

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: P945364

Luminaire Tested: **GALN-SB1B-830-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945364
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-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3863 lumens
Efficiency: N/A
Efficacy: 97.1 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

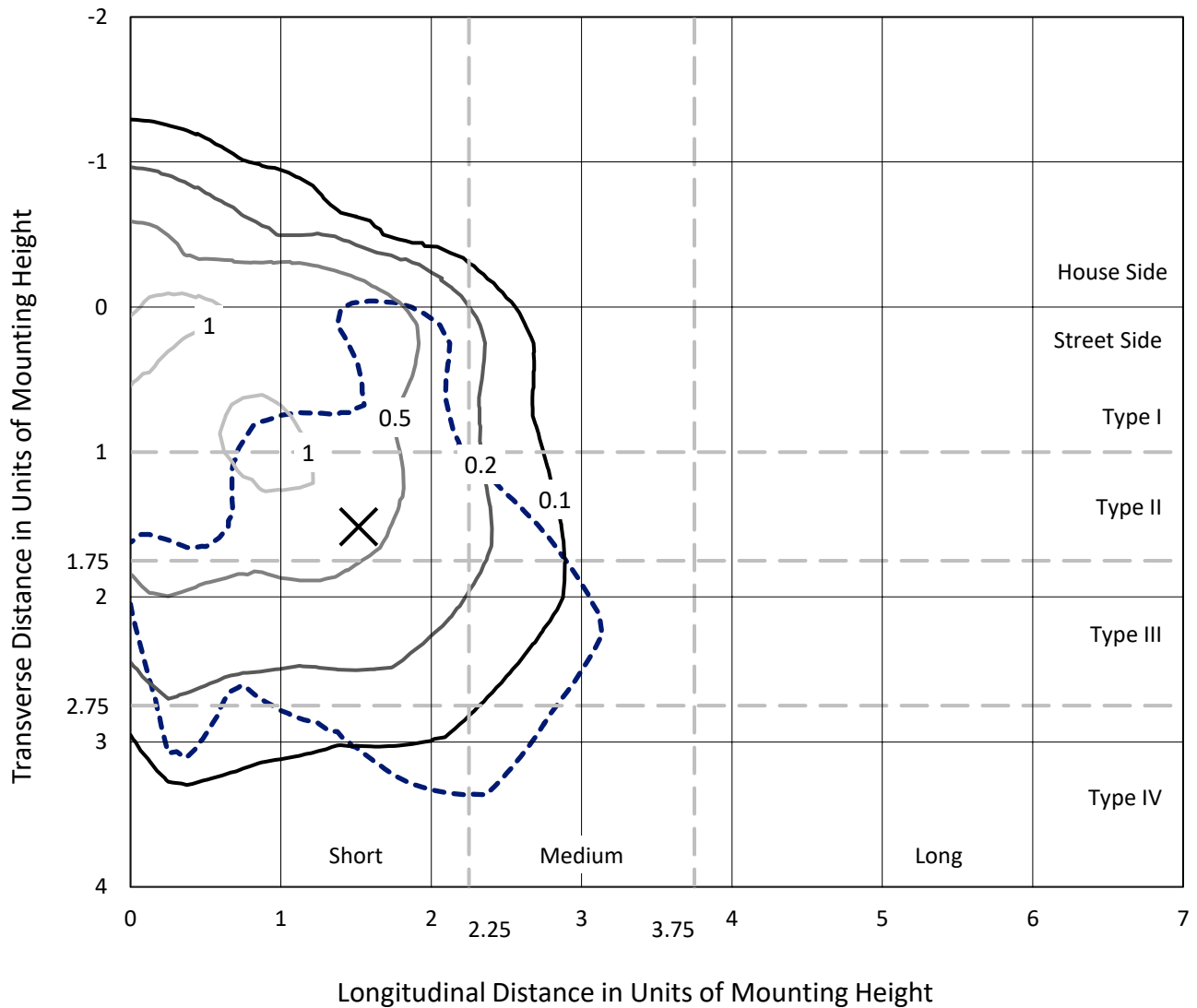
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

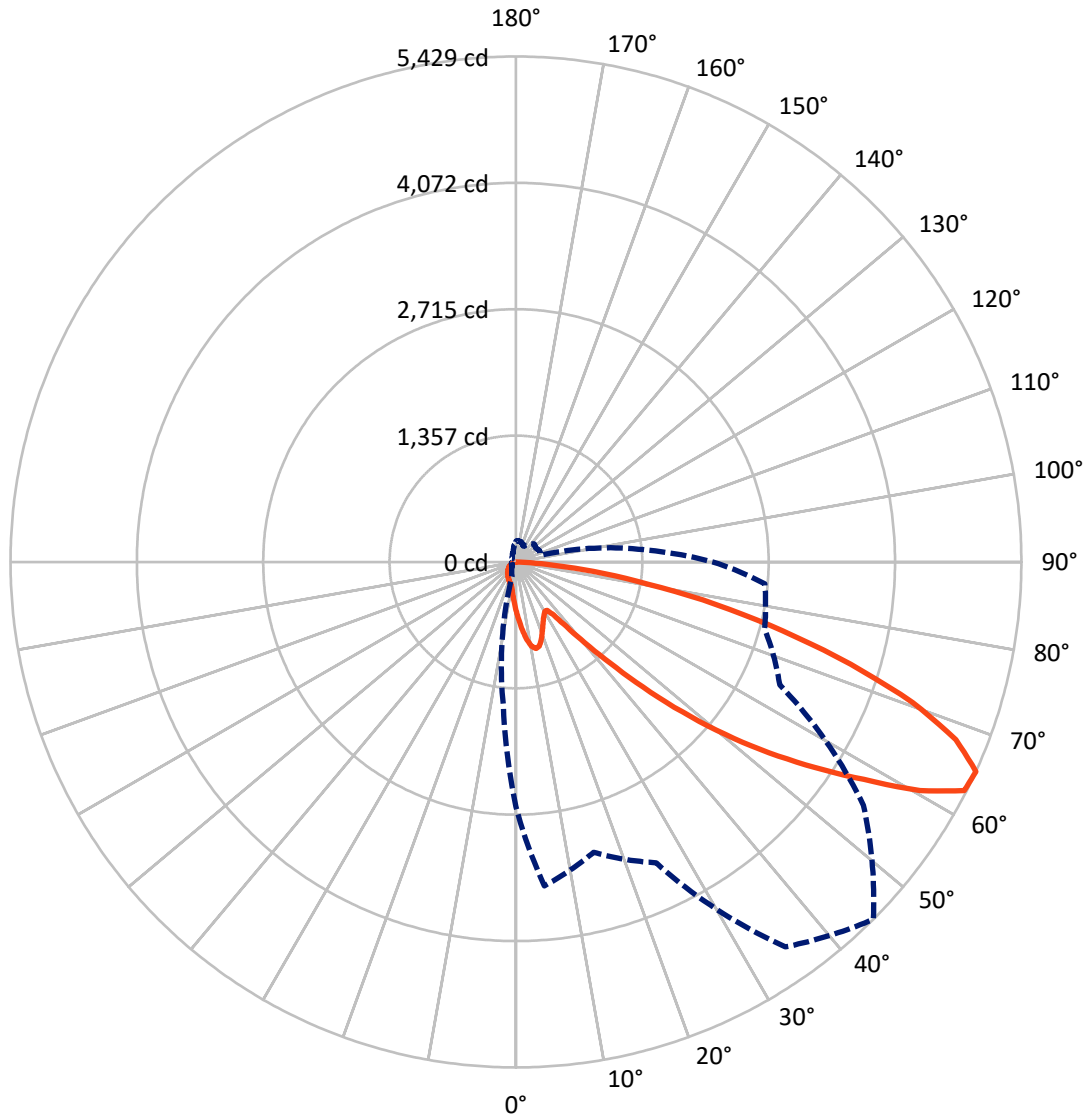
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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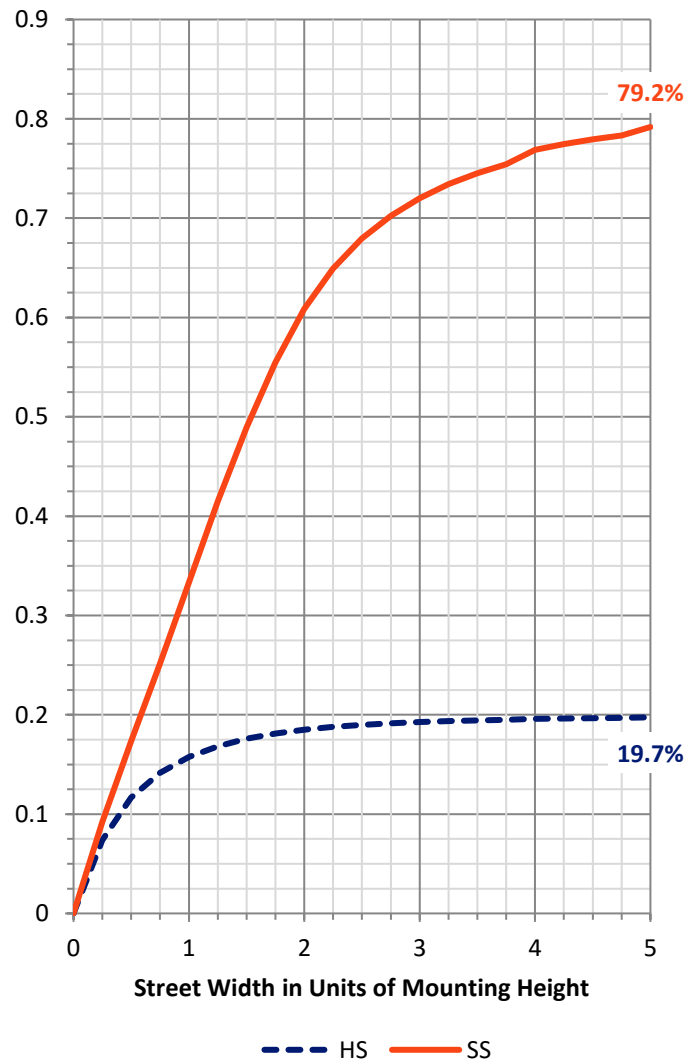
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	767.8	0.0	767.8
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	3095.2	0.0	3095.2
	% Fixture	80.1	0.0	80.1
Total	Lumens	3863.0	0.0	3863.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.7	1.4
10°-20°	157.9	4.1
20°-30°	232.6	6.0
30°-40°	298.8	7.7
40°-50°	483.2	12.5
50°-60°	847.4	21.9
60°-70°	1060.3	27.4
70°-80°	619.6	16.0
80°-90°	110.5	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°	3863.0	100.0
0°-180°	3863.0	100.0



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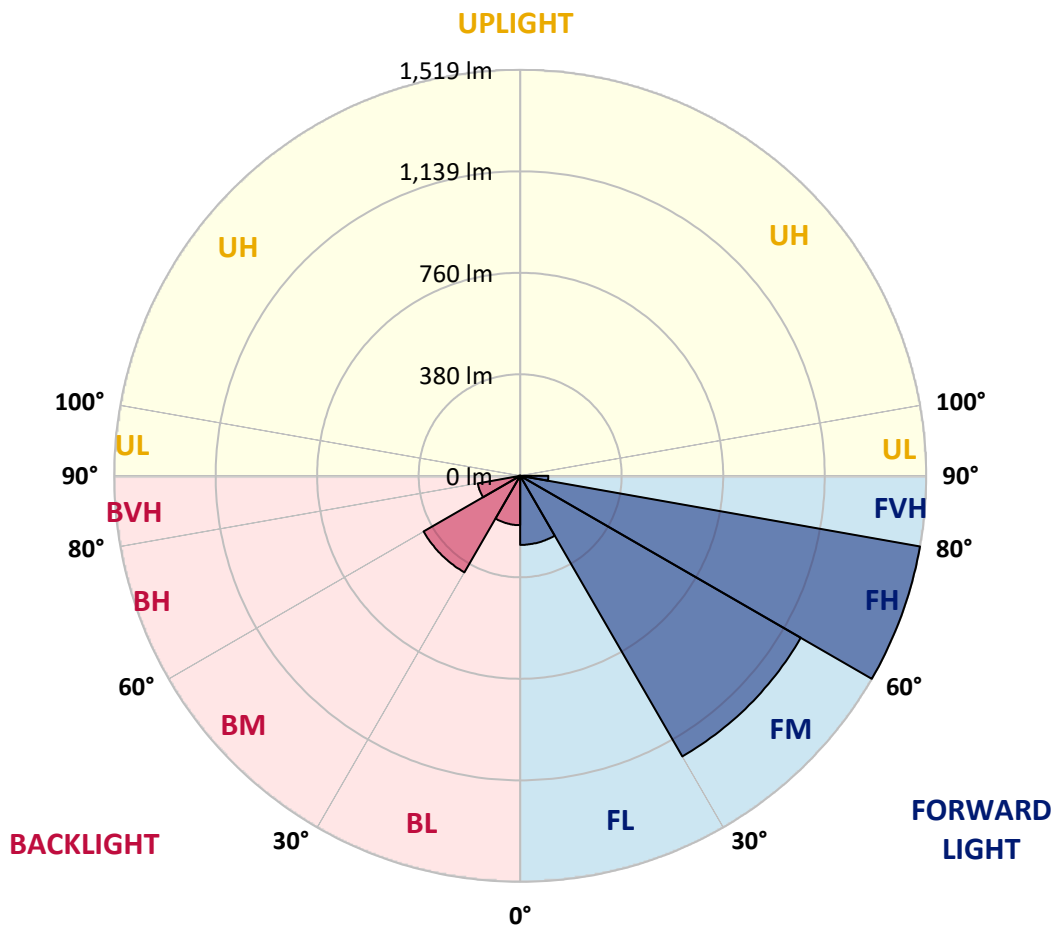
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	258.5	6.7			
FM (30°-60°)	1212.3	31.4			
FH (60°-80°)	1519.0	39.3			G1/1800
FVH (80°-90°)	105.4	2.7			G2/225
BL (0°-30°)	184.6	4.8	B1/500		
BM (30°-60°)	417.2	10.8	B1/1000		
BH (60°-80°)	160.9	4.2	B1/500		G1/500
BVH (80°-90°)	5.2	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°	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9
2.5°	599.3	603.8	613.9	619.3	627.5	628.0	628.0	620.9	620.6	606.0
5°	669.8	680.5	704.4	729.2	734.5	735.8	733.2	718.8	708.1	679.7
7.5°	739.8	760.3	796.8	829.8	840.4	840.4	834.0	810.6	788.8	747.5
10°	797.8	823.6	873.1	910.1	922.4	919.7	906.7	877.1	847.1	797.0
12.5°	836.2	865.2	919.4	949.3	961.8	954.8	939.9	911.2	879.5	826.8
15°	855.3	885.6	932.8	948.5	945.0	937.8	935.9	922.1	898.2	848.9
17.5°	863.6	891.8	924.5	914.7	885.4	879.8	898.4	916.0	910.1	868.1
20°	871.3	895.0	904.8	861.2	810.1	805.0	840.7	890.7	916.3	885.9
22.5°	881.9	896.6	876.3	804.7	749.7	738.0	777.3	852.6	918.1	908.5
25°	896.6	900.6	844.9	751.3	695.9	684.2	720.9	810.3	914.9	933.0
27.5°	914.1	905.9	814.9	706.5	653.1	642.1	678.9	769.6	905.9	957.5
30°	937.0	912.8	785.1	672.0	622.5	614.5	649.9	734.5	894.7	988.6
32.5°	960.2	915.7	757.4	651.7	615.5	618.5	647.5	715.6	882.5	1018.4
35°	985.2	925.0	743.8	671.7	673.3	698.8	710.8	733.2	880.6	1058.9
37.5°	1019.2	945.8	760.0	771.0	826.3	879.3	869.4	819.1	902.1	1119.3
40°	1068.2	982.3	830.8	939.9	1053.6	1139.5	1102.0	975.3	968.1	1206.3
42.5°	1139.5	1040.3	956.4	1146.4	1339.1	1480.7	1380.1	1176.8	1083.6	1330.6
45°	1244.9	1134.2	1108.4	1364.4	1691.2	1914.2	1705.0	1391.5	1245.4	1518.7
47.5°	1391.0	1272.3	1250.8	1594.1	2119.1	2407.6	2065.4	1590.6	1429.6	1775.3
50°	1585.0	1458.3	1385.7	1845.3	2588.3	2910.6	2425.4	1782.7	1640.6	2088.8
52.5°	1841.0	1717.8	1543.0	2084.5	3070.8	3402.9	2787.1	1951.5	1902.5	2452.6
55°	2190.2	2108.2	1758.0	2312.9	3553.0	3898.1	3134.6	2110.6	2248.5	2884.7
57.5°	2623.4	2682.0	2068.0	2577.6	3986.5	4408.5	3483.8	2333.1	2697.7	3368.0
60°	2902.8	3444.9	2661.7	2969.1	4479.1	4985.8	3962.3	2756.2	3169.8	3541.3
62.5°	2835.2	3687.6	3372.8	3468.9	4932.0	5405.4	4431.2	3181.2	3258.6	3286.1
65°	2627.9	3491.8	3227.8	3566.0	5046.7	5429.1	4556.5	3126.4	2764.2	2682.8
67.5°	2342.7	3259.4	2883.1	3308.4	4839.4	5098.1	4323.1	2765.5	2136.1	2013.2
70°	2034.8	3002.4	2656.9	3019.4	4444.2	4521.1	3926.3	2432.3	1571.2	1359.6
72.5°	1742.6	2734.7	2502.1	2723.2	3917.0	3757.9	3409.8	2137.7	1144.1	980.7
75°	1443.7	2339.7	2281.4	2371.4	3223.8	2960.1	2833.1	1770.0	897.9	709.5
77.5°	1114.0	1828.2	1962.4	1899.0	2269.2	2198.7	2196.0	1330.1	656.0	473.4
80°	762.4	1274.2	1533.1	1339.6	1472.7	1436.8	1653.9	892.3	475.8	285.0
82.5°	448.1	775.7	1067.1	648.5	814.3	835.9	984.9	434.0	280.0	65.7
85°	181.8	306.3	417.3	253.9	392.8	331.3	373.9	121.9	78.0	1.6
87.5°	45.8	97.9	68.7	28.5	45.5	41.8	33.0	14.9	3.2	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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
534.9	0°	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9
604.4	2.5°	594.0	587.9	572.7	557.5	545.3	528.8	517.9	504.8	492.3	481.1
673.6	5°	656.8	636.6	608.9	583.6	557.8	532.8	508.0	481.9	458.0	443.4
732.1	7.5°	707.9	672.2	635.5	603.3	572.2	542.9	510.2	478.5	441.0	421.0
776.8	10°	745.9	699.1	650.9	613.9	582.5	554.1	526.4	494.5	449.2	424.2
803.9	12.5°	771.0	715.3	658.9	616.6	581.5	559.4	547.1	534.6	489.7	460.4
823.9	15°	788.2	726.8	664.5	610.5	567.4	551.1	563.4	577.7	549.0	515.2
844.7	17.5°	807.1	741.7	666.9	594.0	540.0	533.0	564.7	598.0	596.6	563.1
864.4	20°	827.1	754.7	665.3	567.4	506.7	512.8	553.3	591.9	608.1	590.0
887.0	22.5°	847.6	767.2	659.2	532.8	475.6	494.7	535.2	569.0	588.1	582.5
914.7	25°	873.4	784.8	650.1	495.5	449.7	476.4	514.1	541.6	554.9	554.6
944.5	27.5°	904.3	808.2	645.3	465.4	431.4	455.6	489.1	513.6	522.9	522.9
981.5	30°	940.2	835.9	640.0	445.8	420.7	434.0	460.1	484.1	493.4	493.4
1021.9	32.5°	980.1	862.5	627.2	433.8	412.8	413.0	429.5	451.3	462.5	464.1
1072.5	35°	1028.0	891.0	599.3	424.2	403.4	392.5	400.5	418.6	431.9	435.4
1144.6	37.5°	1090.8	925.8	559.4	410.1	389.1	371.0	372.8	386.7	401.3	406.6
1244.1	40°	1175.2	966.8	517.9	389.9	368.8	347.3	346.5	356.6	371.0	376.8
1378.8	42.5°	1286.7	1016.0	478.2	370.4	344.4	322.3	320.9	328.9	341.4	347.6
1556.5	45°	1429.3	1076.5	444.2	355.3	320.4	298.6	298.1	304.7	315.6	322.0
1784.1	47.5°	1627.6	1136.9	421.0	347.3	301.5	279.2	280.2	286.1	295.9	300.4
2078.7	50°	1886.0	1155.2	409.3	347.3	291.4	261.9	267.2	272.0	279.4	282.1
2431.8	52.5°	2134.0	1094.6	398.6	349.4	292.7	247.2	258.7	262.1	268.5	269.6
2759.1	55°	2255.6	941.0	384.0	349.9	301.0	234.7	251.7	258.1	260.5	260.3
2949.1	57.5°	2213.9	760.8	359.3	347.8	306.6	226.7	243.2	255.5	257.1	254.7
2913.0	60°	2067.2	560.2	340.4	332.1	304.4	224.3	230.2	249.6	252.0	248.8
2634.1	62.5°	1821.3	388.8	325.7	297.5	295.1	223.5	209.7	236.8	242.7	238.2
2117.3	65°	1433.9	274.6	280.5	260.8	274.9	219.3	188.4	221.4	229.4	222.5
1536.0	67.5°	970.3	198.3	227.3	236.3	242.2	209.7	173.0	203.8	214.5	205.4
985.7	70°	524.0	139.2	150.1	199.1	205.7	193.2	159.1	186.0	198.3	188.4
700.7	72.5°	309.5	100.1	105.1	159.9	171.4	170.1	143.7	165.3	180.2	168.5
483.5	75°	170.6	67.6	75.0	116.0	139.2	131.2	123.5	140.0	155.1	143.7
303.1	77.5°	76.4	40.5	52.2	76.1	109.4	89.9	95.5	109.1	123.2	111.2
168.7	80°	29.5	22.6	34.6	41.5	79.6	49.8	61.5	80.4	90.5	80.9
36.7	82.5°	3.7	10.1	14.9	16.2	46.3	26.3	35.7	50.6	49.8	43.1
0.0	85°	0.0	1.9	2.1	1.1	20.0	9.6	11.7	16.5	15.4	11.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	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°
534.9	0°	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9
479.0	2.5°	466.0	456.4	451.6	447.6	451.3	453.5	453.5	462.5	467.8	470.0
434.0	5°	410.6	392.8	380.8	373.6	376.0	378.7	381.6	393.1	400.8	405.8
402.9	7.5°	367.0	339.8	323.1	314.3	315.6	317.5	319.9	331.1	338.8	345.4
397.1	10°	345.4	307.1	285.0	274.4	272.5	271.4	270.6	277.3	283.2	288.5
421.0	12.5°	346.5	293.0	266.1	253.1	247.5	241.1	236.0	237.1	240.8	247.5
463.8	15°	360.1	288.5	256.3	240.0	230.7	223.3	217.2	215.8	217.2	218.2
512.8	17.5°	378.4	287.9	247.8	227.5	218.0	211.8	206.2	204.4	204.6	206.0
545.3	20°	393.1	286.3	238.2	215.6	207.0	201.7	196.1	194.3	194.8	195.1
548.5	22.5°	400.8	284.0	227.5	203.6	196.4	191.1	186.0	185.8	185.8	187.3
531.2	25°	400.8	278.9	218.0	192.1	185.8	181.0	174.8	175.9	176.4	178.6
504.3	27.5°	391.2	269.3	210.2	182.3	175.6	170.8	165.3	166.6	167.4	169.8
477.7	30°	379.0	257.9	201.5	173.0	165.3	161.8	157.0	157.5	158.6	161.3
452.9	32.5°	365.9	244.3	194.3	163.7	155.9	153.3	148.0	148.8	149.8	152.8
428.5	35°	351.5	228.3	185.8	155.1	147.4	145.3	139.2	139.7	141.3	144.5
402.1	37.5°	336.4	215.3	177.2	146.9	138.9	136.8	130.4	130.9	132.8	136.5
374.4	40°	321.5	202.5	168.2	138.1	130.1	128.3	121.4	121.9	124.0	128.0
346.5	42.5°	305.2	192.7	156.5	129.1	120.6	118.7	112.3	113.1	115.5	119.5
320.7	45°	285.8	186.3	143.4	120.6	111.0	109.1	103.3	104.9	107.5	111.5
298.6	47.5°	265.9	183.6	132.5	111.5	101.1	99.5	94.7	97.4	100.3	103.5
279.7	50°	246.7	180.2	121.4	103.0	92.6	91.0	87.8	91.3	94.2	97.1
266.1	52.5°	224.9	172.7	111.2	95.5	85.4	84.9	83.3	86.5	89.2	91.8
254.4	55°	202.3	160.7	102.5	88.9	79.3	79.8	79.0	81.7	83.8	86.2
243.8	57.5°	182.6	145.6	95.5	81.7	74.0	75.6	74.5	75.8	77.2	80.1
231.0	60°	162.6	127.5	87.8	73.2	68.7	70.5	67.6	67.3	67.9	68.7
212.1	62.5°	135.7	108.6	78.2	65.7	62.8	63.6	58.0	53.8	53.8	54.6
185.8	65°	109.1	91.0	67.6	57.2	54.8	54.3	46.3	40.5	39.9	42.3
155.1	67.5°	89.7	75.6	56.9	47.6	46.0	46.6	40.7	34.9	34.3	37.0
126.4	70°	74.2	60.9	45.5	36.7	38.3	40.7	34.9	29.3	28.5	30.9
102.7	72.5°	59.1	47.6	34.9	27.1	31.7	34.6	28.5	23.2	22.6	24.7
79.3	75°	43.4	34.1	23.7	19.7	24.5	27.1	20.8	16.5	15.7	17.6
53.0	77.5°	26.9	19.2	14.9	11.7	16.8	18.1	10.9	9.6	9.3	10.6
32.2	80°	12.5	8.2	7.2	4.0	6.1	7.2	4.5	5.1	5.3	6.4
16.2	82.5°	3.5	1.3	0.3	0.0	0.0	2.1	1.1	2.1	2.7	4.0
1.3	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.3	2.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
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°
534.9	0°	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9
484.9	2.5°	496.0	506.7	523.7	541.3	558.6	576.2	593.2	599.3
429.0	5°	450.0	474.5	508.3	544.5	581.7	619.5	654.1	669.8
371.2	7.5°	398.6	433.8	484.6	541.3	600.6	660.0	714.5	739.8
314.0	10°	343.8	388.3	446.3	522.9	608.1	690.1	765.1	797.8
263.7	12.5°	291.7	338.2	402.4	494.2	602.2	707.3	797.6	836.2
228.3	15°	248.0	289.3	358.5	460.1	583.3	708.4	813.0	855.3
208.6	17.5°	215.3	242.2	313.8	422.3	558.6	698.6	818.3	863.6
198.0	20°	199.1	206.5	255.7	373.9	535.4	689.3	823.6	871.3
189.5	22.5°	189.5	191.3	209.2	311.4	507.8	686.3	833.0	881.9
181.8	25°	181.8	182.3	187.1	246.7	465.4	684.5	847.3	896.6
173.8	27.5°	174.0	174.0	176.7	198.8	408.0	676.5	866.0	914.1
165.8	30°	166.3	166.3	168.2	175.9	340.6	660.8	888.3	937.0
157.8	32.5°	158.3	158.3	159.9	165.5	272.0	641.1	908.8	960.2
149.6	35°	150.4	149.8	152.0	157.8	216.4	616.1	929.3	985.2
141.3	37.5°	141.8	141.6	143.7	150.4	186.8	587.1	944.7	1019.2
133.1	40°	132.8	132.8	135.2	142.4	178.3	550.6	969.2	1068.2
124.5	42.5°	124.5	124.0	126.7	135.5	171.9	515.7	1013.1	1139.5
116.8	45°	116.6	115.5	117.9	128.8	160.7	503.5	1095.1	1244.9
109.4	47.5°	109.1	106.4	108.6	120.8	150.6	549.3	1229.2	1391.0
102.7	50°	103.0	97.9	99.8	112.8	142.9	648.5	1403.3	1585.0
96.6	52.5°	96.6	89.9	91.0	103.0	136.0	743.0	1591.9	1841.0
90.5	55°	89.9	82.5	83.0	93.1	126.1	757.1	1776.1	2190.2
83.6	57.5°	82.5	75.6	75.6	84.1	119.0	656.3	1917.7	2623.4
75.0	60°	74.2	69.7	68.4	76.9	125.3	463.0	1934.2	2902.8
64.1	62.5°	65.2	62.8	60.9	70.0	130.1	274.4	1801.4	2835.2
50.6	65°	54.8	54.3	53.0	76.9	109.6	162.1	1546.4	2627.9
43.1	67.5°	46.0	45.2	45.2	80.6	83.3	101.9	1208.2	2342.7
36.7	70°	39.7	36.7	36.7	60.9	50.6	70.5	843.6	2034.8
30.3	72.5°	33.3	30.1	27.9	48.7	37.8	51.6	527.2	1742.6
23.2	75°	26.6	24.2	21.6	32.2	28.2	39.1	306.3	1443.7
14.6	77.5°	19.2	18.1	15.2	23.7	20.5	28.2	182.3	1114.0
9.0	80°	9.8	10.1	9.6	13.6	13.8	19.2	103.8	762.4
5.9	82.5°	5.9	4.5	5.1	6.7	8.0	10.9	39.1	448.1
4.3	85°	3.7	2.4	2.4	3.2	4.0	4.3	12.0	181.8
2.1	87.5°	1.9	0.8	1.1	1.6	1.3	1.1	0.5	45.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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