

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: P955173

Luminaire Tested: **GALN-SB8A-950-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955173
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-SB8A-950-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 5000K, 350mA 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: 19258 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

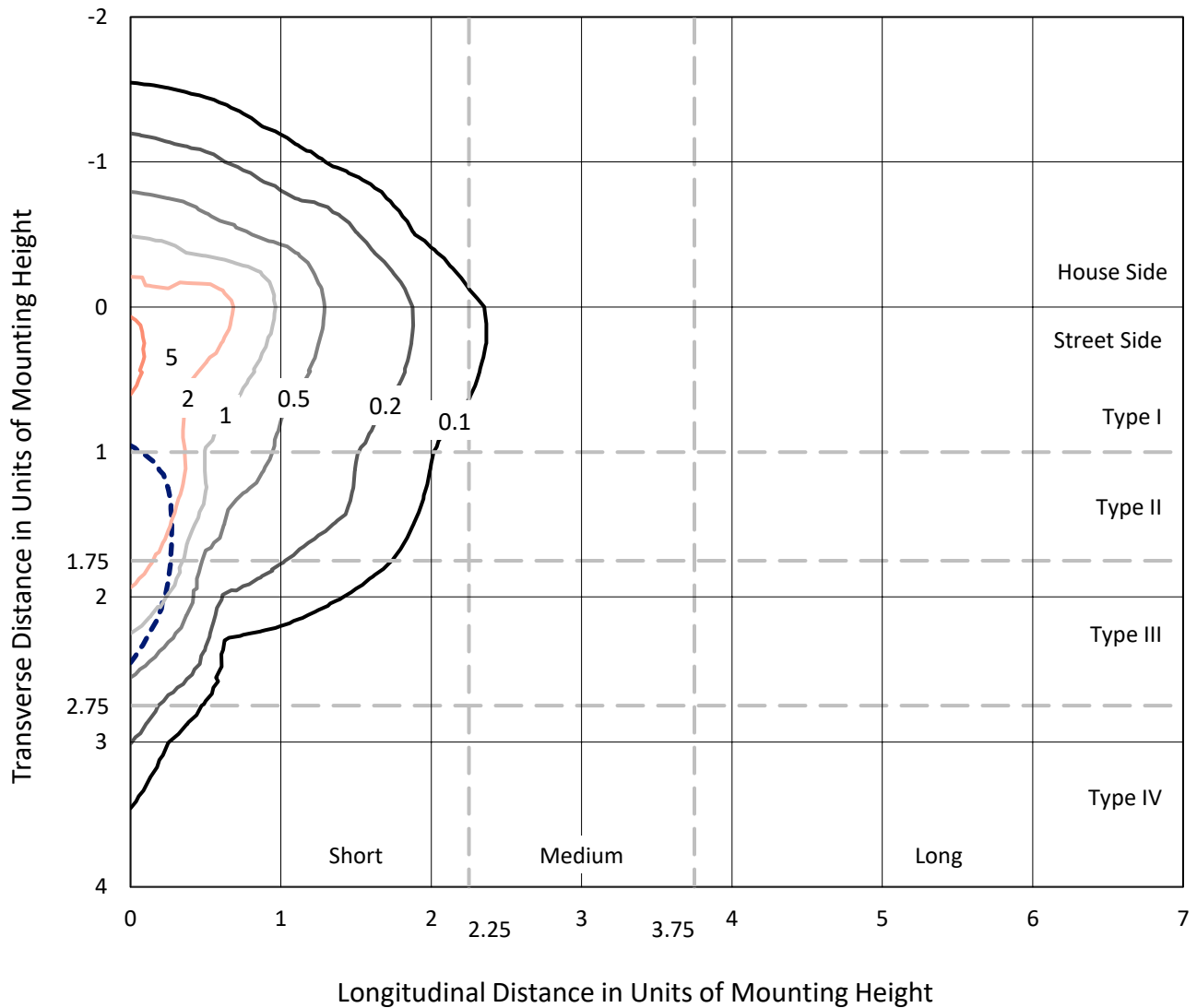
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

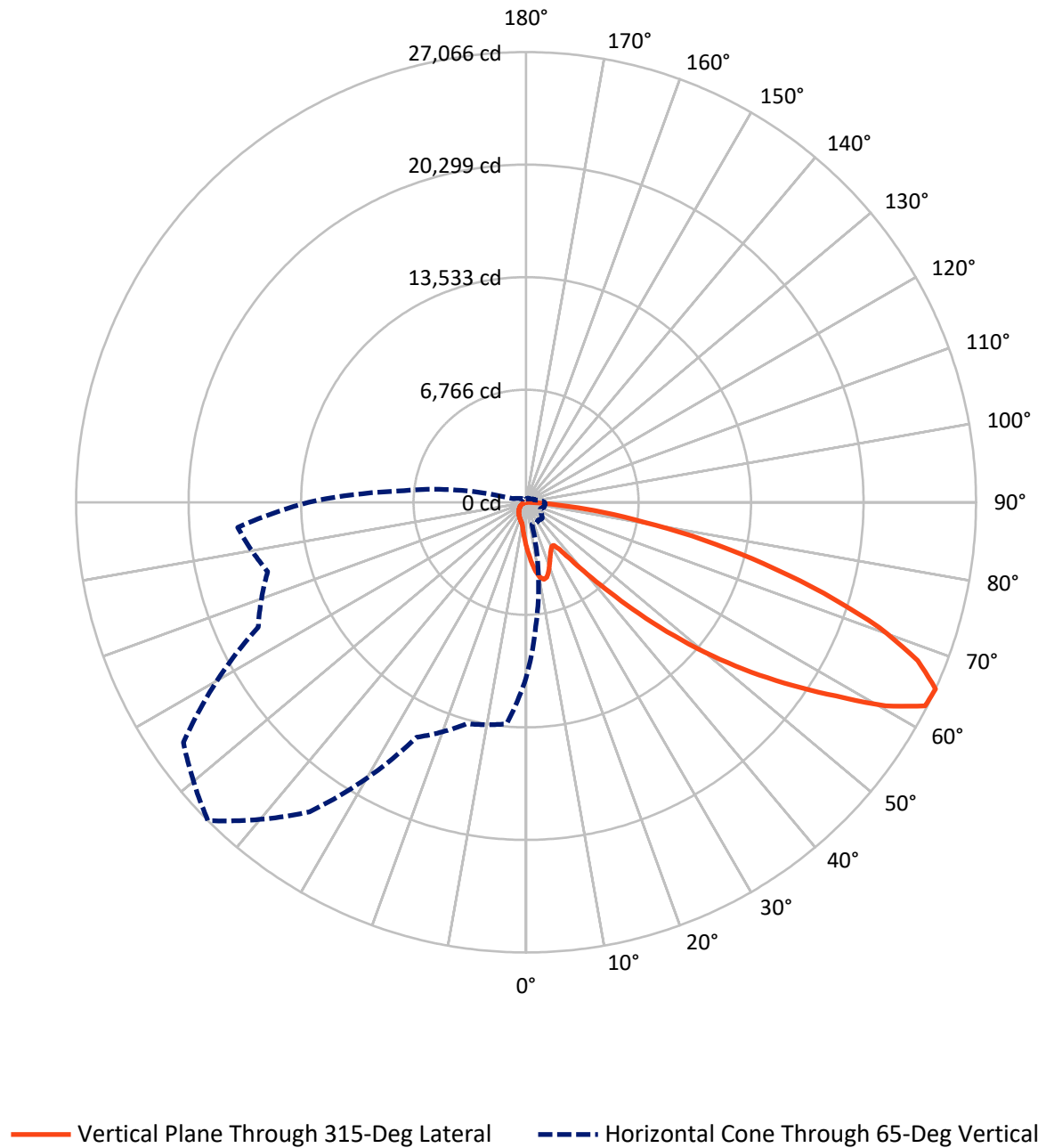
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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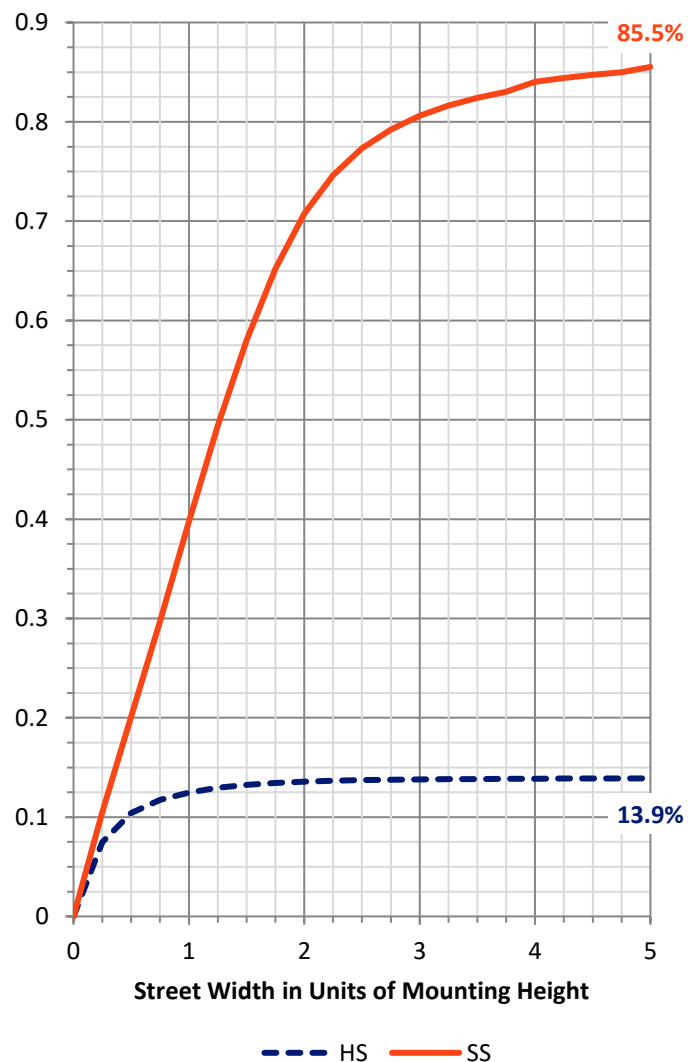
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2696.9	0.0	2696.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	16561.1	0.0	16561.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	19258.0	0.0	19258.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.5	1.4
10°-20°	787.0	4.1
20°-30°	1159.4	6.0
30°-40°	1489.5	7.7
40°-50°	2409.0	12.5
50°-60°	4224.5	21.9
60°-70°	5286.0	27.4
70°-80°	3088.9	16.0
80°-90°	551.1	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°	19258.0	100.0
0°-180°	19258.0	100.0

Coefficient of Utilization



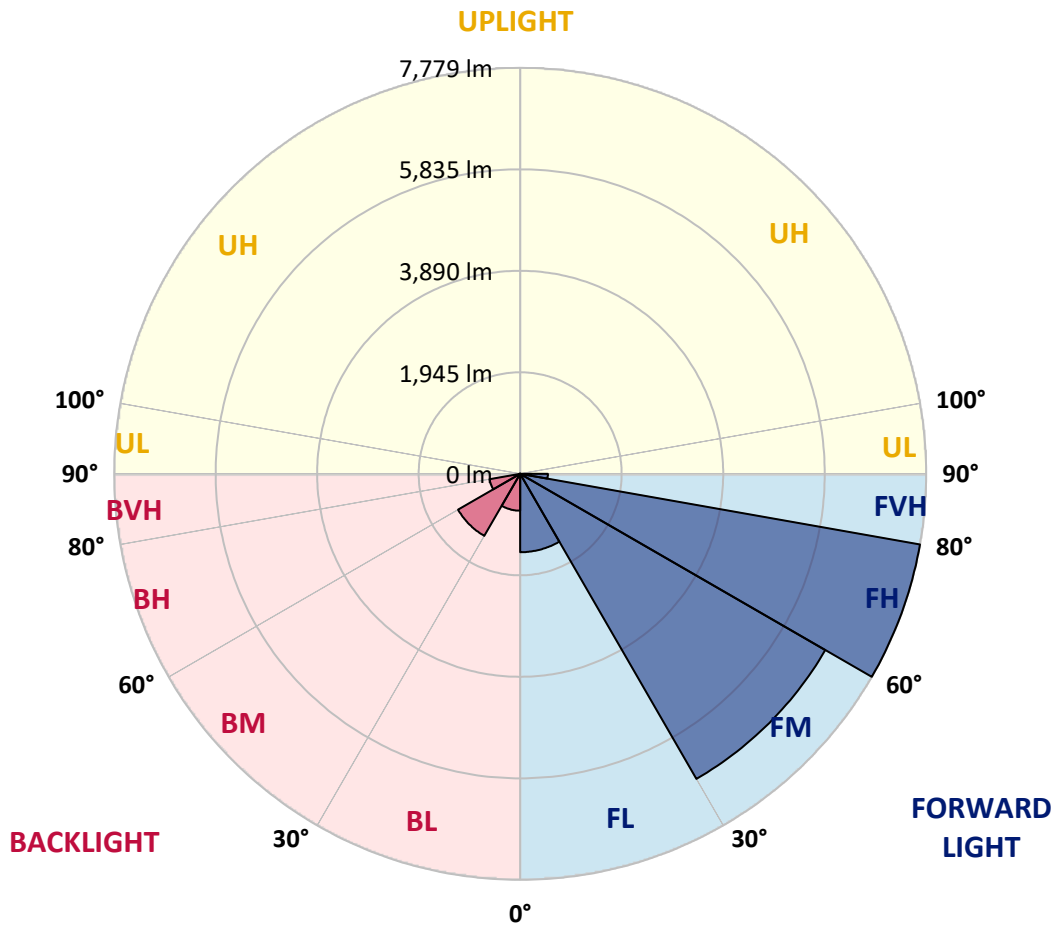
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1502.1	7.8			
FM (30°-60°)	6749.7	35.0			
FH (60°-80°)	7779.4	40.4			G4/12000
FVH (80°-90°)	529.9	2.8			G4/750
BL (0°-30°)	706.9	3.7	B2/1000		
BM (30°-60°)	1373.3	7.1	B2/2500		
BH (60°-80°)	595.5	3.1	B2/1000		G2/1000
BVH (80°-90°)	21.2	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°	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6
2.5°	3012.9	2961.1	2930.6	2855.0	2779.4	2718.4	2636.1	2581.7	2516.7	2454.3
5°	3357.8	3274.2	3173.4	3035.4	2909.4	2780.7	2656.0	2532.6	2402.6	2283.2
7.5°	3649.7	3529.0	3351.2	3168.1	3007.6	2852.4	2706.4	2543.2	2385.4	2198.3
10°	3872.6	3718.7	3485.2	3245.0	3060.6	2904.1	2762.1	2624.2	2465.0	2239.4
12.5°	4007.9	3843.4	3566.1	3284.8	3073.9	2898.8	2788.7	2727.6	2665.3	2441.1
15°	4107.4	3929.6	3623.1	3312.7	3043.4	2828.5	2747.5	2808.6	2880.2	2736.9
17.5°	4210.9	4023.8	3697.4	3324.6	2961.1	2691.8	2657.3	2815.2	2981.0	2974.4
20°	4309.0	4123.3	3762.5	3316.7	2828.5	2526.0	2556.5	2758.2	2950.5	3031.5
22.5°	4421.8	4225.5	3824.8	3286.2	2656.0	2370.8	2466.3	2667.9	2836.4	2932.0
25°	4559.8	4354.1	3912.4	3241.1	2470.3	2242.1	2374.7	2563.1	2699.8	2766.1
27.5°	4708.4	4508.0	4029.1	3217.2	2320.4	2150.5	2271.3	2438.4	2560.5	2606.9
30°	4892.8	4687.1	4167.1	3190.7	2222.2	2097.5	2163.8	2293.8	2413.2	2459.7
32.5°	5094.4	4886.1	4299.8	3127.0	2162.5	2057.7	2059.0	2141.3	2250.0	2305.8
35°	5346.5	5124.9	4441.7	2987.7	2114.7	2011.2	1956.8	1996.6	2086.9	2153.2
37.5°	5706.0	5438.0	4615.5	2788.7	2044.4	1939.6	1849.4	1858.7	1927.7	2000.6
40°	6202.2	5858.6	4819.8	2581.7	1943.6	1838.8	1731.3	1727.3	1777.7	1849.4
42.5°	6873.5	6414.5	5065.2	2384.0	1846.7	1716.7	1606.6	1600.0	1639.8	1702.1
45°	7759.7	7125.6	5366.4	2214.2	1771.1	1597.3	1488.5	1485.9	1519.0	1573.4
47.5°	8894.0	8113.9	5667.6	2098.8	1731.3	1503.1	1391.7	1397.0	1426.2	1475.3
50°	10362.7	9402.1	5759.1	2040.4	1731.3	1452.7	1305.4	1332.0	1355.9	1393.0
52.5°	12123.2	10638.6	5456.6	1987.4	1741.9	1459.3	1232.5	1289.5	1306.8	1338.6
55°	13755.0	11244.9	4691.1	1914.4	1744.6	1500.5	1170.1	1255.0	1286.9	1298.8
57.5°	14702.2	11036.6	3793.0	1791.0	1734.0	1528.3	1130.3	1212.6	1273.6	1281.6
60°	14521.8	10305.6	2792.7	1696.8	1655.7	1517.7	1118.4	1147.6	1244.4	1256.4
62.5°	13131.4	9079.8	1938.3	1623.9	1483.2	1471.3	1114.4	1045.4	1180.7	1209.9
65°	10555.0	7148.1	1369.1	1398.3	1300.1	1370.5	1093.2	939.3	1103.8	1143.6
67.5°	7657.6	4837.1	988.4	1133.0	1178.1	1207.3	1045.4	862.3	1016.2	1069.3
70°	4914.0	2612.2	693.9	748.2	992.4	1025.5	963.2	793.4	927.3	988.4
72.5°	3493.1	1542.9	498.8	524.0	797.3	854.4	847.7	716.4	823.9	898.2
75°	2410.6	850.4	337.0	374.1	578.4	693.9	654.1	615.6	697.8	773.5
77.5°	1511.1	380.8	201.7	260.0	379.4	545.3	448.4	476.3	543.9	614.3
80°	841.1	147.3	112.8	172.5	207.0	396.7	248.1	306.5	400.7	451.1
82.5°	183.1	18.6	50.4	74.3	80.9	230.8	131.3	177.8	252.1	248.1
85°	0.0	0.0	9.3	10.6	5.3	99.5	47.8	58.4	82.3	76.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
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°
2666.6	0°	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6
2398.6	2.5°	2388.0	2323.0	2275.2	2251.4	2231.5	2250.0	2260.7	2260.7	2305.8	2332.3
2210.2	5°	2163.8	2047.1	1958.2	1898.5	1862.7	1874.6	1887.9	1902.5	1959.5	1998.0
2098.8	7.5°	2008.6	1829.5	1694.2	1610.6	1566.8	1573.4	1582.7	1594.7	1650.4	1688.9
2114.7	10°	1979.4	1722.0	1531.0	1420.9	1367.8	1358.5	1353.2	1349.2	1382.4	1411.6
2295.1	12.5°	2098.8	1727.3	1460.7	1326.7	1261.7	1233.8	1202.0	1176.8	1182.1	1200.6
2568.4	15°	2312.4	1795.0	1438.1	1277.6	1196.7	1150.2	1113.1	1082.6	1075.9	1082.6
2807.2	17.5°	2556.5	1886.5	1435.5	1235.1	1134.3	1086.5	1056.0	1028.2	1018.9	1020.2
2941.2	20°	2718.4	1959.5	1427.5	1187.4	1074.6	1032.2	1005.6	977.8	968.5	971.1
2904.1	22.5°	2734.3	1998.0	1415.6	1134.3	1014.9	979.1	952.6	927.3	926.0	926.0
2764.8	25°	2648.0	1998.0	1390.4	1086.5	957.9	926.0	902.1	871.6	876.9	879.6
2606.9	27.5°	2514.0	1950.2	1342.6	1048.1	908.8	875.6	851.7	823.9	830.5	834.5
2459.7	30°	2381.4	1889.2	1285.5	1004.3	862.3	823.9	806.6	782.7	785.4	790.7
2313.7	32.5°	2258.0	1824.2	1217.9	968.5	815.9	777.4	764.2	737.6	741.6	746.9
2170.4	35°	2135.9	1752.5	1138.3	926.0	773.5	735.0	724.4	693.9	696.5	704.5
2027.2	37.5°	2004.6	1676.9	1073.3	883.6	732.3	692.5	681.9	650.1	652.7	662.0
1878.6	40°	1866.6	1602.6	1009.6	838.5	688.5	648.7	639.5	605.0	607.6	618.2
1732.6	42.5°	1727.3	1521.7	960.5	780.1	643.4	601.0	591.7	559.9	563.8	575.8
1605.3	45°	1598.6	1424.8	928.7	715.1	601.0	553.2	543.9	514.7	522.7	536.0
1497.8	47.5°	1488.5	1325.3	915.4	660.7	555.9	504.1	496.2	472.3	485.6	500.2
1406.3	50°	1394.3	1229.8	898.2	605.0	513.4	461.7	453.7	437.8	455.0	469.6
1343.9	52.5°	1326.7	1121.0	861.0	554.6	476.3	425.9	423.2	415.2	431.2	444.4
1297.5	55°	1268.3	1008.3	801.3	510.8	443.1	395.3	398.0	394.0	407.3	417.9
1269.6	57.5°	1215.2	910.1	725.7	476.3	407.3	368.8	376.8	371.5	378.1	384.7
1240.4	60°	1151.6	810.6	635.5	437.8	364.8	342.3	351.6	337.0	335.6	338.3
1187.4	62.5°	1057.4	676.6	541.3	390.0	327.7	313.1	317.1	289.2	268.0	268.0
1109.1	65°	926.0	543.9	453.7	337.0	285.2	273.3	270.6	230.8	201.7	199.0
1024.2	67.5°	773.5	447.1	376.8	283.9	237.5	229.5	232.2	203.0	173.8	171.1
939.3	70°	630.2	370.1	303.8	226.9	183.1	191.0	203.0	173.8	145.9	142.0
839.8	72.5°	512.1	294.5	237.5	173.8	135.3	157.9	172.5	142.0	115.4	112.8
716.4	75°	395.3	216.2	169.8	118.1	98.2	122.1	135.3	103.5	82.3	78.3
554.6	77.5°	264.0	134.0	95.5	74.3	58.4	83.6	90.2	54.4	47.8	46.4
403.3	80°	160.5	62.4	41.1	35.8	19.9	30.5	35.8	22.6	25.2	26.5
214.9	82.5°	80.9	17.2	6.6	1.3	0.0	0.0	10.6	5.3	10.6	13.3
58.4	85°	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	6.6
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°
2666.6	0°	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6
2342.9	2.5°	2417.2	2472.9	2526.0	2610.9	2698.5	2784.7	2872.3	2957.2	2987.7	3010.2
2023.2	5°	2138.6	2243.4	2365.5	2533.9	2714.4	2900.1	3088.5	3261.0	3339.2	3392.3
1722.0	7.5°	1850.7	1987.4	2162.5	2415.9	2698.5	2994.3	3290.2	3562.1	3688.2	3790.3
1438.1	10°	1565.5	1714.1	1935.6	2224.8	2606.9	3031.5	3440.1	3814.2	3977.4	4106.1
1233.8	12.5°	1314.7	1454.0	1686.2	2005.9	2463.6	3002.3	3526.3	3976.0	4168.4	4313.0
1087.9	15°	1138.3	1236.5	1442.1	1787.0	2293.8	2908.1	3531.6	4053.0	4263.9	4415.2
1026.8	17.5°	1040.1	1073.3	1207.3	1564.1	2105.4	2784.7	3482.5	4079.5	4305.1	4445.7
972.5	20°	987.0	992.4	1029.5	1274.9	1864.0	2669.3	3436.1	4106.1	4343.5	4461.6
934.0	22.5°	944.6	944.6	953.9	1042.8	1552.2	2531.3	3421.5	4152.5	4396.6	4469.6
890.2	25°	906.1	906.1	908.8	932.7	1229.8	2320.4	3412.2	4224.1	4469.6	4489.5
846.4	27.5°	866.3	867.6	867.6	880.9	991.0	2033.8	3372.4	4317.0	4557.1	4516.0
804.0	30°	826.5	829.2	829.2	838.5	876.9	1698.1	3294.1	4428.4	4671.2	4550.5
761.5	32.5°	786.7	789.4	789.4	797.3	825.2	1355.9	3196.0	4530.6	4786.6	4565.1
720.4	35°	745.6	749.6	746.9	757.5	786.7	1078.6	3071.3	4632.7	4911.4	4611.5
680.6	37.5°	704.5	707.1	705.8	716.4	749.6	931.3	2926.6	4709.7	5081.2	4715.0
638.1	40°	663.3	662.0	662.0	674.0	709.8	888.9	2744.9	4831.8	5325.3	4896.8
595.7	42.5°	620.9	620.9	618.2	631.5	675.3	857.0	2571.1	5050.7	5680.8	5186.0
555.9	45°	582.4	581.1	575.8	587.7	642.1	801.3	2510.1	5459.3	6206.2	5654.3
516.1	47.5°	545.3	543.9	530.7	541.3	602.3	750.9	2738.3	6127.9	6934.5	6342.8
484.2	50°	512.1	513.4	488.2	497.5	562.5	712.4	3233.1	6995.6	7901.7	7270.2
457.7	52.5°	481.6	481.6	448.4	453.7	513.4	677.9	3704.1	7936.2	9177.9	8563.7
429.8	55°	451.1	448.4	411.3	413.9	464.3	628.8	3774.4	8854.2	10918.5	10509.9
399.3	57.5°	416.6	411.3	376.8	376.8	419.2	593.0	3271.6	9560.0	13078.4	13370.2
342.3	60°	374.1	370.1	347.6	341.0	383.4	624.9	2308.4	9642.3	14471.4	17173.8
272.0	62.5°	319.7	325.0	313.1	303.8	348.9	648.7	1367.8	8980.3	14134.4	18383.7
210.9	65°	252.1	273.3	270.6	264.0	383.4	546.6	807.9	7709.3	13100.9	17407.3
184.4	67.5°	214.9	229.5	225.5	225.5	402.0	415.2	508.1	6023.1	11678.7	16249.1
153.9	70°	183.1	197.7	183.1	183.1	303.8	252.1	351.6	4205.6	10143.8	14967.5
123.4	72.5°	151.2	165.8	149.9	139.3	242.8	188.4	257.4	2628.1	8687.1	13632.9
87.6	75°	115.4	132.7	120.7	107.5	160.5	140.6	195.0	1527.0	7197.2	11664.1
53.1	77.5°	73.0	95.5	90.2	75.6	118.1	102.2	140.6	908.8	5553.5	9114.3
31.8	80°	45.1	49.1	50.4	47.8	67.7	69.0	95.5	517.4	3800.9	6352.1
19.9	82.5°	29.2	29.2	22.6	25.2	33.2	39.8	54.4	195.0	2234.1	3867.3
11.9	85°	21.2	18.6	11.9	11.9	15.9	19.9	21.2	59.7	906.1	1527.0
5.3	87.5°	10.6	9.3	4.0	5.3	8.0	6.6	5.3	2.7	228.2	488.2
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°
2666.6	0°	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6	2666.6
3060.6	2.5°	3087.2	3128.3	3131.0	3131.0	3095.1	3093.8	3020.8	3012.9
3511.7	5°	3635.1	3661.6	3668.3	3655.0	3583.3	3530.3	3388.3	3357.8
3972.1	7.5°	4136.6	4189.6	4189.6	4157.8	4041.1	3932.3	3726.6	3649.7
4352.8	10°	4537.2	4598.3	4585.0	4520.0	4372.7	4222.8	3973.4	3872.6
4583.7	12.5°	4732.2	4794.6	4760.1	4685.8	4542.5	4384.7	4122.0	4007.9
4650.0	15°	4728.3	4711.0	4675.2	4665.9	4596.9	4477.5	4232.1	4107.4
4608.9	17.5°	4559.8	4413.8	4386.0	4478.9	4566.4	4537.2	4327.6	4210.9
4510.7	20°	4293.1	4038.4	4013.2	4191.0	4440.4	4567.7	4416.5	4309.0
4368.7	22.5°	4011.9	3737.2	3678.9	3875.2	4250.7	4577.0	4529.3	4421.8
4212.2	25°	3745.2	3469.3	3410.9	3594.0	4039.7	4561.1	4651.3	4559.8
4062.3	27.5°	3522.3	3255.7	3201.3	3384.3	3836.7	4516.0	4773.4	4708.4
3913.7	30°	3349.9	3103.1	3063.3	3239.7	3661.6	4460.3	4928.6	4892.8
3775.7	32.5°	3249.0	3068.6	3083.2	3227.8	3567.4	4399.3	5077.2	5094.4
3708.1	35°	3348.5	3356.5	3483.8	3543.5	3655.0	4390.0	5278.8	5346.5
3789.0	37.5°	3843.4	4119.3	4383.3	4334.2	4083.5	4497.4	5580.0	5706.0
4141.9	40°	4685.8	5252.3	5680.8	5493.8	4862.3	4826.4	6013.8	6202.2
4768.1	42.5°	5715.3	6675.8	7381.6	6880.1	5866.6	5402.2	6633.4	6873.5
5525.6	45°	6801.9	8431.0	9542.8	8500.0	6937.2	6208.8	7571.3	7759.7
6235.4	47.5°	7946.8	10564.3	12002.4	10296.3	7929.5	7126.9	8850.2	8894.0
6908.0	50°	9199.2	12903.2	14509.8	12091.3	8887.4	8179.0	10413.1	10362.7
7692.1	52.5°	10391.8	15308.5	16964.2	13894.3	9728.5	9484.4	12226.6	12123.2
8764.0	55°	11530.1	17712.4	19433.1	15626.9	10521.9	11209.1	14381.2	13755.0
10309.6	57.5°	12850.2	19873.6	21977.7	17367.5	11631.0	13448.5	16790.4	14702.2
13269.4	60°	14801.7	22329.3	24855.3	19752.9	13740.4	15802.0	17654.1	14521.8
16814.3	62.5°	17293.2	24587.3	26947.4	22090.5	15859.1	16245.1	16381.8	13131.4
16091.2	65°	17777.4	25159.1	27065.5	22715.3	15585.8	13780.2	13374.2	10555.0
14373.2	67.5°	16493.2	24125.6	25415.1	21551.8	13786.8	10649.2	10036.3	7657.6
13245.5	70°	15052.5	22155.5	22538.9	19573.8	12125.8	7832.7	6778.0	4914.0
12473.4	72.5°	13575.9	19527.3	18734.0	16998.7	10657.2	5703.4	4888.8	3493.1
11373.6	75°	11822.0	16071.3	14756.6	14123.8	8823.7	4476.2	3536.9	2410.6
9782.9	77.5°	9467.2	11312.6	10961.0	10947.7	6630.7	3270.3	2360.2	1511.1
7643.0	80°	6678.5	7341.8	7162.7	8245.3	4448.3	2372.1	1420.9	841.1
5320.0	82.5°	3233.1	4059.6	4167.1	4910.0	2163.8	1395.7	327.7	183.1
2080.2	85°	1265.6	1958.2	1651.7	1864.0	607.6	388.7	8.0	0.0
342.3	87.5°	142.0	226.9	208.3	164.5	74.3	15.9	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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