

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: P950448

Luminaire Tested: **GALN-SB4D-927-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950448
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-SB4D-927-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 900mA 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: 18946 lumens
Efficiency: N/A
Efficacy: 64.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

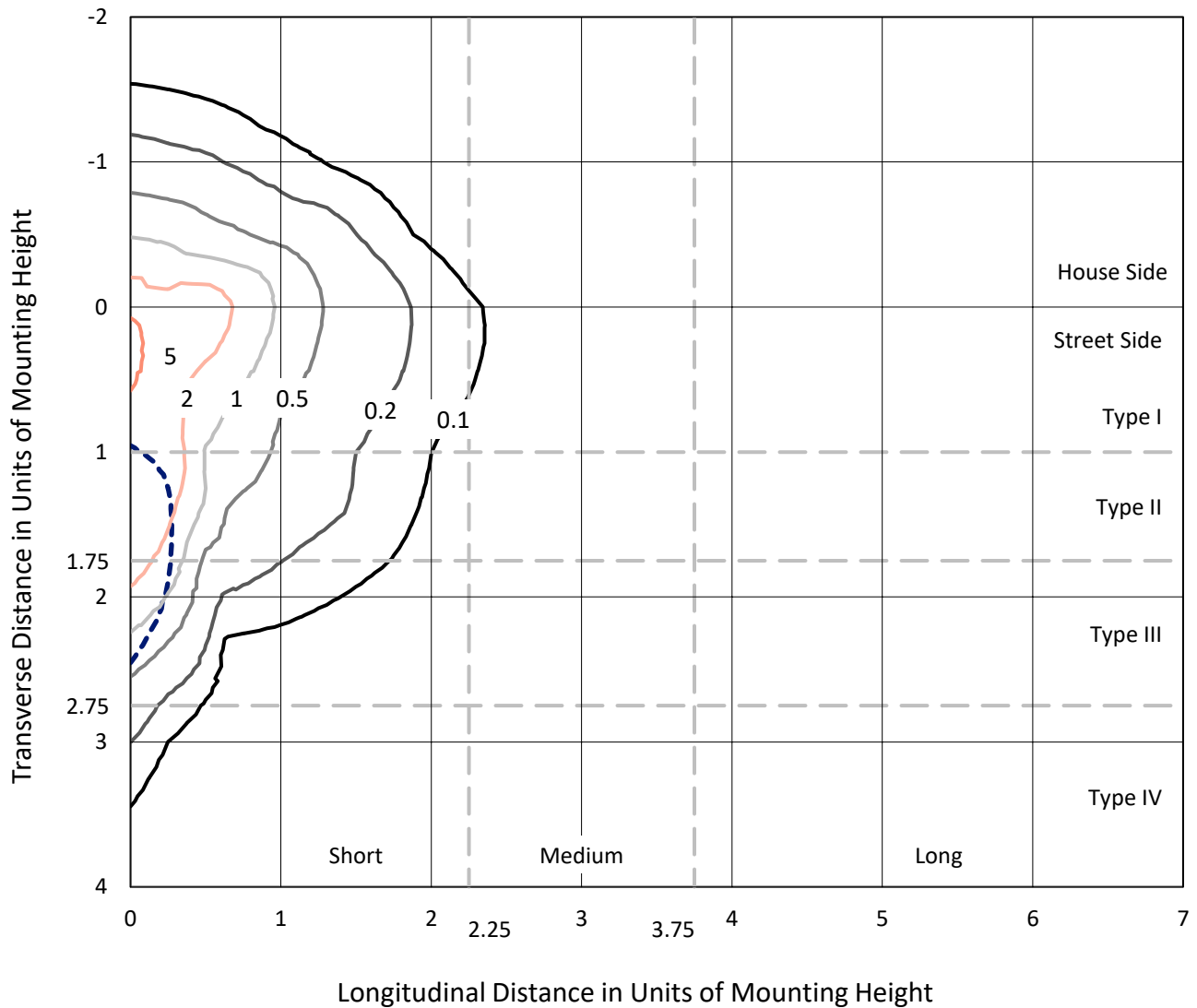
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

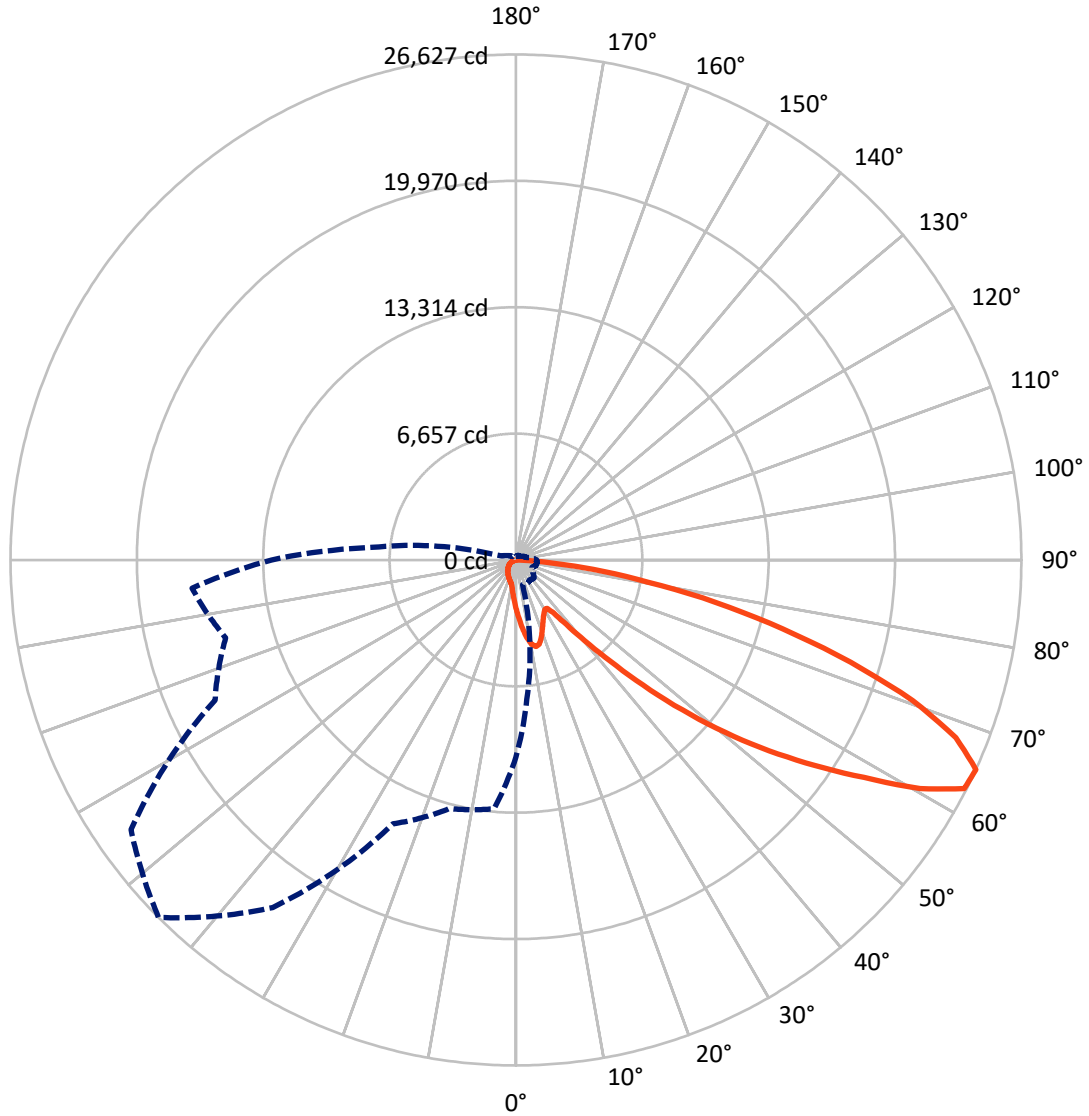
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	2653.2	0.0	2653.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	16292.8	0.0	16292.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	18946.0	0.0	18946.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.3	1.4
10°-20°	774.3	4.1
20°-30°	1140.6	6.0
30°-40°	1465.4	7.7
40°-50°	2370.0	12.5
50°-60°	4156.0	21.9
60°-70°	5200.3	27.4
70°-80°	3038.8	16.0
80°-90°	542.2	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°	18946.0	100.0
0°-180°	18946.0	100.0

Coefficient of Utilization



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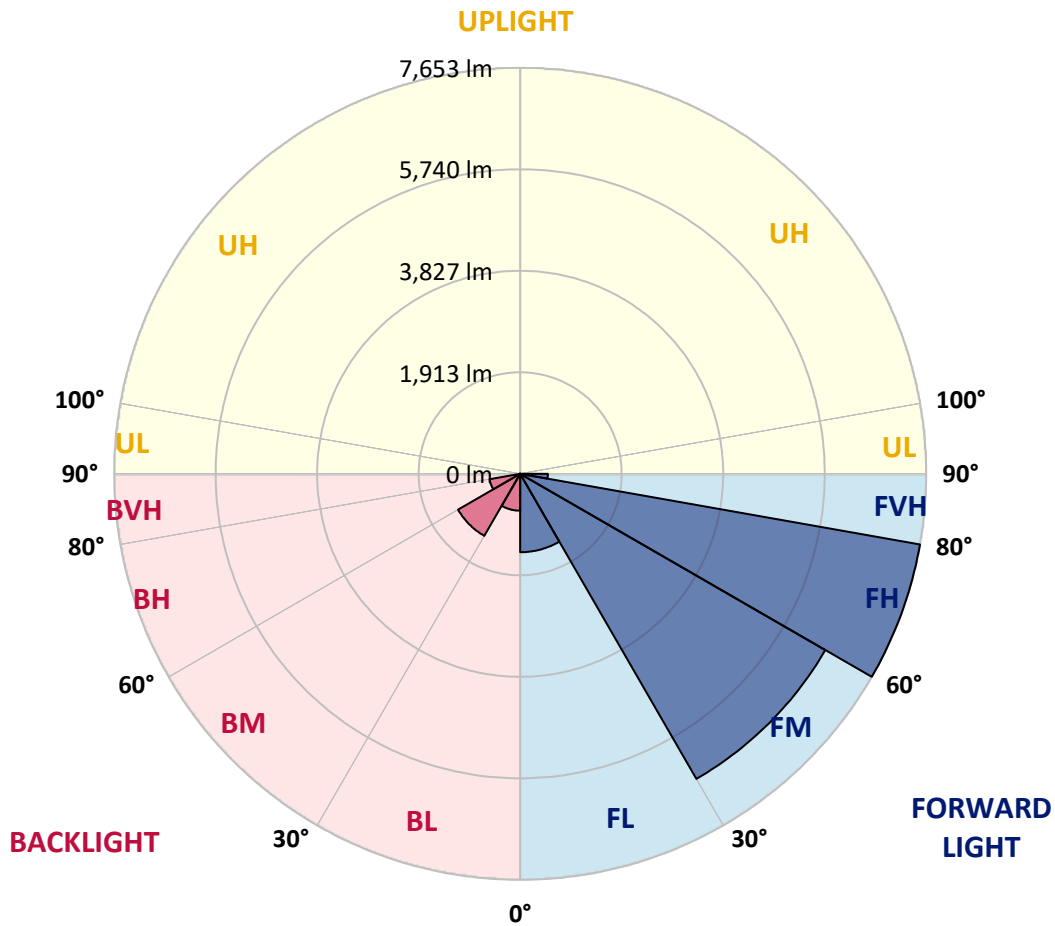
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1477.7	7.8			
FM (30°-60°)	6640.4	35.0			
FH (60°-80°)	7653.3	40.4			G4/12000
FVH (80°-90°)	521.3	2.8			G4/750
BL (0°-30°)	695.5	3.7	B2/1000		
BM (30°-60°)	1351.1	7.1	B2/2500		
BH (60°-80°)	585.9	3.1	B2/1000		G2/1000
BVH (80°-90°)	20.8	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°	2623.4	2623.4	2623.4	2623.4	2623.4	2623.4	2623.4	2623.4	2623.4	2623.4
2.5°	2964.1	2913.2	2883.1	2808.8	2734.4	2674.3	2593.4	2539.9	2475.9	2414.6
5°	3303.4	3221.2	3122.0	2986.3	2862.3	2735.7	2613.0	2491.6	2363.7	2246.2
7.5°	3590.6	3471.8	3296.9	3116.8	2958.8	2806.1	2662.6	2502.0	2346.7	2162.7
10°	3809.8	3658.4	3428.7	3192.5	3011.1	2857.0	2717.4	2581.6	2425.0	2203.1
12.5°	3943.0	3781.1	3508.3	3231.6	3024.1	2851.8	2743.5	2683.5	2622.1	2401.5
15°	4040.8	3865.9	3564.5	3259.0	2994.1	2782.6	2703.0	2763.1	2833.5	2692.6
17.5°	4142.6	3958.6	3637.5	3270.8	2913.2	2648.2	2614.3	2769.6	2932.7	2926.2
20°	4239.2	4056.5	3701.5	3263.0	2782.6	2485.1	2515.1	2713.5	2902.7	2982.3
22.5°	4350.2	4157.0	3762.8	3232.9	2613.0	2332.4	2426.3	2624.7	2790.5	2884.5
25°	4485.9	4283.6	3849.0	3188.6	2430.2	2205.8	2336.3	2521.6	2656.0	2721.3
27.5°	4632.1	4435.0	3963.8	3165.1	2282.8	2115.7	2234.5	2398.9	2519.0	2564.7
30°	4813.5	4611.2	4099.6	3139.0	2186.2	2063.5	2128.8	2256.7	2374.1	2419.8
32.5°	5011.9	4807.0	4230.1	3076.3	2127.4	2024.3	2025.6	2106.6	2213.6	2268.4
35°	5259.9	5041.9	4369.7	2939.3	2080.5	1978.7	1925.1	1964.3	2053.1	2118.3
37.5°	5613.6	5349.9	4540.7	2743.5	2011.3	1908.2	1819.4	1828.6	1896.4	1968.2
40°	6101.7	5763.7	4741.7	2539.9	1912.1	1809.0	1703.3	1699.3	1748.9	1819.4
42.5°	6762.1	6310.6	4983.2	2345.4	1816.8	1688.9	1580.6	1574.0	1613.2	1674.5
45°	7634.0	7010.1	5279.5	2178.3	1742.4	1571.4	1464.4	1461.8	1494.4	1547.9
47.5°	8749.9	7982.5	5575.7	2064.8	1703.3	1478.8	1369.1	1374.4	1403.1	1451.4
50°	10194.8	9249.8	5665.8	2007.4	1703.3	1429.2	1284.3	1310.4	1333.9	1370.4
52.5°	11926.7	10466.3	5368.2	1955.2	1713.7	1435.7	1212.5	1268.6	1285.6	1316.9
55°	13532.1	11062.7	4615.1	1883.4	1716.3	1476.2	1151.2	1234.7	1266.0	1277.8
57.5°	14464.0	10857.8	3731.5	1762.0	1705.9	1503.6	1112.0	1192.9	1253.0	1260.8
60°	14286.5	10138.6	2747.4	1669.3	1628.9	1493.1	1100.3	1129.0	1224.3	1236.0
62.5°	12918.7	8932.7	1906.9	1597.5	1459.2	1447.4	1096.4	1028.5	1161.6	1190.3
65°	10384.0	7032.3	1346.9	1375.7	1279.1	1348.3	1075.5	924.1	1085.9	1125.1
67.5°	7533.5	4758.7	972.4	1114.6	1159.0	1187.7	1028.5	848.4	999.8	1052.0
70°	4834.4	2569.9	682.6	736.1	976.3	1008.9	947.6	780.5	912.3	972.4
72.5°	3436.5	1517.9	490.7	515.5	784.4	840.5	834.0	704.8	810.5	883.6
75°	2371.5	836.6	331.5	368.1	569.1	682.6	643.5	605.6	686.5	760.9
77.5°	1486.6	374.6	198.4	255.8	373.3	536.4	441.2	468.6	535.1	604.3
80°	827.5	144.9	110.9	169.7	203.6	390.2	244.1	301.5	394.2	443.8
82.5°	180.1	18.3	49.6	73.1	79.6	227.1	129.2	174.9	248.0	244.1
85°	0.0	0.0	9.1	10.4	5.2	97.9	47.0	57.4	80.9	75.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
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°
2623.4	0°	2623.4	2623.4	2623.4	2623.4	2623.4	2623.4	2623.4	2623.4	2623.4	2623.4
2359.8	2.5°	2349.3	2285.4	2238.4	2214.9	2195.3	2213.6	2224.0	2224.0	2268.4	2294.5
2174.4	5°	2128.8	2013.9	1926.4	1867.7	1832.5	1844.2	1857.3	1871.6	1927.8	1965.6
2064.8	7.5°	1976.0	1799.8	1666.7	1584.5	1541.4	1547.9	1557.1	1568.8	1623.6	1661.5
2080.5	10°	1947.3	1694.1	1506.2	1397.8	1345.6	1336.5	1331.3	1327.4	1360.0	1388.7
2258.0	12.5°	2064.8	1699.3	1437.0	1305.2	1241.2	1213.8	1182.5	1157.7	1162.9	1181.2
2526.8	15°	2274.9	1765.9	1414.8	1256.9	1177.3	1131.6	1095.0	1065.0	1058.5	1065.0
2761.8	17.5°	2515.1	1856.0	1412.2	1215.1	1115.9	1068.9	1038.9	1011.5	1002.4	1003.7
2893.6	20°	2674.3	1927.8	1404.4	1168.1	1057.2	1015.4	989.3	961.9	952.8	955.4
2857.0	22.5°	2690.0	1965.6	1392.6	1115.9	998.5	963.2	937.1	912.3	911.0	911.0
2720.0	25°	2605.1	1965.6	1367.8	1068.9	942.3	911.0	887.5	857.5	862.7	865.3
2564.7	27.5°	2473.3	1918.6	1320.8	1031.1	894.0	861.4	837.9	810.5	817.0	821.0
2419.8	30°	2342.8	1858.6	1264.7	988.0	848.4	810.5	793.6	770.1	772.7	777.9
2276.2	32.5°	2221.4	1794.6	1198.2	952.8	802.7	764.8	751.8	725.7	729.6	734.8
2135.3	35°	2101.3	1724.1	1119.8	911.0	760.9	723.1	712.6	682.6	685.2	693.1
1994.3	37.5°	1972.1	1649.7	1055.9	869.3	720.5	681.3	670.9	639.5	642.1	651.3
1848.1	40°	1836.4	1576.7	993.2	824.9	677.4	638.2	629.1	595.2	597.8	608.2
1704.6	42.5°	1699.3	1497.0	945.0	767.4	633.0	591.2	582.1	550.8	554.7	566.4
1579.3	45°	1572.7	1401.8	913.6	703.5	591.2	544.3	535.1	506.4	514.2	527.3
1473.5	47.5°	1464.4	1303.9	900.6	650.0	546.9	496.0	488.1	464.6	477.7	492.1
1383.5	50°	1371.7	1209.9	883.6	595.2	505.1	454.2	446.4	430.7	447.7	462.0
1322.1	52.5°	1305.2	1102.9	847.1	545.6	468.6	419.0	416.4	408.5	424.2	437.2
1276.5	55°	1247.8	991.9	788.3	502.5	435.9	388.9	391.6	387.6	400.7	411.1
1249.1	57.5°	1195.5	895.4	713.9	468.6	400.7	362.8	370.7	365.5	372.0	378.5
1220.3	60°	1132.9	797.5	625.2	430.7	358.9	336.7	345.9	331.5	330.2	332.8
1168.1	62.5°	1040.2	665.6	532.5	383.7	322.4	308.0	311.9	284.5	263.6	263.6
1091.1	65°	911.0	535.1	446.4	331.5	280.6	268.9	266.3	227.1	198.4	195.8
1007.6	67.5°	760.9	439.8	370.7	279.3	233.6	225.8	228.4	199.7	171.0	168.4
924.1	70°	620.0	364.1	298.9	223.2	180.1	187.9	199.7	171.0	143.6	139.7
826.2	72.5°	503.8	289.8	233.6	171.0	133.1	155.3	169.7	139.7	113.6	110.9
704.8	75°	388.9	212.7	167.1	116.2	96.6	120.1	133.1	101.8	80.9	77.0
545.6	77.5°	259.7	131.8	94.0	73.1	57.4	82.2	88.8	53.5	47.0	45.7
396.8	80°	157.9	61.3	40.5	35.2	19.6	30.0	35.2	22.2	24.8	26.1
211.4	82.5°	79.6	17.0	6.5	1.3	0.0	0.0	10.4	5.2	10.4	13.1
57.4	85°	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	6.5
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°
2623.4	0°	2623.4	2623.4	2623.4	2623.4	2623.4	2623.4	2623.4	2623.4	2623.4	2623.4
2305.0	2.5°	2378.0	2432.9	2485.1	2568.6	2654.7	2739.6	2825.7	2909.2	2939.3	2961.5
1990.4	5°	2104.0	2207.1	2327.1	2492.9	2670.4	2853.1	3038.5	3208.1	3285.1	3337.3
1694.1	7.5°	1820.7	1955.2	2127.4	2376.7	2654.7	2945.8	3236.9	3504.4	3628.4	3728.9
1414.8	10°	1540.1	1686.3	1904.3	2188.8	2564.7	2982.3	3384.3	3752.4	3912.9	4039.5
1213.8	12.5°	1293.4	1430.5	1658.9	1973.4	2423.7	2953.6	3469.2	3911.6	4100.9	4243.1
1070.2	15°	1119.8	1216.4	1418.7	1758.1	2256.7	2861.0	3474.4	3987.3	4194.9	4343.6
1010.2	17.5°	1023.3	1055.9	1187.7	1538.8	2071.3	2739.6	3426.1	4013.4	4235.3	4373.7
956.7	20°	971.1	976.3	1012.8	1254.3	1833.8	2626.0	3380.4	4039.5	4273.2	4389.3
918.8	22.5°	929.3	929.3	938.4	1025.9	1527.1	2490.3	3366.1	4085.2	4325.4	4397.2
875.8	25°	891.4	891.4	894.0	917.5	1209.9	2282.8	3356.9	4155.7	4397.2	4416.7
832.7	27.5°	852.3	853.6	853.6	866.6	975.0	2000.8	3317.8	4247.1	4483.3	4442.8
790.9	30°	813.1	815.7	815.7	824.9	862.7	1670.6	3240.8	4356.7	4595.5	4476.8
749.2	32.5°	774.0	776.6	776.6	784.4	811.8	1333.9	3144.2	4457.2	4709.1	4491.1
708.7	35°	733.5	737.4	734.8	745.3	774.0	1061.1	3021.5	4557.7	4831.8	4536.8
669.6	37.5°	693.1	695.7	694.4	704.8	737.4	916.2	2879.2	4633.4	4998.8	4638.6
627.8	40°	652.6	651.3	651.3	663.0	698.3	874.5	2700.4	4753.5	5239.0	4817.4
586.0	42.5°	610.8	610.8	608.2	621.3	664.3	843.1	2529.4	4968.8	5588.8	5102.0
546.9	45°	573.0	571.7	566.4	578.2	631.7	788.3	2469.4	5370.8	6105.6	5562.7
507.7	47.5°	536.4	535.1	522.1	532.5	592.6	738.7	2693.9	6028.6	6822.2	6240.1
476.4	50°	503.8	505.1	480.3	489.4	553.4	700.9	3180.7	6882.2	7773.7	7152.4
450.3	52.5°	473.8	473.8	441.2	446.4	505.1	666.9	3644.1	7807.6	9029.2	8424.9
422.9	55°	443.8	441.2	404.6	407.2	456.8	618.7	3713.2	8710.8	10741.6	10339.6
392.9	57.5°	409.8	404.6	370.7	370.7	412.4	583.4	3218.6	9405.1	12866.5	13153.6
336.7	60°	368.1	364.1	342.0	335.4	377.2	614.7	2271.0	9486.1	14236.9	16895.6
267.6	62.5°	314.5	319.8	308.0	298.9	343.3	638.2	1345.6	8834.8	13905.4	18085.9
207.5	65°	248.0	268.9	266.3	259.7	377.2	537.7	794.9	7584.4	12888.7	17125.3
181.4	67.5°	211.4	225.8	221.9	221.9	395.5	408.5	499.9	5925.5	11489.5	15985.9
151.4	70°	180.1	194.5	180.1	180.1	298.9	248.0	345.9	4137.4	9979.4	14725.1
121.4	72.5°	148.8	163.1	147.5	137.0	238.8	185.3	253.2	2585.6	8546.3	13412.0
86.1	75°	113.6	130.5	118.8	105.7	157.9	138.3	191.9	1502.3	7080.6	11475.2
52.2	77.5°	71.8	94.0	88.8	74.4	116.2	100.5	138.3	894.0	5463.5	8966.6
31.3	80°	44.4	48.3	49.6	47.0	66.6	67.9	94.0	509.0	3739.3	6249.2
19.6	82.5°	28.7	28.7	22.2	24.8	32.6	39.2	53.5	191.9	2197.9	3804.6
11.7	85°	20.9	18.3	11.7	11.7	15.7	19.6	20.9	58.7	891.4	1502.3
5.2	87.5°	10.4	9.1	3.9	5.2	7.8	6.5	5.2	2.6	224.5	480.3
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°
2623.4	0°	2623.4	2623.4	2623.4	2623.4	2623.4	2623.4	2623.4	2623.4
3011.1	2.5°	3037.2	3077.6	3080.2	3080.2	3045.0	3043.7	2971.9	2964.1
3454.8	5°	3576.2	3602.3	3608.8	3595.8	3525.3	3473.1	3333.4	3303.4
3907.7	7.5°	4069.6	4121.8	4121.8	4090.4	3975.6	3868.6	3666.3	3590.6
4282.3	10°	4463.7	4523.8	4510.7	4446.8	4301.9	4154.4	3909.0	3809.8
4509.4	12.5°	4655.6	4716.9	4683.0	4609.9	4468.9	4313.6	4055.2	3943.0
4574.7	15°	4651.7	4634.7	4599.5	4590.3	4522.5	4405.0	4163.5	4040.8
4534.2	17.5°	4485.9	4342.3	4314.9	4406.3	4492.4	4463.7	4257.5	4142.6
4437.6	20°	4223.6	3973.0	3948.2	4123.1	4368.4	4493.7	4344.9	4239.2
4298.0	22.5°	3946.9	3676.7	3619.3	3812.4	4181.8	4502.9	4455.9	4350.2
4144.0	25°	3684.5	3413.0	3355.6	3535.7	3974.3	4487.2	4576.0	4485.9
3996.5	27.5°	3465.3	3202.9	3149.4	3329.5	3774.6	4442.8	4696.0	4632.1
3850.3	30°	3295.6	3052.8	3013.7	3187.3	3602.3	4388.0	4848.7	4813.5
3714.5	32.5°	3196.4	3018.9	3033.2	3175.5	3509.6	4328.0	4994.9	5011.9
3648.0	35°	3294.3	3302.1	3427.4	3486.1	3595.8	4318.8	5193.3	5259.9
3727.6	37.5°	3781.1	4052.6	4312.3	4264.0	4017.3	4424.6	5489.6	5613.6
4074.8	40°	4609.9	5167.2	5588.8	5404.8	4783.5	4748.3	5916.4	6101.7
4690.8	42.5°	5622.7	6567.7	7262.0	6768.7	5771.5	5314.7	6525.9	6762.1
5436.1	45°	6691.7	8294.4	9388.2	8362.3	6824.8	6108.2	7448.7	7634.0
6134.4	47.5°	7818.0	10393.2	11808.0	10129.5	7801.1	7011.4	8706.9	8749.9
6796.1	50°	9050.1	12694.2	14274.8	11895.4	8743.4	8046.4	10244.4	10194.8
7567.4	52.5°	10223.5	15060.5	16689.4	13669.2	9570.9	9330.7	12028.6	11926.7
8622.0	55°	11343.3	17425.5	19118.3	15373.7	10351.4	11027.5	14148.2	13532.1
10142.6	57.5°	12642.0	19551.6	21621.6	17086.1	11442.5	13230.6	16518.4	14464.0
13054.4	60°	14561.9	21967.5	24452.6	19432.8	13517.8	15546.0	17368.0	14286.5
16541.9	62.5°	17013.0	24188.9	26510.8	21732.6	15602.1	15981.9	16116.4	12918.7
15830.5	65°	17489.4	24751.5	26627.0	22347.3	15333.3	13556.9	13157.5	10384.0
14140.3	67.5°	16226.0	23734.7	25003.4	21202.7	13563.4	10476.7	9873.7	7533.5
13030.9	70°	14808.6	21796.5	22173.7	19256.6	11929.4	7705.8	6668.2	4834.4
12271.3	72.5°	13355.9	19211.0	18430.5	16723.3	10484.5	5611.0	4809.6	3436.5
11189.3	75°	11630.5	15811.0	14517.5	13895.0	8680.8	4403.7	3479.6	2371.5
9624.4	77.5°	9313.8	11129.3	10783.4	10770.4	6523.3	3217.3	2321.9	1486.6
7519.2	80°	6570.3	7222.9	7046.7	8111.7	4376.3	2333.7	1397.8	827.5
5233.8	82.5°	3180.7	3993.9	4099.6	4830.5	2128.8	1373.1	322.4	180.1
2046.5	85°	1245.1	1926.4	1625.0	1833.8	597.8	382.4	7.8	0.0
336.7	87.5°	139.7	223.2	204.9	161.8	73.1	15.7	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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