

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: P951223

Luminaire Tested: **GALN-SB5B-940-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951223  
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-SB5B-940-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

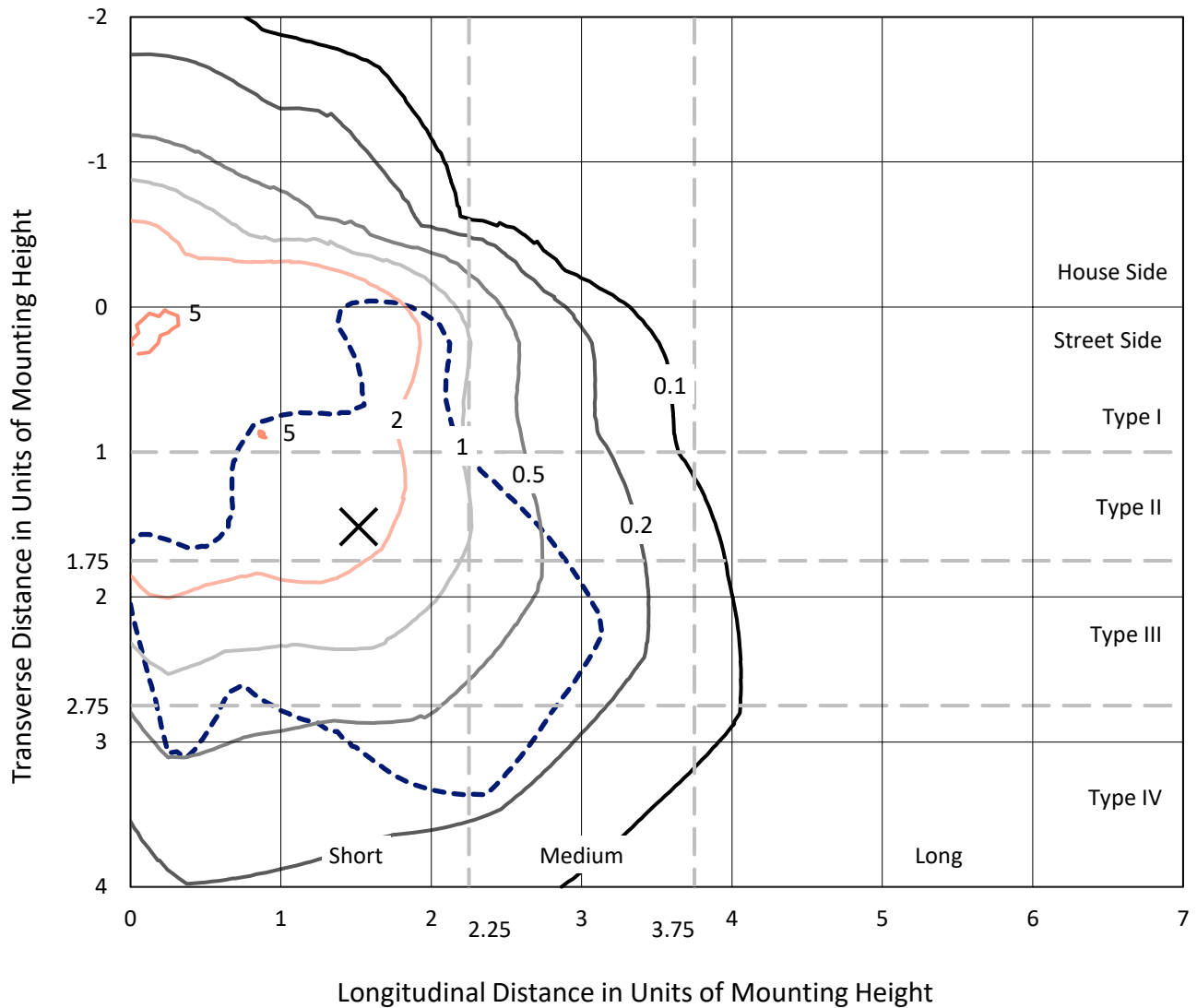
Lumens per Lamp: N/A  
Luminaire Lumens: 15731 lumens  
Efficiency: N/A  
Efficacy: 86.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

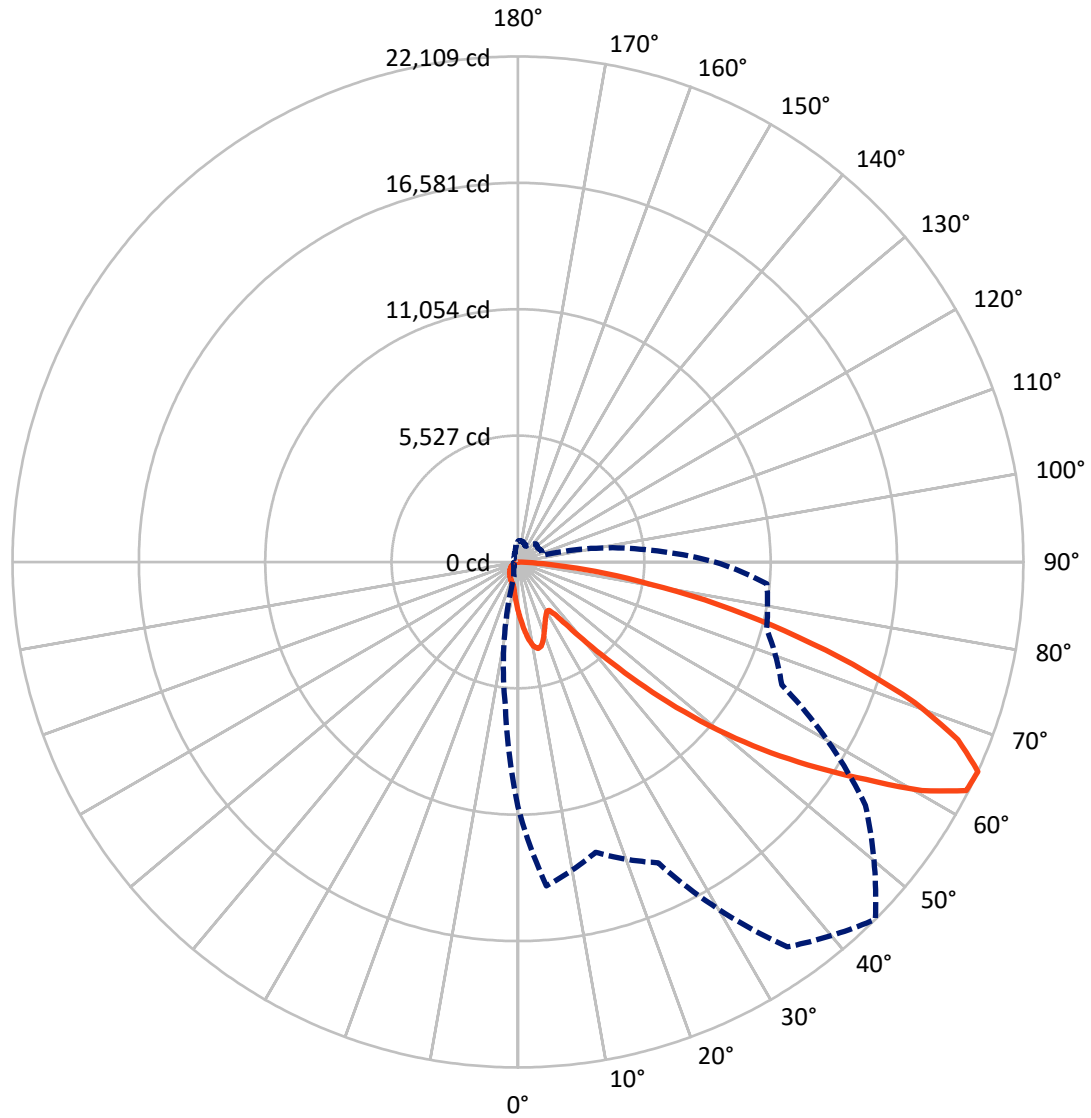
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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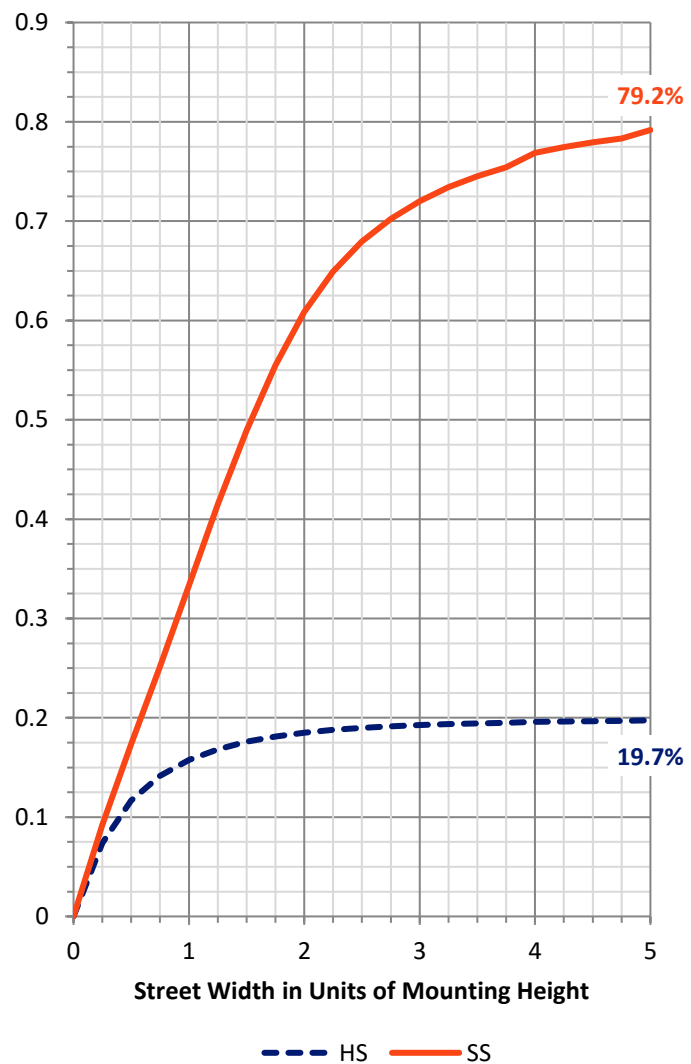
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3126.9	0.0	3126.9
	% Fixture	19.9	0.0	19.9
<b>Street Side</b>	Lumens	12604.2	0.0	12604.2
	% Fixture	80.1	0.0	80.1
<b>Total</b>	Lumens	15731.0	0.0	15731.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.5	1.4
10°-20°	642.9	4.1
20°-30°	947.1	6.0
30°-40°	1216.7	7.7
40°-50°	1967.8	12.5
50°-60°	3450.8	21.9
60°-70°	4317.9	27.4
70°-80°	2523.2	16.0
80°-90°	450.2	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°	15731.0	100.0
0°-180°	15731.0	100.0

**Coefficient of Utilization**



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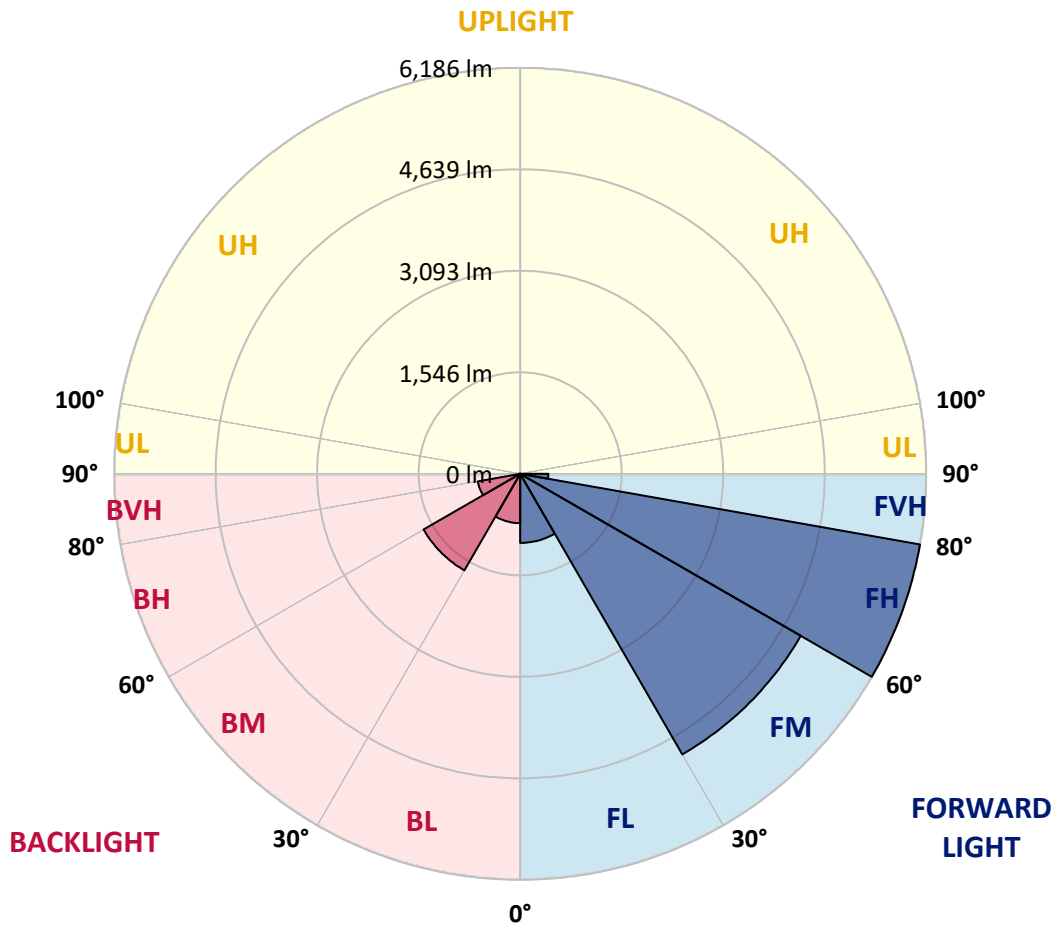
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1052.6	6.7			
FM (30°-60°)	4936.6	31.4			
FH (60°-80°)	6185.9	39.3			G3/7500
FVH (80°-90°)	429.1	2.7			G3/500
BL (0°-30°)	751.8	4.8	B2/1000		
BM (30°-60°)	1698.8	10.8	B2/2500		
BH (60°-80°)	655.1	4.2	B2/1000		G2/1000
BVH (80°-90°)	21.1	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-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2178.2	2178.2	2178.2	2178.2	2178.2	2178.2	2178.2	2178.2	2178.2	2178.2
2.5°	2440.5	2458.9	2500.1	2521.8	2555.4	2557.5	2557.5	2528.3	2527.2	2467.6
5°	2727.7	2771.0	2868.6	2969.3	2991.0	2996.4	2985.6	2927.1	2883.7	2767.8
7.5°	3012.7	3096.1	3244.6	3379.0	3422.3	3422.3	3396.3	3301.0	3212.1	3044.1
10°	3248.9	3354.1	3555.6	3706.3	3756.1	3745.3	3692.2	3571.9	3449.4	3245.7
12.5°	3405.0	3523.1	3744.2	3865.6	3916.5	3888.3	3827.6	3710.6	3581.6	3367.1
15°	3483.0	3606.6	3798.4	3862.3	3848.2	3819.0	3811.4	3755.0	3657.5	3457.0
17.5°	3516.6	3631.5	3764.8	3724.7	3605.5	3582.7	3658.6	3730.1	3706.3	3535.0
20°	3548.0	3644.5	3684.6	3506.9	3298.8	3278.2	3423.4	3627.1	3731.2	3607.6
22.5°	3591.4	3651.0	3568.6	3277.1	3052.8	3005.1	3165.5	3472.2	3738.8	3699.8
25°	3651.0	3667.2	3440.8	3059.3	2833.9	2786.2	2935.7	3299.9	3725.8	3799.5
27.5°	3722.5	3688.9	3318.3	2877.2	2659.4	2615.0	2764.5	3134.1	3688.9	3899.2
30°	3815.7	3717.1	3196.9	2736.3	2534.8	2502.3	2646.4	2991.0	3643.4	4026.0
32.5°	3910.0	3729.0	3084.2	2654.0	2506.6	2518.5	2636.6	2914.1	3593.6	4147.3
35°	4011.9	3766.9	3028.9	2735.3	2741.8	2845.8	2894.6	2985.6	3586.0	4312.0
37.5°	4150.6	3851.5	3095.1	3139.5	3364.9	3580.5	3540.5	3335.6	3673.7	4558.0
40°	4350.0	3999.9	3383.3	3827.6	4290.4	4640.4	4487.6	3971.8	3942.5	4912.4
42.5°	4640.4	4236.2	3894.8	4668.6	5453.2	6029.7	5620.1	4792.1	4412.8	5418.5
45°	5069.6	4618.7	4513.6	5556.1	6886.9	7795.1	6943.3	5666.7	5071.7	6184.7
47.5°	5664.5	5181.2	5093.4	6491.4	8629.5	9804.2	8410.6	6477.3	5821.6	7229.4
50°	6454.5	5938.7	5642.8	7514.4	10540.1	11852.4	9876.9	7259.7	6681.0	8506.0
52.5°	7497.0	6995.3	6283.3	8488.6	12504.8	13857.3	11349.6	7946.8	7747.4	9987.4
55°	8918.9	8585.1	7158.9	9418.5	14468.5	15874.1	12764.9	8594.8	9156.2	11747.3
57.5°	10683.1	10921.5	8421.4	10496.7	16233.8	17952.6	14186.7	9500.8	10985.5	13715.3
60°	11821.0	14028.5	10839.2	12090.9	18239.8	20303.1	16135.2	11223.9	12908.0	14420.8
62.5°	11545.8	15016.9	13734.8	14126.0	20084.2	22012.1	18044.7	12954.6	13269.9	13381.5
65°	10701.6	14219.2	13144.2	14521.6	20551.3	22108.6	18555.1	12731.3	11256.4	10924.8
67.5°	9539.8	13273.2	11740.8	13472.6	19707.1	20760.5	17604.7	11261.8	8698.9	8198.2
70°	8286.0	12226.3	10819.7	12295.7	18097.8	18411.0	15988.9	9905.0	6398.2	5536.6
72.5°	7096.1	11136.1	10189.0	11089.5	15951.0	15302.9	13885.5	8705.4	4658.8	3993.4
75°	5879.1	9527.9	9290.6	9656.9	13128.0	12054.0	11537.1	7207.7	3656.4	2889.1
77.5°	4536.4	7445.0	7991.2	7733.3	9240.7	8953.5	8942.7	5416.3	2671.3	1927.9
80°	3104.8	5188.8	6243.2	5455.4	5997.2	5850.9	6735.2	3633.7	1937.7	1160.6
82.5°	1825.0	3159.0	4345.6	2641.0	3316.1	3403.9	4010.8	1767.5	1140.1	267.7
85°	740.2	1247.3	1699.2	1033.9	1599.5	1349.2	1522.6	496.3	317.5	6.5
87.5°	186.4	398.8	279.6	116.0	185.3	170.1	134.4	60.7	13.0	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):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
2178.2	0°	2178.2	2178.2	2178.2	2178.2	2178.2	2178.2	2178.2	2178.2	2178.2	2178.2
2461.1	2.5°	2418.8	2393.9	2332.1	2270.4	2220.5	2153.3	2108.9	2055.8	2004.8	1959.3
2742.8	5°	2674.6	2592.2	2479.5	2376.6	2271.4	2169.6	2068.8	1962.6	1865.1	1805.4
2981.3	7.5°	2882.6	2737.4	2587.9	2456.8	2330.0	2210.8	2077.5	1948.5	1795.7	1714.4
3163.3	10°	3037.6	2846.9	2650.7	2500.1	2372.2	2256.3	2143.6	2013.5	1829.3	1727.4
3273.9	12.5°	3139.5	2913.0	2683.2	2510.9	2367.9	2277.9	2228.1	2177.2	1994.0	1874.8
3355.1	15°	3209.9	2959.6	2706.0	2486.0	2310.5	2244.3	2294.2	2352.7	2235.7	2098.0
3439.7	17.5°	3286.9	3020.3	2715.8	2418.8	2198.8	2170.7	2299.6	2435.1	2429.7	2293.1
3519.9	20°	3368.1	3073.4	2709.3	2310.5	2063.4	2088.3	2253.0	2410.2	2476.3	2402.6
3612.0	22.5°	3451.6	3124.3	2684.3	2169.6	1936.6	2014.6	2179.3	2317.0	2395.0	2372.2
3724.7	25°	3556.7	3195.8	2647.5	2017.9	1831.5	1939.8	2093.7	2205.3	2259.5	2258.4
3846.1	27.5°	3682.4	3291.2	2628.0	1895.4	1756.7	1855.3	1991.8	2091.5	2129.5	2129.5
3996.7	30°	3828.7	3403.9	2606.3	1815.2	1713.3	1767.5	1873.7	1971.3	2009.2	2009.2
4161.4	32.5°	3991.3	3512.3	2554.3	1766.4	1680.8	1681.9	1749.1	1838.0	1883.5	1890.0
4367.3	35°	4186.3	3628.2	2440.5	1727.4	1642.9	1598.5	1631.0	1704.7	1758.8	1772.9
4661.0	37.5°	4442.1	3770.2	2277.9	1670.0	1584.4	1510.7	1518.3	1574.6	1634.2	1655.9
5066.3	40°	4785.6	3937.1	2108.9	1587.6	1502.0	1414.2	1411.0	1452.2	1510.7	1534.5
5614.7	42.5°	5239.7	4137.6	1947.4	1508.5	1402.3	1312.4	1306.9	1339.5	1390.4	1415.3
6338.6	45°	5820.6	4383.6	1808.7	1446.7	1304.8	1215.9	1213.7	1240.8	1285.3	1311.3
7265.1	47.5°	6627.9	4629.6	1714.4	1414.2	1227.8	1136.8	1141.1	1165.0	1205.1	1223.5
8464.8	50°	7680.2	4704.3	1666.7	1414.2	1186.7	1066.4	1088.0	1107.5	1137.9	1148.7
9902.9	52.5°	8690.2	4457.3	1623.4	1422.9	1192.1	1006.8	1053.4	1067.4	1093.5	1097.8
11235.8	55°	9185.5	3832.0	1563.8	1425.1	1225.7	955.8	1025.2	1051.2	1060.9	1059.9
12009.6	57.5°	9015.3	3098.3	1463.0	1416.4	1248.4	923.3	990.5	1040.4	1046.9	1037.1
11862.2	60°	8418.2	2281.2	1386.1	1352.5	1239.8	913.6	937.4	1016.5	1026.3	1013.3
10726.5	62.5°	7416.9	1583.3	1326.5	1211.6	1201.8	910.3	854.0	964.5	988.3	969.9
8621.9	65°	5839.0	1118.4	1142.2	1062.0	1119.5	893.0	767.3	901.6	934.2	906.0
6255.1	67.5°	3951.2	807.4	925.5	962.3	986.2	854.0	704.4	830.1	873.5	836.6
4014.0	70°	2133.8	566.8	611.2	810.6	837.7	786.8	648.1	757.5	807.4	767.3
2853.4	72.5°	1260.3	407.5	428.1	651.3	697.9	692.5	585.2	673.0	733.7	686.0
1969.1	75°	694.7	275.3	305.6	472.5	566.8	534.3	502.8	570.0	631.8	585.2
1234.3	77.5°	311.0	164.7	212.4	309.9	445.4	366.3	389.0	444.3	501.8	453.0
687.1	80°	120.3	92.1	140.9	169.1	324.0	202.7	250.3	327.3	368.5	329.4
149.6	82.5°	15.2	41.2	60.7	66.1	188.6	107.3	145.2	205.9	202.7	175.6
0.0	85°	0.0	7.6	8.7	4.3	81.3	39.0	47.7	67.2	62.9	47.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	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°
2178.2	0°	2178.2	2178.2	2178.2	2178.2	2178.2	2178.2	2178.2	2178.2	2178.2	2178.2
1950.7	2.5°	1897.6	1858.5	1839.0	1822.8	1838.0	1846.6	1846.6	1883.5	1905.1	1913.8
1767.5	5°	1672.2	1599.5	1550.8	1521.5	1531.3	1542.1	1554.0	1600.6	1632.1	1652.6
1640.7	7.5°	1494.4	1383.9	1315.6	1279.9	1285.3	1292.9	1302.6	1348.1	1379.6	1406.6
1616.9	10°	1406.6	1250.6	1160.6	1117.3	1109.7	1105.4	1102.1	1129.2	1153.1	1174.7
1714.4	12.5°	1411.0	1193.2	1083.7	1030.6	1007.8	981.8	961.2	965.6	980.7	1007.8
1888.9	15°	1466.2	1174.7	1043.6	977.5	939.6	909.2	884.3	878.9	884.3	888.6
2088.3	17.5°	1541.0	1172.6	1008.9	926.6	887.6	862.6	839.9	832.3	833.4	838.8
2220.5	20°	1600.6	1166.1	969.9	877.8	843.1	821.4	798.7	791.1	793.3	794.4
2233.5	22.5°	1632.1	1156.3	926.6	829.0	799.8	778.1	757.5	756.4	756.4	762.9
2163.1	25°	1632.1	1135.7	887.6	782.4	756.4	736.9	712.0	716.3	718.5	727.2
2053.6	27.5°	1593.0	1096.7	856.1	742.3	715.2	695.7	673.0	678.4	681.6	691.4
1945.2	30°	1543.2	1050.1	820.4	704.4	673.0	658.9	639.4	641.6	645.9	656.7
1844.5	32.5°	1490.1	994.8	791.1	666.5	635.0	624.2	602.5	605.8	610.1	622.0
1744.8	35°	1431.6	929.8	756.4	631.8	600.4	591.7	566.8	568.9	575.4	588.4
1637.5	37.5°	1369.8	876.7	721.7	598.2	565.7	557.0	531.0	533.2	540.8	555.9
1524.8	40°	1309.1	824.7	684.9	562.4	529.9	522.3	494.2	496.3	505.0	521.3
1411.0	42.5°	1243.0	784.6	637.2	525.6	490.9	483.3	457.3	460.6	470.3	486.6
1305.9	45°	1163.9	758.6	584.1	490.9	451.9	444.3	420.5	427.0	437.8	454.1
1215.9	47.5°	1082.6	747.8	539.7	454.1	411.8	405.3	385.8	396.6	408.6	421.6
1139.0	50°	1004.6	733.7	494.2	419.4	377.1	370.6	357.6	371.7	383.6	395.6
1083.7	52.5°	915.7	703.3	453.0	389.0	347.9	345.7	339.2	352.2	363.0	373.9
1036.0	55°	823.6	654.6	417.2	362.0	322.9	325.1	321.9	332.7	341.4	351.1
992.7	57.5°	743.4	592.8	389.0	332.7	301.3	307.8	303.4	308.9	314.3	326.2
940.7	60°	662.1	519.1	357.6	298.0	279.6	287.2	275.3	274.2	276.3	279.6
863.7	62.5°	552.7	442.2	318.6	267.7	255.8	259.0	236.2	218.9	218.9	222.2
756.4	65°	444.3	370.6	275.3	233.0	223.2	221.1	188.6	164.7	162.6	172.3
631.8	67.5°	365.2	307.8	231.9	194.0	187.5	189.6	165.8	142.0	139.8	150.6
514.8	70°	302.4	248.2	185.3	149.6	156.1	165.8	142.0	119.2	116.0	125.7
418.3	72.5°	240.6	194.0	142.0	110.5	129.0	140.9	116.0	94.3	92.1	100.8
322.9	75°	176.6	138.7	96.4	80.2	99.7	110.5	84.5	67.2	63.9	71.5
215.7	77.5°	109.5	78.0	60.7	47.7	68.3	73.7	44.4	39.0	37.9	43.3
131.1	80°	50.9	33.6	29.3	16.3	24.9	29.3	18.4	20.6	21.7	26.0
66.1	82.5°	14.1	5.4	1.1	0.0	0.0	8.7	4.3	8.7	10.8	16.3
5.4	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	5.4	9.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3
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°
2178.2	0°	2178.2	2178.2	2178.2	2178.2	2178.2	2178.2	2178.2	2178.2
1974.5	2.5°	2020.0	2063.4	2132.7	2204.2	2274.7	2346.2	2415.6	2440.5
1746.9	5°	1832.5	1932.2	2069.9	2217.3	2369.0	2522.9	2663.7	2727.7
1511.8	7.5°	1623.4	1766.4	1973.4	2204.2	2445.9	2687.6	2909.7	3012.7
1278.8	10°	1400.1	1581.1	1817.4	2129.5	2476.3	2810.0	3115.6	3248.9
1073.9	12.5°	1187.7	1377.4	1638.6	2012.4	2452.4	2880.5	3247.9	3405.0
929.8	15°	1010.0	1178.0	1459.7	1873.7	2375.5	2884.8	3310.7	3483.0
849.6	17.5°	876.7	986.2	1277.7	1719.8	2274.7	2844.7	3332.4	3516.6
806.3	20°	810.6	841.0	1041.4	1522.6	2180.4	2806.8	3354.1	3548.0
771.6	22.5°	771.6	779.2	851.8	1267.9	2067.7	2794.9	3392.0	3591.4
740.2	25°	740.2	742.3	761.8	1004.6	1895.4	2787.3	3450.5	3651.0
707.7	27.5°	708.7	708.7	719.6	809.5	1661.3	2754.8	3526.4	3722.5
675.1	30°	677.3	677.3	684.9	716.3	1387.1	2690.8	3617.4	3815.7
642.6	32.5°	644.8	644.8	651.3	674.1	1107.5	2610.6	3700.8	3910.0
609.0	35°	612.3	610.1	618.8	642.6	881.0	2508.8	3784.3	4011.9
575.4	37.5°	577.6	576.5	585.2	612.3	760.8	2390.6	3847.1	4150.6
541.9	40°	540.8	540.8	550.5	579.8	726.1	2242.2	3946.8	4350.0
507.2	42.5°	507.2	505.0	515.8	551.6	700.1	2100.2	4125.7	4640.4
475.7	45°	474.7	470.3	480.1	524.5	654.6	2050.4	4459.4	5069.6
445.4	47.5°	444.3	433.5	442.2	492.0	613.4	2236.8	5005.6	5664.5
418.3	50°	419.4	398.8	406.4	459.5	581.9	2641.0	5714.4	6454.5
393.4	52.5°	393.4	366.3	370.6	419.4	553.8	3025.7	6482.7	7497.0
368.5	55°	366.3	335.9	338.1	379.3	513.7	3083.1	7232.6	8918.9
340.3	57.5°	335.9	307.8	307.8	342.4	484.4	2672.4	7809.2	10683.1
305.6	60°	302.4	283.9	278.5	313.2	510.4	1885.6	7876.3	11821.0
261.2	62.5°	265.5	255.8	248.2	285.0	529.9	1117.3	7335.6	11545.8
205.9	65°	223.2	221.1	215.7	313.2	446.5	660.0	6297.4	10701.6
175.6	67.5°	187.5	184.2	184.2	328.4	339.2	415.1	4920.0	9539.8
149.6	70°	161.5	149.6	149.6	248.2	205.9	287.2	3435.3	8286.0
123.5	72.5°	135.5	122.5	113.8	198.3	153.9	210.2	2146.8	7096.1
94.3	75°	108.4	98.6	87.8	131.1	114.9	159.3	1247.3	5879.1
59.6	77.5°	78.0	73.7	61.8	96.4	83.4	114.9	742.3	4536.4
36.8	80°	40.1	41.2	39.0	55.3	56.4	78.0	422.6	3104.8
23.8	82.5°	23.8	18.4	20.6	27.1	32.5	44.4	159.3	1825.0
17.3	85°	15.2	9.8	9.8	13.0	16.3	17.3	48.8	740.2
8.7	87.5°	7.6	3.3	4.3	6.5	5.4	4.3	2.2	186.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)