

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: P956137

Luminaire Tested: **GALN-SB8D-850-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956137  
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-SB8D-850-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

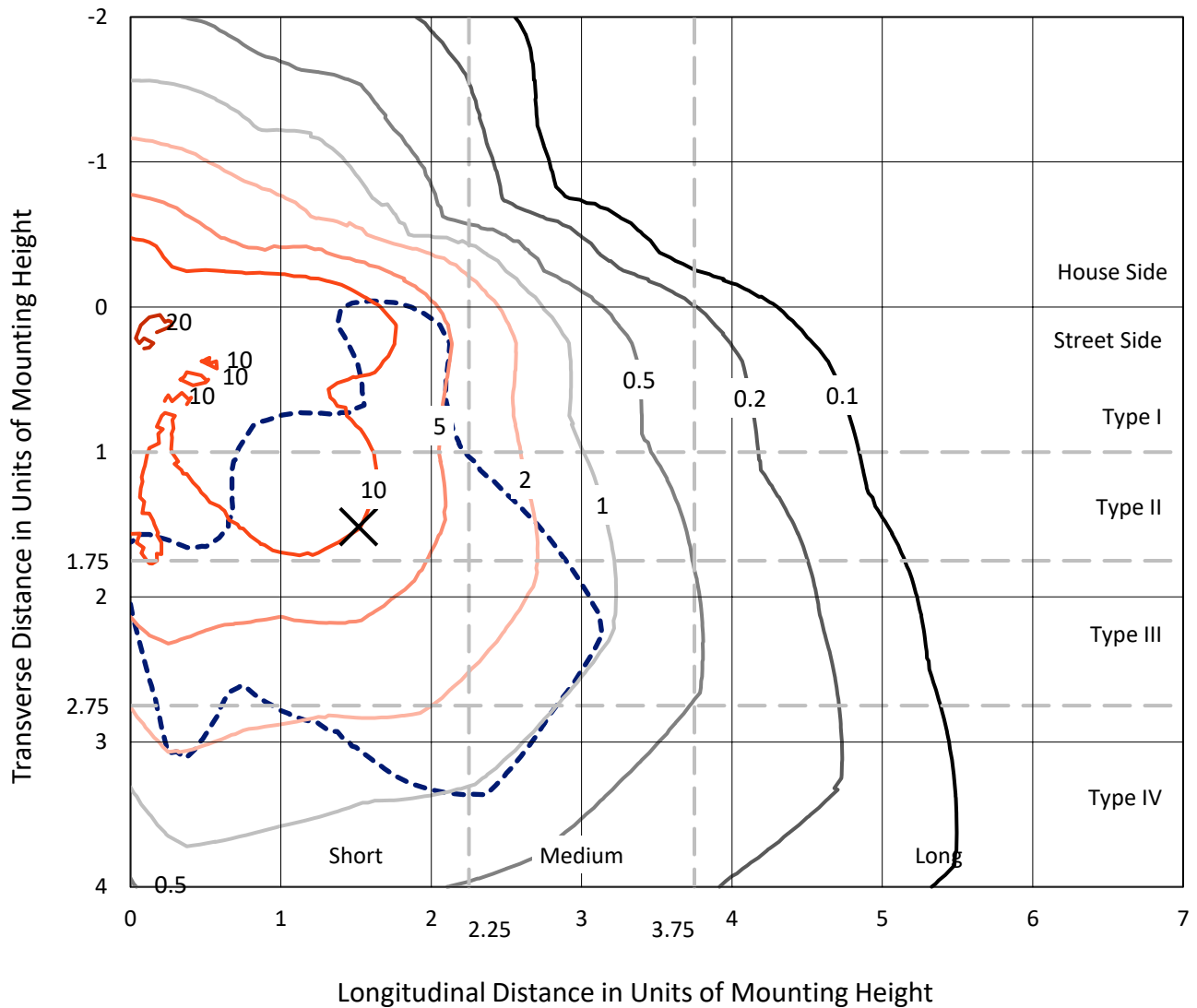
Lumens per Lamp: N/A  
Luminaire Lumens: 60069 lumens  
Efficiency: N/A  
Efficacy: 102.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): 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

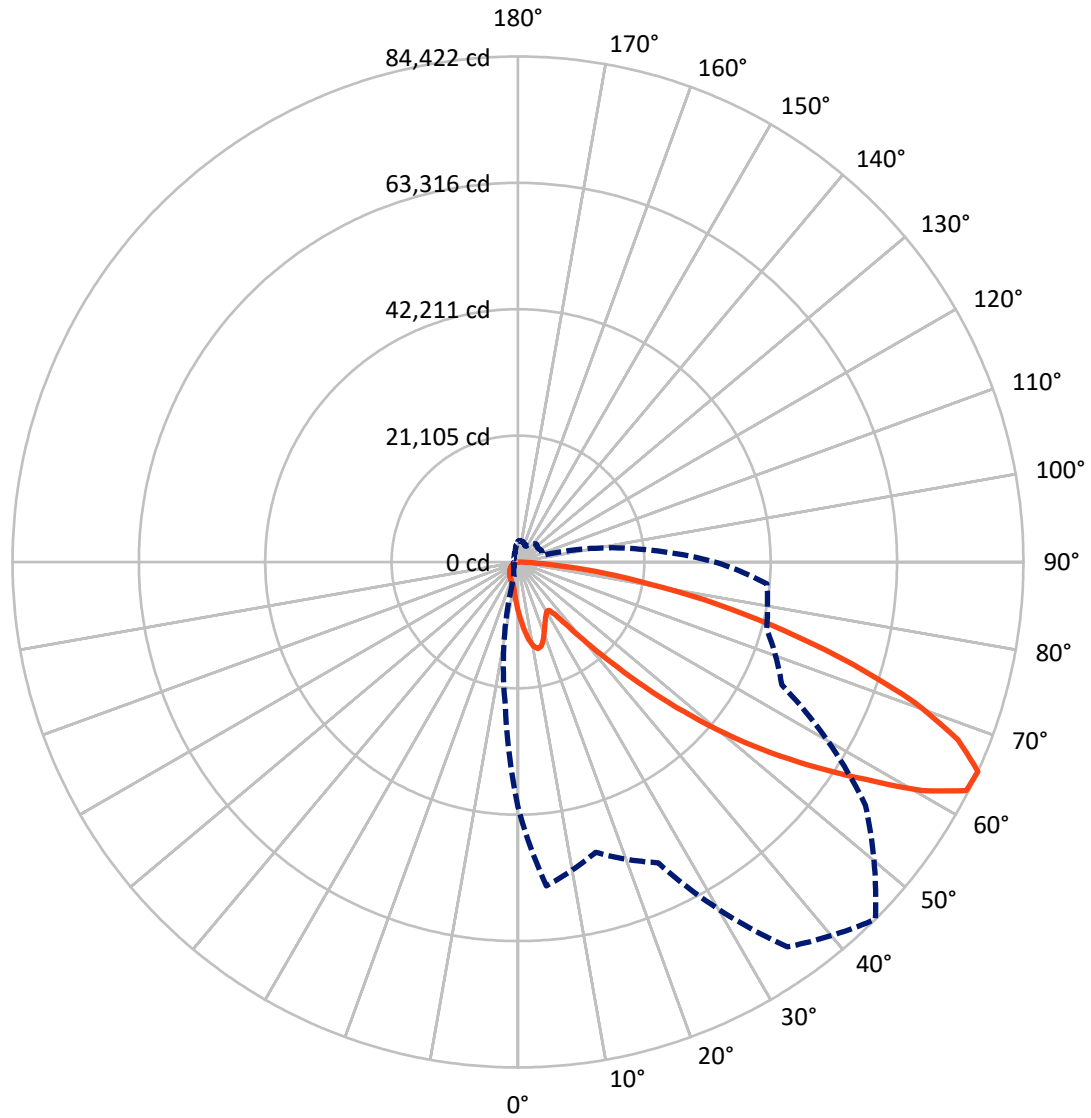
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.9 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	11939.9	0.0	11939.9
	% Fixture	19.9	0.0	19.9
<b>Street Side</b>	Lumens	48129.1	0.0	48129.1
	% Fixture	80.1	0.0	80.1
<b>Total</b>	Lumens	60069.0	0.0	60069.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	818.9	1.4
10°-20°	2454.8	4.1
20°-30°	3616.4	6.0
30°-40°	4646.1	7.7
40°-50°	7514.2	12.5
50°-60°	13176.9	21.9
60°-70°	16487.9	27.4
70°-80°	9634.7	16.0
80°-90°	1719.0	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°	60069.0	100.0
0°-180°	60069.0	100.0

**Coefficient of Utilization**



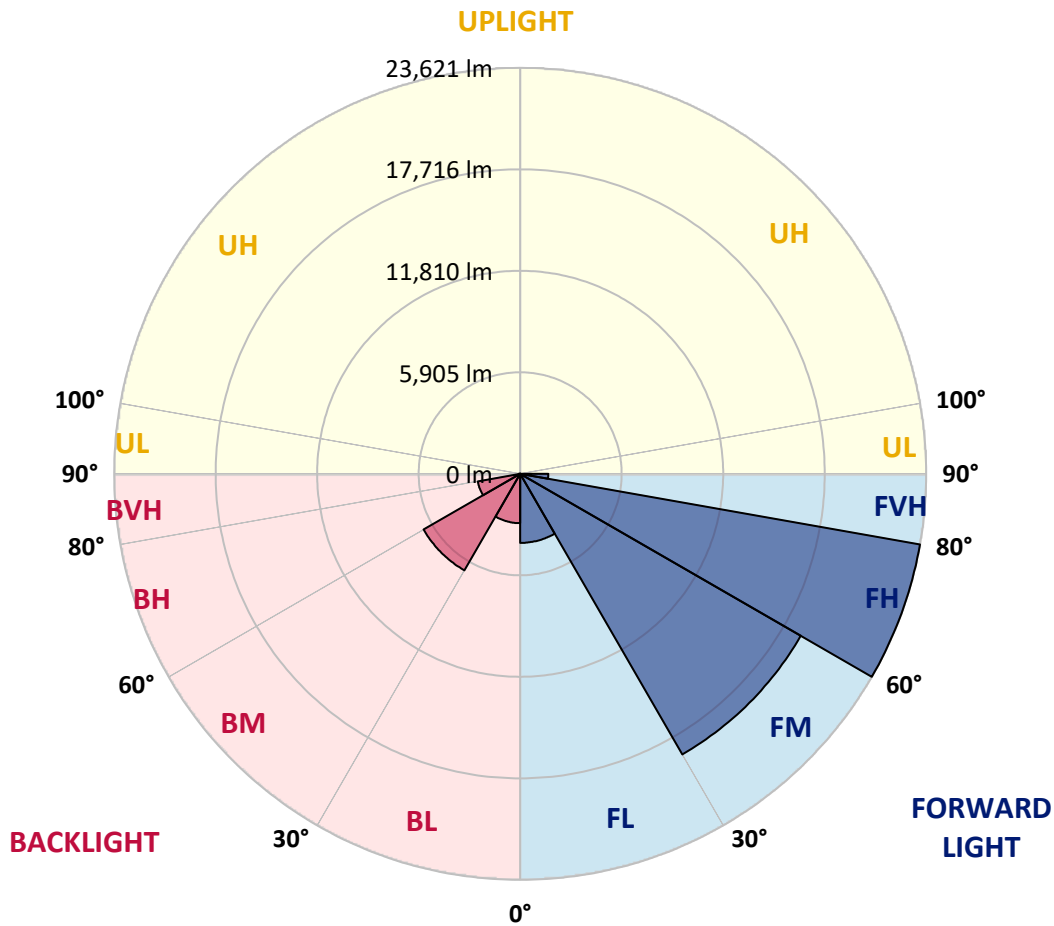
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4019.3	6.7			
FM (30°-60°)	18850.4	31.4			
FH (60°-80°)	23621.0	39.3			G5
FVH (80°-90°)	1638.4	2.7			G5
BL (0°-30°)	2870.8	4.8	B4/5000		
BM (30°-60°)	6486.9	10.8	B4/8500		
BH (60°-80°)	2501.6	4.2	B4/5000		G4/5000
BVH (80°-90°)	80.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6
2.5°	9319.1	9389.4	9546.7	9629.4	9757.7	9766.0	9766.0	9654.2	9650.1	9422.5
5°	10415.7	10581.2	10953.6	11338.5	11421.2	11441.9	11400.5	11177.1	11011.6	10568.8
7.5°	11504.0	11822.6	12389.6	12902.7	13068.2	13068.2	12968.9	12604.7	12265.4	11624.0
10°	12406.1	12807.5	13577.2	14152.4	14342.7	14301.4	14098.6	13639.3	13171.7	12393.7
12.5°	13002.0	13453.0	14297.2	14760.7	14955.2	14847.6	14615.9	14168.9	13676.5	12857.2
15°	13299.9	13771.7	14504.1	14748.3	14694.5	14582.8	14553.8	14338.6	13966.2	13200.6
17.5°	13428.2	13866.9	14375.9	14222.7	13767.5	13680.6	13970.3	14243.4	14152.4	13498.6
20°	13548.2	13916.5	14069.6	13391.0	12596.5	12517.8	13072.3	13850.3	14247.6	13775.8
22.5°	13713.8	13941.3	13626.9	12513.7	11657.1	11475.0	12087.5	13258.6	14276.5	14127.6
25°	13941.3	14003.4	13138.6	11681.9	10821.2	10639.1	11210.2	12600.6	14226.9	14508.3
27.5°	14214.5	14086.2	12670.9	10986.7	10155.0	9985.3	10556.4	11967.5	14086.2	14889.0
30°	14570.3	14193.8	12207.5	10448.8	9679.1	9554.9	10105.3	11421.2	13912.4	15373.1
32.5°	14930.4	14239.3	11777.1	10134.3	9571.5	9617.0	10068.1	11127.4	13722.0	15836.6
35°	15319.3	14384.1	11566.1	10444.6	10469.5	10866.7	11052.9	11400.5	13693.1	16465.6
37.5°	15849.0	14706.9	11818.5	11988.2	12848.9	13672.4	13519.3	12737.2	14028.2	17405.0
40°	16610.4	15273.8	12919.2	14615.9	16382.8	17719.5	17136.0	15166.2	15054.5	18758.1
42.5°	17719.5	16175.9	14872.4	17827.0	20823.1	23024.5	21460.3	18298.8	16850.5	20690.6
45°	19358.2	17636.7	17235.3	21216.2	26297.8	29765.5	26513.0	21638.3	19366.4	23616.3
47.5°	21630.0	19784.4	19449.2	24787.4	32951.9	37437.6	32116.0	24733.6	22230.0	27605.4
50°	24646.7	22676.9	21547.2	28693.8	40247.4	45258.7	37714.9	27721.3	25511.6	32480.2
52.5°	28627.6	26711.6	23992.9	32413.9	47749.8	52914.2	43338.6	30344.9	29583.5	38137.0
55°	34056.8	32782.2	27336.5	35964.5	55248.1	60615.3	48743.0	32819.5	34963.0	44857.3
57.5°	40793.7	41704.0	32157.4	40081.9	61989.1	68552.2	54172.2	36279.0	41948.2	52372.1
60°	45138.7	53568.0	41389.5	46169.1	69648.8	77527.8	61612.6	42858.6	49289.2	55066.1
62.5°	44087.6	57342.0	52446.6	53940.5	76691.9	84053.6	68903.9	49467.2	50671.4	51097.6
65°	40864.0	54296.4	50191.3	55450.9	78475.4	84421.9	70853.0	48614.7	42982.7	41716.5
67.5°	36427.9	50683.8	44832.5	51445.2	75251.8	79274.1	67223.9	43003.4	33216.7	31304.9
70°	31640.1	46686.3	41315.1	46951.2	69106.7	70302.6	61053.9	37822.5	24431.5	21141.7
72.5°	27096.5	42523.4	38906.7	42345.4	60909.1	58434.5	53021.8	33241.6	17789.8	15249.0
75°	22449.3	36382.4	35476.2	36874.8	50129.3	46028.4	44054.5	27522.7	13962.0	11032.2
77.5°	17322.2	28428.9	30514.5	29529.7	35285.8	34189.2	34147.8	20682.4	10200.5	7361.7
80°	11855.7	19813.4	23839.7	20831.3	22900.4	22341.7	25718.5	13875.1	7399.0	4431.9
82.5°	6968.6	12062.6	16593.9	10084.6	12662.7	12997.9	15315.2	6749.3	4353.3	1022.1
85°	2826.3	4763.0	6488.6	3947.8	6107.9	5152.0	5814.1	1895.3	1212.5	24.8
87.5°	711.8	1522.8	1067.6	442.8	707.6	649.7	513.1	231.7	49.7	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):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
8317.6	0°	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6
9397.7	2.5°	9236.3	9141.1	8905.2	8669.4	8479.0	8222.5	8052.8	7850.0	7655.5	7481.7
10473.6	5°	10212.9	9898.4	9468.0	9074.9	8673.5	8284.5	7899.7	7494.1	7121.7	6894.1
11384.0	7.5°	11007.4	10452.9	9881.8	9381.1	8897.0	8441.8	7932.8	7440.4	6856.9	6546.5
12079.2	10°	11599.2	10870.9	10121.9	9546.7	9058.4	8615.6	8185.2	7688.6	6985.2	6596.2
12501.3	12.5°	11988.2	11123.3	10246.0	9588.0	9041.8	8698.3	8508.0	8313.5	7614.2	7159.0
12811.6	15°	12257.1	11301.2	10332.9	9492.9	8822.5	8570.1	8760.4	8983.9	8537.0	8011.4
13134.4	17.5°	12550.9	11533.0	10370.1	9236.3	8396.3	8288.7	8781.1	9298.4	9277.7	8756.3
13440.6	20°	12861.3	11735.7	10345.3	8822.5	7879.0	7974.2	8603.2	9203.2	9455.6	9174.2
13792.4	22.5°	13179.9	11930.2	10250.1	8284.5	7394.8	7692.8	8321.8	8847.3	9145.3	9058.4
14222.7	25°	13581.3	12203.3	10109.4	7705.2	6993.4	7407.2	7994.9	8421.1	8628.0	8623.9
14686.2	27.5°	14061.4	12567.5	10035.0	7237.6	6707.9	7084.5	7605.9	7986.6	8131.4	8131.4
15261.4	30°	14620.0	12997.9	9952.2	6931.4	6542.4	6749.3	7154.8	7527.3	7672.1	7672.1
15890.4	32.5°	15240.7	13411.7	9753.6	6745.1	6418.2	6422.4	6678.9	7018.3	7192.1	7216.9
16676.7	35°	15985.6	13854.4	9319.1	6596.2	6273.4	6103.7	6227.9	6509.3	6716.2	6770.0
17798.1	37.5°	16962.2	14396.5	8698.3	6376.9	6049.9	5768.5	5797.5	6012.7	6240.3	6323.1
19345.7	40°	18274.0	15033.8	8052.8	6062.4	5735.4	5400.3	5387.8	5545.1	5768.5	5859.6
21439.6	42.5°	20007.8	15799.4	7436.2	5760.3	5354.7	5011.3	4990.6	5114.7	5309.2	5404.4
24203.9	45°	22225.9	16738.7	6906.5	5524.4	4982.3	4643.0	4634.7	4738.2	4907.8	5007.1
27742.0	47.5°	25308.8	17678.1	6546.5	5400.3	4688.5	4340.9	4357.4	4448.5	4601.6	4671.9
32322.9	50°	29326.9	17963.6	6364.4	5400.3	4531.2	4071.9	4154.7	4229.2	4345.0	4386.4
37814.2	52.5°	33183.6	17020.1	6198.9	5433.4	4551.9	3844.3	4022.3	4076.1	4175.4	4191.9
42904.1	55°	35074.8	14632.4	5971.3	5441.6	4680.2	3649.8	3914.7	4014.0	4051.2	4047.1
45858.7	57.5°	34425.1	11830.9	5586.5	5408.5	4767.1	3525.7	3782.2	3972.6	3997.4	3960.2
45295.9	60°	32145.0	8710.8	5292.7	5164.4	4734.0	3488.4	3579.5	3881.6	3918.8	3869.1
40959.2	62.5°	28321.3	6045.8	5065.1	4626.4	4589.2	3476.0	3260.8	3682.9	3774.0	3703.6
32922.9	65°	22296.2	4270.5	4361.6	4055.4	4274.7	3409.8	2929.8	3442.9	3567.1	3459.5
23885.3	67.5°	15087.6	3082.9	3534.0	3674.7	3765.7	3260.8	2689.8	3169.8	3335.3	3194.6
15327.6	70°	8148.0	2164.2	2333.9	3095.3	3198.8	3004.3	2474.6	2892.6	3082.9	2929.8
10895.7	72.5°	4812.6	1555.9	1634.6	2487.0	2665.0	2644.3	2234.6	2569.8	2801.5	2619.4
7519.0	75°	2652.5	1051.1	1167.0	1804.2	2164.2	2040.1	1920.1	2176.7	2412.5	2234.6
4713.3	77.5°	1187.6	629.0	811.1	1183.5	1700.8	1398.7	1485.6	1696.6	1916.0	1729.7
2623.6	80°	459.3	351.7	538.0	645.5	1237.3	773.8	955.9	1249.7	1407.0	1258.0
571.1	82.5°	57.9	157.2	231.7	252.4	720.0	409.7	554.5	786.2	773.8	670.4
0.0	85°	0.0	29.0	33.1	16.6	310.4	149.0	182.1	256.6	240.0	182.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	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°
8317.6	0°	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6
7448.6	2.5°	7245.9	7096.9	7022.4	6960.3	7018.3	7051.4	7051.4	7192.1	7274.8	7307.9
6749.3	5°	6385.1	6107.9	5921.7	5809.9	5847.2	5888.6	5934.1	6112.0	6232.0	6310.6
6265.1	7.5°	5706.5	5284.4	5023.7	4887.1	4907.8	4936.8	4974.0	5147.8	5267.8	5371.3
6174.1	10°	5371.3	4775.4	4431.9	4266.4	4237.4	4220.9	4208.5	4311.9	4403.0	4485.7
6546.5	12.5°	5387.8	4556.1	4138.1	3935.4	3848.5	3749.1	3670.5	3687.1	3745.0	3848.5
7212.8	15°	5598.9	4485.7	3985.0	3732.6	3587.8	3471.9	3376.7	3356.0	3376.7	3393.3
7974.2	17.5°	5884.4	4477.5	3852.6	3538.1	3389.1	3293.9	3207.0	3178.1	3182.2	3202.9
8479.0	20°	6112.0	4452.6	3703.6	3351.9	3219.5	3136.7	3049.8	3020.8	3029.1	3033.2
8528.7	22.5°	6232.0	4415.4	3538.1	3165.7	3053.9	2971.2	2892.6	2888.4	2888.4	2913.2
8259.7	25°	6232.0	4336.8	3389.1	2987.7	2888.4	2813.9	2718.7	2735.3	2743.6	2776.7
7841.7	27.5°	6083.0	4187.8	3269.1	2834.6	2731.2	2656.7	2569.8	2590.5	2602.9	2640.1
7427.9	30°	5892.7	4009.8	3132.6	2689.8	2569.8	2516.0	2441.5	2449.8	2466.3	2507.7
7043.1	32.5°	5689.9	3798.8	3020.8	2544.9	2424.9	2383.6	2300.8	2313.2	2329.8	2375.3
6662.4	35°	5466.5	3550.5	2888.4	2412.5	2292.5	2259.4	2164.2	2172.5	2197.3	2247.0
6252.7	37.5°	5230.6	3347.7	2756.0	2284.2	2160.1	2127.0	2027.7	2036.0	2064.9	2122.9
5822.3	40°	4998.9	3149.1	2615.3	2147.7	2023.5	1994.6	1887.0	1895.3	1928.4	1990.4
5387.8	42.5°	4746.4	2996.0	2433.2	2007.0	1874.6	1845.6	1746.3	1758.7	1795.9	1858.0
4986.4	45°	4444.3	2896.7	2230.5	1874.6	1725.6	1696.6	1605.6	1630.4	1671.8	1733.9
4643.0	47.5°	4134.0	2855.3	2060.8	1733.9	1572.5	1547.7	1473.2	1514.6	1560.1	1609.7
4349.2	50°	3836.0	2801.5	1887.0	1601.5	1440.1	1415.2	1365.6	1419.4	1464.9	1510.4
4138.1	52.5°	3496.7	2685.6	1729.7	1485.6	1328.3	1320.1	1295.2	1344.9	1386.3	1427.7
3956.0	55°	3145.0	2499.4	1593.2	1382.1	1233.2	1241.4	1229.0	1270.4	1303.5	1340.8
3790.5	57.5°	2838.8	2263.6	1485.6	1270.4	1150.4	1175.2	1158.7	1179.4	1200.1	1245.6
3591.9	60°	2528.4	1982.2	1365.6	1138.0	1067.6	1096.6	1051.1	1046.9	1055.2	1067.6
3298.1	62.5°	2110.4	1688.4	1216.6	1022.1	976.6	989.0	902.1	835.9	835.9	848.3
2888.4	65°	1696.6	1415.2	1051.1	889.7	852.5	844.2	720.0	629.0	620.7	658.0
2412.5	67.5°	1394.5	1175.2	885.6	740.7	715.9	724.2	633.1	542.1	533.8	575.2
1965.6	70°	1154.5	947.6	707.6	571.1	595.9	633.1	542.1	455.2	442.8	480.0
1597.3	72.5°	918.7	740.7	542.1	422.1	492.4	538.0	442.8	360.0	351.7	384.8
1233.2	75°	674.5	529.7	368.3	306.2	380.7	422.1	322.8	256.6	244.1	273.1
823.5	77.5°	418.0	297.9	231.7	182.1	260.7	281.4	169.7	149.0	144.8	165.5
500.7	80°	194.5	128.3	111.7	62.1	95.2	111.7	70.3	78.6	82.8	99.3
252.4	82.5°	53.8	20.7	4.1	0.0	0.0	33.1	16.6	33.1	41.4	62.1
20.7	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	20.7	37.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.6
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°
8317.6	0°	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6	8317.6
7539.7	2.5°	7713.5	7879.0	8143.8	8416.9	8685.9	8959.0	9223.9	9319.1
6670.7	5°	6997.6	7378.3	7903.8	8466.6	9045.9	9633.6	10171.5	10415.7
5772.7	7.5°	6198.9	6745.1	7535.5	8416.9	9339.8	10262.6	11110.9	11504.0
4883.0	10°	5346.5	6037.5	6939.6	8131.4	9455.6	10730.2	11897.1	12406.1
4100.9	12.5°	4535.4	5259.6	6256.8	7684.5	9364.6	10999.1	12402.0	13002.0
3550.5	15°	3856.7	4498.1	5574.1	7154.8	9070.8	11015.7	12642.0	13299.9
3244.3	17.5°	3347.7	3765.7	4878.9	6567.2	8685.9	10862.6	12724.7	13428.2
3078.8	20°	3095.3	3211.2	3976.7	5814.1	8325.9	10717.7	12807.5	13548.2
2946.3	22.5°	2946.3	2975.3	3252.6	4841.6	7895.5	10672.2	12952.3	13713.8
2826.3	25°	2826.3	2834.6	2909.1	3836.0	7237.6	10643.3	13175.8	13941.3
2702.2	27.5°	2706.3	2706.3	2747.7	3091.2	6343.7	10519.1	13465.5	14214.5
2578.1	30°	2586.3	2586.3	2615.3	2735.3	5296.8	10275.0	13813.1	14570.3
2453.9	32.5°	2462.2	2462.2	2487.0	2573.9	4229.2	9968.7	14131.7	14930.4
2325.6	35°	2338.0	2329.8	2362.9	2453.9	3364.3	9579.8	14450.3	15319.3
2197.3	37.5°	2205.6	2201.5	2234.6	2338.0	2905.0	9128.7	14690.3	15849.0
2069.1	40°	2064.9	2064.9	2102.2	2213.9	2772.5	8561.8	15071.1	16610.4
1936.6	42.5°	1936.6	1928.4	1969.7	2106.3	2673.2	8019.7	15753.8	17719.5
1816.6	45°	1812.5	1795.9	1833.2	2002.9	2499.4	7829.3	17028.4	19358.2
1700.8	47.5°	1696.6	1655.3	1688.4	1878.7	2342.2	8541.1	19114.0	21630.0
1597.3	50°	1601.5	1522.8	1551.8	1754.6	2222.2	10084.6	21820.3	24646.7
1502.1	52.5°	1502.1	1398.7	1415.2	1601.5	2114.6	11553.6	24754.3	28627.6
1407.0	55°	1398.7	1282.8	1291.1	1448.3	1961.5	11773.0	27617.9	34056.8
1299.4	57.5°	1282.8	1175.2	1175.2	1307.6	1849.7	10204.6	29819.3	40793.7
1167.0	60°	1154.5	1084.2	1063.5	1195.9	1949.1	7200.3	30075.9	45138.7
997.3	62.5°	1013.8	976.6	947.6	1088.3	2023.5	4266.4	28011.0	44087.6
786.2	65°	852.5	844.2	823.5	1195.9	1704.9	2520.1	24046.7	40864.0
670.4	67.5°	715.9	703.5	703.5	1253.9	1295.2	1584.9	18787.1	36427.9
571.1	70°	616.6	571.1	571.1	947.6	786.2	1096.6	13117.9	31640.1
471.7	72.5°	517.3	467.6	434.5	757.3	587.6	802.8	8197.6	27096.5
360.0	75°	413.8	376.6	335.2	500.7	438.6	608.3	4763.0	22449.3
227.6	77.5°	297.9	281.4	235.9	368.3	318.6	438.6	2834.6	17322.2
140.7	80°	153.1	157.2	149.0	211.0	215.2	297.9	1613.9	11855.7
91.0	82.5°	91.0	70.3	78.6	103.5	124.1	169.7	608.3	6968.6
66.2	85°	57.9	37.2	37.2	49.7	62.1	66.2	186.2	2826.3
33.1	87.5°	29.0	12.4	16.6	24.8	20.7	16.6	8.3	711.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)