

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: P955152

Luminaire Tested: **GALN-SB8A-940-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955152  
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-940-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

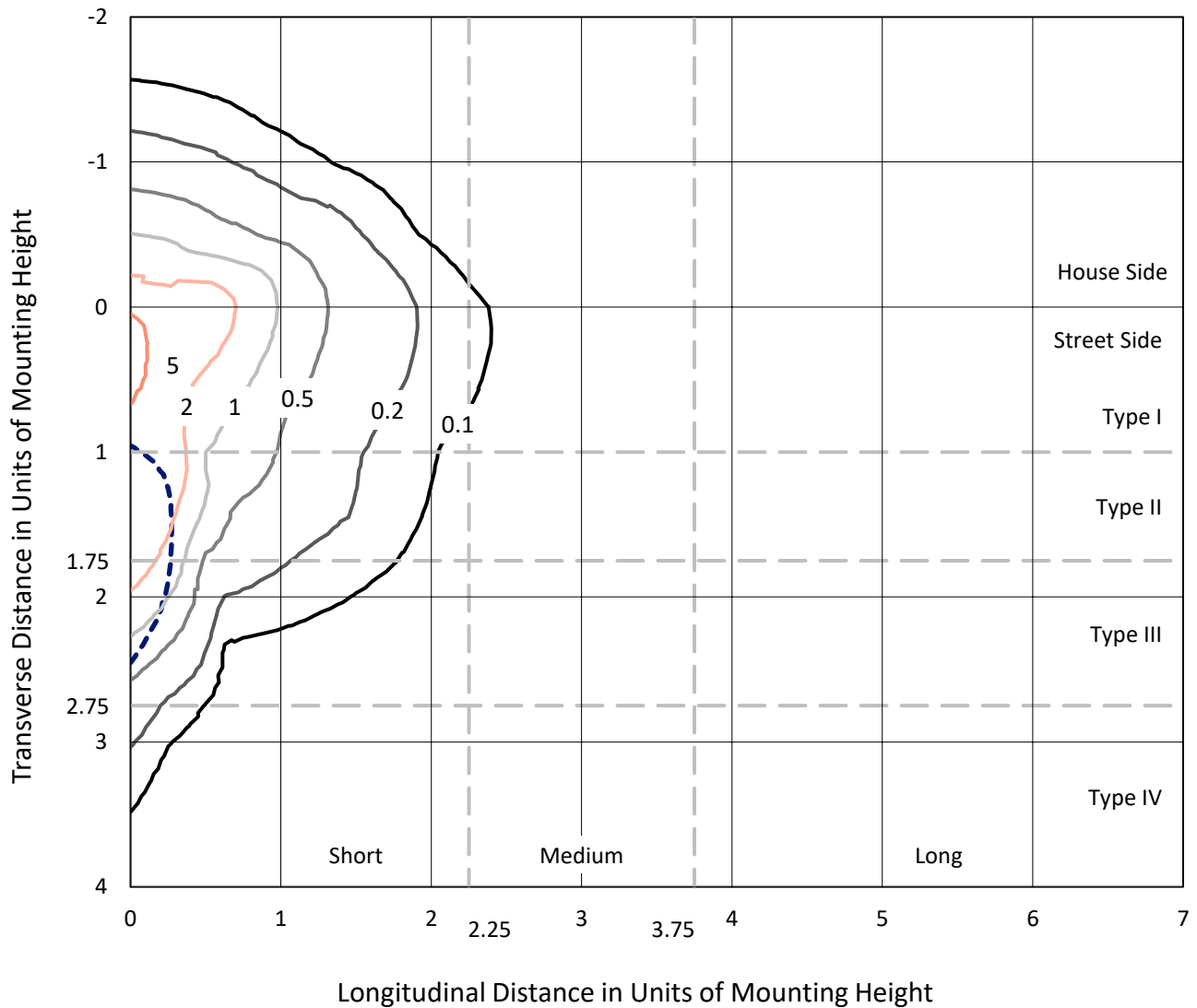
Lumens per Lamp: N/A  
Luminaire Lumens: 20060 lumens  
Efficiency: N/A  
Efficacy: 88.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

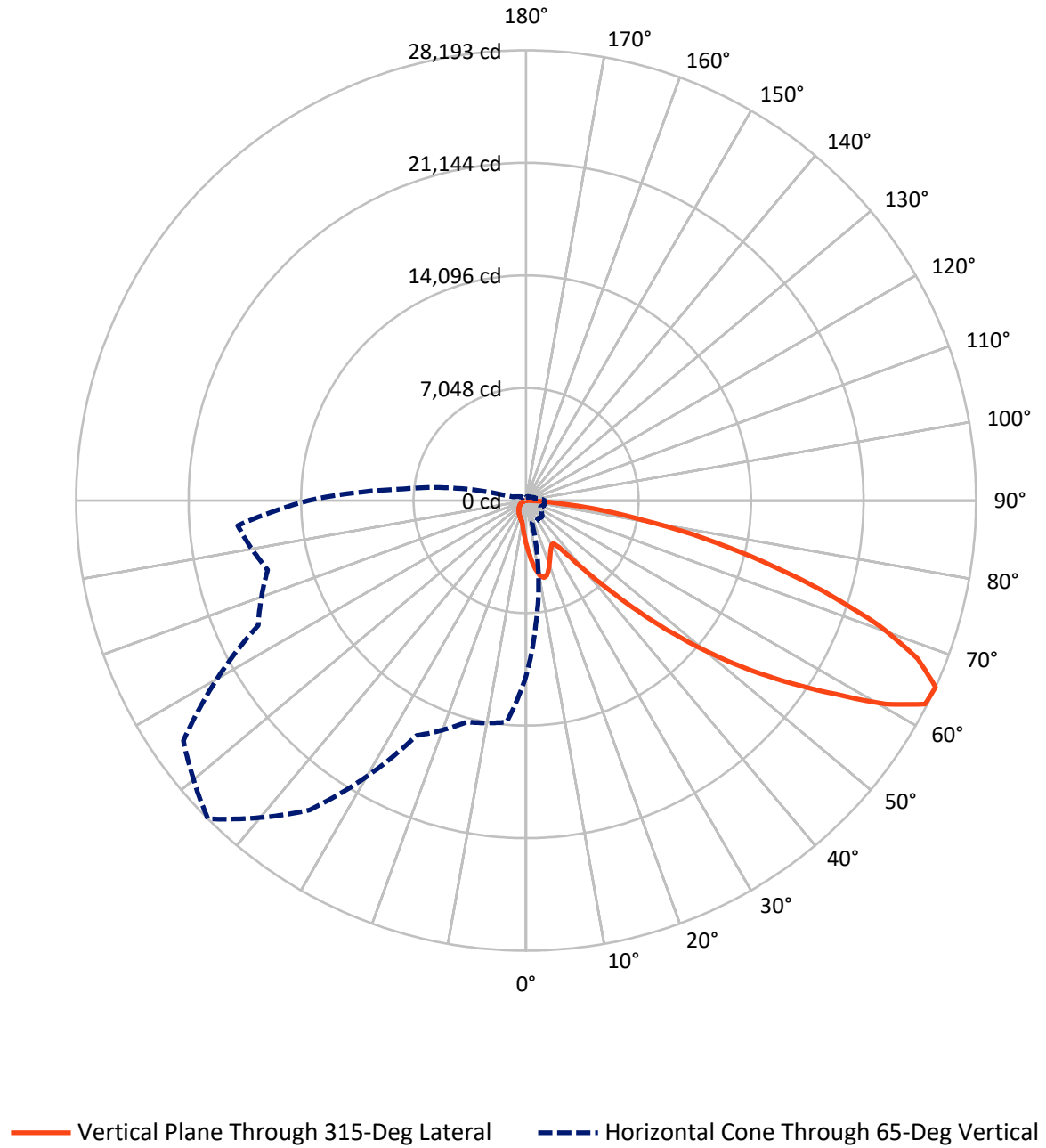
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2809.3	0.0	2809.3
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	17250.7	0.0	17250.7
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	20060.0	0.0	20060.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	273.5	1.4
10°-20°	819.8	4.1
20°-30°	1207.7	6.0
30°-40°	1551.6	7.7
40°-50°	2509.4	12.5
50°-60°	4400.4	21.9
60°-70°	5506.1	27.4
70°-80°	3217.5	16.0
80°-90°	574.1	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°	20060.0	100.0
0°-180°	20060.0	100.0

**Coefficient of Utilization**



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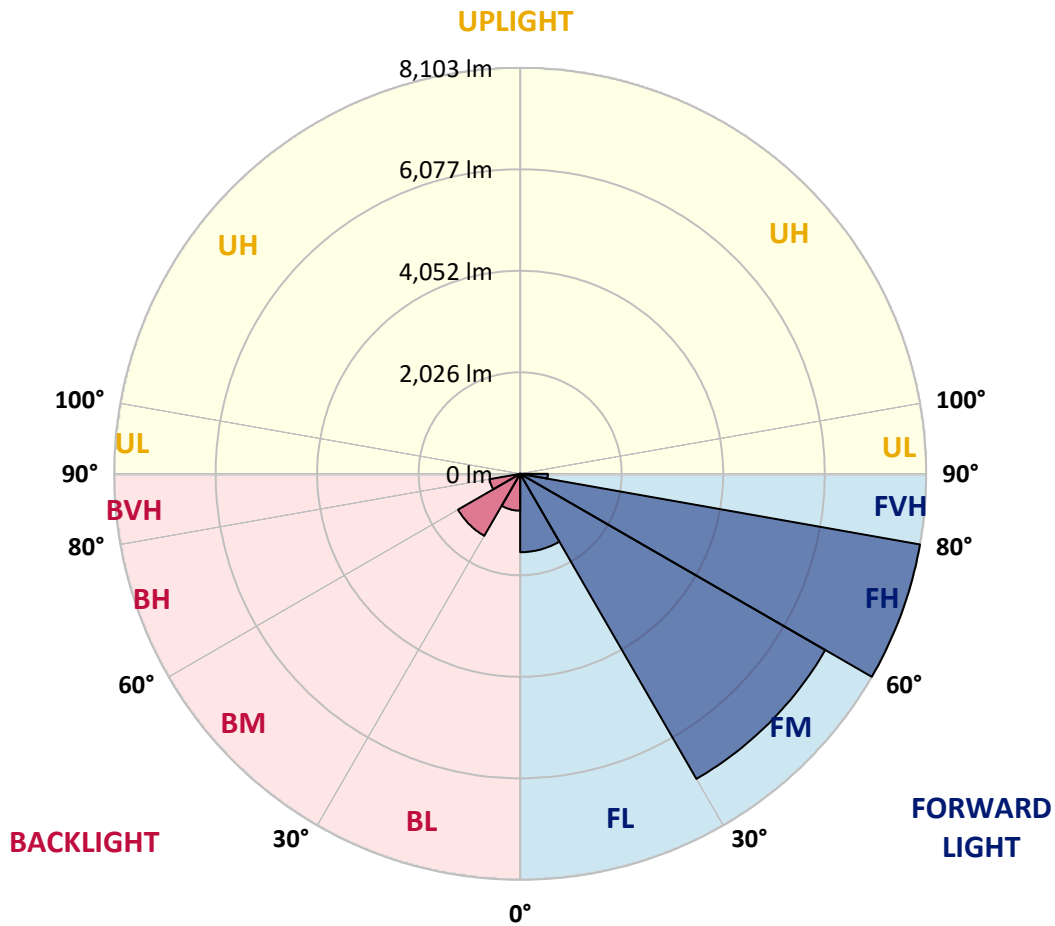
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1564.6	7.8			
FM (30°-60°)	7030.8	35.0			
FH (60°-80°)	8103.3	40.4			G4/12000
FVH (80°-90°)	552.0	2.8			G4/750
BL (0°-30°)	736.4	3.7	B2/1000		
BM (30°-60°)	1430.5	7.1	B2/2500		
BH (60°-80°)	620.3	3.1	B2/1000		G2/1000
BVH (80°-90°)	22.1	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-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2777.7	2777.7	2777.7	2777.7	2777.7	2777.7	2777.7	2777.7	2777.7	2777.7
2.5°	3138.4	3084.5	3052.7	2973.9	2895.1	2831.6	2745.9	2689.2	2621.5	2556.6
5°	3497.7	3410.6	3305.6	3161.8	3030.6	2896.5	2766.6	2638.1	2502.7	2378.3
7.5°	3801.7	3675.9	3490.7	3300.0	3132.8	2971.1	2819.1	2649.1	2484.7	2289.8
10°	4033.8	3873.5	3630.3	3380.2	3188.1	3025.0	2877.2	2733.4	2567.6	2332.7
12.5°	4174.8	4003.4	3714.6	3421.6	3201.9	3019.5	2904.8	2841.2	2776.3	2542.7
15°	4278.4	4093.3	3774.0	3450.7	3170.1	2946.3	2862.0	2925.5	3000.2	2850.9
17.5°	4386.2	4191.4	3851.4	3463.1	3084.5	2803.9	2768.0	2932.4	3105.2	3098.3
20°	4488.5	4295.0	3919.1	3454.8	2946.3	2631.2	2663.0	2873.0	3073.4	3157.7
22.5°	4606.0	4401.4	3984.1	3423.0	2766.6	2469.5	2569.0	2779.1	2954.6	3054.1
25°	4749.7	4535.5	4075.3	3376.0	2573.1	2335.5	2473.6	2669.9	2812.2	2881.3
27.5°	4904.4	4695.8	4196.9	3351.2	2417.0	2240.1	2365.9	2540.0	2667.1	2715.5
30°	5096.5	4882.3	4340.6	3323.5	2314.7	2184.8	2253.9	2389.3	2513.7	2562.1
32.5°	5306.6	5089.6	4478.8	3257.2	2252.5	2143.4	2144.7	2230.4	2343.7	2401.8
35°	5569.2	5338.4	4626.7	3112.1	2202.8	2095.0	2038.3	2079.8	2173.8	2242.9
37.5°	5943.7	5664.5	4807.7	2904.8	2129.5	2020.4	1926.4	1936.1	2007.9	2083.9
40°	6460.5	6102.6	5020.5	2689.2	2024.5	1915.3	1803.4	1799.3	1851.8	1926.4
42.5°	7159.8	6681.6	5276.2	2483.3	1923.6	1788.2	1673.5	1666.6	1708.1	1773.0
45°	8082.9	7422.3	5589.9	2306.4	1844.9	1663.8	1550.5	1547.8	1582.3	1639.0
47.5°	9264.4	8451.8	5903.6	2186.2	1803.4	1565.7	1449.6	1455.2	1485.6	1536.7
50°	10794.2	9793.7	5998.9	2125.4	1803.4	1513.2	1359.8	1387.5	1412.3	1451.0
52.5°	12628.0	11081.7	5683.9	2070.1	1814.5	1520.1	1283.8	1343.2	1361.2	1394.4
55°	14327.8	11713.2	4886.5	1994.1	1817.2	1563.0	1218.9	1307.3	1340.5	1352.9
57.5°	15314.5	11496.2	3950.9	1865.6	1806.2	1592.0	1177.4	1263.1	1326.6	1334.9
60°	15126.5	10734.8	2909.0	1767.5	1724.6	1580.9	1165.0	1195.4	1296.2	1308.7
62.5°	13678.3	9457.9	2019.0	1691.5	1545.0	1532.6	1160.8	1089.0	1229.9	1260.3
65°	10994.6	7445.8	1426.1	1456.5	1354.3	1427.5	1138.7	978.4	1149.8	1191.2
67.5°	7976.5	5038.5	1029.5	1180.2	1227.1	1257.6	1089.0	898.3	1058.6	1113.8
70°	5118.6	2721.0	722.7	779.4	1033.7	1068.2	1003.3	826.4	966.0	1029.5
72.5°	3638.6	1607.2	519.6	545.9	830.5	890.0	883.0	746.2	858.2	935.6
75°	2511.0	885.8	351.0	389.7	602.5	722.7	681.3	641.2	726.9	805.7
77.5°	1574.0	396.6	210.1	270.9	395.2	568.0	467.1	496.1	566.6	639.8
80°	876.1	153.4	117.5	179.7	215.6	413.2	258.4	319.2	417.3	469.9
82.5°	190.7	19.3	52.5	77.4	84.3	240.5	136.8	185.2	262.6	258.4
85°	0.0	0.0	9.7	11.1	5.5	103.6	49.7	60.8	85.7	80.2
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°
2777.7	0°	2777.7	2777.7	2777.7	2777.7	2777.7	2777.7	2777.7	2777.7	2777.7	2777.7
2498.5	2.5°	2487.5	2419.7	2370.0	2345.1	2324.4	2343.7	2354.8	2354.8	2401.8	2429.4
2302.3	5°	2253.9	2132.3	2039.7	1977.5	1940.2	1952.7	1966.5	1981.7	2041.1	2081.2
2186.2	7.5°	2092.2	1905.7	1764.7	1677.7	1632.1	1639.0	1648.6	1661.1	1719.1	1759.2
2202.8	10°	2061.8	1793.7	1594.7	1480.0	1424.8	1415.1	1409.6	1405.4	1440.0	1470.4
2390.7	12.5°	2186.2	1799.3	1521.5	1381.9	1314.2	1285.2	1252.0	1225.8	1231.3	1250.6
2675.4	15°	2408.7	1869.7	1498.0	1330.8	1246.5	1198.1	1159.4	1127.7	1120.7	1127.7
2924.2	17.5°	2663.0	1965.1	1495.2	1286.6	1181.5	1131.8	1100.0	1071.0	1061.3	1062.7
3063.7	20°	2831.6	2041.1	1487.0	1236.8	1119.4	1075.1	1047.5	1018.5	1008.8	1011.6
3025.0	22.5°	2848.1	2081.2	1474.5	1181.5	1057.2	1019.9	992.2	966.0	964.6	964.6
2879.9	25°	2758.3	2081.2	1448.3	1131.8	997.7	964.6	939.7	907.9	913.5	916.2
2715.5	27.5°	2618.7	2031.4	1398.5	1091.7	946.6	912.1	887.2	858.2	865.1	869.2
2562.1	30°	2480.6	1967.9	1339.1	1046.1	898.3	858.2	840.2	815.3	818.1	823.6
2410.1	32.5°	2352.0	1900.1	1268.6	1008.8	849.9	809.8	796.0	768.3	772.5	778.0
2260.8	35°	2224.9	1825.5	1185.7	964.6	805.7	765.6	754.5	722.7	725.5	733.8
2111.6	37.5°	2088.1	1746.8	1118.0	920.4	762.8	721.4	710.3	677.1	679.9	689.6
1956.8	40°	1944.4	1669.4	1051.6	873.4	717.2	675.8	666.1	630.2	632.9	644.0
1804.8	42.5°	1799.3	1585.1	1000.5	812.6	670.2	626.0	616.3	583.2	587.3	599.8
1672.1	45°	1665.2	1484.2	967.3	744.9	626.0	576.3	566.6	536.2	544.5	558.3
1560.2	47.5°	1550.5	1380.5	953.5	688.2	579.0	525.1	516.8	492.0	505.8	521.0
1464.8	50°	1452.4	1281.0	935.6	630.2	534.8	480.9	472.6	456.0	474.0	489.2
1399.9	52.5°	1381.9	1167.7	896.9	577.6	496.1	443.6	440.8	432.5	449.1	462.9
1351.5	55°	1321.1	1050.3	834.7	532.0	461.6	411.8	414.6	410.4	424.3	435.3
1322.5	57.5°	1265.8	948.0	755.9	496.1	424.3	384.2	392.5	386.9	393.8	400.8
1292.1	60°	1199.5	844.4	661.9	456.0	380.0	356.5	366.2	351.0	349.6	352.4
1236.8	62.5°	1101.4	704.8	563.8	406.3	341.3	326.1	330.3	301.3	279.1	279.1
1155.3	65°	964.6	566.6	472.6	351.0	297.1	284.7	281.9	240.5	210.1	207.3
1066.8	67.5°	805.7	465.7	392.5	295.7	247.4	239.1	241.8	211.4	181.0	178.3
978.4	70°	656.4	385.6	316.5	236.3	190.7	199.0	211.4	181.0	152.0	147.9
874.8	72.5°	533.4	306.8	247.4	181.0	141.0	164.4	179.7	147.9	120.2	117.5
746.2	75°	411.8	225.3	176.9	123.0	102.3	127.1	141.0	107.8	85.7	81.5
577.6	77.5°	275.0	139.6	99.5	77.4	60.8	87.1	94.0	56.7	49.7	48.4
420.1	80°	167.2	65.0	42.8	37.3	20.7	31.8	37.3	23.5	26.3	27.6
223.9	82.5°	84.3	18.0	6.9	1.4	0.0	0.0	11.1	5.5	11.1	13.8
60.8	85°	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	6.9
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°
2777.7	0°	2777.7	2777.7	2777.7	2777.7	2777.7	2777.7	2777.7	2777.7	2777.7	2777.7
2440.5	2.5°	2517.9	2575.9	2631.2	2719.6	2810.8	2900.7	2991.9	3080.3	3112.1	3135.6
2107.4	5°	2227.7	2336.8	2464.0	2639.5	2827.4	3020.9	3217.1	3396.8	3478.3	3533.6
1793.7	7.5°	1927.8	2070.1	2252.5	2516.5	2810.8	3119.0	3427.2	3710.5	3841.7	3948.2
1498.0	10°	1630.7	1785.4	2016.2	2317.5	2715.5	3157.7	3583.3	3973.0	4143.0	4277.1
1285.2	12.5°	1369.5	1514.6	1756.4	2089.5	2566.2	3127.3	3673.2	4141.6	4342.0	4492.6
1133.2	15°	1185.7	1288.0	1502.2	1861.5	2389.3	3029.2	3678.7	4221.8	4441.5	4599.0
1069.6	17.5°	1083.4	1118.0	1257.6	1629.3	2193.1	2900.7	3627.6	4249.4	4484.3	4630.8
1013.0	20°	1028.2	1033.7	1072.4	1328.0	1941.6	2780.4	3579.2	4277.1	4524.4	4647.4
972.9	22.5°	983.9	983.9	993.6	1086.2	1616.9	2636.7	3564.0	4325.4	4579.7	4655.7
927.3	25°	943.9	943.9	946.6	971.5	1281.0	2417.0	3554.3	4400.0	4655.7	4676.4
881.7	27.5°	902.4	903.8	903.8	917.6	1032.3	2118.5	3512.9	4496.8	4746.9	4704.1
837.4	30°	860.9	863.7	863.7	873.4	913.5	1768.9	3431.3	4612.9	4865.8	4740.0
793.2	32.5°	819.5	822.2	822.2	830.5	859.6	1412.3	3329.1	4719.3	4986.0	4755.2
750.4	35°	776.6	780.8	778.0	789.1	819.5	1123.5	3199.2	4825.7	5115.9	4803.6
708.9	37.5°	733.8	736.6	735.2	746.2	780.8	970.1	3048.5	4905.8	5292.8	4911.4
664.7	40°	691.0	689.6	689.6	702.0	739.3	925.9	2859.2	5033.0	5547.0	5100.7
620.5	42.5°	646.7	646.7	644.0	657.8	703.4	892.7	2678.2	5261.0	5917.4	5401.9
579.0	45°	606.7	605.3	599.8	612.2	668.9	834.7	2614.6	5686.6	6464.6	5889.8
537.6	47.5°	568.0	566.6	552.8	563.8	627.4	782.2	2852.3	6383.1	7223.3	6607.0
504.4	50°	533.4	534.8	508.5	518.2	585.9	742.1	3367.7	7286.9	8230.7	7572.9
476.8	52.5°	501.6	501.6	467.1	472.6	534.8	706.2	3858.3	8266.7	9560.2	8920.3
447.7	55°	469.9	467.1	428.4	431.2	483.7	655.0	3931.6	9223.0	11373.2	10947.6
416.0	57.5°	433.9	428.4	392.5	392.5	436.7	617.7	3407.8	9958.1	13623.0	13927.0
356.5	60°	389.7	385.6	362.1	355.2	399.4	650.9	2404.5	10043.8	15074.0	17889.0
283.3	62.5°	333.0	338.6	326.1	316.5	363.4	675.8	1424.8	9354.2	14723.0	19149.3
219.7	65°	262.6	284.7	281.9	275.0	399.4	569.4	841.6	8030.4	13646.5	18132.2
192.1	67.5°	223.9	239.1	234.9	234.9	418.7	432.5	529.3	6273.9	12165.1	16925.8
160.3	70°	190.7	205.9	190.7	190.7	316.5	262.6	366.2	4380.7	10566.2	15590.9
128.5	72.5°	157.5	172.7	156.2	145.1	252.9	196.2	268.1	2737.6	9048.8	14200.7
91.2	75°	120.2	138.2	125.8	111.9	167.2	146.5	203.1	1590.6	7496.9	12149.9
55.3	77.5°	76.0	99.5	94.0	78.8	123.0	106.4	146.5	946.6	5784.7	9493.8
33.2	80°	47.0	51.1	52.5	49.7	70.5	71.9	99.5	539.0	3959.2	6616.7
20.7	82.5°	30.4	30.4	23.5	26.3	34.5	41.5	56.7	203.1	2327.2	4028.3
12.4	85°	22.1	19.3	12.4	12.4	16.6	20.7	22.1	62.2	943.9	1590.6
5.5	87.5°	11.1	9.7	4.1	5.5	8.3	6.9	5.5	2.8	237.7	508.5
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°
2777.7	0°	2777.7	2777.7	2777.7	2777.7	2777.7	2777.7	2777.7	2777.7
3188.1	2.5°	3215.7	3258.6	3261.3	3261.3	3224.0	3222.6	3146.6	3138.4
3658.0	5°	3786.5	3814.1	3821.0	3807.2	3732.6	3677.3	3529.4	3497.7
4137.5	7.5°	4308.8	4364.1	4364.1	4331.0	4209.3	4096.0	3881.8	3801.7
4534.1	10°	4726.2	4789.8	4775.9	4708.2	4554.8	4398.7	4138.9	4033.8
4774.5	12.5°	4929.3	4994.3	4958.3	4881.0	4731.7	4567.3	4293.6	4174.8
4843.6	15°	4925.2	4907.2	4869.9	4860.2	4788.4	4664.0	4408.3	4278.4
4800.8	17.5°	4749.7	4597.7	4568.6	4665.4	4756.6	4726.2	4507.8	4386.2
4698.5	20°	4471.9	4206.6	4180.3	4365.5	4625.3	4758.0	4600.4	4488.5
4550.7	22.5°	4178.9	3892.9	3832.1	4036.6	4427.7	4767.6	4717.9	4606.0
4387.6	25°	3901.2	3613.7	3552.9	3743.6	4208.0	4751.1	4845.0	4749.7
4231.5	27.5°	3669.0	3391.2	3334.6	3525.3	3996.5	4704.1	4972.2	4904.4
4076.7	30°	3489.4	3232.3	3190.9	3374.7	3814.1	4646.0	5133.8	5096.5
3933.0	32.5°	3384.3	3196.4	3211.6	3362.2	3716.0	4582.5	5288.6	5306.6
3862.5	35°	3488.0	3496.3	3628.9	3691.1	3807.2	4572.8	5498.7	5569.2
3946.8	37.5°	4003.4	4290.9	4565.9	4514.7	4253.6	4684.7	5812.4	5943.7
4314.4	40°	4881.0	5471.0	5917.4	5722.5	5064.8	5027.4	6264.3	6460.5
4966.6	42.5°	5953.3	6953.8	7689.0	7166.7	6110.9	5627.2	6909.6	7159.8
5755.7	45°	7085.1	8782.1	9940.2	8854.0	7226.1	6467.4	7886.6	8082.9
6495.0	47.5°	8277.7	11004.3	12502.3	10725.1	8259.8	7423.7	9218.8	9264.4
7195.7	50°	9582.3	13440.6	15114.1	12594.9	9257.5	8519.6	10846.7	10794.2
8012.4	52.5°	10824.6	15946.0	17670.7	14472.9	10133.7	9879.4	12735.8	12628.0
9129.0	55°	12010.3	18450.1	20242.4	16277.7	10960.0	11675.9	14980.1	14327.8
10738.9	57.5°	13385.3	20701.2	22893.0	18090.8	12115.3	14008.6	17489.6	15314.5
13822.0	60°	15418.1	23259.2	25890.4	20575.5	14312.6	16460.1	18389.3	15126.5
17514.5	62.5°	18013.4	25611.2	28069.6	23010.4	16519.5	16921.7	17064.0	13678.3
16761.4	65°	18517.8	26206.8	28192.6	23661.3	16234.8	14354.0	13931.2	10994.6
14971.8	67.5°	17180.1	25130.3	26473.5	22449.4	14361.0	11092.7	10454.3	7976.5
13797.1	70°	15679.3	23078.1	23477.5	20388.9	12630.8	8158.9	7060.3	5118.6
12992.9	72.5°	14141.2	20340.5	19514.2	17706.6	11101.0	5940.9	5092.4	3638.6
11847.2	75°	12314.3	16740.6	15371.1	14712.0	9191.2	4662.6	3684.2	2511.0
10190.3	77.5°	9861.4	11783.7	11417.5	11403.6	6906.9	3406.4	2458.4	1574.0
7961.3	80°	6956.6	7647.6	7461.0	8588.7	4633.6	2470.9	1480.0	876.1
5541.5	82.5°	3367.7	4228.7	4340.6	5114.5	2253.9	1453.8	341.3	190.7
2166.9	85°	1318.4	2039.7	1720.5	1941.6	632.9	404.9	8.3	0.0
356.5	87.5°	147.9	236.3	217.0	171.4	77.4	16.6	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)