

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: P957546

Luminaire Tested: **GALN-SB9D-840-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957546  
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-SB9D-840-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

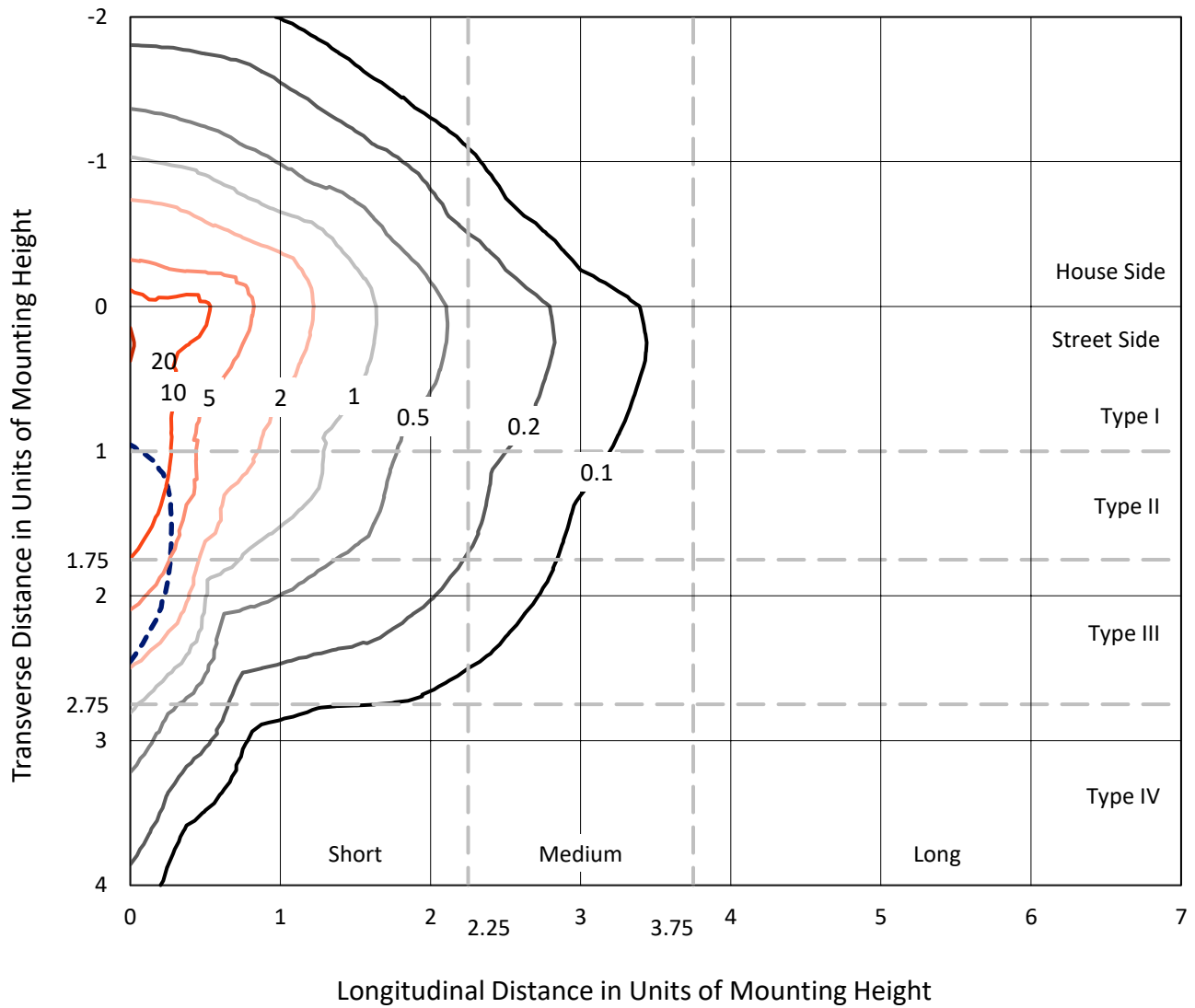
Lumens per Lamp: N/A  
Luminaire Lumens: 67662 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

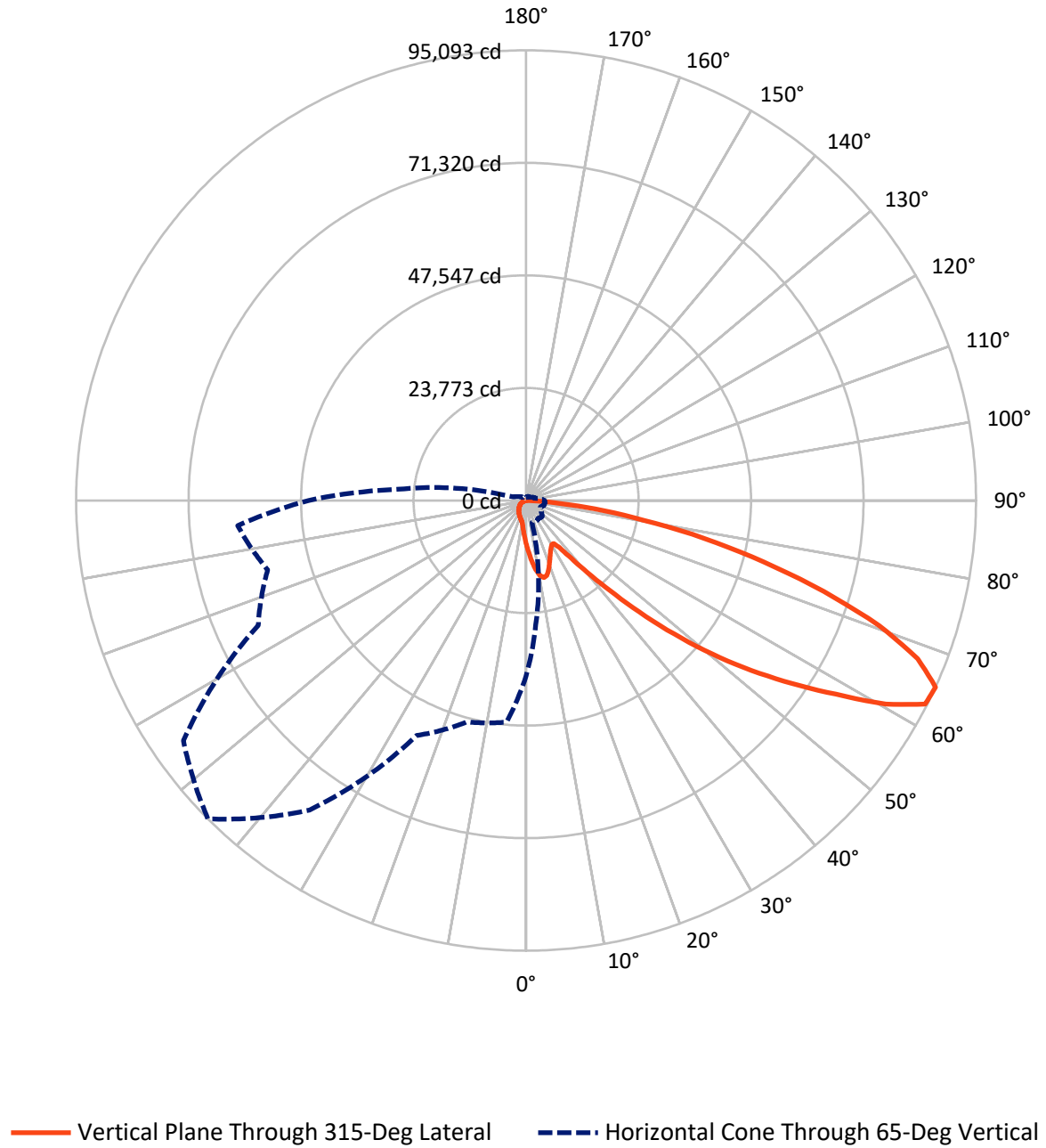
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.9 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	9475.6	0.0	9475.6
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	58186.4	0.0	58186.4
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	67662.0	0.0	67662.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	922.4	1.4
10°-20°	2765.1	4.1
20°-30°	4073.6	6.0
30°-40°	5233.4	7.7
40°-50°	8464.0	12.5
50°-60°	14842.5	21.9
60°-70°	18572.0	27.4
70°-80°	10852.6	16.0
80°-90°	1936.3	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°	67662.0	100.0
0°-180°	67662.0	100.0

**Coefficient of Utilization**



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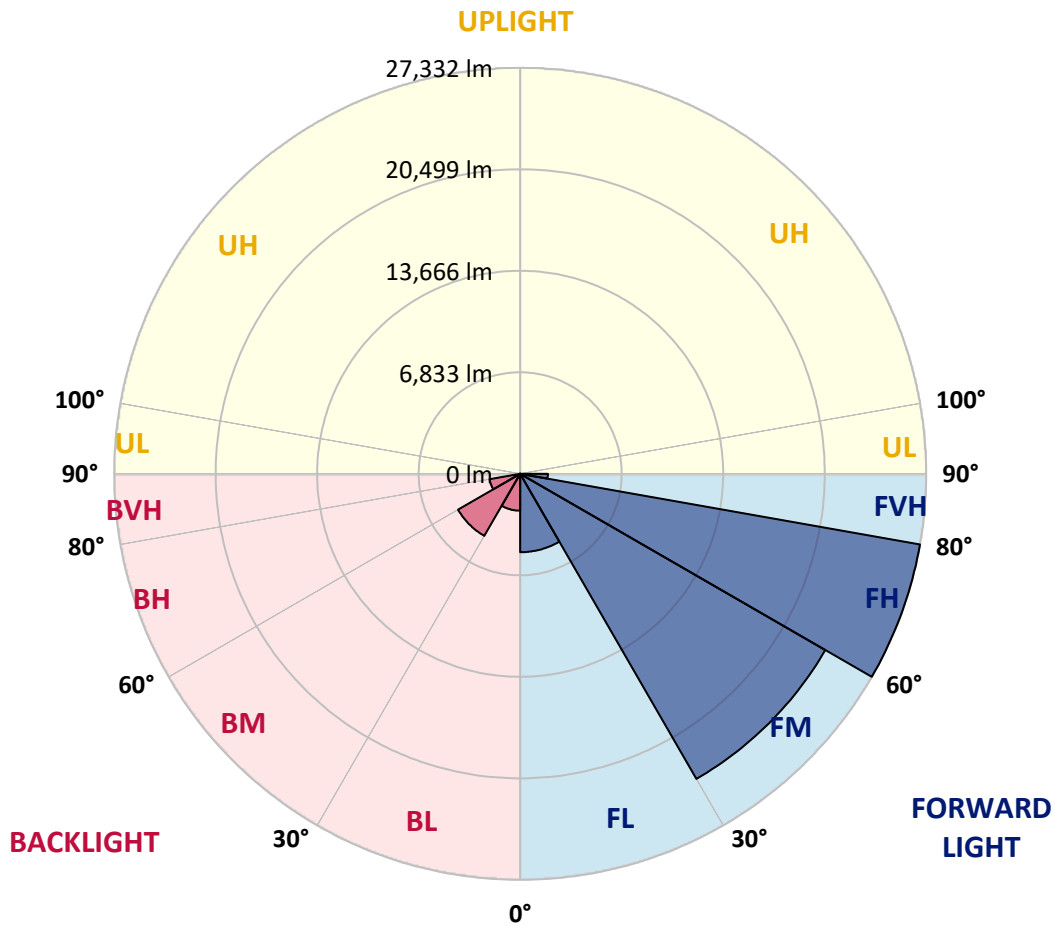
CATALOG NUMBER: GALN-SB9D-840-U-SLR-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5277.4	7.8			
FM (30°-60°)	23714.8	35.0			
FH (60°-80°)	27332.4	40.4			G5
FVH (80°-90°)	1861.9	2.8			G5
BL (0°-30°)	2483.7	3.7	B3/2500		
BM (30°-60°)	4825.2	7.1	B3/5000		
BH (60°-80°)	2092.3	3.1	B3/2500		G3/2500
BVH (80°-90°)	74.4	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°	9369.0	9369.0	9369.0	9369.0	9369.0	9369.0	9369.0	9369.0	9369.0	9369.0
2.5°	10585.6	10403.8	10296.6	10030.9	9765.2	9550.8	9261.8	9070.7	8842.3	8623.2
5°	11797.5	11503.9	11149.6	10664.8	10222.0	9769.9	9331.7	8898.2	8441.4	8021.9
7.5°	12823.0	12398.8	11774.2	11131.0	10567.0	10021.6	9508.9	8935.5	8380.8	7723.6
10°	13606.1	13065.4	12245.0	11401.3	10753.4	10203.4	9704.6	9219.9	8660.5	7868.1
12.5°	14081.5	13503.5	12529.3	11541.1	10800.0	10184.7	9797.9	9583.4	9364.4	8576.6
15°	14431.1	13806.5	12729.8	11639.0	10692.8	9937.7	9653.4	9867.8	10119.5	9616.1
17.5°	14794.7	14137.4	12990.8	11681.0	10403.8	9457.6	9336.4	9891.1	10473.7	10450.4
20°	15139.6	14487.0	13219.2	11653.0	9937.7	8874.9	8982.1	9690.6	10366.5	10650.9
22.5°	15535.8	14845.9	13438.3	11545.8	9331.7	8329.6	8665.2	9373.7	9965.7	10301.3
25°	16020.6	15298.1	13745.9	11387.3	8679.2	7877.4	8343.6	9005.4	9485.6	9718.6
27.5°	16542.6	15838.8	14156.1	11303.4	8152.4	7555.8	7980.0	8567.3	8996.1	9159.3
30°	17190.5	16468.0	14640.8	11210.2	7807.5	7369.4	7602.4	8059.2	8478.7	8641.9
32.5°	17899.0	17167.2	15107.0	10986.5	7597.8	7229.5	7234.2	7523.2	7905.4	8101.2
35°	18784.7	18006.2	15605.7	10497.0	7430.0	7066.4	6875.3	7015.1	7332.1	7565.1
37.5°	20047.8	19106.3	16216.3	9797.9	7182.9	6814.7	6497.7	6530.3	6772.7	7029.1
40°	21791.1	20583.9	16934.2	9070.7	6828.7	6460.4	6082.9	6068.9	6246.0	6497.7
42.5°	24149.7	22536.9	17796.5	8376.2	6488.4	6031.6	5644.7	5621.4	5761.2	5980.3
45°	27263.4	25035.3	18854.6	7779.6	6222.7	5612.1	5229.9	5220.5	5337.1	5528.2
47.5°	31248.7	28507.9	19912.7	7374.0	6082.9	5281.1	4889.6	4908.2	5010.8	5183.3
50°	36408.7	33034.0	20234.3	7168.9	6082.9	5104.0	4586.6	4679.8	4763.8	4894.3
52.5°	42594.1	37378.2	19171.5	6982.5	6120.2	5127.3	4330.3	4530.7	4591.3	4703.2
55°	48327.4	39508.4	16482.0	6726.1	6129.5	5271.8	4111.2	4409.5	4521.4	4563.3
57.5°	51655.5	38776.6	13326.4	6292.6	6092.2	5369.7	3971.3	4260.3	4474.8	4502.7
60°	51021.5	36208.2	9811.8	5961.7	5817.2	5332.4	3929.4	4031.9	4372.2	4414.2
62.5°	46136.6	31901.3	6810.0	5705.3	5211.2	5169.3	3915.4	3673.0	4148.5	4251.0
65°	37084.5	25114.6	4810.4	4912.9	4568.0	4815.0	3840.8	3300.1	3878.1	4018.0
67.5°	26904.5	16994.8	3472.6	3980.7	4139.2	4241.7	3673.0	3029.8	3570.5	3756.9
70°	17265.1	9177.9	2437.8	2628.9	3486.6	3603.1	3384.0	2787.4	3258.2	3472.6
72.5°	12273.0	5421.0	1752.6	1841.2	2801.4	3001.8	2978.5	2517.1	2894.6	3155.6
75°	8469.4	2987.8	1183.9	1314.5	2032.3	2437.8	2298.0	2162.8	2451.8	2717.5
77.5°	5309.1	1337.8	708.5	913.6	1333.1	1915.8	1575.5	1673.4	1911.1	2158.1
80°	2955.2	517.4	396.2	606.0	727.1	1393.7	871.6	1076.7	1407.7	1584.8
82.5°	643.2	65.3	177.1	261.0	284.3	811.0	461.5	624.6	885.6	871.6
85°	0.0	0.0	32.6	37.3	18.6	349.6	167.8	205.1	289.0	270.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3
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°
9369.0	0°	9369.0	9369.0	9369.0	9369.0	9369.0	9369.0	9369.0	9369.0	9369.0	9369.0
8427.5	2.5°	8390.2	8161.8	7994.0	7910.1	7840.1	7905.4	7942.7	7942.7	8101.2	8194.4
7765.6	5°	7602.4	7192.2	6879.9	6670.2	6544.3	6586.3	6632.9	6684.2	6884.6	7019.8
7374.0	7.5°	7057.1	6427.8	5952.4	5658.7	5504.9	5528.2	5560.8	5602.8	5798.5	5933.7
7430.0	10°	6954.5	6050.2	5379.0	4992.2	4805.7	4773.1	4754.4	4740.4	4857.0	4959.5
8063.9	12.5°	7374.0	6068.9	5132.0	4661.2	4432.8	4334.9	4223.1	4134.5	4153.1	4218.4
9024.1	15°	8124.5	6306.6	5052.7	4488.7	4204.4	4041.3	3910.8	3803.5	3780.2	3803.5
9863.1	17.5°	8982.1	6628.2	5043.4	4339.6	3985.3	3817.5	3710.3	3612.4	3579.8	3584.5
10333.9	20°	9550.8	6884.6	5015.5	4171.8	3775.6	3626.4	3533.2	3435.3	3402.7	3412.0
10203.4	22.5°	9606.7	7019.8	4973.5	3985.3	3565.8	3440.0	3346.7	3258.2	3253.5	3253.5
9714.0	25°	9303.8	7019.8	4884.9	3817.5	3365.4	3253.5	3169.6	3062.4	3081.1	3090.4
9159.3	27.5°	8833.0	6852.0	4717.1	3682.4	3192.9	3076.4	2992.5	2894.6	2917.9	2931.9
8641.9	30°	8366.9	6637.6	4516.7	3528.5	3029.8	2894.6	2834.0	2750.1	2759.4	2778.1
8129.1	32.5°	7933.4	6409.2	4279.0	3402.7	2866.6	2731.5	2684.9	2591.6	2605.6	2624.3
7625.7	35°	7504.5	6157.5	3999.3	3253.5	2717.5	2582.3	2545.0	2437.8	2447.1	2475.1
7122.3	37.5°	7043.1	5891.8	3770.9	3104.4	2573.0	2433.1	2395.9	2284.0	2293.3	2325.9
6600.3	40°	6558.3	5630.7	3547.2	2945.9	2419.2	2279.3	2246.7	2125.5	2134.8	2172.1
6087.5	42.5°	6068.9	5346.4	3374.7	2740.8	2260.7	2111.5	2078.9	1967.0	1981.0	2023.0
5640.1	45°	5616.8	5006.1	3262.8	2512.4	2111.5	1943.7	1911.1	1808.5	1836.5	1883.1
5262.5	47.5°	5229.9	4656.5	3216.2	2321.3	1953.0	1771.3	1743.3	1659.4	1706.0	1757.3
4940.9	50°	4898.9	4320.9	3155.6	2125.5	1803.9	1622.1	1594.1	1538.2	1598.8	1650.1
4721.8	52.5°	4661.2	3938.7	3025.1	1948.4	1673.4	1496.2	1486.9	1459.0	1514.9	1561.5
4558.7	55°	4456.1	3542.5	2815.4	1794.6	1556.8	1389.0	1398.4	1384.4	1431.0	1468.3
4460.8	57.5°	4269.7	3197.6	2549.7	1673.4	1431.0	1295.8	1323.8	1305.1	1328.4	1351.7
4358.2	60°	4045.9	2848.0	2232.7	1538.2	1281.8	1202.6	1235.2	1183.9	1179.3	1188.6
4171.8	62.5°	3715.0	2377.2	1901.8	1370.4	1151.3	1100.0	1114.0	1016.1	941.6	941.6
3896.8	65°	3253.5	1911.1	1594.1	1183.9	1002.2	960.2	950.9	811.0	708.5	699.2
3598.5	67.5°	2717.5	1570.8	1323.8	997.5	834.4	806.4	815.7	713.2	610.6	601.3
3300.1	70°	2214.1	1300.5	1067.4	797.1	643.2	671.2	713.2	610.6	512.7	498.7
2950.5	72.5°	1799.2	1034.8	834.4	610.6	475.4	554.7	606.0	498.7	405.5	396.2
2517.1	75°	1389.0	759.8	596.6	414.8	344.9	428.8	475.4	363.6	289.0	275.0
1948.4	77.5°	927.6	470.8	335.6	261.0	205.1	293.7	317.0	191.1	167.8	163.1
1417.0	80°	564.0	219.1	144.5	125.9	69.9	107.2	125.9	79.2	88.6	93.2
755.1	82.5°	284.3	60.6	23.3	4.7	0.0	0.0	37.3	18.6	37.3	46.6
205.1	85°	23.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3	23.3
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°
9369.0	0°	9369.0	9369.0	9369.0	9369.0	9369.0	9369.0	9369.0	9369.0	9369.0	9369.0
8231.7	2.5°	8492.7	8688.5	8874.9	9173.3	9480.9	9783.9	10091.5	10389.8	10497.0	10576.3
7108.3	5°	7513.9	7882.1	8310.9	8902.9	9536.8	10189.4	10851.3	11457.2	11732.3	11918.7
6050.2	7.5°	6502.4	6982.5	7597.8	8488.1	9480.9	10520.3	11559.8	12515.3	12958.1	13317.1
5052.7	10°	5500.2	6022.3	6800.7	7816.8	9159.3	10650.9	12086.5	13401.0	13974.3	14426.4
4334.9	12.5°	4619.3	5108.7	5924.4	7047.7	8655.9	10548.3	12389.5	13969.6	14645.5	15153.6
3822.2	15°	3999.3	4344.2	5066.7	6278.6	8059.2	10217.4	12408.1	14240.0	14981.1	15512.5
3607.8	17.5°	3654.4	3770.9	4241.7	5495.6	7397.3	9783.9	12235.7	14333.2	15125.6	15619.7
3416.7	20°	3467.9	3486.6	3617.1	4479.4	6549.0	9378.3	12072.5	14426.4	15260.8	15675.6
3281.5	22.5°	3318.8	3318.8	3351.4	3663.7	5453.6	8893.6	12021.2	14589.6	15447.2	15703.6
3127.7	25°	3183.6	3183.6	3192.9	3276.8	4320.9	8152.4	11988.6	14841.3	15703.6	15773.5
2973.8	27.5°	3043.8	3048.4	3048.4	3095.0	3481.9	7145.6	11848.8	15167.6	16011.2	15866.7
2824.7	30°	2903.9	2913.3	2913.3	2945.9	3081.1	5966.3	11573.8	15559.1	16412.1	15987.9
2675.5	32.5°	2764.1	2773.4	2773.4	2801.4	2899.3	4763.8	11228.8	15918.0	16817.6	16039.2
2531.0	35°	2619.6	2633.6	2624.3	2661.5	2764.1	3789.6	10790.7	16276.9	17255.8	16202.3
2391.2	37.5°	2475.1	2484.4	2479.8	2517.1	2633.6	3272.2	10282.6	16547.3	17852.4	16565.9
2242.0	40°	2330.6	2325.9	2325.9	2367.9	2493.7	3123.0	9644.0	16976.1	18710.1	17204.5
2092.9	42.5°	2181.4	2181.4	2172.1	2218.7	2372.6	3011.1	9033.4	17745.2	19959.3	18220.7
1953.0	45°	2046.3	2041.6	2023.0	2064.9	2256.0	2815.4	8819.0	19180.9	21805.1	19866.1
1813.2	47.5°	1915.8	1911.1	1864.5	1901.8	2116.2	2638.2	9620.7	21530.1	24364.1	22285.2
1701.3	50°	1799.2	1803.9	1715.3	1748.0	1976.4	2503.1	11359.4	24578.5	27762.1	25543.4
1608.1	52.5°	1692.0	1692.0	1575.5	1594.1	1803.9	2381.9	13014.1	27883.3	32246.2	30088.1
1510.2	55°	1584.8	1575.5	1445.0	1454.3	1631.4	2209.4	13261.1	31108.9	38361.7	36926.1
1403.0	57.5°	1463.6	1445.0	1323.8	1323.8	1472.9	2083.6	11494.5	33588.6	45950.2	46975.6
1202.6	60°	1314.5	1300.5	1221.2	1197.9	1347.1	2195.4	8110.5	33877.6	50844.4	60339.3
955.5	62.5°	1123.4	1142.0	1100.0	1067.4	1225.9	2279.3	4805.7	31551.7	49660.5	64590.3
741.1	65°	885.6	960.2	950.9	927.6	1347.1	1920.4	2838.7	27086.3	46029.4	61159.7
647.9	67.5°	755.1	806.4	792.4	792.4	1412.3	1459.0	1785.2	21161.9	41032.6	57090.4
540.7	70°	643.2	694.5	643.2	643.2	1067.4	885.6	1235.2	14776.0	35639.6	52587.7
433.5	72.5°	531.4	582.7	526.7	489.4	853.0	661.9	904.3	9233.8	30521.6	47898.5
307.6	75°	405.5	466.1	424.2	377.6	564.0	494.1	685.2	5365.0	25287.0	40981.3
186.4	77.5°	256.4	335.6	317.0	265.7	414.8	358.9	494.1	3192.9	19511.8	32022.5
111.9	80°	158.5	172.5	177.1	167.8	237.7	242.4	335.6	1817.9	13354.4	22317.8
69.9	82.5°	102.5	102.5	79.2	88.6	116.5	139.8	191.1	685.2	7849.5	13587.4
42.0	85°	74.6	65.3	42.0	42.0	55.9	69.9	74.6	209.8	3183.6	5365.0
18.6	87.5°	37.3	32.6	14.0	18.6	28.0	23.3	18.6	9.3	801.7	1715.3
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°
9369.0	0°	9369.0	9369.0	9369.0	9369.0	9369.0	9369.0	9369.0	9369.0
10753.4	2.5°	10846.6	10991.1	11000.4	11000.4	10874.6	10869.9	10613.6	10585.6
12338.2	5°	12771.7	12864.9	12888.2	12841.6	12589.9	12403.5	11904.7	11797.5
13955.6	7.5°	14533.6	14720.1	14720.1	14608.2	14198.0	13815.8	13093.3	12823.0
15293.4	10°	15941.3	16155.7	16109.1	15880.7	15363.3	14836.6	13960.3	13606.1
16104.5	12.5°	16626.5	16845.6	16724.4	16463.4	15960.0	15405.3	14482.4	14081.5
16337.5	15°	16612.5	16551.9	16426.1	16393.5	16151.1	15731.6	14869.2	14431.1
16193.0	17.5°	16020.6	15507.8	15409.9	15736.2	16043.9	15941.3	15204.9	14794.7
15848.1	20°	15083.7	14188.7	14100.1	14724.7	15601.1	16048.5	15517.2	15139.6
15349.3	22.5°	14095.5	13130.6	12925.5	13615.4	14934.5	16081.2	15913.4	15535.8
14799.3	25°	13158.6	12189.1	11984.0	12627.2	14193.4	16025.2	16342.2	16020.6
14272.6	27.5°	12375.5	11438.6	11247.5	11890.7	13480.2	15866.7	16771.0	16542.6
13750.6	30°	11769.5	10902.6	10762.7	11382.7	12864.9	15671.0	17316.4	17190.5
13265.8	32.5°	11415.3	10781.4	10832.6	11340.7	12534.0	15456.6	17838.4	17899.0
13028.1	35°	11764.9	11792.8	12240.3	12450.1	12841.6	15423.9	18546.9	18784.7
13312.4	37.5°	13503.5	14473.0	15400.6	15228.2	14347.2	15801.5	19605.0	20047.8
14552.3	40°	16463.4	18453.7	19959.3	19302.0	17083.3	16957.5	21129.2	21791.1
16752.4	42.5°	20080.5	23455.2	25934.9	24173.0	20611.8	18980.4	23306.0	24149.7
19413.9	45°	23898.0	29622.0	33528.0	29864.3	24373.4	21814.4	26601.5	27263.4
21907.7	47.5°	27920.6	37117.2	42169.9	36175.6	27860.0	25040.0	31094.9	31248.7
24270.9	50°	32320.8	45334.9	50979.6	42482.2	31225.4	28736.3	36585.8	36408.7
27025.7	52.5°	36511.2	53785.6	59602.8	48816.8	34180.6	33323.0	42957.7	42594.1
30791.9	55°	40510.5	62231.7	68277.3	54904.3	36968.0	39382.5	50527.5	48327.4
36222.2	57.5°	45148.4	69824.9	77217.5	61019.8	40864.8	47250.6	58992.2	51655.5
46621.4	60°	52005.1	78452.7	87327.7	69400.7	48276.1	55519.6	62026.7	51021.5
59076.1	62.5°	60758.8	86386.1	94678.4	77613.7	55720.0	57076.5	57556.6	46136.6
56535.8	65°	62460.1	88395.1	95093.2	79809.2	54759.8	48415.9	46989.6	37084.5
50499.5	67.5°	57948.1	84764.0	89294.7	75721.3	48439.2	37415.5	35262.0	26904.5
46537.5	70°	52886.0	77842.1	79189.2	68771.4	42603.4	27519.8	23814.1	17265.1
43824.6	72.5°	47698.1	68608.3	65820.9	59724.0	37443.5	20038.5	17176.5	12273.0
39960.5	75°	41536.0	56465.8	51846.6	49623.2	31001.7	15726.9	12426.8	8469.4
34371.7	77.5°	33262.4	39746.1	38510.9	38464.3	23296.7	11489.9	8292.3	5309.1
26853.2	80°	23464.5	25795.1	25165.8	28969.4	15629.0	8334.2	4992.2	2955.2
18691.4	82.5°	11359.4	14263.3	14640.8	17251.1	7602.4	4903.6	1151.3	643.2
7308.8	85°	4446.8	6879.9	5803.2	6549.0	2134.8	1365.7	28.0	0.0
1202.6	87.5°	498.7	797.1	731.8	578.0	261.0	55.9	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)