

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: P949942

Luminaire Tested: **GALN-SB4C-750-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949942  
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-750-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

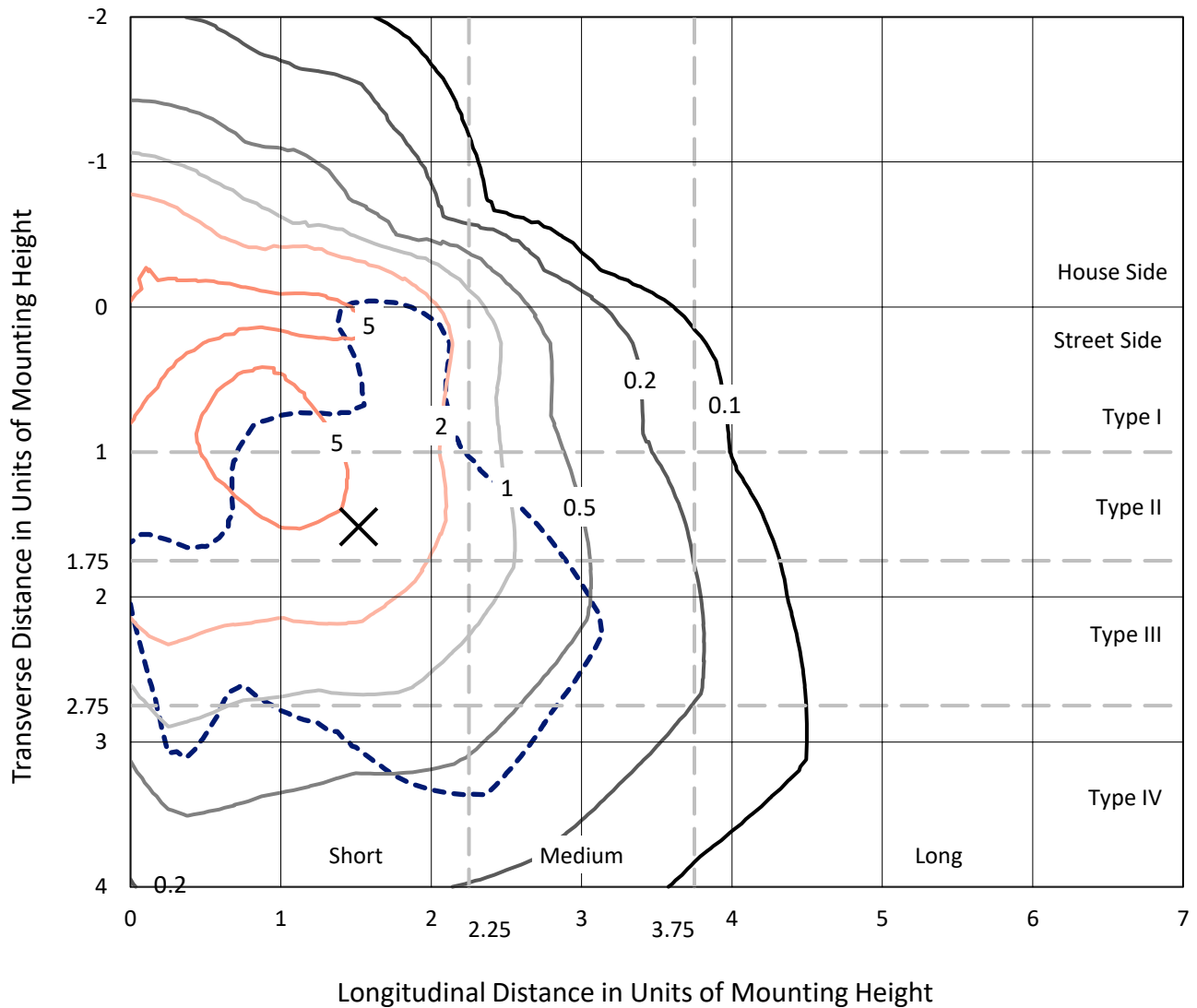
Lumens per Lamp: N/A  
Luminaire Lumens: 24235 lumens  
Efficiency: N/A  
Efficacy: 120.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

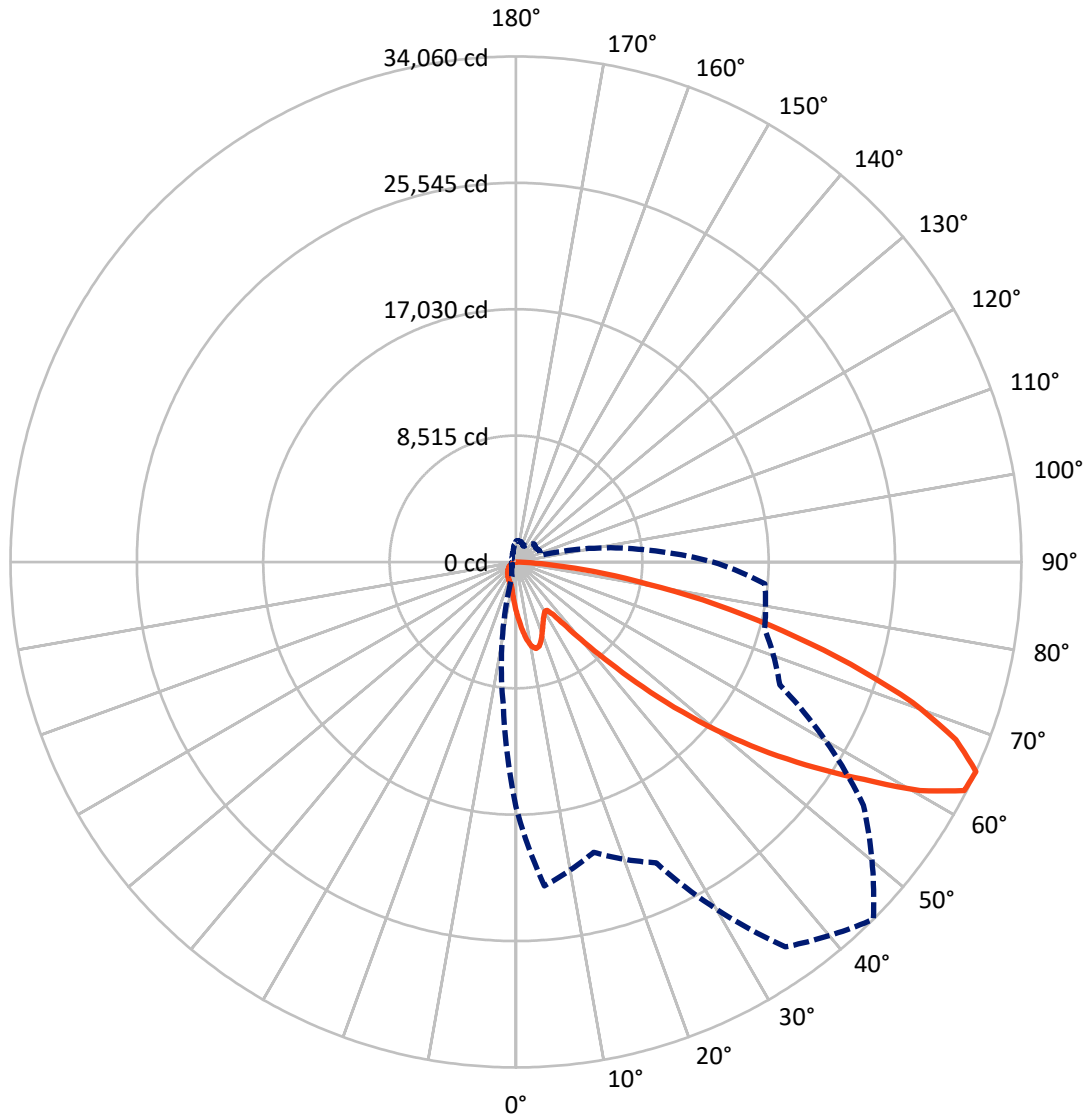
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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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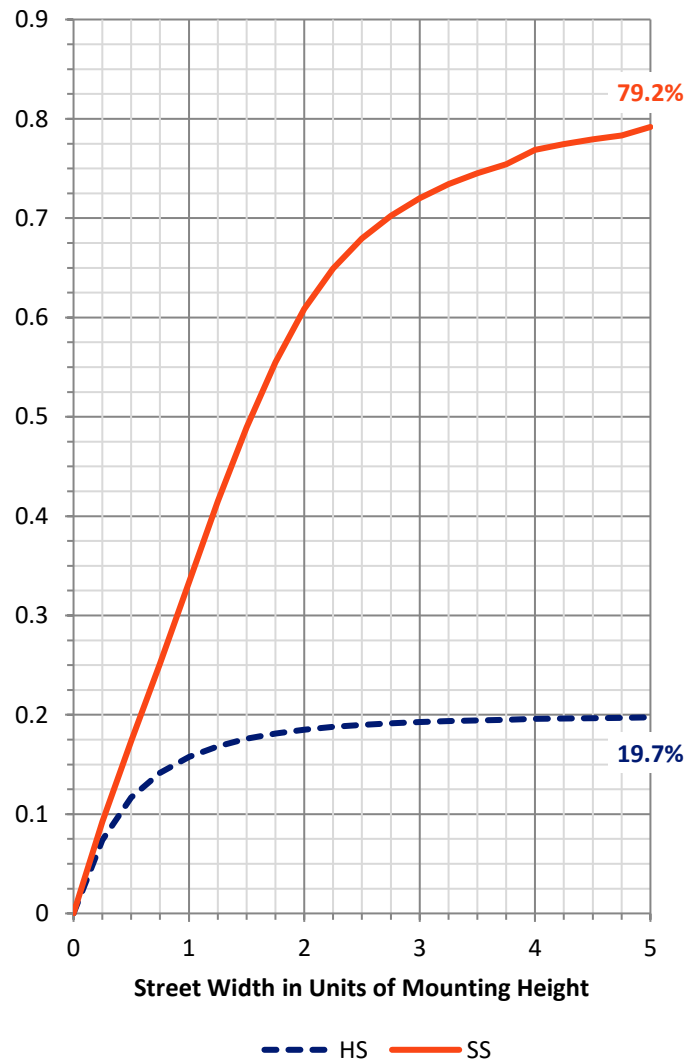
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4817.2	0.0	4817.2
	% Fixture	19.9	0.0	19.9
<b>Street Side</b>	Lumens	19417.8	0.0	19417.8
	% Fixture	80.1	0.0	80.1
<b>Total</b>	Lumens	24235.0	0.0	24235.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	330.4	1.4
10°-20°	990.4	4.1
20°-30°	1459.1	6.0
30°-40°	1874.5	7.7
40°-50°	3031.6	12.5
50°-60°	5316.2	21.9
60°-70°	6652.1	27.4
70°-80°	3887.2	16.0
80°-90°	693.5	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°	24235.0	100.0
0°-180°	24235.0	100.0

**Coefficient of Utilization**



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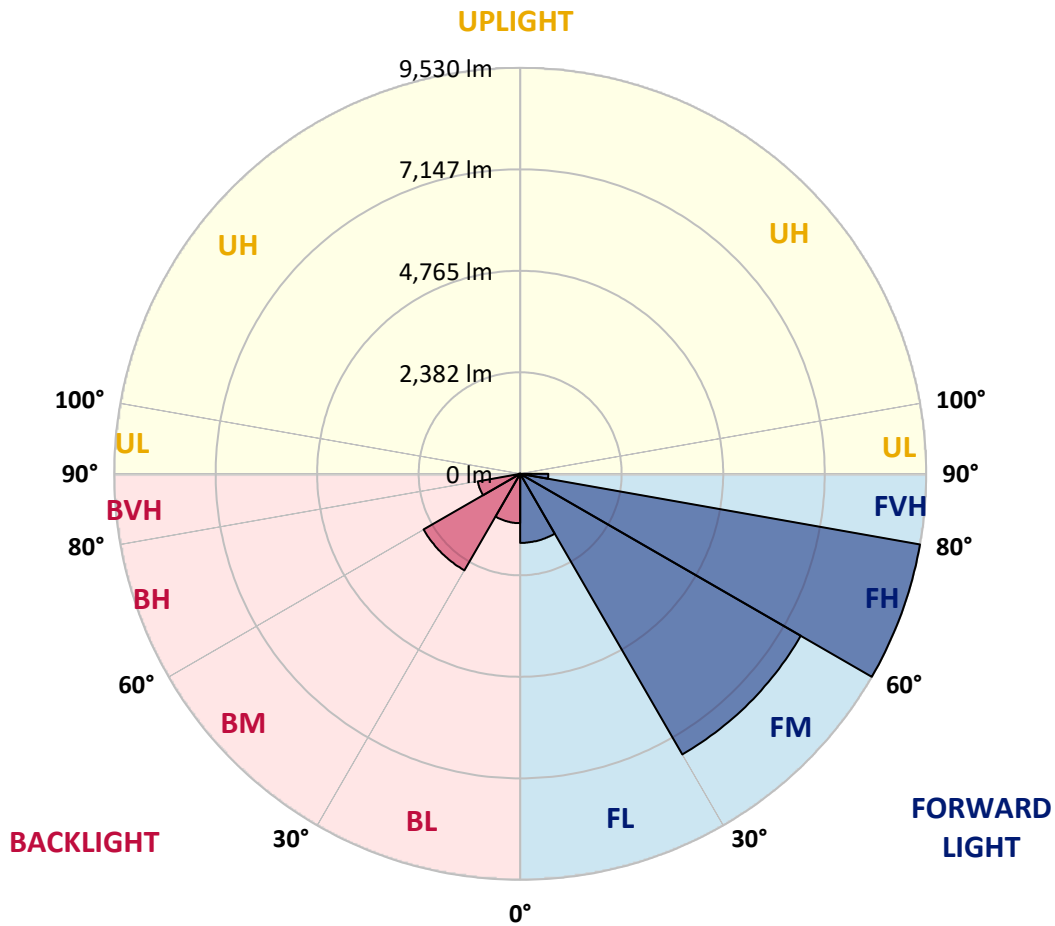
CATALOG NUMBER: GALN-SB4C-750-U-SLL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1621.6	6.7			
FM (30°-60°)	7605.2	31.4			
FH (60°-80°)	9530.0	39.3			G4/12000
FVH (80°-90°)	661.0	2.7			G4/750
BL (0°-30°)	1158.2	4.8	B3/2500		
BM (30°-60°)	2617.1	10.8	B3/5000		
BH (60°-80°)	1009.3	4.2	B3/2500		G3/2500
BVH (80°-90°)	32.5	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°	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8
2.5°	3759.8	3788.2	3851.6	3885.0	3936.8	3940.1	3940.1	3895.0	3893.4	3801.5
5°	4202.2	4269.0	4419.3	4574.5	4607.9	4616.3	4599.6	4509.4	4442.6	4264.0
7.5°	4641.3	4769.9	4998.6	5205.6	5272.4	5272.4	5232.3	5085.4	4948.5	4689.7
10°	5005.3	5167.2	5477.8	5709.8	5786.6	5769.9	5688.1	5502.8	5314.1	5000.3
12.5°	5245.7	5427.7	5768.3	5955.2	6033.7	5990.3	5896.8	5716.5	5517.8	5187.3
15°	5365.9	5556.2	5851.7	5950.2	5928.5	5883.5	5871.8	5785.0	5634.7	5325.8
17.5°	5417.7	5594.6	5800.0	5738.2	5554.6	5519.5	5636.4	5746.6	5709.8	5446.0
20°	5466.1	5614.7	5676.4	5402.6	5082.1	5050.4	5274.1	5587.9	5748.2	5557.9
22.5°	5532.9	5624.7	5497.8	5048.7	4703.1	4629.6	4876.7	5349.2	5759.9	5699.8
25°	5624.7	5649.7	5300.8	4713.1	4365.8	4292.4	4522.8	5083.7	5739.9	5853.4
27.5°	5734.9	5683.1	5112.1	4432.6	4097.0	4028.6	4259.0	4828.3	5683.1	6007.0
30°	5878.4	5726.5	4925.1	4215.6	3905.1	3855.0	4077.0	4607.9	5613.0	6202.3
32.5°	6023.7	5744.9	4751.5	4088.7	3861.6	3880.0	4062.0	4489.4	5536.2	6389.3
35°	6180.6	5803.3	4666.4	4213.9	4223.9	4384.2	4459.3	4599.6	5524.5	6643.1
37.5°	6394.3	5933.5	4768.2	4836.7	5183.9	5516.2	5454.4	5138.8	5659.7	7022.1
40°	6701.5	6162.3	5212.3	5896.8	6609.7	7149.0	6913.6	6118.9	6073.8	7568.0
42.5°	7149.0	6526.2	6000.3	7192.4	8401.1	9289.3	8658.2	7382.7	6798.4	8347.7
45°	7810.1	7115.6	6953.6	8559.7	10609.9	12009.0	10696.7	8730.0	7813.4	9528.1
47.5°	8726.7	7982.1	7846.8	10000.5	13294.5	15104.3	12957.3	9978.8	8968.8	11137.5
50°	9943.8	9149.1	8693.3	11576.6	16237.9	18259.7	15216.2	11184.2	10292.7	13104.2
52.5°	11549.9	10776.9	9680.0	13077.5	19264.8	21348.4	17485.1	12242.7	11935.5	15386.5
55°	13740.3	13226.1	11029.0	14510.0	22290.0	24455.4	19665.5	13241.1	14105.9	18097.8
57.5°	16458.3	16825.6	12974.0	16171.1	25009.7	27657.6	21855.9	14636.8	16924.1	21129.7
60°	18211.3	21612.2	16698.7	18627.0	28100.0	31278.8	24857.8	17291.4	19885.9	22216.5
62.5°	17787.3	23134.8	21159.7	21762.4	30941.6	33911.7	27799.5	19957.7	20443.5	20615.5
65°	16486.7	21906.0	20249.8	22371.8	31661.1	34060.3	28585.8	19613.7	17341.5	16830.6
67.5°	14696.9	20448.5	18087.8	20755.7	30360.6	31983.3	27121.7	17349.8	13401.4	12630.1
70°	12765.3	18835.7	16668.7	18942.6	27881.3	28363.8	24632.4	15259.6	9857.0	8529.7
72.5°	10932.1	17156.2	15697.0	17084.4	24573.9	23575.6	21391.8	13411.4	7177.3	6152.2
75°	9057.2	14678.6	14313.0	14877.3	20224.8	18570.3	17773.9	11104.1	5633.0	4451.0
77.5°	6988.7	11469.7	12311.2	11913.8	14236.2	13793.7	13777.0	8344.4	4115.4	2970.1
80°	4783.2	7993.7	9618.2	8404.5	9239.2	9013.8	10376.2	5598.0	2985.1	1788.1
82.5°	2811.5	4866.7	6694.8	4068.7	5108.8	5244.0	6179.0	2723.0	1756.4	412.4
85°	1140.3	1921.6	2617.8	1592.7	2464.2	2078.6	2345.7	764.6	489.2	10.0
87.5°	287.2	614.4	430.7	178.6	285.5	262.1	207.0	93.5	20.0	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°
3355.8	0°	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8
3791.5	2.5°	3726.4	3688.0	3592.8	3497.7	3420.9	3317.4	3248.9	3167.1	3088.6	3018.5
4225.6	5°	4120.4	3993.5	3819.9	3661.3	3499.4	3342.4	3187.1	3023.5	2873.3	2781.5
4592.9	7.5°	4441.0	4217.3	3986.9	3784.8	3589.5	3405.9	3200.5	3001.8	2766.4	2641.2
4873.4	10°	4679.7	4385.9	4083.7	3851.6	3654.6	3476.0	3302.3	3102.0	2818.2	2661.2
5043.7	12.5°	4836.7	4487.7	4133.8	3868.3	3647.9	3509.4	3432.6	3354.1	3072.0	2888.3
5168.9	15°	4945.2	4559.5	4168.8	3829.9	3559.5	3457.6	3534.4	3624.6	3444.3	3232.2
5299.1	17.5°	5063.7	4653.0	4183.9	3726.4	3387.5	3344.1	3542.8	3751.5	3743.1	3532.7
5422.7	20°	5188.9	4734.8	4173.8	3559.5	3178.8	3217.2	3471.0	3713.1	3814.9	3701.4
5564.6	22.5°	5317.5	4813.3	4135.4	3342.4	2983.5	3103.7	3357.4	3569.5	3689.7	3654.6
5738.2	25°	5479.4	4923.5	4078.7	3108.7	2821.5	2988.5	3225.5	3397.5	3481.0	3479.3
5925.2	27.5°	5673.1	5070.4	4048.6	2920.0	2706.3	2858.2	3068.6	3222.2	3280.6	3280.6
6157.3	30°	5898.5	5244.0	4015.2	2796.5	2639.5	2723.0	2886.6	3036.9	3095.3	3095.3
6411.0	32.5°	6148.9	5411.0	3935.1	2721.3	2589.5	2591.1	2694.6	2831.5	2901.7	2911.7
6728.2	35°	6449.4	5589.6	3759.8	2661.2	2531.0	2462.6	2512.7	2626.2	2709.7	2731.4
7180.7	37.5°	6843.4	5808.3	3509.4	2572.8	2440.9	2327.3	2339.0	2425.8	2517.7	2551.1
7805.1	40°	7372.7	6065.4	3248.9	2445.9	2314.0	2178.7	2173.7	2237.2	2327.3	2364.1
8649.9	42.5°	8072.2	6374.3	3000.2	2324.0	2160.4	2021.8	2013.5	2063.5	2142.0	2180.4
9765.1	45°	8967.1	6753.3	2786.5	2228.8	2010.1	1873.2	1869.9	1911.6	1980.1	2020.1
11192.6	47.5°	10210.9	7132.3	2641.2	2178.7	1891.6	1751.3	1758.0	1794.8	1856.5	1884.9
13040.8	50°	11832.0	7247.5	2567.7	2178.7	1828.1	1642.8	1676.2	1706.3	1753.0	1769.7
15256.2	52.5°	13388.0	6866.8	2501.0	2192.1	1836.5	1551.0	1622.8	1644.5	1684.6	1691.2
17309.8	55°	14151.0	5903.5	2409.1	2195.4	1888.2	1472.5	1579.4	1619.5	1634.5	1632.8
18501.8	57.5°	13888.9	4773.2	2253.9	2182.1	1923.3	1422.4	1526.0	1602.8	1612.8	1597.7
18274.8	60°	12969.0	3514.4	2135.3	2083.6	1910.0	1407.4	1444.2	1566.0	1581.1	1561.0
16525.1	62.5°	11426.3	2439.2	2043.5	1866.5	1851.5	1402.4	1315.6	1485.9	1522.6	1494.2
13282.8	65°	8995.5	1723.0	1759.7	1636.1	1724.6	1375.7	1182.0	1389.1	1439.1	1395.7
9636.6	67.5°	6087.1	1243.8	1425.8	1482.6	1519.3	1315.6	1085.2	1278.9	1345.6	1288.9
6184.0	70°	3287.3	873.2	941.6	1248.8	1290.6	1212.1	998.4	1167.0	1243.8	1182.0
4395.9	72.5°	1941.7	627.7	659.5	1003.4	1075.2	1066.8	901.6	1036.8	1130.3	1056.8
3033.6	75°	1070.2	424.1	470.8	727.9	873.2	823.1	774.7	878.2	973.3	901.6
1901.6	77.5°	479.2	253.8	327.2	477.5	686.2	564.3	599.4	684.5	773.0	697.9
1058.5	80°	185.3	141.9	217.0	260.4	499.2	312.2	385.7	504.2	567.6	507.5
230.4	82.5°	23.4	63.4	93.5	101.8	290.5	165.3	223.7	317.2	312.2	270.5
0.0	85°	0.0	11.7	13.4	6.7	125.2	60.1	73.5	103.5	96.8	73.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	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°
3355.8	0°	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8
3005.2	2.5°	2923.4	2863.3	2833.2	2808.2	2831.5	2844.9	2844.9	2901.7	2935.0	2948.4
2723.0	5°	2576.1	2464.2	2389.1	2344.0	2359.1	2375.8	2394.1	2465.9	2514.3	2546.0
2527.7	7.5°	2302.3	2132.0	2026.8	1971.7	1980.1	1991.8	2006.8	2076.9	2125.3	2167.1
2491.0	10°	2167.1	1926.6	1788.1	1721.3	1709.6	1702.9	1697.9	1739.7	1776.4	1809.8
2641.2	12.5°	2173.7	1838.2	1669.5	1587.7	1552.7	1512.6	1480.9	1487.6	1510.9	1552.7
2910.0	15°	2258.9	1809.8	1607.8	1505.9	1447.5	1400.7	1362.3	1354.0	1362.3	1369.0
3217.2	17.5°	2374.1	1806.4	1554.3	1427.5	1367.4	1329.0	1293.9	1282.2	1283.9	1292.2
3420.9	20°	2465.9	1796.4	1494.2	1352.3	1298.9	1265.5	1230.4	1218.8	1222.1	1223.8
3440.9	22.5°	2514.3	1781.4	1427.5	1277.2	1232.1	1198.7	1167.0	1165.3	1165.3	1175.4
3332.4	25°	2514.3	1749.7	1367.4	1205.4	1165.3	1135.3	1096.9	1103.6	1106.9	1120.3
3163.8	27.5°	2454.2	1689.6	1318.9	1143.6	1101.9	1071.8	1036.8	1045.1	1050.1	1065.2
2996.8	30°	2377.4	1617.8	1263.8	1085.2	1036.8	1015.1	985.0	988.4	995.0	1011.7
2841.6	32.5°	2295.6	1532.6	1218.8	1026.8	978.3	961.7	928.3	933.3	940.0	958.3
2688.0	35°	2205.5	1432.5	1165.3	973.3	924.9	911.6	873.2	876.5	886.5	906.6
2522.7	37.5°	2110.3	1350.7	1111.9	921.6	871.5	858.1	818.1	821.4	833.1	856.5
2349.0	40°	2016.8	1270.5	1055.1	866.5	816.4	804.7	761.3	764.6	778.0	803.0
2173.7	42.5°	1915.0	1208.7	981.7	809.7	756.3	744.6	704.5	709.6	724.6	749.6
2011.8	45°	1793.1	1168.7	899.9	756.3	696.2	684.5	647.8	657.8	674.5	699.5
1873.2	47.5°	1667.9	1152.0	831.4	699.5	634.4	624.4	594.4	611.1	629.4	649.5
1754.7	50°	1547.7	1130.3	761.3	646.1	581.0	571.0	550.9	572.7	591.0	609.4
1669.5	52.5°	1410.8	1083.5	697.9	599.4	535.9	532.6	522.6	542.6	559.3	576.0
1596.1	55°	1268.8	1008.4	642.8	557.6	497.5	500.9	495.9	512.5	525.9	540.9
1529.3	57.5°	1145.3	913.2	599.4	512.5	464.1	474.1	467.5	475.8	484.2	502.5
1449.2	60°	1020.1	799.7	550.9	459.1	430.7	442.4	424.1	422.4	425.7	430.7
1330.6	62.5°	851.5	681.2	490.8	412.4	394.0	399.0	364.0	337.2	337.2	342.3
1165.3	65°	684.5	571.0	424.1	359.0	343.9	340.6	290.5	253.8	250.4	265.5
973.3	67.5°	562.6	474.1	357.3	298.8	288.8	292.2	255.4	218.7	215.4	232.1
793.0	70°	465.8	382.3	285.5	230.4	240.4	255.4	218.7	183.6	178.6	193.7
644.4	72.5°	370.6	298.8	218.7	170.3	198.7	217.0	178.6	145.2	141.9	155.3
497.5	75°	272.1	213.7	148.6	123.5	153.6	170.3	130.2	103.5	98.5	110.2
332.2	77.5°	168.6	120.2	93.5	73.5	105.2	113.5	68.5	60.1	58.4	66.8
202.0	80°	78.5	51.8	45.1	25.0	38.4	45.1	28.4	31.7	33.4	40.1
101.8	82.5°	21.7	8.3	1.7	0.0	0.0	13.4	6.7	13.4	16.7	25.0
8.3	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	8.3	15.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7
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°
3355.8	0°	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8	3355.8
3041.9	2.5°	3112.0	3178.8	3285.7	3395.8	3504.4	3614.6	3721.4	3759.8
2691.3	5°	2823.2	2976.8	3188.8	3415.9	3649.6	3886.7	4103.7	4202.2
2329.0	7.5°	2501.0	2721.3	3040.2	3395.8	3768.1	4140.5	4482.7	4641.3
1970.1	10°	2157.0	2435.9	2799.8	3280.6	3814.9	4329.1	4799.9	5005.3
1654.5	12.5°	1829.8	2122.0	2524.3	3100.3	3778.2	4437.6	5003.6	5245.7
1432.5	15°	1556.0	1814.8	2248.9	2886.6	3659.6	4444.3	5100.4	5365.9
1308.9	17.5°	1350.7	1519.3	1968.4	2649.6	3504.4	4382.5	5133.8	5417.7
1242.1	20°	1248.8	1295.6	1604.4	2345.7	3359.1	4324.1	5167.2	5466.1
1188.7	22.5°	1188.7	1200.4	1312.3	1953.4	3185.5	4305.7	5225.7	5532.9
1140.3	25°	1140.3	1143.6	1173.7	1547.7	2920.0	4294.1	5315.8	5624.7
1090.2	27.5°	1091.9	1091.9	1108.6	1247.1	2559.4	4244.0	5432.7	5734.9
1040.1	30°	1043.5	1043.5	1055.1	1103.6	2137.0	4145.5	5572.9	5878.4
990.0	32.5°	993.4	993.4	1003.4	1038.5	1706.3	4021.9	5701.5	6023.7
938.3	35°	943.3	940.0	953.3	990.0	1357.3	3865.0	5830.0	6180.6
886.5	37.5°	889.9	888.2	901.6	943.3	1172.0	3683.0	5926.9	6394.3
834.8	40°	833.1	833.1	848.1	893.2	1118.6	3454.3	6080.5	6701.5
781.3	42.5°	781.3	778.0	794.7	849.8	1078.5	3235.6	6355.9	7149.0
732.9	45°	731.3	724.6	739.6	808.1	1008.4	3158.8	6870.2	7810.1
686.2	47.5°	684.5	667.8	681.2	758.0	945.0	3445.9	7711.6	8726.7
644.4	50°	646.1	614.4	626.1	707.9	896.5	4068.7	8803.5	9943.8
606.0	52.5°	606.0	564.3	571.0	646.1	853.1	4661.4	9987.2	11549.9
567.6	55°	564.3	517.6	520.9	584.3	791.4	4749.8	11142.5	13740.3
524.2	57.5°	517.6	474.1	474.1	527.6	746.3	4117.1	12030.7	16458.3
470.8	60°	465.8	437.4	429.1	482.5	786.4	2905.0	12134.2	18211.3
402.4	62.5°	409.0	394.0	382.3	439.1	816.4	1721.3	11301.1	17787.3
317.2	65°	343.9	340.6	332.2	482.5	687.8	1016.7	9701.7	16486.7
270.5	67.5°	288.8	283.8	283.8	505.9	522.6	639.4	7579.7	14696.9
230.4	70°	248.8	230.4	230.4	382.3	317.2	442.4	5292.4	12765.3
190.3	72.5°	208.7	188.7	175.3	305.5	237.1	323.9	3307.4	10932.1
145.2	75°	167.0	151.9	135.2	202.0	177.0	245.4	1921.6	9057.2
91.8	77.5°	120.2	113.5	95.2	148.6	128.6	177.0	1143.6	6988.7
56.8	80°	61.8	63.4	60.1	85.1	86.8	120.2	651.1	4783.2
36.7	82.5°	36.7	28.4	31.7	41.7	50.1	68.5	245.4	2811.5
26.7	85°	23.4	15.0	15.0	20.0	25.0	26.7	75.1	1140.3
13.4	87.5°	11.7	5.0	6.7	10.0	8.3	6.7	3.3	287.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)