

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: P949986

Luminaire Tested: **GALN-SB4C-827-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949986  
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-SB4C-827-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

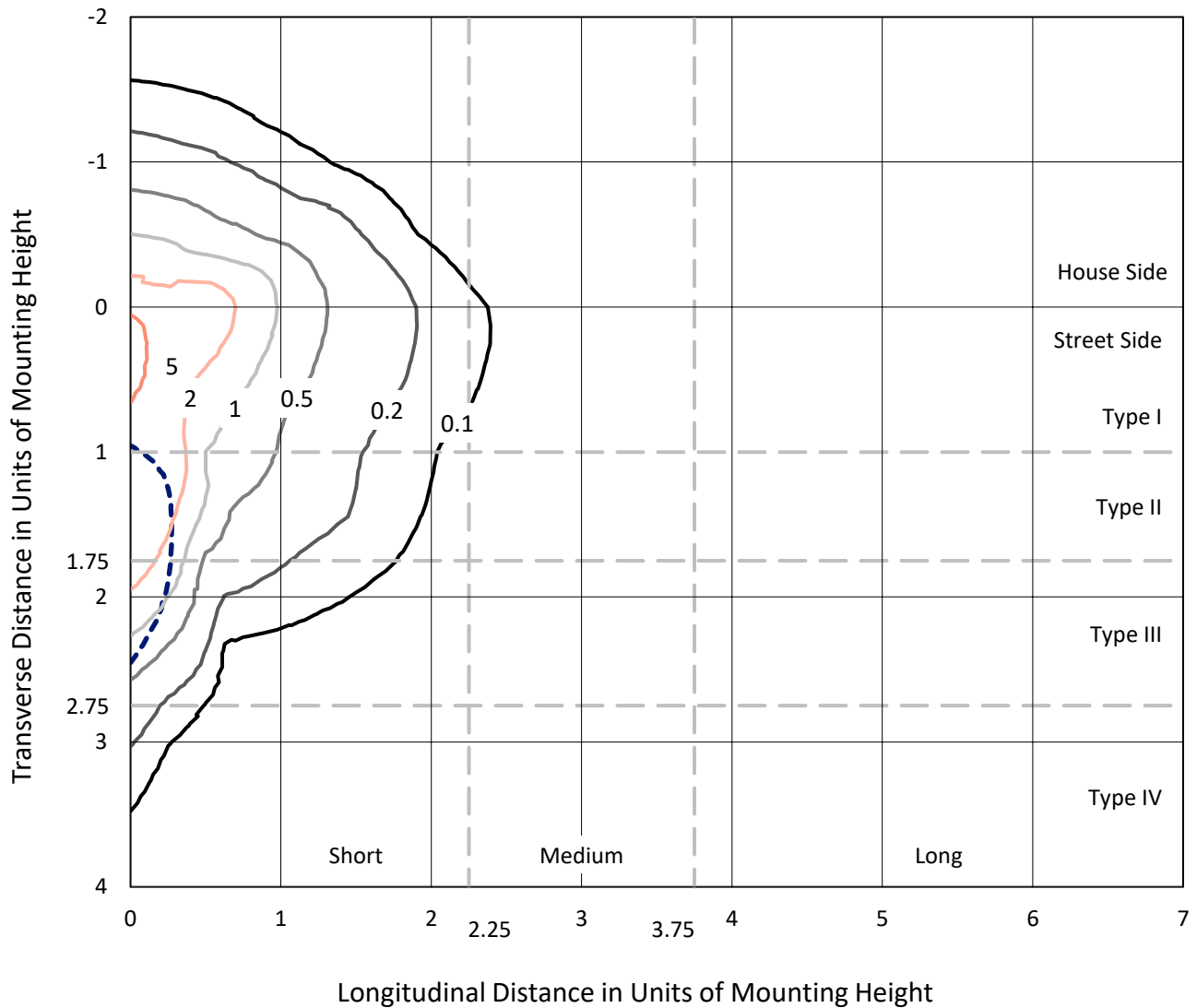
Lumens per Lamp: N/A  
Luminaire Lumens: 19919 lumens  
Efficiency: N/A  
Efficacy: 99.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

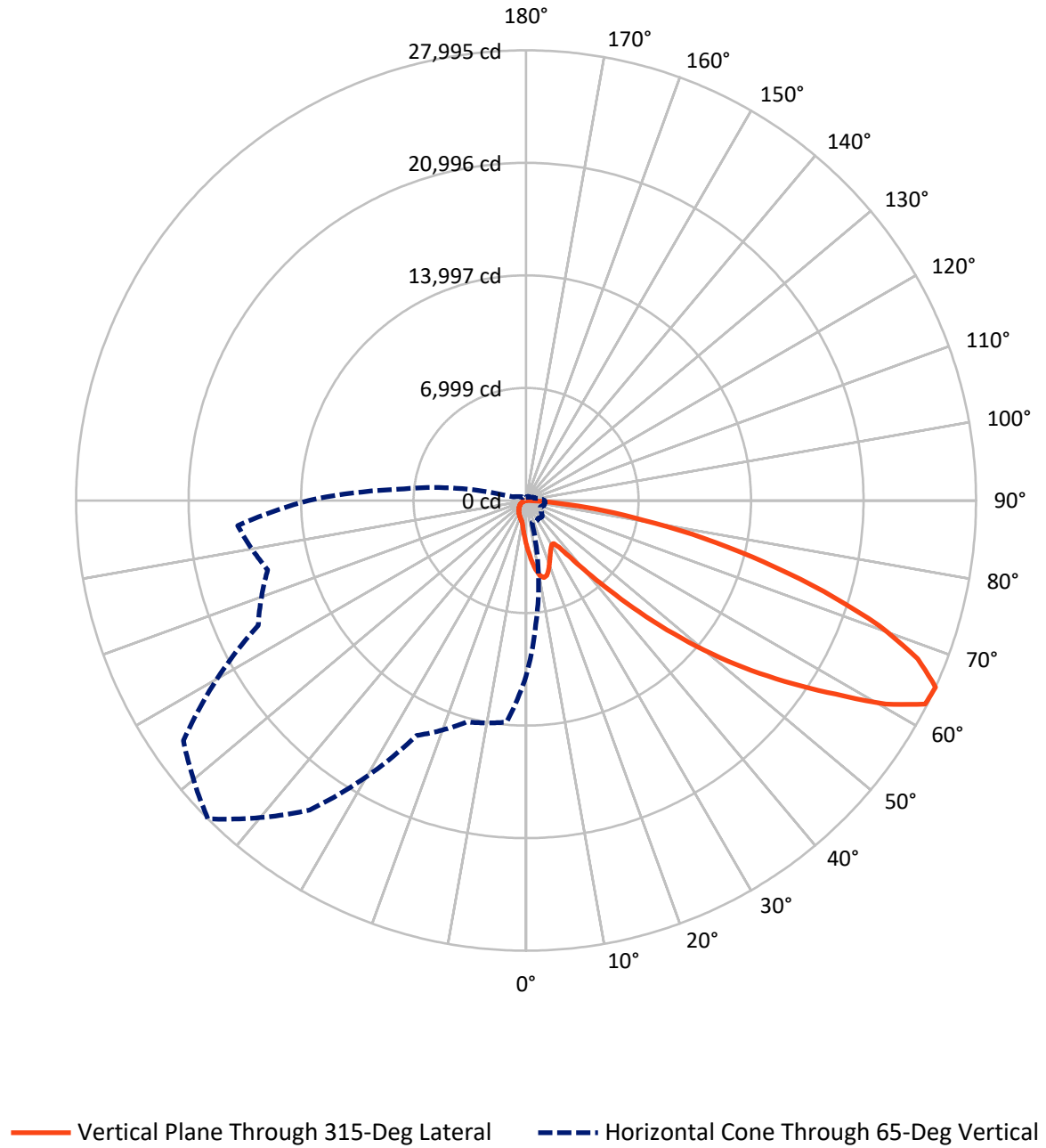
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	2789.5	0.0	2789.5
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	17129.5	0.0	17129.5
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	19919.0	0.0	19919.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.5	1.4
10°-20°	814.0	4.1
20°-30°	1199.2	6.0
30°-40°	1540.7	7.7
40°-50°	2491.7	12.5
50°-60°	4369.5	21.9
60°-70°	5467.4	27.4
70°-80°	3194.9	16.0
80°-90°	570.0	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°	19919.0	100.0
0°-180°	19919.0	100.0

**Coefficient of Utilization**



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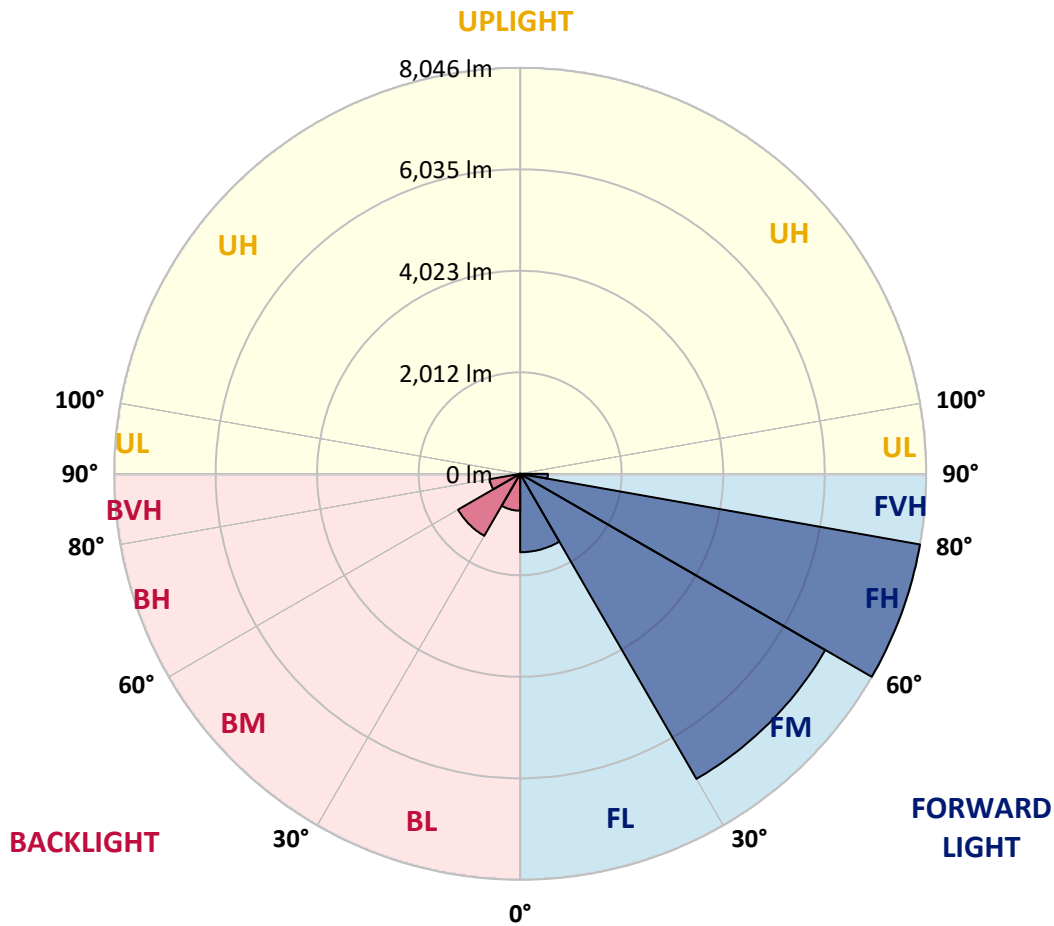
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1553.6	7.8			
FM (30°-60°)	6981.4	35.0			
FH (60°-80°)	8046.4	40.4			G4/12000
FVH (80°-90°)	548.1	2.8			G4/750
BL (0°-30°)	731.2	3.7	B2/1000		
BM (30°-60°)	1420.5	7.1	B2/2500		
BH (60°-80°)	615.9	3.1	B2/1000		G2/1000
BVH (80°-90°)	21.9	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°	2758.1	2758.1	2758.1	2758.1	2758.1	2758.1	2758.1	2758.1	2758.1	2758.1
2.5°	3116.3	3062.8	3031.2	2953.0	2874.8	2811.7	2726.6	2670.3	2603.1	2538.6
5°	3473.1	3386.6	3282.3	3139.6	3009.3	2876.2	2747.2	2619.6	2485.1	2361.6
7.5°	3775.0	3650.1	3466.2	3276.8	3110.8	2950.3	2799.3	2630.5	2467.2	2273.8
10°	4005.5	3846.3	3604.8	3356.4	3165.7	3003.8	2856.9	2714.2	2549.6	2316.3
12.5°	4145.4	3975.3	3688.5	3397.6	3179.4	2998.3	2884.4	2821.3	2756.8	2524.9
15°	4248.4	4064.5	3747.5	3426.4	3147.9	2925.6	2841.8	2905.0	2979.1	2830.9
17.5°	4355.4	4161.9	3824.4	3438.8	3062.8	2784.2	2748.5	2911.8	3083.4	3076.5
20°	4456.9	4264.8	3891.6	3430.5	2925.6	2612.7	2644.3	2852.8	3051.8	3135.5
22.5°	4573.6	4370.5	3956.1	3399.0	2747.2	2452.1	2550.9	2759.5	2933.8	3032.6
25°	4716.3	4503.6	4046.7	3352.3	2555.1	2319.0	2456.3	2651.1	2792.4	2861.1
27.5°	4870.0	4662.8	4167.4	3327.6	2400.0	2224.4	2349.2	2522.1	2648.4	2696.4
30°	5060.7	4848.0	4310.1	3300.2	2298.5	2169.5	2238.1	2372.6	2496.1	2544.1
32.5°	5269.3	5053.9	4447.3	3234.3	2236.7	2128.3	2129.7	2214.7	2327.3	2384.9
35°	5530.0	5300.9	4594.2	3090.2	2187.3	2080.3	2024.0	2065.2	2158.5	2227.1
37.5°	5901.9	5624.7	4773.9	2884.4	2114.6	2006.2	1912.9	1922.5	1993.8	2069.3
40°	6415.1	6059.7	4985.2	2670.3	2010.3	1901.9	1790.7	1786.6	1838.8	1912.9
42.5°	7109.4	6634.6	5239.1	2465.9	1910.1	1775.6	1661.7	1654.9	1696.1	1760.5
45°	8026.1	7370.1	5550.6	2290.2	1831.9	1652.1	1539.6	1536.9	1571.2	1627.4
47.5°	9199.3	8392.4	5862.1	2170.8	1790.7	1554.7	1439.4	1444.9	1475.1	1525.9
50°	10718.3	9724.9	5956.8	2110.5	1790.7	1502.6	1350.3	1377.7	1402.4	1440.8
52.5°	12539.3	11003.8	5643.9	2055.6	1801.7	1509.4	1274.8	1333.8	1351.6	1384.6
55°	14227.1	11630.9	4852.1	1980.1	1804.5	1552.0	1210.3	1298.1	1331.0	1343.4
57.5°	15206.8	11415.4	3923.2	1852.5	1793.5	1580.8	1169.1	1254.2	1317.3	1325.6
60°	15020.2	10659.3	2888.5	1755.1	1712.5	1569.8	1156.8	1187.0	1287.1	1299.5
62.5°	13582.1	9391.4	2004.8	1679.6	1534.1	1521.8	1152.7	1081.3	1221.3	1251.5
65°	10917.3	7393.5	1416.1	1446.3	1344.8	1417.5	1130.7	971.5	1141.7	1182.8
67.5°	7920.4	5003.1	1022.3	1171.9	1218.5	1248.7	1081.3	891.9	1051.1	1106.0
70°	5082.7	2701.9	717.7	773.9	1026.4	1060.7	996.2	820.6	959.2	1022.3
72.5°	3613.0	1595.9	516.0	542.0	824.7	883.7	876.8	741.0	852.1	929.0
75°	2493.3	879.6	348.5	387.0	598.3	717.7	676.5	636.7	721.8	800.0
77.5°	1562.9	393.8	208.6	269.0	392.5	564.0	463.8	492.6	562.6	635.3
80°	870.0	152.3	116.6	178.4	214.1	410.3	256.6	317.0	414.4	466.6
82.5°	189.4	19.2	52.1	76.8	83.7	238.8	135.8	183.9	260.7	256.6
85°	0.0	0.0	9.6	11.0	5.5	102.9	49.4	60.4	85.1	79.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
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°
2758.1	0°	2758.1	2758.1	2758.1	2758.1	2758.1	2758.1	2758.1	2758.1	2758.1	2758.1
2481.0	2.5°	2470.0	2402.7	2353.3	2328.6	2308.1	2327.3	2338.2	2338.2	2384.9	2412.3
2286.1	5°	2238.1	2117.3	2025.4	1963.6	1926.6	1938.9	1952.7	1967.8	2026.8	2066.5
2170.8	7.5°	2077.5	1892.3	1752.3	1665.9	1620.6	1627.4	1637.0	1649.4	1707.0	1746.8
2187.3	10°	2047.3	1781.1	1583.5	1469.6	1414.7	1405.1	1399.7	1395.5	1429.8	1460.0
2373.9	12.5°	2170.8	1786.6	1510.8	1372.2	1305.0	1276.2	1243.2	1217.2	1222.6	1241.9
2656.6	15°	2391.8	1856.6	1487.5	1321.4	1237.7	1189.7	1151.3	1119.7	1112.9	1119.7
2903.6	17.5°	2644.3	1951.3	1484.7	1277.5	1173.2	1123.8	1092.3	1063.5	1053.9	1055.2
3042.2	20°	2811.7	2026.8	1476.5	1228.1	1111.5	1067.6	1040.1	1011.3	1001.7	1004.5
3003.8	22.5°	2828.1	2066.5	1464.1	1173.2	1049.7	1012.7	985.2	959.2	957.8	957.8
2859.7	25°	2738.9	2066.5	1438.1	1123.8	990.7	957.8	933.1	901.5	907.0	909.8
2696.4	27.5°	2600.3	2017.2	1388.7	1084.0	940.0	905.7	881.0	852.1	859.0	863.1
2544.1	30°	2463.1	1954.0	1329.7	1038.8	891.9	852.1	834.3	809.6	812.3	817.8
2393.1	32.5°	2335.5	1886.8	1259.7	1001.7	843.9	804.1	790.4	762.9	767.1	772.6
2244.9	35°	2209.3	1812.7	1177.4	957.8	800.0	760.2	749.2	717.7	720.4	728.6
2096.7	37.5°	2073.4	1734.5	1110.1	913.9	757.5	716.3	705.3	672.4	675.1	684.7
1943.1	40°	1930.7	1657.6	1044.3	867.2	712.2	671.0	661.4	625.7	628.5	639.5
1792.1	42.5°	1786.6	1573.9	993.5	806.9	665.5	621.6	612.0	579.1	583.2	595.5
1660.4	45°	1653.5	1473.8	960.5	739.6	621.6	572.2	562.6	532.4	540.7	554.4
1549.2	47.5°	1539.6	1370.8	946.8	683.4	575.0	521.4	513.2	488.5	502.2	517.3
1454.5	50°	1442.2	1272.0	929.0	625.7	531.0	477.5	469.3	452.8	470.7	485.8
1390.0	52.5°	1372.2	1159.5	890.6	573.6	492.6	440.5	437.7	429.5	446.0	459.7
1342.0	55°	1311.8	1042.9	828.8	528.3	458.3	408.9	411.7	407.5	421.3	432.2
1313.2	57.5°	1256.9	941.3	750.6	492.6	421.3	381.5	389.7	384.2	391.1	397.9
1283.0	60°	1191.1	838.4	657.3	452.8	377.4	354.0	363.6	348.5	347.2	349.9
1228.1	62.5°	1093.7	699.8	559.9	403.4	338.9	323.8	328.0	299.1	277.2	277.2
1147.2	65°	957.8	562.6	469.3	348.5	295.0	282.7	279.9	238.8	208.6	205.8
1059.3	67.5°	800.0	462.4	389.7	293.7	245.6	237.4	240.1	209.9	179.8	177.0
971.5	70°	651.8	382.8	314.2	234.6	189.4	197.6	209.9	179.8	150.9	146.8
868.6	72.5°	529.7	304.6	245.6	179.8	140.0	163.3	178.4	146.8	119.4	116.6
741.0	75°	408.9	223.7	175.6	122.1	101.5	126.2	140.0	107.0	85.1	81.0
573.6	77.5°	273.1	138.6	98.8	76.8	60.4	86.4	93.3	56.3	49.4	48.0
417.2	80°	166.0	64.5	42.5	37.0	20.6	31.6	37.0	23.3	26.1	27.4
222.3	82.5°	83.7	17.8	6.9	1.4	0.0	0.0	11.0	5.5	11.0	13.7
60.4	85°	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	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°
2758.1	0°	2758.1	2758.1	2758.1	2758.1	2758.1	2758.1	2758.1	2758.1	2758.1	2758.1
2423.3	2.5°	2500.2	2557.8	2612.7	2700.5	2791.1	2880.3	2970.8	3058.7	3090.2	3113.5
2092.6	5°	2212.0	2320.4	2446.7	2620.9	2807.5	2999.7	3194.5	3372.9	3453.9	3508.7
1781.1	7.5°	1914.2	2055.6	2236.7	2498.8	2791.1	3097.1	3403.1	3684.4	3814.7	3920.4
1487.5	10°	1619.2	1772.9	2002.1	2301.2	2696.4	3135.5	3558.1	3945.1	4113.9	4247.0
1276.2	12.5°	1359.9	1503.9	1744.1	2074.8	2548.2	3105.3	3647.3	4112.5	4311.5	4461.1
1125.2	15°	1177.4	1278.9	1491.6	1848.4	2372.6	3007.9	3652.8	4192.1	4410.3	4566.7
1062.1	17.5°	1075.8	1110.1	1248.7	1617.8	2177.7	2880.3	3602.1	4219.5	4452.8	4598.3
1005.8	20°	1020.9	1026.4	1064.8	1318.7	1928.0	2760.9	3554.0	4247.0	4492.6	4614.7
966.0	22.5°	977.0	977.0	986.6	1078.6	1605.5	2618.2	3538.9	4295.0	4547.5	4623.0
920.8	25°	937.2	937.2	940.0	964.7	1272.0	2400.0	3529.3	4369.1	4623.0	4643.6
875.5	27.5°	896.1	897.4	897.4	911.1	1025.0	2103.6	3488.2	4465.2	4713.5	4671.0
831.6	30°	854.9	857.6	857.6	867.2	907.0	1756.4	3407.2	4580.4	4831.6	4706.7
787.6	32.5°	813.7	816.5	816.5	824.7	853.5	1402.4	3305.7	4686.1	4950.9	4721.8
745.1	35°	771.2	775.3	772.6	783.5	813.7	1115.6	3176.7	4791.8	5079.9	4769.8
703.9	37.5°	728.6	731.4	730.0	741.0	775.3	963.3	3027.1	4871.3	5255.6	4876.8
660.0	40°	686.1	684.7	684.7	697.1	734.1	919.4	2839.1	4997.6	5508.1	5064.8
616.1	42.5°	642.2	642.2	639.5	653.2	698.5	886.4	2659.3	5224.0	5875.8	5364.0
575.0	45°	602.4	601.0	595.5	607.9	664.2	828.8	2596.2	5646.6	6419.2	5848.4
533.8	47.5°	564.0	562.6	548.9	559.9	623.0	776.7	2832.2	6338.2	7172.5	6560.5
500.9	50°	529.7	531.0	505.0	514.6	581.8	736.9	3344.1	7235.7	8172.9	7519.7
473.4	52.5°	498.1	498.1	463.8	469.3	531.0	701.2	3831.2	8208.6	9493.0	8857.6
444.6	55°	466.6	463.8	425.4	428.1	480.3	650.4	3903.9	9158.1	11293.3	10870.7
413.0	57.5°	430.9	425.4	389.7	389.7	433.6	613.4	3383.9	9888.2	13527.3	13829.1
354.0	60°	387.0	382.8	359.5	352.7	396.6	646.3	2387.6	9973.2	14968.1	17763.3
281.3	62.5°	330.7	336.2	323.8	314.2	360.9	671.0	1414.7	9288.5	14619.5	19014.7
218.2	65°	260.7	282.7	279.9	273.1	396.6	565.4	835.7	7973.9	13550.6	18004.8
190.7	67.5°	222.3	237.4	233.3	233.3	415.8	429.5	525.6	6229.8	12079.6	16806.8
159.2	70°	189.4	204.5	189.4	189.4	314.2	260.7	363.6	4349.9	10491.9	15481.3
127.6	72.5°	156.4	171.5	155.1	144.1	251.1	194.9	266.2	2718.4	8985.2	14100.8
90.6	75°	119.4	137.2	124.9	111.1	166.0	145.5	201.7	1579.4	7444.2	12064.5
54.9	77.5°	75.5	98.8	93.3	78.2	122.1	105.7	145.5	940.0	5744.1	9427.1
32.9	80°	46.7	50.8	52.1	49.4	70.0	71.4	98.8	535.2	3931.4	6570.1
20.6	82.5°	30.2	30.2	23.3	26.1	34.3	41.2	56.3	201.7	2310.8	4000.0
12.3	85°	22.0	19.2	12.3	12.3	16.5	20.6	22.0	61.7	937.2	1579.4
5.5	87.5°	11.0	9.6	4.1	5.5	8.2	6.9	5.5	2.7	236.0	505.0
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):**

285°		295°	305°	315°	325°	335°	345°	355°	360°
2758.1	0°	2758.1	2758.1	2758.1	2758.1	2758.1	2758.1	2758.1	2758.1
3165.7	2.5°	3193.1	3235.7	3238.4	3238.4	3201.4	3200.0	3124.5	3116.3
3632.2	5°	3759.9	3787.3	3794.2	3780.4	3706.3	3651.5	3504.6	3473.1
4108.4	7.5°	4278.6	4333.4	4333.4	4300.5	4179.8	4067.2	3854.5	3775.0
4502.2	10°	4693.0	4756.1	4742.4	4675.1	4522.8	4367.7	4109.8	4005.5
4741.0	12.5°	4894.7	4959.2	4923.5	4846.6	4698.5	4535.2	4263.5	4145.4
4809.6	15°	4890.6	4872.7	4835.7	4826.1	4754.7	4631.2	4377.4	4248.4
4767.1	17.5°	4716.3	4565.3	4536.5	4632.6	4723.2	4693.0	4476.2	4355.4
4665.5	20°	4440.5	4177.0	4150.9	4334.8	4592.8	4724.5	4568.1	4456.9
4518.7	22.5°	4149.6	3865.5	3805.1	4008.2	4396.6	4734.1	4684.7	4573.6
4356.8	25°	3873.8	3588.3	3528.0	3717.3	4178.4	4717.7	4811.0	4716.3
4201.7	27.5°	3643.2	3367.4	3311.1	3500.5	3968.4	4671.0	4937.2	4870.0
4048.0	30°	3464.8	3209.6	3168.4	3350.9	3787.3	4613.4	5097.8	5060.7
3905.3	32.5°	3360.5	3173.9	3189.0	3338.6	3689.9	4550.3	5251.5	5269.3
3835.3	35°	3463.5	3471.7	3603.4	3665.2	3780.4	4540.6	5460.0	5530.0
3919.0	37.5°	3975.3	4260.7	4533.8	4483.0	4223.7	4651.8	5771.5	5901.9
4284.0	40°	4846.6	5432.6	5875.8	5682.3	5029.2	4992.1	6220.2	6415.1
4931.7	42.5°	5911.5	6905.0	7635.0	7116.3	6067.9	5587.6	6861.1	7109.4
5715.3	45°	7035.3	8720.4	9870.3	8791.8	7175.3	6421.9	7831.2	8026.1
6449.4	47.5°	8219.5	10926.9	12414.4	10649.7	8201.7	7371.5	9154.0	9199.3
7145.1	50°	9514.9	13346.1	15007.9	12506.3	9192.4	8459.7	10770.5	10718.3
7956.1	52.5°	10748.5	15833.9	17546.5	14371.2	10062.4	9809.9	12646.3	12539.3
9064.8	55°	11925.9	18320.4	20100.1	16163.3	10883.0	11593.8	14874.8	14227.1
10663.5	57.5°	13291.2	20555.7	22732.0	17963.6	12030.2	13910.1	17366.7	15206.8
13724.9	60°	15309.8	23095.7	25708.4	20430.8	14212.0	16344.4	18260.0	15020.2
17391.4	62.5°	17886.8	25431.2	27872.4	22848.7	16403.4	16802.7	16944.1	13582.1
16643.5	65°	18387.6	26022.6	27994.5	23495.0	16120.7	14253.2	13833.3	10917.3
14866.5	67.5°	17059.3	24953.7	26287.4	22291.6	14260.0	11014.7	10380.8	7920.4
13700.2	70°	15569.1	22915.9	23312.5	20245.6	12542.0	8101.5	7010.6	5082.7
12901.5	72.5°	14041.8	20197.6	19377.0	17582.1	11023.0	5899.1	5056.6	3613.0
11764.0	75°	12227.8	16623.0	15263.1	14608.6	9126.6	4629.8	3658.3	2493.3
10118.7	77.5°	9792.1	11700.8	11337.2	11323.5	6858.3	3382.5	2441.2	1562.9
7905.3	80°	6907.7	7593.8	7408.6	8528.3	4601.0	2453.5	1469.6	870.0
5502.6	82.5°	3344.1	4199.0	4310.1	5078.6	2238.1	1443.6	338.9	189.4
2151.6	85°	1309.1	2025.4	1708.4	1928.0	628.5	402.1	8.2	0.0
354.0	87.5°	146.8	234.6	215.4	170.2	76.8	16.5	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)