

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: P954898

Luminaire Tested: **GALN-SB8A-735-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954898  
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-735-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

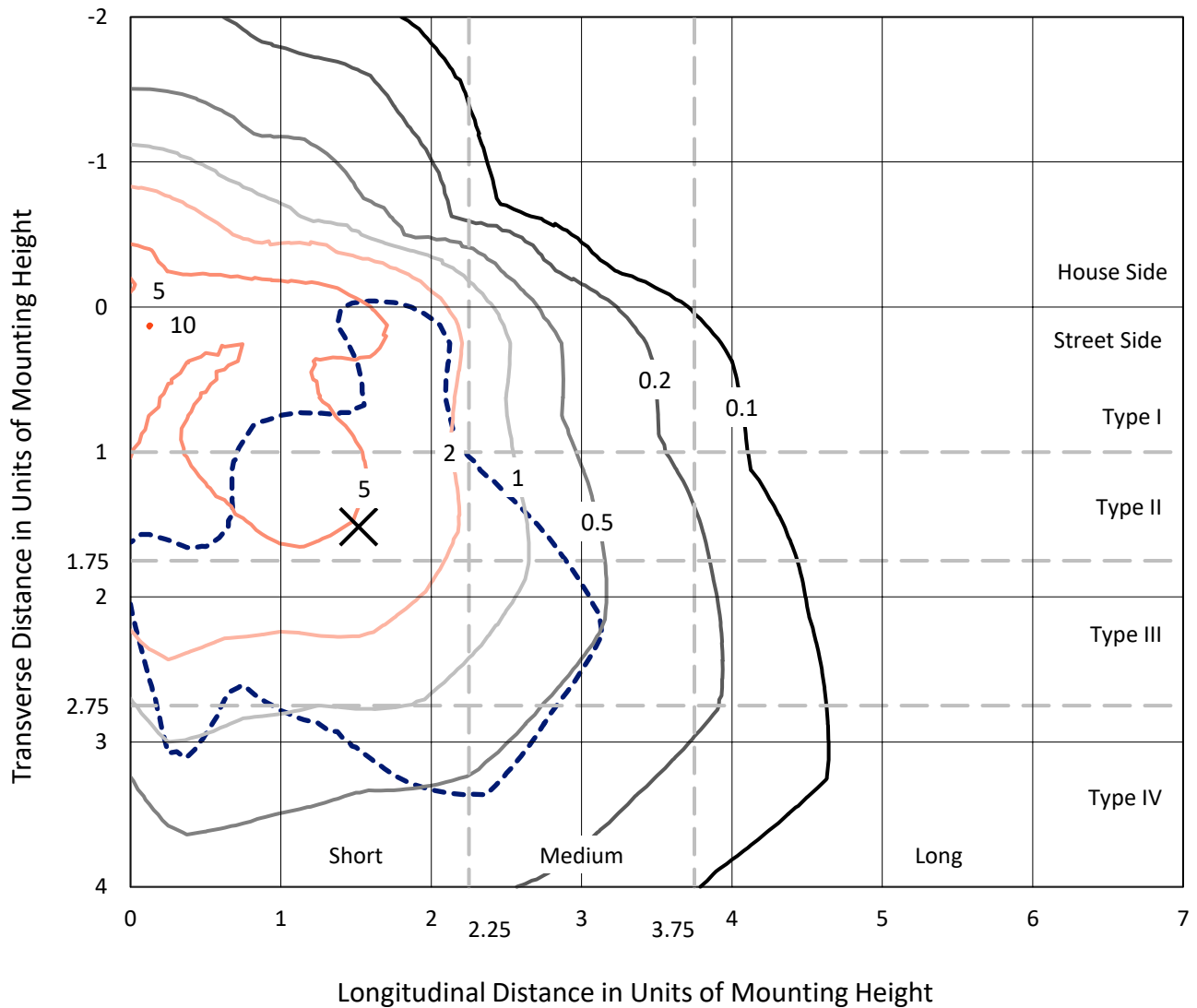
Lumens per Lamp: N/A  
Luminaire Lumens: 27683 lumens  
Efficiency: N/A  
Efficacy: 121.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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

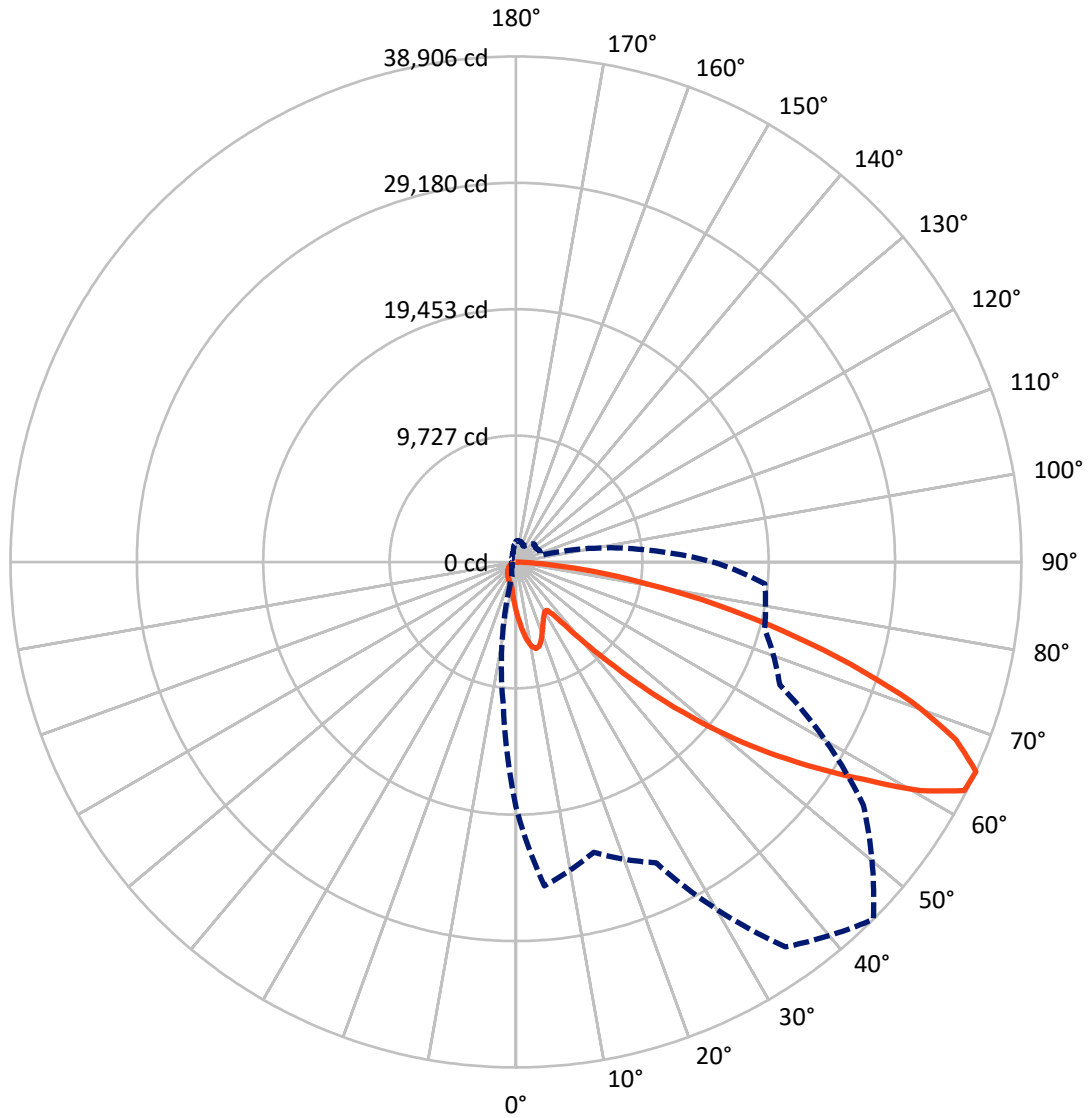
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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	5502.5	0.0	5502.5
	% Fixture	19.9	0.0	19.9
<b>Street Side</b>	Lumens	22180.5	0.0	22180.5
	% Fixture	80.1	0.0	80.1
<b>Total</b>	Lumens	27683.0	0.0	27683.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	377.4	1.4
10°-20°	1131.3	4.1
20°-30°	1666.7	6.0
30°-40°	2141.2	7.7
40°-50°	3462.9	12.5
50°-60°	6072.6	21.9
60°-70°	7598.5	27.4
70°-80°	4440.2	16.0
80°-90°	792.2	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°	27683.0	100.0
0°-180°	27683.0	100.0

**Coefficient of Utilization**



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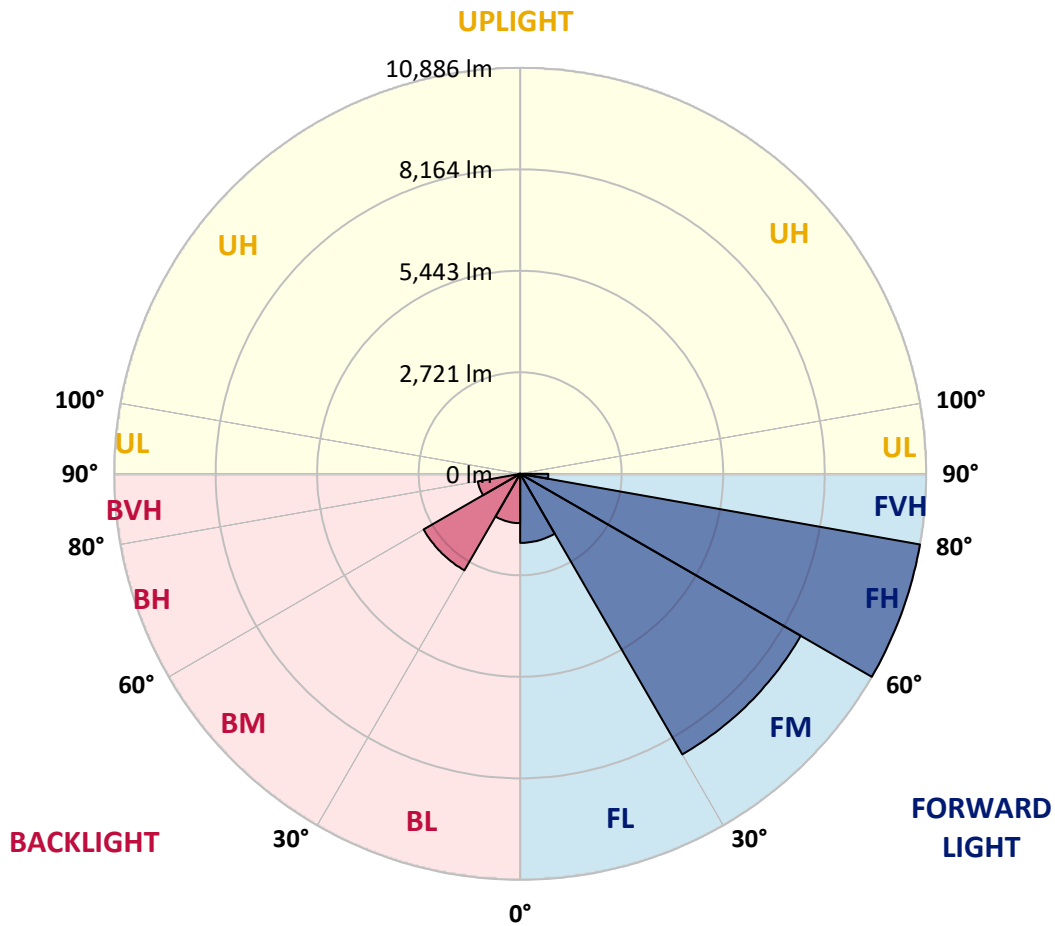
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1852.3	6.7			
FM (30°-60°)	8687.3	31.4			
FH (60°-80°)	10885.8	39.3			G4/12000
FVH (80°-90°)	755.1	2.7			G5
BL (0°-30°)	1323.0	4.8	B3/2500		
BM (30°-60°)	2989.5	10.8	B3/5000		
BH (60°-80°)	1152.9	4.2	B3/2500		G3/2500
BVH (80°-90°)	37.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3833.2	3833.2	3833.2	3833.2	3833.2	3833.2	3833.2	3833.2	3833.2	3833.2
2.5°	4294.7	4327.1	4399.6	4437.8	4496.9	4500.7	4500.7	4449.2	4447.3	4342.4
5°	4800.1	4876.4	5048.0	5225.4	5263.5	5273.0	5254.0	5151.0	5074.7	4870.7
7.5°	5301.7	5448.5	5709.8	5946.2	6022.5	6022.5	5976.8	5808.9	5652.6	5357.0
10°	5717.4	5902.4	6257.1	6522.2	6609.9	6590.8	6497.4	6285.7	6070.2	5711.7
12.5°	5992.0	6199.9	6588.9	6802.5	6892.1	6842.6	6735.8	6529.8	6302.9	5925.3
15°	6129.3	6346.7	6684.3	6796.8	6772.0	6720.5	6707.2	6608.0	6436.4	6083.6
17.5°	6188.4	6390.6	6625.2	6554.6	6344.8	6304.8	6438.3	6564.1	6522.2	6220.9
20°	6243.7	6413.5	6484.0	6171.3	5805.1	5768.9	6024.4	6383.0	6566.0	6348.6
22.5°	6320.0	6424.9	6280.0	5767.0	5372.2	5288.3	5570.6	6110.3	6579.4	6510.7
25°	6424.9	6453.5	6054.9	5383.7	4987.0	4903.1	5166.3	5807.0	6556.5	6686.2
27.5°	6550.8	6491.7	5839.4	5063.3	4679.9	4601.8	4864.9	5515.2	6491.7	6861.6
30°	6714.8	6541.2	5625.9	4815.4	4460.6	4403.4	4657.1	5263.5	6411.6	7084.8
32.5°	6880.7	6562.2	5427.5	4670.4	4411.1	4432.0	4639.9	5128.1	6323.8	7298.4
35°	7060.0	6629.0	5330.3	4813.4	4824.9	5008.0	5093.8	5254.0	6310.5	7588.2
37.5°	7304.1	6777.7	5446.6	5524.8	5921.5	6301.0	6230.4	5870.0	6465.0	8021.1
40°	7655.0	7039.0	5953.9	6735.8	7550.1	8166.1	7897.2	6989.4	6937.9	8644.7
42.5°	8166.1	7454.7	6854.0	8215.7	9596.4	10610.9	9890.1	8433.1	7765.6	9535.3
45°	8921.3	8127.9	7942.9	9777.5	12119.4	13717.6	12218.6	9972.1	8925.1	10883.6
47.5°	9968.3	9117.7	8963.2	11423.3	15186.0	17253.3	14800.8	11398.6	10244.8	12722.1
50°	11358.5	10450.7	9930.1	13223.6	18548.2	20857.6	17381.0	12775.5	11757.1	14968.6
52.5°	13193.1	12310.1	11057.2	14938.1	22005.7	24385.7	19972.7	13984.5	13633.6	17575.6
55°	15695.2	15107.8	12598.1	16574.3	25461.3	27934.8	22463.4	15125.0	16112.8	20672.6
57.5°	18799.9	19219.4	14819.8	18471.9	28567.9	31592.5	24965.4	16719.3	19332.0	24135.9
60°	20802.3	24687.0	19074.5	21277.2	32097.9	35728.9	28394.4	19751.5	22715.1	25377.4
62.5°	20317.9	26426.3	24170.2	24858.7	35343.7	38736.4	31754.6	22797.1	23352.1	23548.5
65°	18832.3	25022.7	23130.8	25554.7	36165.7	38906.1	32652.8	22404.3	19808.7	19225.2
67.5°	16787.9	23357.8	20661.2	23708.7	34680.1	36533.7	30980.3	19818.3	15308.0	14427.0
70°	14581.5	21515.6	19040.2	21637.6	31848.1	32399.2	28136.9	17430.6	11259.3	9743.2
72.5°	12487.5	19597.0	17930.3	19515.0	28070.2	26929.7	24435.3	15319.5	8198.5	7027.6
75°	10345.9	16767.0	16349.3	16993.9	23102.2	21212.3	20302.7	12683.9	6434.5	5084.2
77.5°	7983.0	13101.6	14062.7	13608.8	16261.6	15756.2	15737.1	9531.5	4700.9	3392.7
80°	5463.8	9131.0	10986.6	9600.2	10553.7	10296.3	11852.4	6394.4	3409.8	2042.5
82.5°	3211.5	5559.1	7647.3	4647.5	5835.6	5990.1	7058.1	3110.4	2006.2	471.0
85°	1302.5	2195.0	2990.3	1819.3	2814.8	2374.3	2679.4	873.4	558.8	11.4
87.5°	328.0	701.8	492.0	204.1	326.1	299.4	236.5	106.8	22.9	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°
3833.2	0°	3833.2	3833.2	3833.2	3833.2	3833.2	3833.2	3833.2	3833.2	3833.2	3833.2
4331.0	2.5°	4256.6	4212.7	4104.0	3995.3	3907.6	3789.3	3711.2	3617.7	3528.1	3448.0
4826.8	5°	4706.6	4561.7	4363.4	4182.2	3997.2	3818.0	3640.6	3453.7	3282.1	3177.2
5246.3	7.5°	5072.8	4817.3	4554.1	4323.3	4100.2	3890.4	3655.9	3428.9	3160.0	3017.0
5566.7	10°	5345.5	5009.9	4664.7	4399.6	4174.6	3970.5	3772.2	3543.3	3219.1	3039.9
5761.3	12.5°	5524.8	5126.2	4721.9	4418.7	4166.9	4008.7	3920.9	3831.3	3509.0	3299.2
5904.3	15°	5648.7	5208.2	4762.0	4374.8	4065.9	3949.5	4037.3	4140.2	3934.3	3692.1
6053.0	17.5°	5784.1	5315.0	4779.1	4256.6	3869.4	3819.9	4046.8	4285.2	4275.6	4035.4
6194.2	20°	5927.2	5408.4	4767.7	4065.9	3631.1	3674.9	3964.8	4241.3	4357.7	4228.0
6356.3	22.5°	6074.0	5498.1	4723.8	3818.0	3407.9	3545.2	3835.1	4077.3	4214.6	4174.6
6554.6	25°	6259.0	5623.9	4659.0	3551.0	3222.9	3413.7	3684.5	3880.9	3976.2	3974.3
6768.2	27.5°	6480.2	5791.8	4624.6	3335.5	3091.4	3264.9	3505.2	3680.6	3747.4	3747.4
7033.3	30°	6737.7	5990.1	4586.5	3194.3	3015.1	3110.4	3297.3	3469.0	3535.7	3535.7
7323.1	32.5°	7023.7	6180.8	4495.0	3108.5	2957.9	2959.8	3078.0	3234.4	3314.5	3325.9
7685.5	35°	7367.0	6384.9	4294.7	3039.9	2891.1	2812.9	2870.1	2999.8	3095.2	3120.0
8202.3	37.5°	7817.1	6634.7	4008.7	2938.8	2788.1	2658.5	2671.8	2771.0	2875.9	2914.0
8915.5	40°	8421.6	6928.4	3711.2	2793.9	2643.2	2488.7	2483.0	2555.5	2658.5	2700.4
9880.5	42.5°	9220.7	7281.2	3427.0	2654.6	2467.7	2309.5	2299.9	2357.1	2446.8	2490.6
11154.4	45°	10242.9	7714.1	3182.9	2545.9	2296.1	2139.7	2135.9	2183.6	2261.8	2307.6
12785.0	47.5°	11663.6	8147.0	3017.0	2488.7	2160.7	2000.5	2008.1	2050.1	2120.7	2153.1
14896.1	50°	13515.4	8278.6	2933.1	2488.7	2088.2	1876.6	1914.7	1949.0	2002.4	2021.5
17426.8	52.5°	15292.8	7843.8	2856.8	2504.0	2097.8	1771.7	1853.7	1878.5	1924.2	1931.9
19772.5	55°	16164.3	6743.4	2751.9	2507.8	2156.9	1682.0	1804.1	1849.9	1867.0	1865.1
21134.1	57.5°	15864.9	5452.3	2574.5	2492.5	2196.9	1624.8	1743.1	1830.8	1842.2	1825.1
20874.8	60°	14814.1	4014.4	2439.1	2380.0	2181.7	1607.7	1649.6	1788.8	1806.0	1783.1
18876.2	62.5°	13052.0	2786.2	2334.3	2132.1	2114.9	1601.9	1502.8	1697.3	1739.2	1706.8
15172.6	65°	10275.3	1968.1	2010.1	1868.9	1970.0	1571.4	1350.2	1586.7	1643.9	1594.3
11007.6	67.5°	6953.2	1420.8	1628.6	1693.5	1735.4	1502.8	1239.6	1460.8	1537.1	1472.3
7063.8	70°	3755.0	997.4	1075.6	1426.5	1474.2	1384.5	1140.4	1333.0	1420.8	1350.2
5021.3	72.5°	2217.9	717.1	753.3	1146.1	1228.2	1218.6	1029.8	1184.3	1291.1	1207.2
3465.1	75°	1222.4	484.4	537.8	831.5	997.4	940.2	884.9	1003.1	1111.8	1029.8
2172.2	77.5°	547.3	289.9	373.8	545.4	783.8	644.6	684.6	781.9	883.0	797.2
1209.1	80°	211.7	162.1	247.9	297.5	570.2	356.6	440.5	575.9	648.4	579.7
263.2	82.5°	26.7	72.5	106.8	116.3	331.8	188.8	255.5	362.3	356.6	308.9
0.0	85°	0.0	13.3	15.3	7.6	143.0	68.7	83.9	118.2	110.6	83.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	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°
3833.2	0°	3833.2	3833.2	3833.2	3833.2	3833.2	3833.2	3833.2	3833.2	3833.2	3833.2
3432.7	2.5°	3339.3	3270.6	3236.3	3207.7	3234.4	3249.6	3249.6	3314.5	3352.6	3367.9
3110.4	5°	2942.6	2814.8	2729.0	2677.5	2694.7	2713.8	2734.7	2816.7	2872.0	2908.3
2887.3	7.5°	2629.8	2435.3	2315.2	2252.2	2261.8	2275.1	2292.3	2372.4	2427.7	2475.4
2845.3	10°	2475.4	2200.8	2042.5	1966.2	1952.8	1945.2	1939.5	1987.2	2029.1	2067.3
3017.0	12.5°	2483.0	2099.7	1907.1	1813.6	1773.6	1727.8	1691.6	1699.2	1725.9	1773.6
3324.0	15°	2580.3	2067.3	1836.5	1720.2	1653.4	1600.0	1556.2	1546.6	1556.2	1563.8
3674.9	17.5°	2711.9	2063.4	1775.5	1630.5	1561.9	1518.0	1478.0	1464.6	1466.5	1476.1
3907.6	20°	2816.7	2052.0	1706.8	1544.7	1483.7	1445.6	1405.5	1392.2	1396.0	1397.9
3930.5	22.5°	2872.0	2034.8	1630.5	1458.9	1407.4	1369.3	1333.0	1331.1	1331.1	1342.6
3806.5	25°	2872.0	1998.6	1561.9	1376.9	1331.1	1296.8	1252.9	1260.6	1264.4	1279.6
3613.9	27.5°	2803.4	1930.0	1506.6	1306.3	1258.7	1224.3	1184.3	1193.8	1199.5	1216.7
3423.2	30°	2715.7	1848.0	1443.7	1239.6	1184.3	1159.5	1125.2	1129.0	1136.6	1155.7
3245.8	32.5°	2622.2	1750.7	1392.2	1172.8	1117.5	1098.5	1060.3	1066.1	1073.7	1094.7
3070.4	35°	2519.2	1636.3	1331.1	1111.8	1056.5	1041.3	997.4	1001.2	1012.7	1035.5
2881.6	37.5°	2410.5	1542.8	1270.1	1052.7	995.5	980.2	934.5	938.3	951.6	978.3
2683.2	40°	2303.7	1451.3	1205.3	989.8	932.6	919.2	869.6	873.4	888.7	917.3
2483.0	42.5°	2187.4	1380.7	1121.4	924.9	863.9	850.6	804.8	810.5	827.7	856.3
2298.0	45°	2048.2	1334.9	1027.9	863.9	795.2	781.9	739.9	751.4	770.5	799.1
2139.7	47.5°	1905.2	1315.9	949.7	799.1	724.7	713.2	678.9	698.0	719.0	741.9
2004.3	50°	1767.9	1291.1	869.6	738.0	663.7	652.2	629.3	654.1	675.1	696.1
1907.1	52.5°	1611.5	1237.7	797.2	684.6	612.2	608.4	596.9	619.8	638.9	657.9
1823.2	55°	1449.4	1151.9	734.2	637.0	568.3	572.1	566.4	585.5	600.7	617.9
1746.9	57.5°	1308.2	1043.2	684.6	585.5	530.2	541.6	534.0	543.5	553.1	574.0
1655.3	60°	1165.2	913.5	629.3	524.4	492.0	505.4	484.4	482.5	486.3	492.0
1519.9	62.5°	972.6	778.1	560.7	471.0	450.1	455.8	415.7	385.2	385.2	390.9
1331.1	65°	781.9	652.2	484.4	410.0	392.9	389.0	331.8	289.9	286.1	303.2
1111.8	67.5°	642.7	541.6	408.1	341.4	329.9	333.7	291.8	249.8	246.0	265.1
905.9	70°	532.1	436.7	326.1	263.2	274.6	291.8	249.8	209.8	204.1	221.2
736.1	72.5°	423.4	341.4	249.8	194.5	226.9	247.9	204.1	165.9	162.1	177.4
568.3	75°	310.9	244.1	169.7	141.1	175.5	194.5	148.8	118.2	112.5	125.9
379.5	77.5°	192.6	137.3	106.8	83.9	120.1	129.7	78.2	68.7	66.7	76.3
230.8	80°	89.6	59.1	51.5	28.6	43.9	51.5	32.4	36.2	38.1	45.8
116.3	82.5°	24.8	9.5	1.9	0.0	0.0	15.3	7.6	15.3	19.1	28.6
9.5	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	9.5	17.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6
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°
3833.2	0°	3833.2	3833.2	3833.2	3833.2	3833.2	3833.2	3833.2	3833.2
3474.7	2.5°	3554.8	3631.1	3753.1	3879.0	4002.9	4128.8	4250.9	4294.7
3074.2	5°	3224.9	3400.3	3642.5	3901.9	4168.9	4439.7	4687.6	4800.1
2660.4	7.5°	2856.8	3108.5	3472.8	3879.0	4304.3	4729.5	5120.5	5301.7
2250.3	10°	2463.9	2782.4	3198.2	3747.4	4357.7	4945.0	5482.8	5717.4
1889.9	12.5°	2090.1	2423.9	2883.5	3541.4	4315.7	5069.0	5715.5	5992.0
1636.3	15°	1777.4	2073.0	2568.8	3297.3	4180.3	5076.6	5826.1	6129.3
1495.1	17.5°	1542.8	1735.4	2248.4	3026.5	4002.9	5006.1	5864.2	6188.4
1418.9	20°	1426.5	1479.9	1832.7	2679.4	3837.0	4939.3	5902.4	6243.7
1357.8	22.5°	1357.8	1371.2	1499.0	2231.3	3638.7	4918.3	5969.1	6320.0
1302.5	25°	1302.5	1306.3	1340.7	1767.9	3335.5	4905.0	6072.1	6424.9
1245.3	27.5°	1247.2	1247.2	1266.3	1424.6	2923.5	4847.8	6205.6	6550.8
1188.1	30°	1191.9	1191.9	1205.3	1260.6	2441.0	4735.3	6365.8	6714.8
1130.9	32.5°	1134.7	1134.7	1146.1	1186.2	1949.0	4594.1	6512.6	6880.7
1071.8	35°	1077.5	1073.7	1088.9	1130.9	1550.4	4414.9	6659.5	7060.0
1012.7	37.5°	1016.5	1014.6	1029.8	1077.5	1338.8	4207.0	6770.1	7304.1
953.5	40°	951.6	951.6	968.8	1020.3	1277.7	3945.7	6945.5	7655.0
892.5	42.5°	892.5	888.7	907.8	970.7	1232.0	3695.9	7260.2	8166.1
837.2	45°	835.3	827.7	844.8	923.0	1151.9	3608.2	7847.6	8921.3
783.8	47.5°	781.9	762.8	778.1	865.8	1079.4	3936.2	8808.8	9968.3
736.1	50°	738.0	701.8	715.2	808.6	1024.1	4647.5	10056.0	11358.5
692.3	52.5°	692.3	644.6	652.2	738.0	974.5	5324.5	11408.1	13193.1
648.4	55°	644.6	591.2	595.0	667.5	904.0	5425.6	12727.8	15695.2
598.8	57.5°	591.2	541.6	541.6	602.6	852.5	4702.8	13742.3	18799.9
537.8	60°	532.1	499.7	490.1	551.1	898.2	3318.3	13860.6	20802.3
459.6	62.5°	467.2	450.1	436.7	501.6	932.6	1966.2	12909.0	20317.9
362.3	65°	392.9	389.0	379.5	551.1	785.7	1161.4	11082.0	18832.3
308.9	67.5°	329.9	324.2	324.2	577.8	596.9	730.4	8658.1	16787.9
263.2	70°	284.2	263.2	263.2	436.7	362.3	505.4	6045.4	14581.5
217.4	72.5°	238.4	215.5	200.2	349.0	270.8	370.0	3777.9	12487.5
165.9	75°	190.7	173.5	154.5	230.8	202.1	280.3	2195.0	10345.9
104.9	77.5°	137.3	129.7	108.7	169.7	146.8	202.1	1306.3	7983.0
64.8	80°	70.6	72.5	68.7	97.3	99.2	137.3	743.8	5463.8
42.0	82.5°	42.0	32.4	36.2	47.7	57.2	78.2	280.3	3211.5
30.5	85°	26.7	17.2	17.2	22.9	28.6	30.5	85.8	1302.5
15.3	87.5°	13.3	5.7	7.6	11.4	9.5	7.6	3.8	328.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)