1.1	87.5°	2.3	2.0	0.9	1.1	1.7	1.4	1.1	0.6	49.1	105.0
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°
573.7	0°	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7
658.4	2.5°	664.1	673.0	673.6	673.6	665.9	665.6	649.9	648.2
755.5	5°	782.0	787.7	789.2	786.3	770.9	759.5	728.9	722.4
854.5	7.5°	889.9	901.3	901.3	894.5	869.4	846.0	801.7	785.2
936.4	10°	976.1	989.2	986.4	972.4	940.7	908.5	854.8	833.1
986.1	12.5°	1018.1	1031.5	1024.0	1008.1	977.2	943.3	886.8	862.2
1000.4	15°	1017.2	1013.5	1005.8	1003.8	988.9	963.3	910.5	883.6
991.5	17.5°	981.0	949.6	943.6	963.5	982.4	976.1	931.0	905.9
970.4	20°	923.6	868.8	863.4	901.6	955.3	982.7	950.1	927.0
939.9	22.5°	863.1	804.0	791.4	833.7	914.5	984.7	974.4	951.3
906.2	25°	805.7	746.3	733.8	773.2	869.1	981.2	1000.6	981.0
873.9	27.5°	757.8	700.4	688.7	728.1	825.4	971.5	1026.9	1012.9
842.0	30°	720.7	667.6	659.0	697.0	787.7	959.5	1060.3	1052.6
812.3	32.5°	699.0	660.2	663.3	694.4	767.5	946.4	1092.3	1096.0
797.7	35°	720.4	722.1	749.5	762.3	786.3	944.4	1135.6	1150.2
815.1	37.5°	826.8	886.2	943.0	932.4	878.5	967.5	1200.4	1227.5
891.0	40°	1008.1	1129.9	1222.1	1181.9	1046.0	1038.3	1293.8	1334.3
1025.8	42.5°	1229.5	1436.2	1588.0	1480.1	1262.1	1162.2	1427.0	1478.7
1188.7	45°	1463.3	1813.8	2052.9	1828.6	1492.4	1335.7	1628.8	1669.4
1341.4	47.5°	1709.6	2272.7	2582.1	2215.1	1705.9	1533.2	1904.0	1913.4
1486.1	50°	1979.0	2775.9	3121.5	2601.2	1912.0	1759.5	2240.2	2229.3
1654.8	52.5°	2235.6	3293.3	3649.5	2989.1	2092.9	2040.4	2630.3	2608.1
1885.4	55°	2480.5	3810.5	4180.7	3361.8	2263.6	2411.4	3093.8	2959.1
2217.9	57.5°	2764.5	4275.4	4728.1	3736.3	2502.2	2893.2	3612.1	3162.9
2854.7	60°	3184.3	4803.7	5347.1	4249.5	2956.0	3399.5	3797.9	3124.1
3617.3	62.5°	3720.3	5289.5	5797.2	4752.4	3411.8	3494.8	3524.2	2825.0
3461.7	65°	3824.5	5412.5	5822.6	4886.8	3353.0	2964.5	2877.2	2270.7
3092.1	67.5°	3548.2	5190.2	5467.6	4636.5	2966.0	2291.0	2159.1	1647.4
2849.5	70°	3238.3	4766.3	4848.8	4210.9	2608.6	1685.1	1458.2	1057.2
2683.4	72.5°	2920.6	4200.9	4030.3	3657.0	2292.7	1227.0	1051.7	751.5
2446.8	75°	2543.3	3457.4	3174.6	3038.5	1898.3	963.0	760.9	518.6
2104.6	77.5°	2036.7	2433.7	2358.1	2355.2	1426.5	703.5	507.7	325.1
1644.2	80°	1436.8	1579.5	1540.9	1773.8	957.0	510.3	305.7	180.9
1144.5	82.5°	695.5	873.4	896.5	1056.3	465.5	300.3	70.5	39.4
447.5	85°	272.3	421.3	355.3	401.0	130.7	83.6	1.7	0.0
73.6	87.5°	30.5	48.8	44.8	35.4	16.0	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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