

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: P951057

Luminaire Tested: **GALN-SB5B-827-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951057  
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-827-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

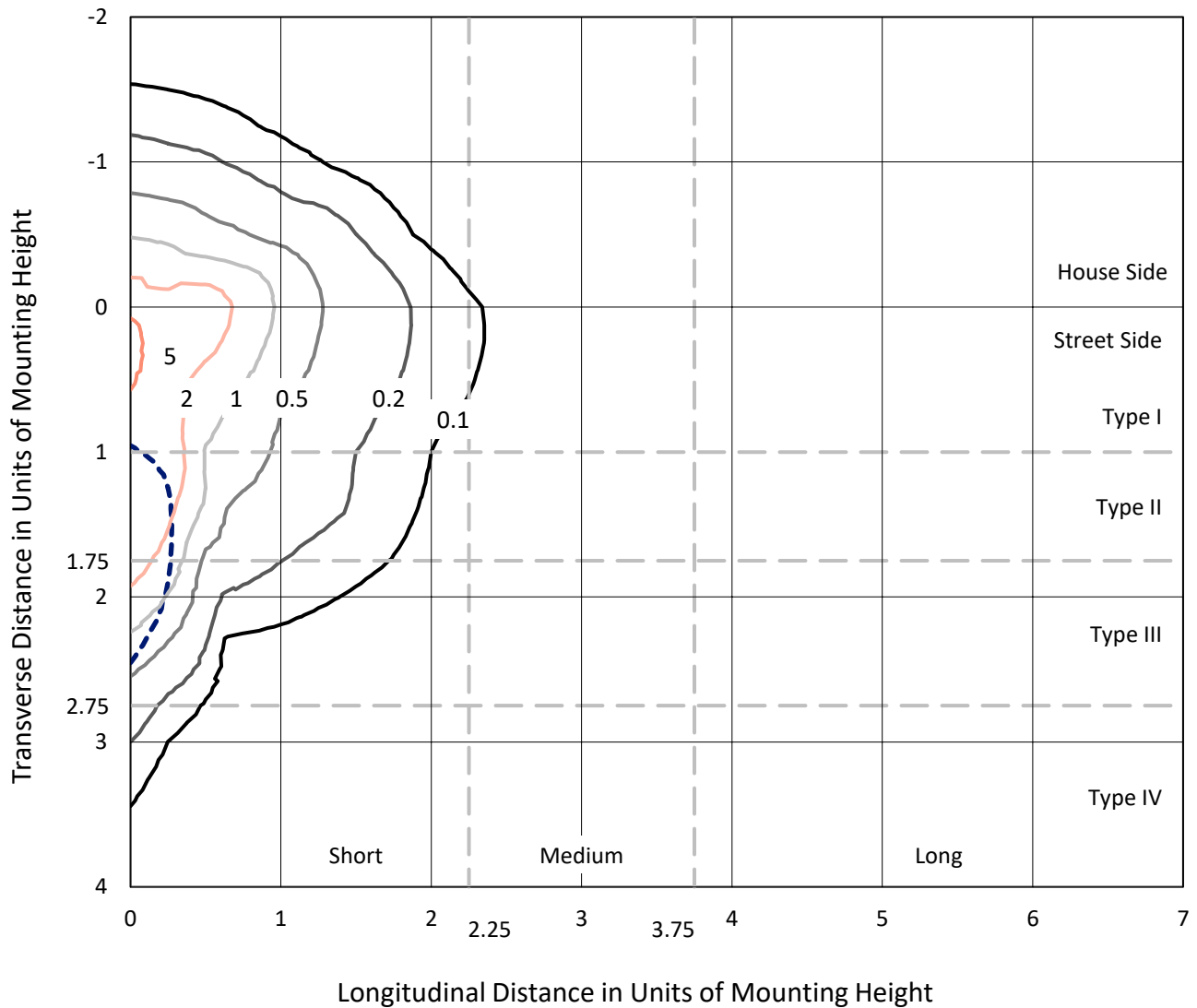
Lumens per Lamp: N/A  
Luminaire Lumens: 18877 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

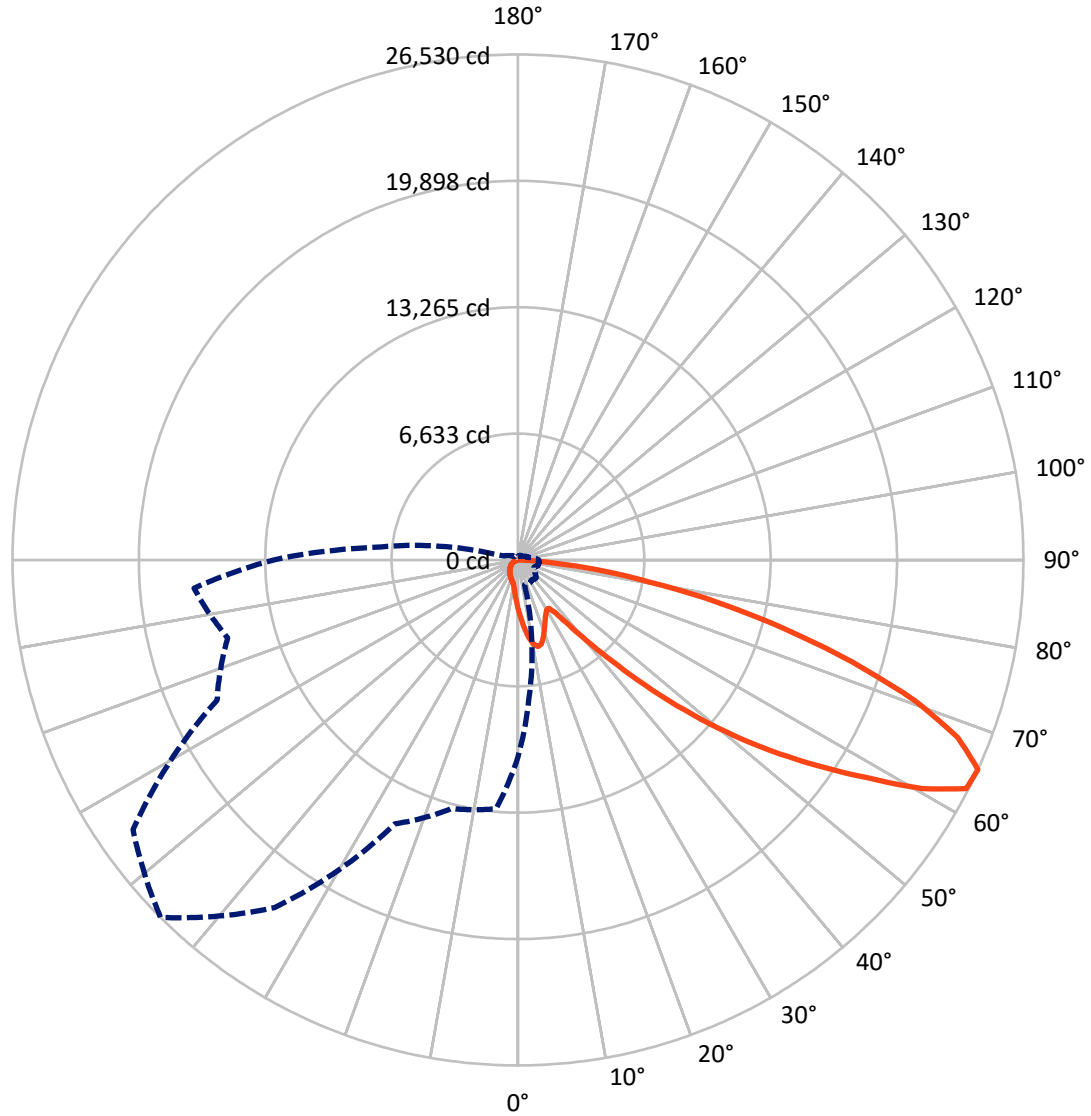
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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
<b>House Side</b>	Lumens	2643.6	0.0	2643.6
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	16233.4	0.0	16233.4
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	18877.0	0.0	18877.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	257.3	1.4
10°-20°	771.4	4.1
20°-30°	1136.5	6.0
30°-40°	1460.1	7.7
40°-50°	2361.4	12.5
50°-60°	4140.9	21.9
60°-70°	5181.4	27.4
70°-80°	3027.8	16.0
80°-90°	540.2	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°	18877.0	100.0
0°-180°	18877.0	100.0

**Coefficient of Utilization**



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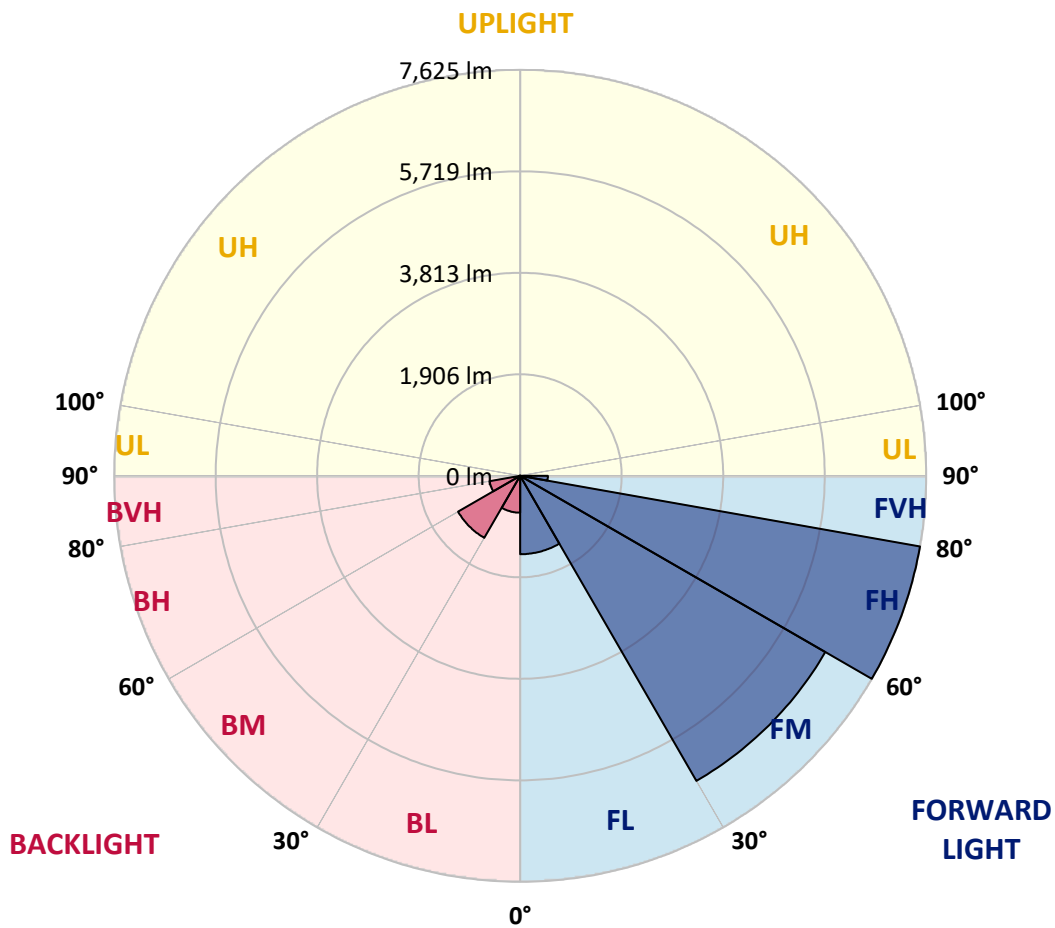
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1472.3	7.8			
FM (30°-60°)	6616.2	35.0			
FH (60°-80°)	7625.4	40.4			G4/12000
FVH (80°-90°)	519.4	2.8			G4/750
BL (0°-30°)	692.9	3.7	B2/1000		
BM (30°-60°)	1346.2	7.1	B2/2500		
BH (60°-80°)	583.7	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°	2613.9	2613.9	2613.9	2613.9	2613.9	2613.9	2613.9	2613.9	2613.9	2613.9
2.5°	2953.3	2902.6	2872.6	2798.5	2724.4	2664.6	2584.0	2530.6	2466.9	2405.8
5°	3291.4	3209.5	3110.6	2975.4	2851.8	2725.7	2603.5	2482.5	2355.1	2238.0
7.5°	3577.5	3459.1	3284.9	3105.4	2948.1	2795.9	2652.9	2492.9	2338.2	2154.8
10°	3795.9	3645.1	3416.2	3180.8	3000.1	2846.6	2707.5	2572.2	2416.2	2195.1
12.5°	3928.6	3767.3	3495.6	3219.9	3013.1	2841.4	2733.5	2673.7	2612.6	2392.8
15°	4026.1	3851.9	3551.5	3247.2	2983.2	2772.5	2693.2	2753.0	2823.2	2682.8
17.5°	4127.6	3944.2	3624.3	3258.9	2902.6	2638.6	2604.8	2759.5	2922.1	2915.6
20°	4223.8	4041.7	3688.0	3251.1	2772.5	2476.0	2505.9	2703.6	2892.2	2971.5
22.5°	4334.3	4141.9	3749.1	3221.2	2603.5	2323.9	2417.5	2615.2	2780.3	2873.9
25°	4469.6	4268.0	3835.0	3176.9	2421.4	2197.7	2327.8	2512.4	2646.4	2711.4
27.5°	4615.2	4418.9	3949.4	3153.5	2274.4	2108.0	2226.3	2390.2	2509.8	2555.3
30°	4796.0	4594.4	4084.6	3127.5	2178.2	2056.0	2121.0	2248.4	2365.5	2411.0
32.5°	4993.6	4789.5	4214.7	3065.1	2119.7	2017.0	2018.3	2098.9	2205.5	2260.1
35°	5240.7	5023.6	4353.8	2928.6	2072.9	1971.4	1918.1	1957.1	2045.6	2110.6
37.5°	5593.1	5330.5	4524.2	2733.5	2004.0	1901.2	1812.8	1821.9	1889.5	1961.0
40°	6079.5	5742.7	4724.5	2530.6	1905.1	1802.4	1697.1	1693.2	1742.6	1812.8
42.5°	6737.5	6287.6	4965.0	2336.9	1810.2	1682.8	1574.8	1568.3	1607.3	1668.4
45°	7606.2	6984.6	5260.2	2170.4	1736.1	1565.7	1459.1	1456.5	1489.0	1542.3
47.5°	8718.1	7953.4	5555.4	2057.3	1697.1	1473.4	1364.1	1369.4	1398.0	1446.1
50°	10157.6	9216.1	5645.2	2000.1	1697.1	1424.0	1279.6	1305.6	1329.0	1365.4
52.5°	11883.3	10428.1	5348.7	1948.0	1707.5	1430.5	1208.1	1264.0	1280.9	1312.1
55°	13482.8	11022.4	4598.3	1876.5	1710.1	1470.8	1147.0	1230.2	1261.4	1273.1
57.5°	14411.3	10818.3	3717.9	1755.6	1699.7	1498.1	1108.0	1188.6	1248.4	1256.2
60°	14234.5	10101.7	2737.4	1663.2	1622.9	1487.7	1096.3	1124.9	1219.8	1231.5
62.5°	12871.6	8900.1	1899.9	1591.7	1453.9	1442.2	1092.4	1024.7	1157.4	1186.0
65°	10346.2	7006.7	1342.0	1370.7	1274.4	1343.3	1071.6	920.7	1082.0	1121.0
67.5°	7506.1	4741.4	968.8	1110.6	1154.8	1183.4	1024.7	845.3	996.1	1048.1
70°	4816.8	2560.5	680.1	733.4	972.7	1005.2	944.1	777.7	909.0	968.8
72.5°	3424.0	1512.4	489.0	513.7	781.6	837.5	831.0	702.2	807.6	880.4
75°	2362.9	833.6	330.3	366.7	567.0	680.1	641.1	603.4	684.0	758.1
77.5°	1481.2	373.2	197.7	254.9	371.9	534.5	439.5	466.9	533.2	602.1
80°	824.5	144.3	110.5	169.1	202.9	388.8	243.2	300.4	392.7	442.1
82.5°	179.5	18.2	49.4	72.8	79.3	226.3	128.7	174.3	247.1	243.2
85°	0.0	0.0	9.1	10.4	5.2	97.5	46.8	57.2	80.6	75.4
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°
2613.9	0°	2613.9	2613.9	2613.9	2613.9	2613.9	2613.9	2613.9	2613.9	2613.9	2613.9
2351.2	2.5°	2340.8	2277.0	2230.2	2206.8	2187.3	2205.5	2215.9	2215.9	2260.1	2286.2
2166.5	5°	2121.0	2006.6	1919.4	1860.9	1825.8	1837.5	1850.5	1864.8	1920.7	1958.4
2057.3	7.5°	1968.8	1793.3	1660.6	1578.7	1535.8	1542.3	1551.4	1563.1	1617.7	1655.4
2072.9	10°	1940.2	1688.0	1500.7	1392.8	1340.7	1331.6	1326.4	1322.5	1355.0	1383.7
2249.7	12.5°	2057.3	1693.2	1431.8	1300.4	1236.7	1209.4	1178.2	1153.5	1158.7	1176.9
2517.6	15°	2266.6	1759.5	1409.7	1252.3	1173.0	1127.5	1091.1	1061.1	1054.6	1061.1
2751.7	17.5°	2505.9	1849.2	1407.1	1210.7	1111.9	1065.1	1035.1	1007.8	998.7	1000.0
2883.0	20°	2664.6	1920.7	1399.3	1163.9	1053.3	1011.7	985.7	958.4	949.3	951.9
2846.6	22.5°	2680.2	1958.4	1387.6	1111.9	994.8	959.7	933.7	909.0	907.7	907.7
2710.1	25°	2595.7	1958.4	1362.8	1065.1	938.9	907.7	884.3	854.4	859.6	862.2
2555.3	27.5°	2464.3	1911.6	1316.0	1027.3	890.8	858.3	834.9	807.6	814.1	818.0
2411.0	30°	2334.3	1851.8	1260.1	984.4	845.3	807.6	790.7	767.3	769.9	775.1
2267.9	32.5°	2213.3	1788.1	1193.8	949.3	799.8	762.1	749.0	723.0	726.9	732.1
2127.5	35°	2093.7	1717.9	1115.8	907.7	758.1	720.4	710.0	680.1	682.7	690.5
1987.1	37.5°	1964.9	1643.7	1052.0	866.1	717.8	678.8	668.4	637.2	639.8	648.9
1841.4	40°	1829.7	1570.9	989.6	821.9	674.9	635.9	626.8	593.0	595.6	606.0
1698.4	42.5°	1693.2	1491.6	941.5	764.7	630.7	589.1	580.0	548.8	552.7	564.4
1573.5	45°	1567.0	1396.7	910.3	700.9	589.1	542.3	533.2	504.6	512.4	525.4
1468.2	47.5°	1459.1	1299.1	897.3	647.6	544.9	494.2	486.4	463.0	476.0	490.3
1378.5	50°	1366.7	1205.5	880.4	593.0	503.3	452.5	444.7	429.1	446.0	460.4
1317.3	52.5°	1300.4	1098.9	844.0	543.6	466.9	417.4	414.8	407.0	422.6	435.6
1271.8	55°	1243.2	988.3	785.5	500.7	434.3	387.5	390.1	386.2	399.2	409.6
1244.5	57.5°	1191.2	892.1	711.3	466.9	399.2	361.5	369.3	364.1	370.6	377.1
1215.9	60°	1128.8	794.6	622.9	429.1	357.6	335.5	344.6	330.3	329.0	331.6
1163.9	62.5°	1036.4	663.2	530.6	382.3	321.2	306.9	310.8	283.5	262.7	262.7
1087.2	65°	907.7	533.2	444.7	330.3	279.6	267.9	265.3	226.3	197.7	195.1
1003.9	67.5°	758.1	438.2	369.3	278.3	232.8	225.0	227.6	199.0	170.4	167.8
920.7	70°	617.7	362.8	297.8	222.4	179.5	187.3	199.0	170.4	143.0	139.1
823.2	72.5°	502.0	288.7	232.8	170.4	132.6	154.8	169.1	139.1	113.1	110.5
702.2	75°	387.5	212.0	166.5	115.7	96.2	119.6	132.6	101.4	80.6	76.7
543.6	77.5°	258.8	131.3	93.6	72.8	57.2	81.9	88.4	53.3	46.8	45.5
395.3	80°	157.4	61.1	40.3	35.1	19.5	29.9	35.1	22.1	24.7	26.0
210.7	82.5°	79.3	16.9	6.5	1.3	0.0	0.0	10.4	5.2	10.4	13.0
57.2	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°
2613.9	0°	2613.9	2613.9	2613.9	2613.9	2613.9	2613.9	2613.9	2613.9	2613.9	2613.9
2296.6	2.5°	2369.4	2424.0	2476.0	2559.2	2645.1	2729.6	2815.4	2898.7	2928.6	2950.7
1983.2	5°	2096.3	2199.0	2318.7	2483.8	2660.7	2842.7	3027.4	3196.5	3273.2	3325.2
1688.0	7.5°	1814.1	1948.0	2119.7	2368.1	2645.1	2935.1	3225.1	3491.6	3615.2	3715.3
1409.7	10°	1534.5	1680.2	1897.3	2180.8	2555.3	2971.5	3372.0	3738.7	3898.7	4024.8
1209.4	12.5°	1288.7	1425.3	1652.8	1966.2	2414.9	2942.9	3456.5	3897.4	4085.9	4227.7
1066.4	15°	1115.8	1212.0	1413.6	1751.7	2248.4	2850.5	3461.7	3972.8	4179.6	4327.8
1006.5	17.5°	1019.5	1052.0	1183.4	1533.2	2063.8	2729.6	3413.6	3998.8	4219.9	4357.7
953.2	20°	967.5	972.7	1009.1	1249.7	1827.1	2616.5	3368.1	4024.8	4257.6	4373.3
915.5	22.5°	925.9	925.9	935.0	1022.1	1521.5	2481.2	3353.8	4070.3	4309.6	4381.1
872.6	25°	888.2	888.2	890.8	914.2	1205.5	2274.4	3344.7	4140.6	4381.1	4400.6
829.7	27.5°	849.2	850.5	850.5	863.5	971.4	1993.6	3305.7	4231.6	4467.0	4426.7
788.1	30°	810.2	812.8	812.8	821.9	859.6	1664.5	3229.0	4340.8	4578.8	4460.5
746.4	32.5°	771.2	773.8	773.8	781.6	808.9	1329.0	3132.7	4441.0	4691.9	4474.8
706.1	35°	730.8	734.7	732.1	742.5	771.2	1057.2	3010.5	4541.1	4814.2	4520.3
667.1	37.5°	690.5	693.1	691.8	702.2	734.7	912.9	2868.7	4616.5	4980.6	4621.7
625.5	40°	650.2	648.9	648.9	660.6	695.7	871.3	2690.6	4736.2	5219.9	4799.9
583.9	42.5°	608.6	608.6	606.0	619.0	661.9	840.1	2520.2	4950.7	5568.4	5083.4
544.9	45°	570.9	569.6	564.4	576.1	629.4	785.5	2460.4	5351.3	6083.4	5542.4
505.9	47.5°	534.5	533.2	520.2	530.6	590.4	736.0	2684.1	6006.7	6797.3	6217.3
474.7	50°	502.0	503.3	478.6	487.7	551.4	698.3	3169.1	6857.2	7745.3	7126.3
448.6	52.5°	472.1	472.1	439.5	444.7	503.3	664.5	3630.8	7779.2	8996.4	8394.3
421.3	55°	442.1	439.5	403.1	405.7	455.1	616.4	3699.7	8679.1	10702.5	10302.0
391.4	57.5°	408.3	403.1	369.3	369.3	410.9	581.3	3206.9	9370.9	12819.6	13105.7
335.5	60°	366.7	362.8	340.7	334.2	375.8	612.5	2262.7	9451.5	14185.1	16834.0
266.6	62.5°	313.4	318.6	306.9	297.8	342.0	635.9	1340.7	8802.6	13854.8	18020.0
206.8	65°	247.1	267.9	265.3	258.8	375.8	535.8	792.0	7556.8	12841.7	17062.9
180.8	67.5°	210.7	225.0	221.1	221.1	394.0	407.0	498.1	5903.9	11447.7	15927.6
150.8	70°	179.5	193.8	179.5	179.5	297.8	247.1	344.6	4122.4	9943.1	14671.4
120.9	72.5°	148.2	162.6	146.9	136.5	238.0	184.7	252.3	2576.1	8515.2	13363.2
85.8	75°	113.1	130.0	118.3	105.3	157.4	137.8	191.2	1496.8	7054.8	11433.4
52.0	77.5°	71.5	93.6	88.4	74.1	115.7	100.1	137.8	890.8	5443.6	8933.9
31.2	80°	44.2	48.1	49.4	46.8	66.3	67.6	93.6	507.2	3725.7	6226.4
19.5	82.5°	28.6	28.6	22.1	24.7	32.5	39.0	53.3	191.2	2189.9	3790.7
11.7	85°	20.8	18.2	11.7	11.7	15.6	19.5	20.8	58.5	888.2	1496.8
5.2	87.5°	10.4	9.1	3.9	5.2	7.8	6.5	5.2	2.6	223.7	478.6
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°
2613.9	0°	2613.9	2613.9	2613.9	2613.9	2613.9	2613.9	2613.9	2613.9
3000.1	2.5°	3026.1	3066.4	3069.0	3069.0	3033.9	3032.6	2961.1	2953.3
3442.2	5°	3563.2	3589.2	3595.7	3582.7	3512.5	3460.4	3321.3	3291.4
3893.5	7.5°	4054.7	4106.8	4106.8	4075.5	3961.1	3854.5	3652.9	3577.5
4266.7	10°	4447.5	4507.3	4494.3	4430.6	4286.2	4139.3	3894.8	3795.9
4493.0	12.5°	4638.6	4699.7	4665.9	4593.1	4452.7	4297.9	4040.4	3928.6
4558.0	15°	4634.7	4617.8	4582.7	4573.6	4506.0	4388.9	4148.4	4026.1
4517.7	17.5°	4469.6	4326.5	4299.2	4390.2	4476.1	4447.5	4242.0	4127.6
4421.5	20°	4208.2	3958.5	3933.8	4108.1	4352.5	4477.4	4329.1	4223.8
4282.3	22.5°	3932.5	3663.3	3606.1	3798.6	4166.6	4486.5	4439.7	4334.3
4128.9	25°	3671.1	3400.6	3343.4	3522.9	3959.8	4470.9	4559.3	4469.6
3981.9	27.5°	3452.6	3191.3	3137.9	3317.4	3760.8	4426.7	4678.9	4615.2
3836.3	30°	3283.6	3041.7	3002.7	3175.6	3589.2	4372.0	4831.1	4796.0
3701.0	32.5°	3184.7	3007.9	3022.2	3163.9	3496.9	4312.2	4976.7	4993.6
3634.7	35°	3282.3	3290.1	3414.9	3473.4	3582.7	4303.1	5174.4	5240.7
3714.0	37.5°	3767.3	4037.8	4296.6	4248.5	4002.7	4408.5	5469.6	5593.1
4059.9	40°	4593.1	5148.4	5568.4	5385.1	4766.1	4731.0	5894.8	6079.5
4673.7	42.5°	5602.2	6543.8	7235.6	6744.0	5750.5	5295.3	6502.1	6737.5
5416.3	45°	6667.3	8264.2	9354.0	8331.8	6799.9	6086.0	7421.5	7606.2
6112.0	47.5°	7789.6	10355.3	11765.0	10092.6	7772.7	6985.9	8675.2	8718.1
6771.3	50°	9017.2	12648.0	14222.8	11852.1	8711.6	8017.1	10207.1	10157.6
7539.9	52.5°	10186.3	15005.6	16628.6	13619.4	9536.0	9296.8	11984.7	11883.3
8590.6	55°	11302.0	17362.0	19048.7	15317.7	10313.7	10987.3	14096.6	13482.8
10105.6	57.5°	12595.9	19480.4	21542.9	17023.9	11400.9	13182.4	16458.2	14411.3
13006.9	60°	14508.9	21887.5	24363.5	19362.1	13468.5	15489.4	17304.8	14234.5
16481.6	62.5°	16951.1	24100.8	26414.3	21653.4	15545.3	15923.7	16057.7	12871.6
15772.9	65°	17425.7	24661.3	26530.0	22265.9	15277.4	13507.5	13109.6	10346.2
14088.8	67.5°	16166.9	23648.3	24912.3	21125.5	13514.0	10438.5	9837.7	7506.1
12983.5	70°	14754.7	21717.1	22093.0	19186.5	11885.9	7677.7	6643.9	4816.8
12226.6	72.5°	13307.3	19141.0	18363.3	16662.4	10446.3	5590.5	4792.1	3424.0
11148.6	75°	11588.1	15753.4	14464.7	13844.4	8649.1	4387.6	3466.9	2362.9
9589.4	77.5°	9279.9	11088.8	10744.1	10731.1	6499.5	3205.6	2313.5	1481.2
7491.8	80°	6546.4	7196.6	7021.0	8082.2	4360.3	2325.2	1392.8	824.5
5214.7	82.5°	3169.1	3979.3	4084.6	4812.9	2121.0	1368.1	321.2	179.5
2039.1	85°	1240.6	1919.4	1619.0	1827.1	595.6	381.0	7.8	0.0
335.5	87.5°	139.1	222.4	204.2	161.3	72.8	15.6	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)