

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: P950509

Luminaire Tested: **GALN-SB4D-940-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950509  
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-940-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

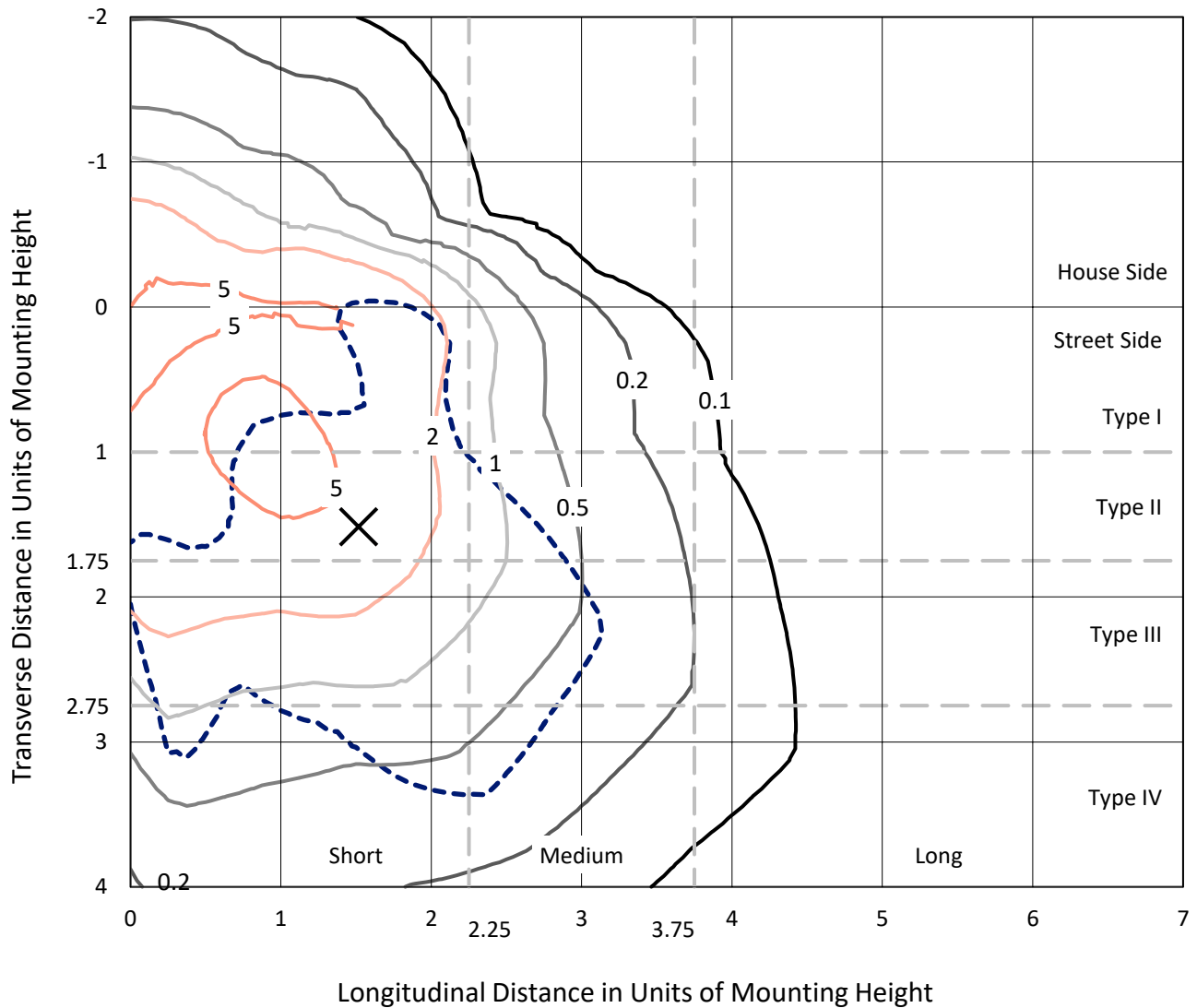
Lumens per Lamp: N/A  
Luminaire Lumens: 22555 lumens  
Efficiency: N/A  
Efficacy: 76.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

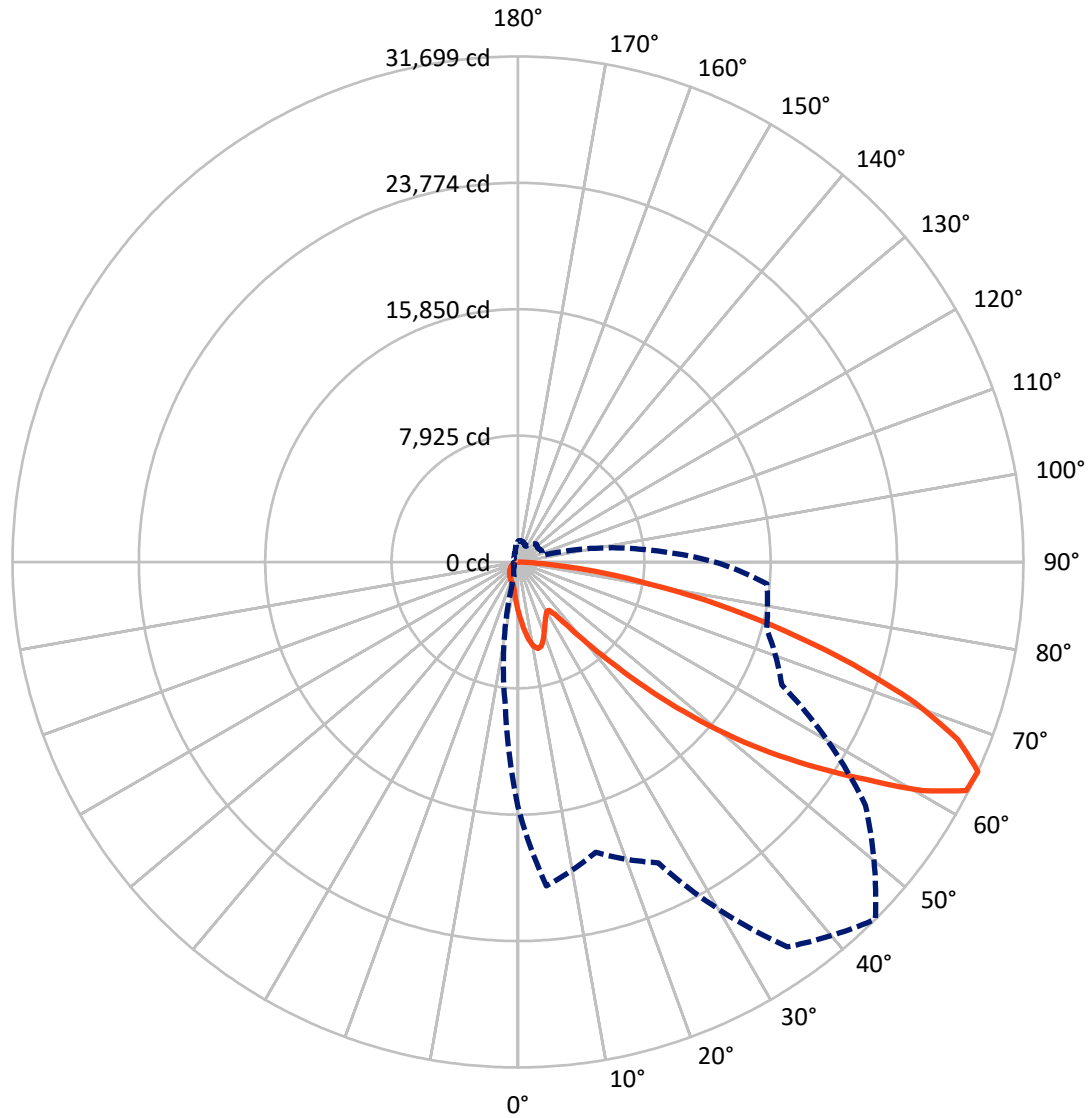
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	4483.2	0.0	4483.2
	% Fixture	19.9	0.0	19.9
<b>Street Side</b>	Lumens	18071.8	0.0	18071.8
	% Fixture	80.1	0.0	80.1
<b>Total</b>	Lumens	22555.0	0.0	22555.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	307.5	1.4
10°-20°	921.7	4.1
20°-30°	1357.9	6.0
30°-40°	1744.6	7.7
40°-50°	2821.5	12.5
50°-60°	4947.7	21.9
60°-70°	6190.9	27.4
70°-80°	3617.7	16.0
80°-90°	645.5	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°	22555.0	100.0
0°-180°	22555.0	100.0

**Coefficient of Utilization**

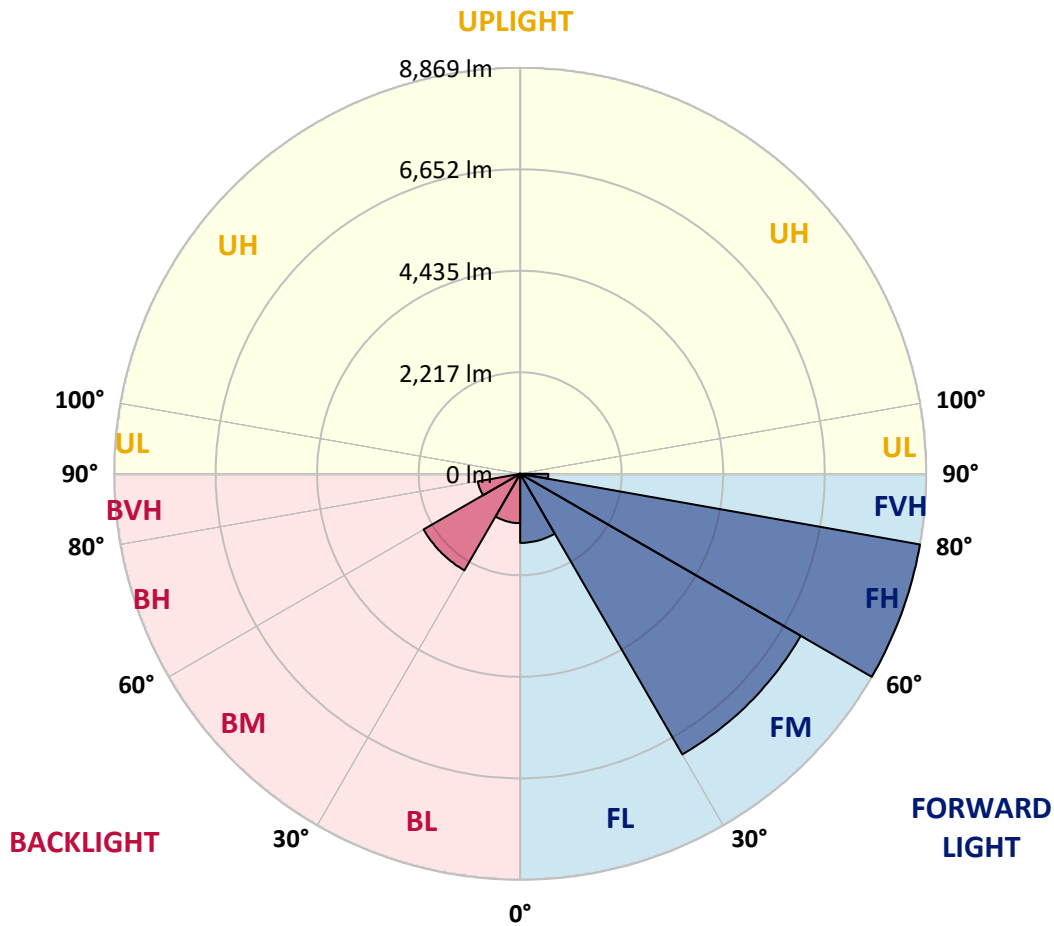


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1509.2	6.7			
FM (30°-60°)	7078.0	31.4			
FH (60°-80°)	8869.3	39.3			G4/12000
FVH (80°-90°)	615.2	2.7			G4/750
BL (0°-30°)	1078.0	4.8	B3/2500		
BM (30°-60°)	2435.7	10.8	B2/2500		
BH (60°-80°)	939.3	4.2	B2/1000		G2/1000
BVH (80°-90°)	30.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1
2.5°	3499.2	3525.6	3584.6	3615.7	3663.9	3667.0	3667.0	3625.0	3623.5	3538.0
5°	3910.9	3973.1	4112.9	4257.4	4288.5	4296.3	4280.7	4196.8	4134.7	3968.4
7.5°	4319.6	4439.2	4652.1	4844.8	4906.9	4906.9	4869.6	4732.9	4605.5	4364.6
10°	4658.3	4809.0	5098.0	5314.0	5385.5	5369.9	5293.8	5121.3	4945.8	4653.6
12.5°	4882.1	5051.4	5368.4	5542.4	5615.4	5575.0	5488.0	5320.2	5135.3	4827.7
15°	4993.9	5171.1	5446.1	5537.8	5517.6	5475.6	5464.7	5383.9	5244.1	4956.6
17.5°	5042.1	5206.8	5397.9	5340.4	5169.5	5136.9	5245.6	5348.2	5314.0	5068.5
20°	5087.2	5225.4	5282.9	5028.1	4729.8	4700.3	4908.5	5200.6	5349.7	5172.6
22.5°	5149.3	5234.8	5116.7	4698.7	4377.1	4308.7	4538.7	4978.4	5360.6	5304.7
25°	5234.8	5258.1	4933.3	4386.4	4063.2	3994.8	4209.3	4731.3	5342.0	5447.6
27.5°	5337.3	5289.1	4757.7	4125.3	3813.0	3749.3	3963.8	4493.6	5289.1	5590.6
30°	5470.9	5329.5	4583.7	3923.4	3634.3	3587.7	3794.4	4288.5	5223.9	5772.4
32.5°	5606.1	5346.6	4422.1	3805.3	3593.9	3611.0	3780.4	4178.2	5152.4	5946.4
35°	5752.2	5401.0	4342.9	3921.8	3931.1	4080.3	4150.2	4280.7	5141.5	6182.6
37.5°	5951.1	5522.2	4437.7	4501.4	4824.6	5133.8	5076.3	4782.6	5267.4	6535.3
40°	6237.0	5735.1	4851.0	5488.0	6151.5	6653.4	6434.3	5694.7	5652.7	7043.4
42.5°	6653.4	6073.8	5584.4	6693.8	7818.7	8645.4	8058.0	6870.9	6327.1	7769.0
45°	7268.7	6622.3	6471.6	7966.4	9874.4	11176.5	9955.2	8124.8	7271.8	8867.6
47.5°	8121.7	7428.7	7302.9	9307.3	12372.9	14057.3	12059.1	9287.1	8347.0	10365.4
50°	9254.5	8514.8	8090.7	10774.1	15112.3	16994.0	14161.4	10408.9	9579.2	12195.8
52.5°	10749.2	10029.8	9009.0	12170.9	17929.3	19868.5	16273.0	11394.0	11108.1	14319.9
55°	12787.8	12309.2	10264.4	13504.1	20744.8	22760.1	18302.3	12323.2	13128.1	16843.2
57.5°	15317.4	15659.2	12074.6	15050.1	23276.0	25740.3	20340.8	13622.2	15750.9	19664.9
60°	16948.9	20114.0	15541.1	17335.8	26152.1	29110.5	23134.6	16092.7	18507.4	20676.5
62.5°	16554.2	21531.1	19692.9	20253.8	28796.6	31560.9	25872.4	18574.2	19026.3	19186.4
65°	15343.8	20387.5	18846.1	20821.0	29466.3	31699.2	26604.2	18254.1	16139.4	15663.9
67.5°	13678.1	19031.0	16833.9	19316.9	28255.9	29766.2	25241.5	16147.1	12472.4	11754.5
70°	11880.4	17530.0	15513.2	17629.5	25948.5	26397.6	22924.8	14201.8	9173.7	7938.4
72.5°	10174.3	15966.9	14608.9	15900.1	22870.4	21941.3	19908.9	12481.7	6679.8	5725.8
75°	8429.4	13661.0	13320.8	13845.9	18822.8	17283.0	16541.8	10334.3	5242.5	4142.4
77.5°	6504.2	10674.6	11457.7	11087.9	13249.3	12837.5	12822.0	7765.9	3830.1	2764.2
80°	4451.6	7439.6	8951.5	7821.8	8598.8	8389.0	9656.9	5209.9	2778.2	1664.1
82.5°	2616.6	4529.3	6230.8	3786.6	4754.6	4880.5	5750.6	2534.3	1634.6	383.8
85°	1061.2	1788.4	2436.4	1482.3	2293.4	1934.5	2183.1	711.6	455.3	9.3
87.5°	267.3	571.8	400.9	166.3	265.7	243.9	192.7	87.0	18.6	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):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
3123.1	0°	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1
3528.7	2.5°	3468.1	3432.4	3343.8	3255.2	3183.7	3087.4	3023.7	2947.6	2874.5	2809.3
3932.7	5°	3834.8	3716.7	3555.1	3407.5	3256.8	3110.7	2966.2	2813.9	2674.1	2588.6
4274.5	7.5°	4133.1	3924.9	3710.5	3522.5	3340.7	3169.8	2978.6	2793.7	2574.7	2458.1
4535.6	10°	4355.3	4081.8	3800.6	3584.6	3401.3	3235.0	3073.4	2887.0	2622.8	2476.8
4694.0	12.5°	4501.4	4176.6	3847.2	3600.2	3395.1	3266.1	3194.6	3121.6	2859.0	2688.1
4810.6	15°	4602.4	4243.4	3879.8	3564.4	3312.7	3217.9	3289.4	3373.3	3205.5	3008.2
4931.8	17.5°	4712.7	4330.5	3893.8	3468.1	3152.7	3112.3	3297.2	3491.4	3483.6	3287.8
5046.8	20°	4829.2	4406.6	3884.5	3312.7	2958.4	2994.2	3230.4	3455.7	3550.4	3444.8
5178.8	22.5°	4948.9	4479.6	3848.8	3110.7	2776.6	2888.5	3124.7	3322.0	3433.9	3401.3
5340.4	25°	5099.6	4582.2	3795.9	2893.2	2625.9	2781.3	3001.9	3162.0	3239.7	3238.1
5514.4	27.5°	5279.8	4718.9	3768.0	2717.6	2518.7	2660.1	2855.9	2998.8	3053.2	3053.2
5730.4	30°	5489.6	4880.5	3736.9	2602.6	2456.6	2534.3	2686.5	2826.4	2880.8	2880.8
5966.6	32.5°	5722.7	5035.9	3662.3	2532.7	2409.9	2411.5	2507.8	2635.3	2700.5	2709.8
6261.8	35°	6002.3	5202.1	3499.2	2476.8	2355.6	2291.9	2338.5	2444.1	2521.8	2542.0
6682.9	37.5°	6369.0	5405.7	3266.1	2394.4	2271.7	2166.0	2176.9	2257.7	2343.1	2374.2
7264.0	40°	6861.6	5645.0	3023.7	2276.3	2153.6	2027.7	2023.1	2082.1	2166.0	2200.2
8050.3	42.5°	7512.6	5932.4	2792.2	2162.9	2010.6	1881.7	1873.9	1920.5	1993.5	2029.3
9088.2	45°	8345.5	6285.1	2593.3	2074.3	1870.8	1743.4	1740.3	1779.1	1842.8	1880.1
10416.7	47.5°	9503.1	6637.9	2458.1	2027.7	1760.5	1629.9	1636.2	1670.3	1727.8	1754.2
12136.8	50°	11011.8	6745.1	2389.8	2027.7	1701.4	1528.9	1560.0	1588.0	1631.5	1647.0
14198.7	52.5°	12460.0	6390.8	2327.6	2040.1	1709.2	1443.5	1510.3	1530.5	1567.8	1574.0
16109.8	55°	13170.0	5494.3	2242.1	2043.3	1757.4	1370.5	1469.9	1507.2	1521.2	1519.6
17219.3	57.5°	12926.1	4442.3	2097.6	2030.8	1790.0	1323.8	1420.2	1491.7	1501.0	1487.0
17007.9	60°	12069.9	3270.8	1987.3	1939.1	1777.6	1309.9	1344.0	1457.5	1471.5	1452.8
15379.6	62.5°	10634.2	2270.1	1901.9	1737.2	1723.2	1305.2	1224.4	1382.9	1417.1	1390.7
12362.1	65°	8371.9	1603.5	1637.7	1522.7	1605.1	1280.3	1100.1	1292.8	1339.4	1299.0
8968.6	67.5°	5665.2	1157.6	1326.9	1379.8	1414.0	1224.4	1010.0	1190.2	1252.4	1199.5
5755.3	70°	3059.4	812.6	876.3	1162.2	1201.1	1128.1	929.2	1086.1	1157.6	1100.1
4091.2	72.5°	1807.1	584.2	613.8	933.8	1000.6	992.9	839.1	964.9	1051.9	983.6
2823.3	75°	996.0	394.7	438.2	677.5	812.6	766.0	721.0	817.3	905.9	839.1
1769.8	77.5°	445.9	236.2	304.5	444.4	638.6	525.2	557.8	637.1	719.4	649.5
985.1	80°	172.5	132.1	202.0	242.4	464.6	290.6	358.9	469.2	528.3	472.4
214.4	82.5°	21.8	59.0	87.0	94.8	270.4	153.8	208.2	295.2	290.6	251.7
0.0	85°	0.0	10.9	12.4	6.2	116.5	55.9	68.4	96.3	90.1	68.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	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°
3123.1	0°	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1
2796.8	2.5°	2720.7	2664.8	2636.8	2613.5	2635.3	2647.7	2647.7	2700.5	2731.6	2744.0
2534.3	5°	2397.5	2293.4	2223.5	2181.5	2195.5	2211.1	2228.2	2295.0	2340.0	2369.6
2352.5	7.5°	2142.7	1984.2	1886.3	1835.0	1842.8	1853.7	1867.7	1932.9	1978.0	2016.8
2318.3	10°	2016.8	1793.1	1664.1	1602.0	1591.1	1584.9	1580.2	1619.1	1653.2	1684.3
2458.1	12.5°	2023.1	1710.7	1553.8	1477.7	1445.0	1407.7	1378.2	1384.4	1406.2	1445.0
2708.3	15°	2102.3	1684.3	1496.3	1401.5	1347.1	1303.6	1267.9	1260.1	1267.9	1274.1
2994.2	17.5°	2209.5	1681.2	1446.6	1328.5	1272.6	1236.8	1204.2	1193.3	1194.9	1202.6
3183.7	20°	2295.0	1671.9	1390.7	1258.6	1208.9	1177.8	1145.2	1134.3	1137.4	1138.9
3202.4	22.5°	2340.0	1657.9	1328.5	1188.7	1146.7	1115.6	1086.1	1084.6	1084.6	1093.9
3101.4	25°	2340.0	1628.4	1272.6	1121.8	1084.6	1056.6	1020.8	1027.1	1030.2	1042.6
2944.5	27.5°	2284.1	1572.4	1227.5	1064.4	1025.5	997.5	964.9	972.7	977.3	991.3
2789.1	30°	2212.6	1505.6	1176.2	1010.0	964.9	944.7	916.7	919.9	926.1	941.6
2644.6	32.5°	2136.5	1426.4	1134.3	955.6	910.5	895.0	863.9	868.6	874.8	891.9
2501.6	35°	2052.6	1333.2	1084.6	905.9	860.8	848.4	812.6	815.7	825.1	843.7
2347.8	37.5°	1964.0	1257.0	1034.8	857.7	811.1	798.7	761.4	764.5	775.3	797.1
2186.2	40°	1877.0	1182.4	982.0	806.4	759.8	748.9	708.5	711.6	724.1	747.4
2023.1	42.5°	1782.2	1125.0	913.6	753.6	703.9	693.0	655.7	660.4	674.4	697.7
1872.3	45°	1668.8	1087.7	837.5	703.9	647.9	637.1	602.9	612.2	627.7	651.0
1743.4	47.5°	1552.3	1072.1	773.8	651.0	590.4	581.1	553.2	568.7	585.8	604.4
1633.0	50°	1440.4	1051.9	708.5	601.3	540.7	531.4	512.8	533.0	550.0	567.1
1553.8	52.5°	1313.0	1008.4	649.5	557.8	498.8	495.7	486.3	505.0	520.5	536.1
1485.4	55°	1180.9	938.5	598.2	519.0	463.0	466.1	461.5	477.0	489.4	503.4
1423.3	57.5°	1065.9	849.9	557.8	477.0	432.0	441.3	435.1	442.8	450.6	467.7
1348.7	60°	949.4	744.3	512.8	427.3	400.9	411.8	394.7	393.1	396.2	400.9
1238.4	62.5°	792.4	634.0	456.8	383.8	366.7	371.4	338.7	313.9	313.9	318.5
1084.6	65°	637.1	531.4	394.7	334.1	320.1	317.0	270.4	236.2	233.1	247.1
905.9	67.5°	523.6	441.3	332.5	278.1	268.8	271.9	237.7	203.5	200.4	216.0
738.1	70°	433.5	355.8	265.7	214.4	223.7	237.7	203.5	170.9	166.3	180.2
599.8	72.5°	344.9	278.1	203.5	158.5	184.9	202.0	166.3	135.2	132.1	144.5
463.0	75°	253.3	198.9	138.3	115.0	142.9	158.5	121.2	96.3	91.7	102.6
309.2	77.5°	156.9	111.9	87.0	68.4	97.9	105.7	63.7	55.9	54.4	62.2
188.0	80°	73.0	48.2	42.0	23.3	35.7	42.0	26.4	29.5	31.1	37.3
94.8	82.5°	20.2	7.8	1.6	0.0	0.0	12.4	6.2	12.4	15.5	23.3
7.8	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	7.8	14.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2
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°
3123.1	0°	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1	3123.1
2831.0	2.5°	2896.3	2958.4	3057.9	3160.4	3261.4	3364.0	3463.4	3499.2
2504.7	5°	2627.5	2770.4	2967.8	3179.1	3396.6	3617.3	3819.2	3910.9
2167.6	7.5°	2327.6	2532.7	2829.5	3160.4	3506.9	3853.4	4172.0	4319.6
1833.5	10°	2007.5	2267.0	2605.7	3053.2	3550.4	4029.0	4467.2	4658.3
1539.8	12.5°	1703.0	1974.9	2349.4	2885.4	3516.3	4130.0	4656.8	4882.1
1333.2	15°	1448.1	1689.0	2093.0	2686.5	3405.9	4136.2	4746.9	4993.9
1218.2	17.5°	1257.0	1414.0	1831.9	2465.9	3261.4	4078.7	4777.9	5042.1
1156.0	20°	1162.2	1205.8	1493.2	2183.1	3126.3	4024.4	4809.0	5087.2
1106.3	22.5°	1106.3	1117.2	1221.3	1818.0	2964.7	4007.3	4863.4	5149.3
1061.2	25°	1061.2	1064.4	1092.3	1440.4	2717.6	3996.4	4947.3	5234.8
1014.6	27.5°	1016.2	1016.2	1031.7	1160.7	2382.0	3949.8	5056.1	5337.3
968.0	30°	971.1	971.1	982.0	1027.1	1988.9	3858.1	5186.6	5470.9
921.4	32.5°	924.5	924.5	933.8	966.5	1588.0	3743.1	5306.2	5606.1
873.2	35°	877.9	874.8	887.2	921.4	1263.2	3597.1	5425.9	5752.2
825.1	37.5°	828.2	826.6	839.1	877.9	1090.8	3427.7	5516.0	5951.1
776.9	40°	775.3	775.3	789.3	831.3	1041.0	3214.8	5659.0	6237.0
727.2	42.5°	727.2	724.1	739.6	790.9	1003.8	3011.3	5915.3	6653.4
682.1	45°	680.6	674.4	688.3	752.0	938.5	2939.8	6393.9	7268.7
638.6	47.5°	637.1	621.5	634.0	705.4	879.5	3207.1	7177.0	8121.7
599.8	50°	601.3	571.8	582.7	658.8	834.4	3786.6	8193.2	9254.5
564.0	52.5°	564.0	525.2	531.4	601.3	794.0	4338.2	9294.9	10749.2
528.3	55°	525.2	481.7	484.8	543.8	736.5	4420.6	10370.1	12787.8
487.9	57.5°	481.7	441.3	441.3	491.0	694.6	3831.7	11196.7	15317.4
438.2	60°	433.5	407.1	399.3	449.0	731.8	2703.6	11293.0	16948.9
374.5	62.5°	380.7	366.7	355.8	408.7	759.8	1602.0	10517.7	16554.2
295.2	65°	320.1	317.0	309.2	449.0	640.2	946.3	9029.2	15343.8
251.7	67.5°	268.8	264.1	264.1	470.8	486.3	595.1	7054.3	13678.1
214.4	70°	231.5	214.4	214.4	355.8	295.2	411.8	4925.6	11880.4
177.1	72.5°	194.2	175.6	163.1	284.3	220.6	301.4	3078.1	10174.3
135.2	75°	155.4	141.4	125.9	188.0	164.7	228.4	1788.4	8429.4
85.5	77.5°	111.9	105.7	88.6	138.3	119.6	164.7	1064.4	6504.2
52.8	80°	57.5	59.0	55.9	79.2	80.8	111.9	606.0	4451.6
34.2	82.5°	34.2	26.4	29.5	38.8	46.6	63.7	228.4	2616.6
24.9	85°	21.8	14.0	14.0	18.6	23.3	24.9	69.9	1061.2
12.4	87.5°	10.9	4.7	6.2	9.3	7.8	6.2	3.1	267.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)