

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: P950007

Luminaire Tested: **GALN-SB4C-830-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950007
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-SB4C-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 615mA 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: 20583 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

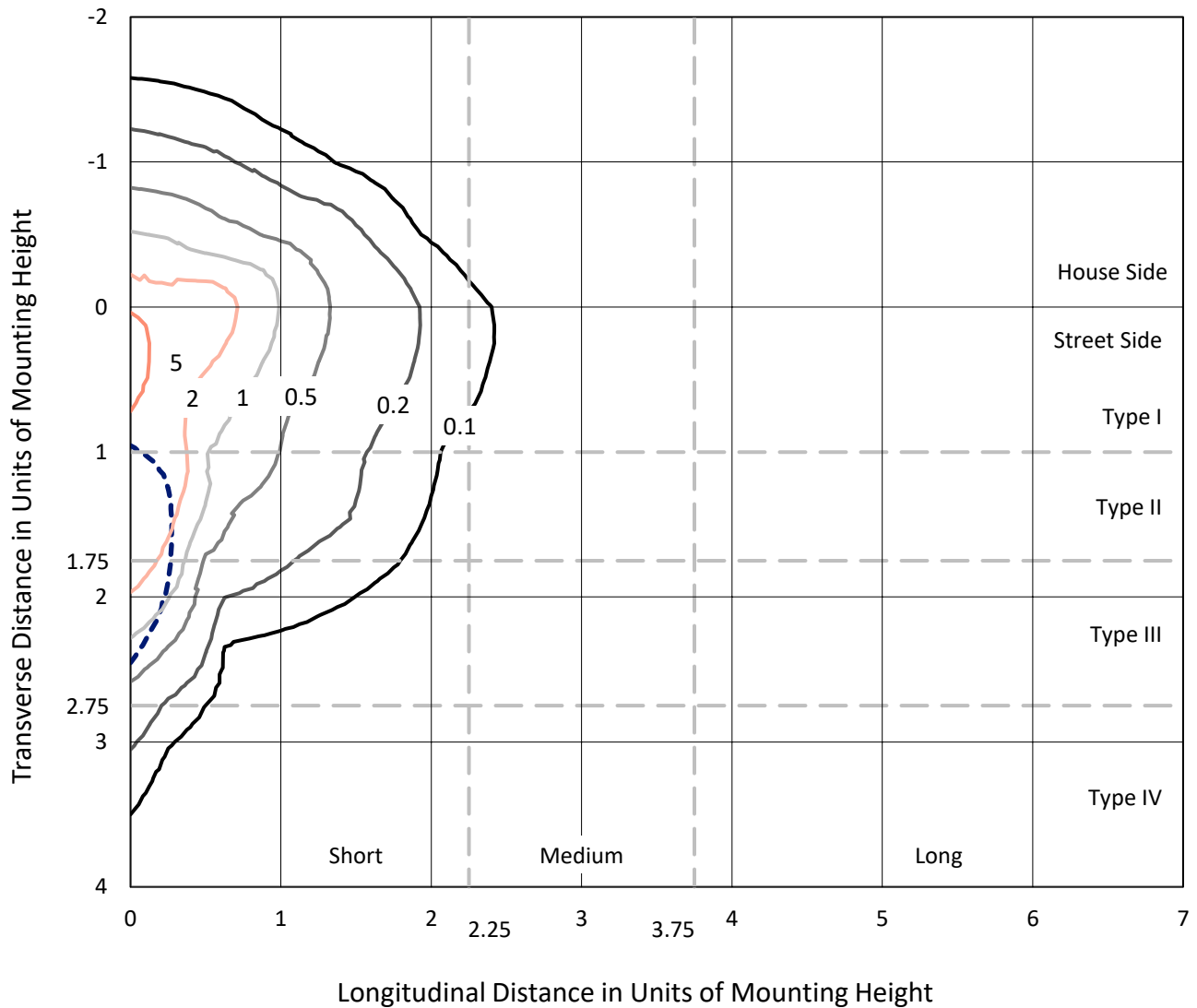
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

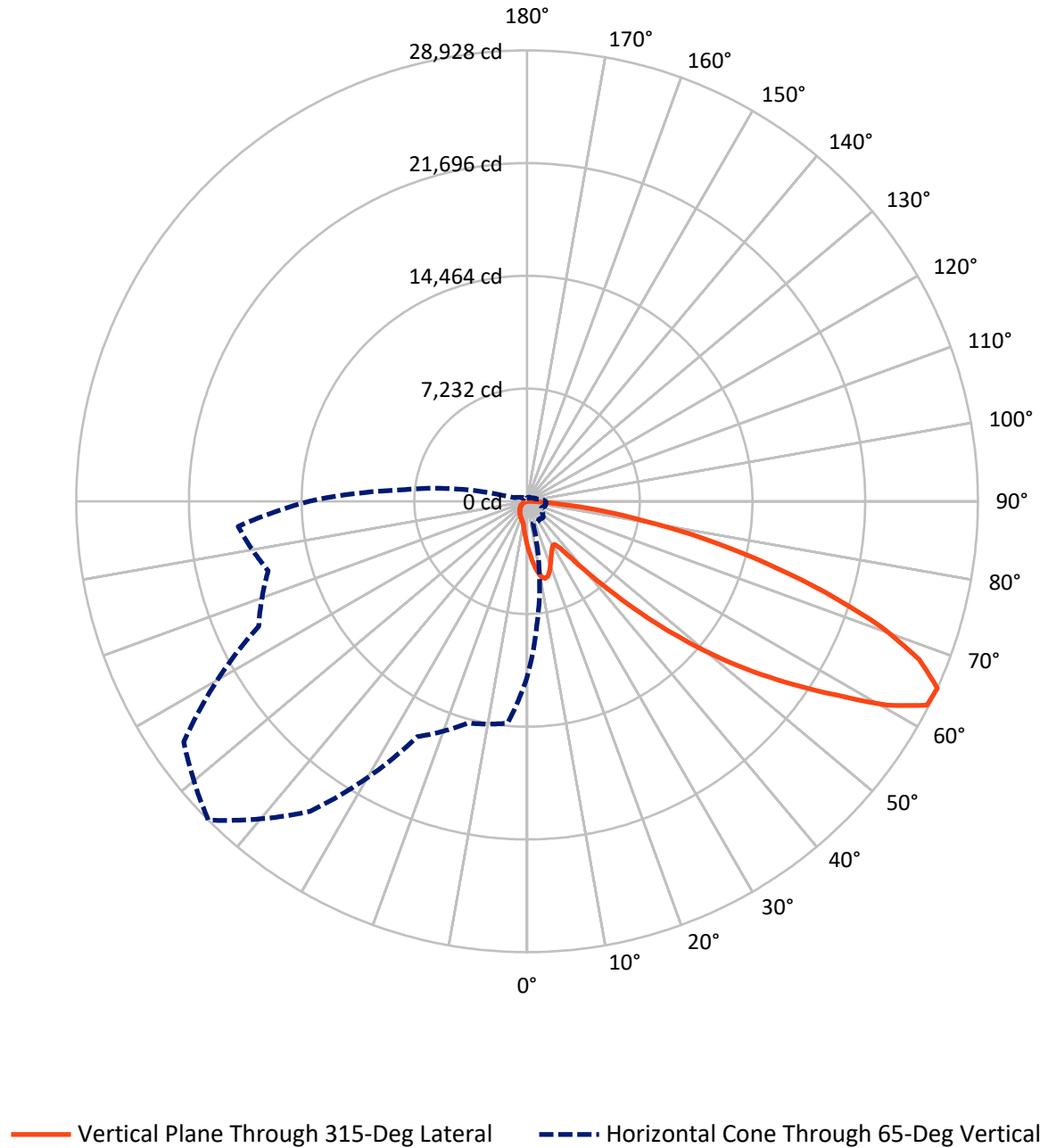
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	2882.5	0.0	2882.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	17700.5	0.0	17700.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	20583.0	0.0	20583.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.6	1.4
10°-20°	841.2	4.1
20°-30°	1239.2	6.0
30°-40°	1592.0	7.7
40°-50°	2574.8	12.5
50°-60°	4515.1	21.9
60°-70°	5649.7	27.4
70°-80°	3301.4	16.0
80°-90°	589.0	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°	20583.0	100.0
0°-180°	20583.0	100.0

Coefficient of Utilization



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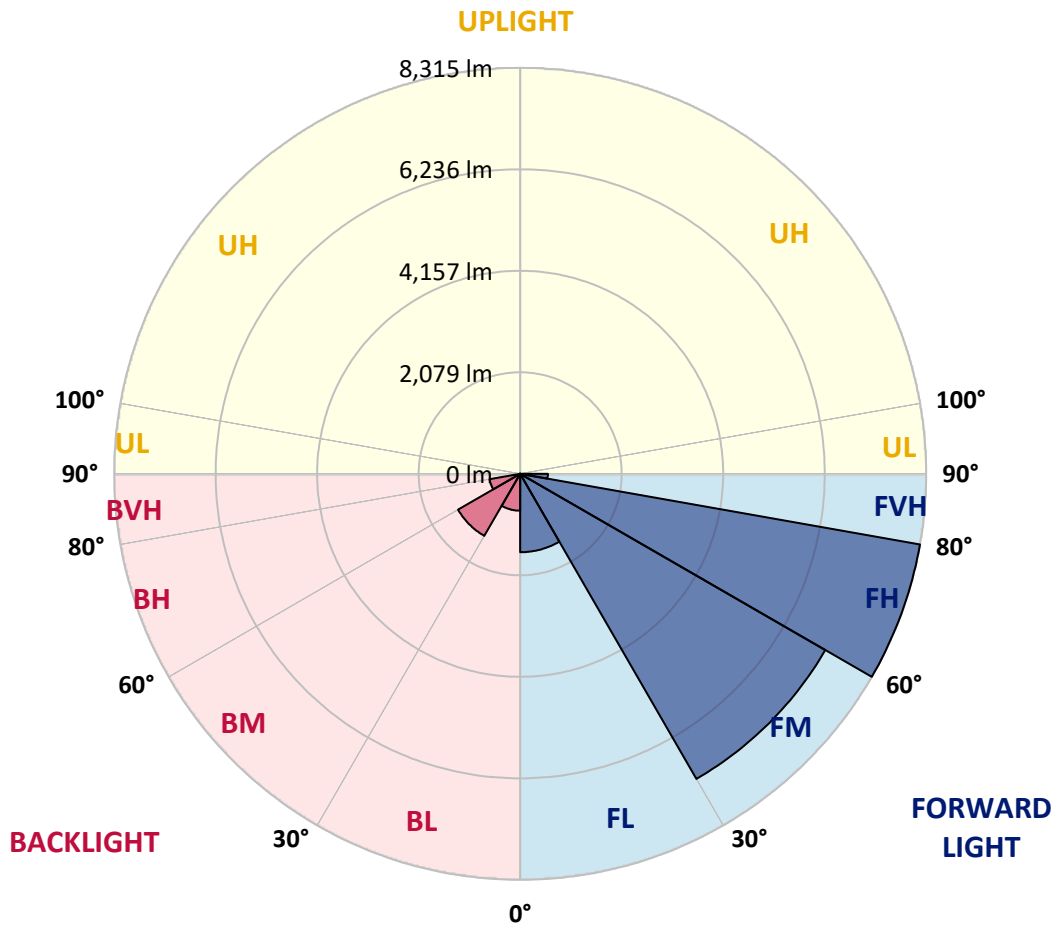
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1605.4	7.8			
FM (30°-60°)	7214.1	35.0			
FH (60°-80°)	8314.6	40.4			G4/12000
FVH (80°-90°)	566.4	2.8			G4/750
BL (0°-30°)	755.6	3.7	B2/1000		
BM (30°-60°)	1467.8	7.1	B2/2500		
BH (60°-80°)	636.5	3.1	B2/1000		G2/1000
BVH (80°-90°)	22.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2850.1	2850.1	2850.1	2850.1	2850.1	2850.1	2850.1	2850.1	2850.1	2850.1
2.5°	3220.2	3164.9	3132.3	3051.4	2970.6	2905.4	2817.5	2759.3	2689.9	2623.2
5°	3588.8	3499.5	3391.7	3244.3	3109.6	2972.0	2838.7	2706.9	2567.9	2440.3
7.5°	3900.8	3771.8	3581.8	3386.1	3214.5	3048.6	2892.6	2718.2	2549.5	2349.5
10°	4139.0	3974.5	3725.0	3468.3	3271.2	3103.9	2952.2	2804.7	2634.6	2393.5
12.5°	4283.6	4107.8	3811.5	3510.9	3285.4	3098.2	2980.5	2915.3	2848.7	2609.0
15°	4390.0	4200.0	3872.4	3540.6	3252.8	3023.1	2936.6	3001.8	3078.4	2925.2
17.5°	4500.6	4300.7	3951.8	3553.4	3164.9	2877.0	2840.2	3008.9	3186.1	3179.1
20°	4605.5	4407.0	4021.3	3544.9	3023.1	2699.8	2732.4	2947.9	3153.5	3240.0
22.5°	4726.0	4516.2	4088.0	3512.3	2838.7	2533.9	2636.0	2851.5	3031.6	3133.7
25°	4873.5	4653.7	4181.5	3464.1	2640.2	2396.3	2538.1	2739.5	2885.5	2956.4
27.5°	5032.3	4818.2	4306.3	3438.5	2480.0	2298.5	2427.5	2606.2	2736.7	2786.3
30°	5229.4	5009.6	4453.8	3410.2	2375.1	2241.8	2312.7	2451.6	2579.3	2628.9
32.5°	5444.9	5222.3	4595.6	3342.1	2311.3	2199.2	2200.7	2288.6	2404.8	2464.4
35°	5714.4	5477.6	4747.3	3193.2	2260.2	2149.6	2091.5	2134.0	2230.4	2301.3
37.5°	6098.6	5812.2	4933.1	2980.5	2185.1	2073.0	1976.6	1986.6	2060.3	2138.3
40°	6628.9	6261.7	5151.4	2759.3	2077.3	1965.3	1850.4	1846.2	1900.1	1976.6
42.5°	7346.4	6855.8	5413.7	2548.1	1973.8	1834.8	1717.1	1710.1	1752.6	1819.2
45°	8293.6	7615.8	5735.6	2366.6	1893.0	1707.2	1590.9	1588.1	1623.6	1681.7
47.5°	9506.0	8672.2	6057.5	2243.2	1850.4	1606.5	1487.4	1493.1	1524.3	1576.8
50°	11075.6	10049.0	6155.3	2180.8	1850.4	1552.7	1395.3	1423.6	1449.1	1488.9
52.5°	12957.3	11370.6	5832.0	2124.1	1861.8	1559.7	1317.3	1378.3	1396.7	1430.7
55°	14701.3	12018.6	5013.9	2046.1	1864.6	1603.7	1250.6	1341.4	1375.4	1388.2
57.5°	15713.8	11796.0	4053.9	1914.2	1853.3	1633.5	1208.1	1296.0	1361.2	1369.7
60°	15520.9	11014.7	2984.8	1813.6	1769.6	1622.1	1195.3	1226.5	1330.0	1342.8
62.5°	14034.9	9704.5	2071.6	1735.6	1585.3	1572.5	1191.1	1117.3	1262.0	1293.2
65°	11281.2	7639.9	1463.3	1494.5	1389.6	1464.7	1168.4	1003.9	1179.7	1222.3
67.5°	8184.4	5169.9	1056.4	1210.9	1259.1	1290.3	1117.3	921.7	1086.2	1142.9
70°	5252.1	2792.0	741.6	799.7	1060.6	1096.1	1029.4	847.9	991.1	1056.4
72.5°	3733.5	1649.1	533.2	560.1	852.2	913.2	906.1	765.7	880.5	960.0
75°	2576.4	908.9	360.2	399.9	618.2	741.6	699.1	657.9	745.8	826.7
77.5°	1615.0	407.0	215.5	277.9	405.5	582.8	479.3	509.0	581.4	656.5
80°	899.0	157.4	120.5	184.3	221.2	424.0	265.2	327.5	428.2	482.1
82.5°	195.7	19.9	53.9	79.4	86.5	246.7	140.4	190.0	269.4	265.2
85°	0.0	0.0	9.9	11.3	5.7	106.3	51.0	62.4	87.9	82.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
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°
2850.1	0°	2850.1	2850.1	2850.1	2850.1	2850.1	2850.1	2850.1	2850.1	2850.1	2850.1
2563.7	2.5°	2552.3	2482.8	2431.8	2406.3	2385.0	2404.8	2416.2	2416.2	2464.4	2492.8
2362.3	5°	2312.7	2187.9	2092.9	2029.1	1990.8	2003.6	2017.7	2033.3	2094.3	2135.4
2243.2	7.5°	2146.8	1955.4	1810.7	1721.4	1674.6	1681.7	1691.6	1704.4	1763.9	1805.1
2260.2	10°	2115.6	1840.5	1636.3	1518.6	1461.9	1452.0	1446.3	1442.1	1477.5	1508.7
2453.1	12.5°	2243.2	1846.2	1561.2	1418.0	1348.5	1318.7	1284.7	1257.7	1263.4	1283.2
2745.2	15°	2471.5	1918.5	1537.1	1365.5	1279.0	1229.4	1189.7	1157.1	1150.0	1157.1
3000.4	17.5°	2732.4	2016.3	1534.2	1320.1	1212.4	1161.3	1128.7	1098.9	1089.0	1090.4
3143.6	20°	2905.4	2094.3	1525.7	1269.1	1148.5	1103.2	1074.8	1045.0	1035.1	1037.9
3103.9	22.5°	2922.4	2135.4	1513.0	1212.4	1084.7	1046.4	1018.1	991.1	989.7	989.7
2955.0	25°	2830.2	2135.4	1486.0	1161.3	1023.8	989.7	964.2	931.6	937.3	940.1
2786.3	27.5°	2687.0	2084.4	1435.0	1120.2	971.3	935.8	910.3	880.5	887.6	891.9
2628.9	30°	2545.2	2019.2	1374.0	1073.4	921.7	880.5	862.1	836.6	839.4	845.1
2472.9	32.5°	2413.4	1949.7	1301.7	1035.1	872.0	830.9	816.7	788.4	792.6	798.3
2319.8	35°	2282.9	1873.1	1216.6	989.7	826.7	785.5	774.2	741.6	744.4	752.9
2166.6	37.5°	2142.5	1792.3	1147.1	944.4	782.7	740.2	728.8	694.8	697.6	707.6
2007.8	40°	1995.1	1712.9	1079.1	896.1	735.9	693.4	683.5	646.6	649.4	660.8
1851.8	42.5°	1846.2	1626.4	1026.6	833.8	687.7	642.3	632.4	598.4	602.6	615.4
1715.7	45°	1708.6	1522.9	992.6	764.3	642.3	591.3	581.4	550.2	558.7	572.9
1600.9	47.5°	1590.9	1416.5	978.4	706.1	594.1	538.8	530.3	504.8	519.0	534.6
1503.0	50°	1490.3	1314.4	960.0	646.6	548.7	493.4	484.9	467.9	486.4	502.0
1436.4	52.5°	1418.0	1198.2	920.3	592.7	509.0	455.2	452.3	443.8	460.8	475.0
1386.8	55°	1355.6	1077.6	856.4	545.9	473.6	422.6	425.4	421.1	435.3	446.7
1357.0	57.5°	1298.8	972.7	775.6	509.0	435.3	394.2	402.7	397.0	404.1	411.2
1325.8	60°	1230.8	866.4	679.2	467.9	389.9	365.8	375.8	360.2	358.7	361.6
1269.1	62.5°	1130.1	723.2	578.5	416.9	350.2	334.6	338.9	309.1	286.4	286.4
1185.4	65°	989.7	581.4	484.9	360.2	304.9	292.1	289.3	246.7	215.5	212.7
1094.7	67.5°	826.7	477.9	402.7	303.4	253.8	245.3	248.1	216.9	185.8	182.9
1003.9	70°	673.5	395.6	324.7	242.5	195.7	204.2	216.9	185.8	156.0	151.7
897.6	72.5°	547.3	314.8	253.8	185.8	144.6	168.7	184.3	151.7	123.4	120.5
765.7	75°	422.6	231.1	181.5	126.2	104.9	130.5	144.6	110.6	87.9	83.7
592.7	77.5°	282.2	143.2	102.1	79.4	62.4	89.3	96.4	58.1	51.0	49.6
431.1	80°	171.6	66.6	44.0	38.3	21.3	32.6	38.3	24.1	26.9	28.4
229.7	82.5°	86.5	18.4	7.1	1.4	0.0	0.0	11.3	5.7	11.3	14.2
62.4	85°	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	7.1
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°
2850.1	0°	2850.1	2850.1	2850.1	2850.1	2850.1	2850.1	2850.1	2850.1	2850.1	2850.1
2504.1	2.5°	2583.5	2643.1	2699.8	2790.5	2884.1	2976.3	3069.9	3160.6	3193.2	3217.3
2162.4	5°	2285.7	2397.8	2528.2	2708.3	2901.1	3099.6	3301.0	3485.3	3569.0	3625.7
1840.5	7.5°	1978.0	2124.1	2311.3	2582.1	2884.1	3200.3	3516.5	3807.2	3941.9	4051.1
1537.1	10°	1673.2	1832.0	2068.8	2377.9	2786.3	3240.0	3676.8	4076.6	4251.0	4388.6
1318.7	12.5°	1405.2	1554.1	1802.2	2143.9	2633.1	3208.8	3768.9	4249.6	4455.2	4609.8
1162.7	15°	1216.6	1321.5	1541.3	1910.0	2451.6	3108.2	3774.6	4331.8	4557.3	4718.9
1097.5	17.5°	1111.7	1147.1	1290.3	1671.8	2250.3	2976.3	3722.1	4360.2	4601.3	4751.6
1039.4	20°	1055.0	1060.6	1100.3	1362.7	1992.2	2852.9	3672.5	4388.6	4642.4	4768.6
998.2	22.5°	1009.6	1009.6	1019.5	1114.5	1659.0	2705.5	3656.9	4438.2	4699.1	4777.1
951.4	25°	968.5	968.5	971.3	996.8	1314.4	2480.0	3647.0	4514.8	4777.1	4798.4
904.7	27.5°	925.9	927.3	927.3	941.5	1059.2	2173.7	3604.4	4614.0	4870.7	4826.7
859.3	30°	883.4	886.2	886.2	896.1	937.3	1815.0	3520.8	4733.1	4992.6	4863.6
813.9	32.5°	840.8	843.7	843.7	852.2	882.0	1449.1	3415.9	4842.3	5116.0	4879.2
769.9	35°	796.9	801.1	798.3	809.7	840.8	1152.8	3282.6	4951.5	5249.3	4928.8
727.4	37.5°	752.9	755.8	754.4	765.7	801.1	995.4	3128.0	5033.7	5430.8	5039.4
682.0	40°	709.0	707.6	707.6	720.3	758.6	950.0	2933.7	5164.2	5691.7	5233.7
636.7	42.5°	663.6	663.6	660.8	674.9	721.7	916.0	2748.0	5398.1	6071.7	5542.8
594.1	45°	622.5	621.1	615.4	628.2	686.3	856.4	2682.8	5834.9	6633.2	6043.3
551.6	47.5°	582.8	581.4	567.2	578.5	643.8	802.6	2926.7	6549.5	7411.6	6779.2
517.6	50°	547.3	548.7	521.8	531.7	601.2	761.4	3455.6	7476.9	8445.3	7770.4
489.2	52.5°	514.7	514.7	479.3	484.9	548.7	724.6	3958.9	8482.2	9809.4	9152.9
459.4	55°	482.1	479.3	439.6	442.4	496.3	672.1	4034.1	9463.4	11669.8	11233.0
426.8	57.5°	445.2	439.6	402.7	402.7	448.1	633.8	3496.7	10217.8	13978.2	14290.1
365.8	60°	399.9	395.6	371.5	364.4	409.8	667.9	2467.2	10305.7	15467.0	18355.4
290.7	62.5°	341.7	347.4	334.6	324.7	372.9	693.4	1461.9	9598.1	15106.9	19648.6
225.5	65°	269.4	292.1	289.3	282.2	409.8	584.2	863.5	8239.7	14002.3	18605.0
197.1	67.5°	229.7	245.3	241.1	241.1	429.6	443.8	543.1	6437.5	12482.2	17367.1
164.5	70°	195.7	211.3	195.7	195.7	324.7	269.4	375.8	4494.9	10841.7	15997.4
131.9	72.5°	161.6	177.2	160.2	148.9	259.5	201.3	275.1	2809.0	9284.8	14570.9
93.6	75°	123.4	141.8	129.0	114.9	171.6	150.3	208.4	1632.1	7692.4	12466.6
56.7	77.5°	78.0	102.1	96.4	80.8	126.2	109.2	150.3	971.3	5935.6	9741.3
34.0	80°	48.2	52.5	53.9	51.0	72.3	73.7	102.1	553.0	4062.4	6789.2
21.3	82.5°	31.2	31.2	24.1	26.9	35.4	42.5	58.1	208.4	2387.8	4133.3
12.8	85°	22.7	19.9	12.8	12.8	17.0	21.3	22.7	63.8	968.5	1632.1
5.7	87.5°	11.3	9.9	4.3	5.7	8.5	7.1	5.7	2.8	243.9	521.8
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°
2850.1	0°	2850.1	2850.1	2850.1	2850.1	2850.1	2850.1	2850.1	2850.1
3271.2	2.5°	3299.6	3343.5	3346.4	3346.4	3308.1	3306.7	3228.7	3220.2
3753.3	5°	3885.2	3913.6	3920.6	3906.5	3829.9	3773.2	3621.5	3588.8
4245.4	7.5°	4421.2	4477.9	4477.9	4443.9	4319.1	4202.8	3983.0	3900.8
4652.3	10°	4849.4	4914.6	4900.4	4831.0	4673.6	4513.3	4246.8	4139.0
4899.0	12.5°	5057.8	5124.5	5087.6	5008.2	4855.1	4686.3	4405.6	4283.6
4969.9	15°	5053.6	5035.2	4996.9	4986.9	4913.2	4785.6	4523.3	4390.0
4926.0	17.5°	4873.5	4717.5	4687.8	4787.0	4880.6	4849.4	4625.4	4500.6
4821.0	20°	4588.5	4316.3	4289.3	4479.3	4745.9	4882.0	4720.4	4605.5
4669.3	22.5°	4287.9	3994.4	3932.0	4141.8	4543.1	4891.9	4840.9	4726.0
4502.0	25°	4002.9	3707.9	3645.6	3841.2	4317.7	4874.9	4971.3	4873.5
4341.8	27.5°	3764.7	3479.7	3421.5	3617.2	4100.7	4826.7	5101.8	5032.3
4183.0	30°	3580.3	3316.6	3274.1	3462.6	3913.6	4767.2	5267.7	5229.4
4035.5	32.5°	3472.6	3279.7	3295.3	3449.9	3812.9	4701.9	5426.5	5444.9
3963.2	35°	3578.9	3587.4	3723.5	3787.4	3906.5	4692.0	5642.0	5714.4
4049.7	37.5°	4107.8	4402.7	4684.9	4632.5	4364.5	4806.9	5963.9	6098.6
4426.9	40°	5008.2	5613.7	6071.7	5871.7	5196.8	5158.5	6427.6	6628.9
5096.1	42.5°	6108.5	7135.1	7889.5	7353.5	6270.2	5773.9	7089.8	7346.4
5905.8	45°	7269.8	9011.1	10199.3	9084.8	7414.5	6636.0	8092.3	8293.6
6664.4	47.5°	8493.5	11291.2	12828.2	11004.7	8475.1	7617.2	9459.2	9506.0
7383.3	50°	9832.1	13791.0	15508.2	12923.2	9498.9	8741.7	11129.5	11075.6
8221.3	52.5°	11106.8	16361.8	18131.4	14850.2	10397.9	10137.0	13067.9	12957.3
9367.0	55°	12323.4	18931.1	20770.2	16702.1	11245.8	11980.3	15370.6	14701.3
11018.9	57.5°	13734.3	21240.9	23489.8	18562.4	12431.2	14373.8	17945.6	15713.8
14182.4	60°	15820.1	23865.6	26565.4	21111.9	14685.7	16889.2	18868.7	15520.9
17971.1	62.5°	18483.0	26278.9	28801.5	23610.3	16950.2	17362.8	17508.9	14034.9
17198.4	65°	19000.6	26890.1	28927.7	24278.2	16658.1	14728.3	14294.4	11281.2
15362.1	67.5°	17628.0	25785.5	27163.7	23034.7	14735.4	11381.9	10726.8	8184.4
14156.8	70°	16088.1	23679.8	24089.6	20920.5	12960.1	8371.6	7244.3	5252.1
13331.6	72.5°	14509.9	20870.9	20022.9	18168.2	11390.4	6095.8	5225.2	3733.5
12156.1	75°	12635.4	17177.1	15771.9	15095.5	9430.8	4784.2	3780.3	2576.4
10456.0	77.5°	10118.5	12090.9	11715.1	11701.0	7086.9	3495.3	2522.5	1615.0
8168.8	80°	7138.0	7847.0	7655.5	8812.6	4754.4	2535.3	1518.6	899.0
5686.0	82.5°	3455.6	4338.9	4453.8	5247.8	2312.7	1491.7	350.2	195.7
2223.4	85°	1352.7	2092.9	1765.4	1992.2	649.4	415.5	8.5	0.0
365.8	87.5°	151.7	242.5	222.6	175.8	79.4	17.0	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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