

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: P955339

Luminaire Tested: **GALN-SB8B-827-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955339  
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-SB8B-827-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

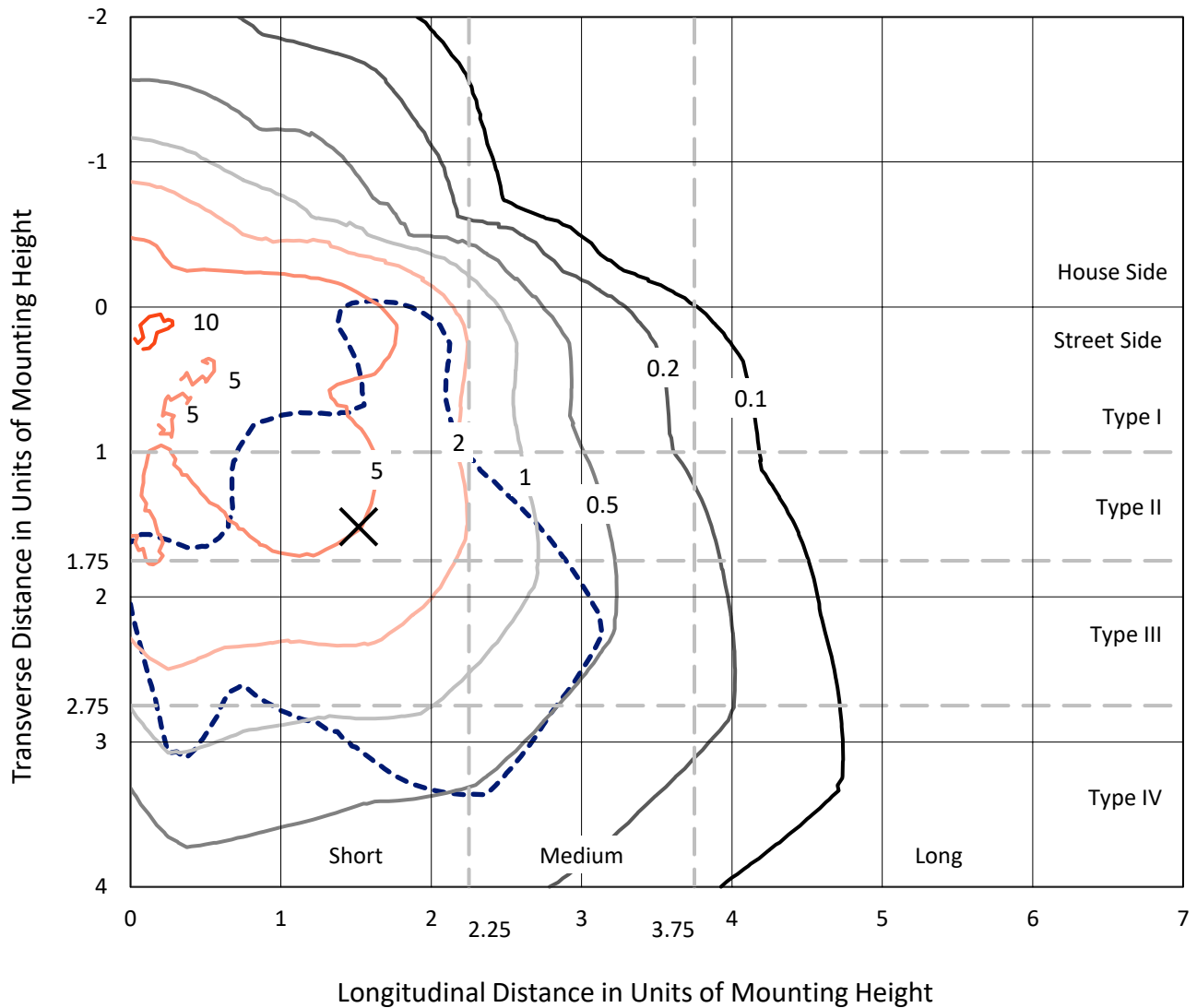
Lumens per Lamp: N/A  
Luminaire Lumens: 30218 lumens  
Efficiency: N/A  
Efficacy: 103.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): 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

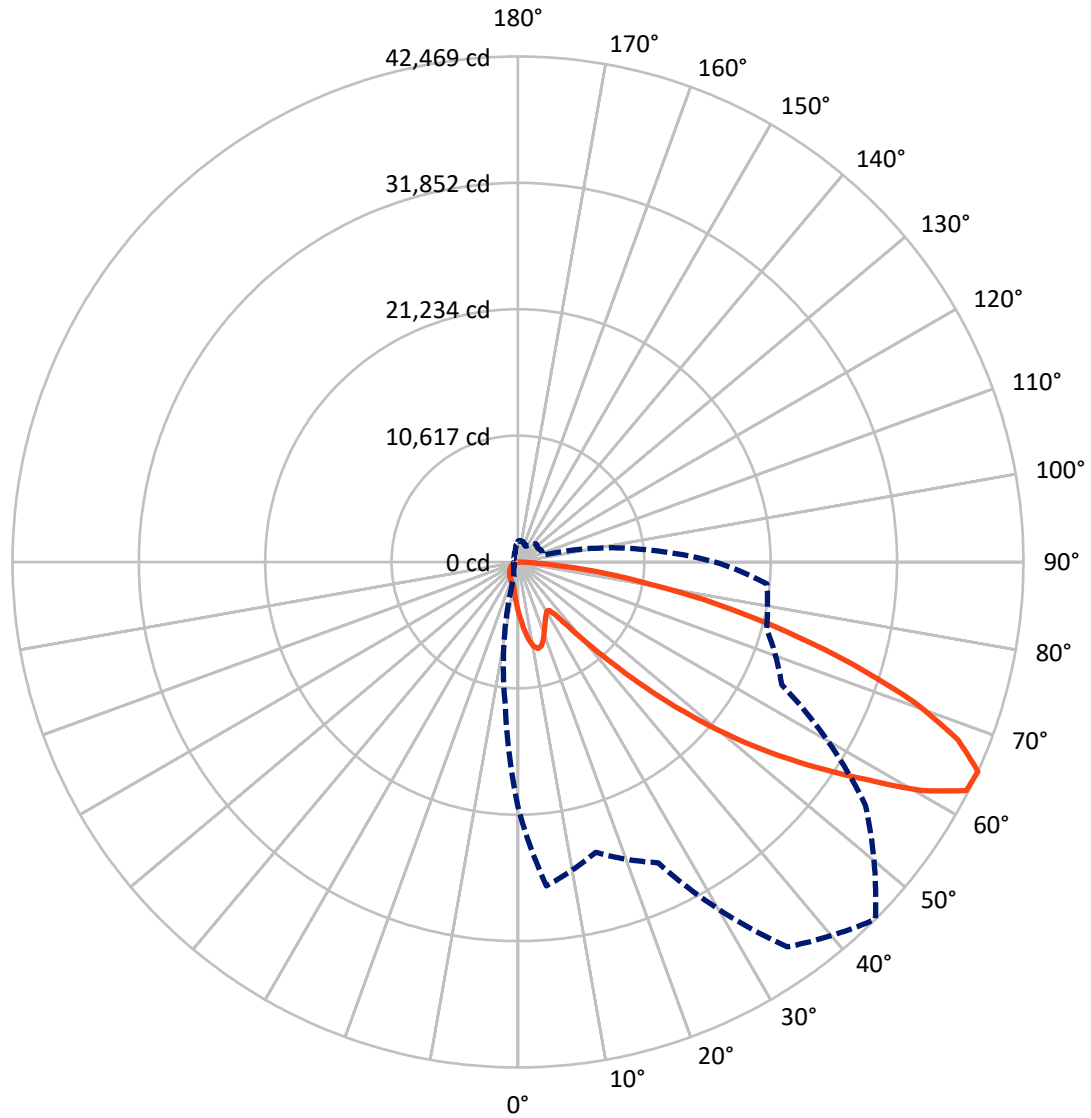
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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	6006.4	0.0	6006.4
	% Fixture	19.9	0.0	19.9
<b>Street Side</b>	Lumens	24211.6	0.0	24211.6
	% Fixture	80.1	0.0	80.1
<b>Total</b>	Lumens	30218.0	0.0	30218.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	412.0	1.4
10°-20°	1234.9	4.1
20°-30°	1819.3	6.0
30°-40°	2337.3	7.7
40°-50°	3780.1	12.5
50°-60°	6628.7	21.9
60°-70°	8294.3	27.4
70°-80°	4846.8	16.0
80°-90°	864.7	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°	30218.0	100.0
0°-180°	30218.0	100.0



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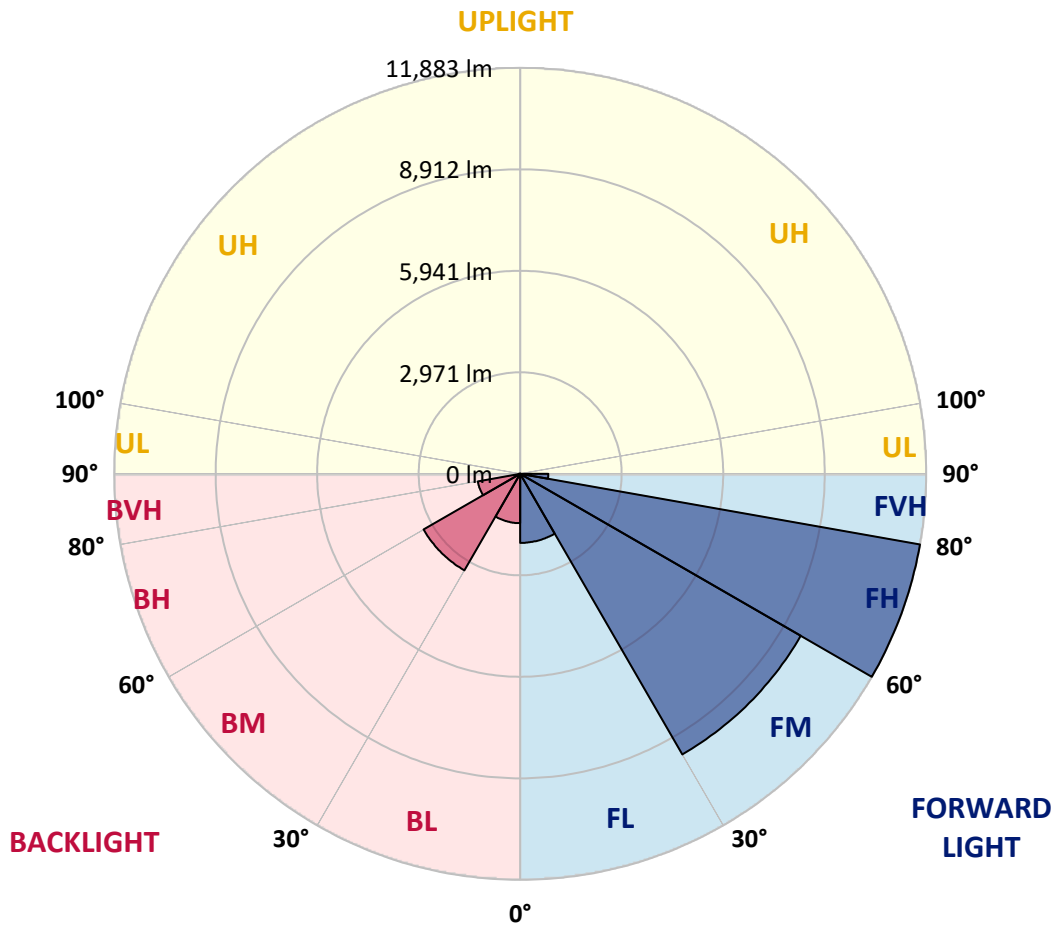
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2021.9	6.7			
FM (30°-60°)	9482.8	31.4			
FH (60°-80°)	11882.7	39.3			G4/12000
FVH (80°-90°)	824.2	2.7			G5
BL (0°-30°)	1444.2	4.8	B3/2500		
BM (30°-60°)	3263.2	10.8	B3/5000		
BH (60°-80°)	1258.4	4.2	B3/2500		G3/2500
BVH (80°-90°)	40.5	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-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4184.2	4184.2	4184.2	4184.2	4184.2	4184.2	4184.2	4184.2	4184.2	4184.2
2.5°	4688.0	4723.4	4802.5	4844.1	4908.7	4912.8	4912.8	4856.6	4854.5	4740.0
5°	5239.7	5322.9	5510.3	5703.9	5745.5	5755.9	5735.1	5622.7	5539.4	5316.7
7.5°	5787.1	5947.4	6232.6	6490.8	6574.0	6574.0	6524.1	6340.9	6170.2	5847.5
10°	6241.0	6442.9	6830.1	7119.4	7215.2	7194.4	7092.4	6861.3	6626.1	6234.7
12.5°	6540.7	6767.6	7192.3	7425.4	7523.3	7469.2	7352.6	7127.8	6880.0	6467.9
15°	6690.6	6927.9	7296.4	7419.2	7392.1	7335.9	7321.4	7213.1	7025.8	6640.6
17.5°	6755.1	6975.8	7231.8	7154.8	6925.8	6882.1	7027.8	7165.2	7119.4	6790.5
20°	6815.5	7000.8	7077.8	6736.4	6336.7	6297.2	6576.1	6967.5	7167.3	6930.0
22.5°	6898.8	7013.3	6855.1	6295.1	5864.2	5772.6	6080.7	6669.8	7181.9	7106.9
25°	7013.3	7044.5	6609.4	5876.7	5443.7	5352.1	5639.3	6338.8	7156.9	7298.5
27.5°	7150.7	7086.1	6374.2	5526.9	5108.5	5023.2	5310.4	6020.3	7086.1	7490.0
30°	7329.7	7140.2	6141.0	5256.3	4869.1	4806.7	5083.5	5745.5	6998.7	7733.5
32.5°	7510.8	7163.1	5924.5	5098.1	4815.0	4837.9	5064.8	5597.7	6902.9	7966.7
35°	7706.5	7236.0	5818.4	5254.2	5266.7	5466.6	5560.2	5735.1	6888.4	8283.1
37.5°	7972.9	7398.4	5945.3	6030.7	6463.7	6878.0	6800.9	6407.5	7057.0	8755.6
40°	8356.0	7683.6	6499.1	7352.6	8241.5	8913.9	8620.3	7629.4	7573.2	9436.4
42.5°	8913.9	8137.4	7481.6	8968.0	10475.1	11582.6	10795.7	9205.3	8476.7	10408.5
45°	9738.2	8872.2	8670.3	10672.9	13229.2	14973.7	13337.5	10885.2	9742.4	11880.3
47.5°	10881.1	9952.6	9784.0	12469.4	16576.6	18833.2	16156.1	12442.3	11182.9	13887.1
50°	12398.6	11407.7	10839.4	14434.5	20246.7	22767.6	18972.7	13945.3	12833.7	16339.3
52.5°	14401.2	13437.4	12069.7	16306.0	24020.8	26618.8	21801.7	15265.1	14882.1	19185.0
55°	17132.4	16491.3	13751.7	18092.1	27792.8	30492.8	24520.4	16510.0	17588.3	22565.7
57.5°	20521.4	20979.4	16176.9	20163.4	31183.9	34485.5	27251.6	18250.3	21102.2	26346.1
60°	22707.2	26947.7	20821.2	23225.6	35037.2	39000.7	30994.5	21560.2	24795.2	27701.2
62.5°	22178.5	28846.2	26383.5	27135.0	38580.2	42283.6	34662.5	24884.7	25490.5	25704.9
65°	20556.8	27314.0	25249.0	27894.8	39477.4	42468.9	35642.9	24455.9	21622.7	20985.7
67.5°	18325.2	25496.7	22553.2	25879.8	37855.8	39879.2	33817.3	21633.1	16709.8	15748.1
70°	15916.7	23485.8	20783.7	23619.0	34764.5	35366.1	30713.5	19026.8	12290.4	10635.4
72.5°	13631.0	21391.6	19572.2	21302.1	30640.6	29395.7	26672.9	16722.3	8949.2	7671.1
75°	11293.2	18302.3	17846.5	18550.1	25217.8	23154.8	22161.8	13845.4	7023.7	5549.8
77.5°	8714.0	14301.3	15350.5	14855.0	17750.7	17199.0	17178.2	10404.4	5131.4	3703.4
80°	5964.1	9967.2	11992.7	10479.3	11520.2	11239.1	12937.8	6980.0	3722.1	2229.5
82.5°	3505.6	6068.2	8347.6	5073.1	6370.0	6538.6	7704.4	3395.3	2190.0	514.2
85°	1421.8	2396.0	3264.1	1985.9	3072.6	2591.7	2924.8	953.4	609.9	12.5
87.5°	358.1	766.1	537.1	222.7	356.0	326.8	258.1	116.6	25.0	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°
4184.2	0°	4184.2	4184.2	4184.2	4184.2	4184.2	4184.2	4184.2	4184.2	4184.2	4184.2
4727.6	2.5°	4646.4	4598.5	4479.8	4361.2	4265.4	4136.3	4051.0	3949.0	3851.2	3763.7
5268.8	5°	5137.6	4979.4	4762.9	4565.2	4363.3	4167.6	3974.0	3770.0	3582.6	3468.1
5726.8	7.5°	5537.3	5258.4	4971.1	4719.2	4475.7	4246.7	3990.6	3742.9	3449.4	3293.3
6076.5	10°	5835.0	5468.6	5091.8	4802.5	4556.9	4334.1	4117.6	3867.8	3513.9	3318.2
6288.8	12.5°	6030.7	5595.6	5154.3	4823.3	4548.5	4375.7	4280.0	4182.1	3830.3	3601.3
6445.0	15°	6166.0	5685.1	5198.0	4775.4	4438.2	4311.2	4407.0	4519.4	4294.6	4030.2
6607.3	17.5°	6313.8	5801.7	5216.8	4646.4	4223.8	4169.7	4417.4	4677.6	4667.2	4404.9
6761.4	20°	6469.9	5903.7	5204.3	4438.2	3963.6	4011.4	4327.9	4629.7	4756.7	4615.1
6938.3	22.5°	6630.2	6001.6	5156.4	4167.6	3720.0	3869.9	4186.3	4450.7	4600.6	4556.9
7154.8	25°	6832.2	6138.9	5085.6	3876.1	3518.1	3726.3	4021.9	4236.3	4340.4	4338.3
7388.0	27.5°	7073.6	6322.1	5048.1	3640.9	3374.4	3563.9	3826.2	4017.7	4090.5	4090.5
7677.3	30°	7354.7	6538.6	5006.5	3486.9	3291.2	3395.3	3599.3	3786.6	3859.5	3859.5
7993.7	32.5°	7666.9	6746.8	4906.6	3393.2	3228.7	3230.8	3359.9	3530.6	3618.0	3630.5
8389.3	35°	8041.6	6969.5	4688.0	3318.2	3155.9	3070.5	3133.0	3274.5	3378.6	3405.7
8953.4	37.5°	8532.9	7242.3	4375.7	3207.9	3043.5	2901.9	2916.5	3024.7	3139.2	3180.8
9732.0	40°	9192.8	7562.8	4051.0	3049.7	2885.2	2716.6	2710.4	2789.5	2901.9	2947.7
10785.3	42.5°	10065.0	7947.9	3740.8	2897.7	2693.7	2520.9	2510.5	2573.0	2670.8	2718.7
12175.9	45°	11180.8	8420.5	3474.4	2779.1	2506.4	2335.7	2331.5	2383.6	2468.9	2518.9
13955.7	47.5°	12731.7	8893.0	3293.3	2716.6	2358.6	2183.7	2192.0	2237.8	2314.9	2350.2
16260.2	50°	14753.0	9036.7	3201.7	2716.6	2279.5	2048.4	2090.0	2127.5	2185.8	2206.6
19022.6	52.5°	16693.2	8562.1	3118.4	2733.3	2289.9	1933.9	2023.4	2050.5	2100.4	2108.8
21583.1	55°	17644.5	7360.9	3003.9	2737.4	2354.4	1836.1	1969.3	2019.3	2038.0	2035.9
23069.4	57.5°	17317.7	5951.6	2810.3	2720.8	2398.1	1773.6	1902.7	1998.4	2010.9	1992.2
22786.3	60°	16170.7	4382.0	2662.5	2598.0	2381.5	1754.9	1800.7	1952.6	1971.4	1946.4
20604.7	62.5°	14247.2	3041.4	2548.0	2327.3	2308.6	1748.6	1640.4	1852.7	1898.5	1863.1
16562.0	65°	11216.2	2148.3	2194.1	2040.1	2150.4	1715.3	1473.8	1732.0	1794.4	1740.3
12015.6	67.5°	7589.9	1550.9	1777.8	1848.6	1894.4	1640.4	1353.1	1594.6	1677.9	1607.1
7710.6	70°	4098.9	1088.7	1174.1	1557.1	1609.2	1511.3	1244.9	1455.1	1550.9	1473.8
5481.1	72.5°	2421.0	782.7	822.3	1251.1	1340.6	1330.2	1124.1	1292.7	1409.3	1317.7
3782.5	75°	1334.4	528.8	587.0	907.6	1088.7	1026.3	965.9	1095.0	1213.6	1124.1
2371.1	77.5°	597.4	316.4	408.0	595.4	855.6	703.6	747.3	853.5	963.8	870.2
1319.8	80°	231.1	176.9	270.6	324.7	622.4	389.3	480.9	628.7	707.8	632.8
287.3	82.5°	29.1	79.1	116.6	127.0	362.2	206.1	278.9	395.5	389.3	337.2
0.0	85°	0.0	14.6	16.7	8.3	156.1	74.9	91.6	129.1	120.7	91.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	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°
4184.2	0°	4184.2	4184.2	4184.2	4184.2	4184.2	4184.2	4184.2	4184.2	4184.2	4184.2
3747.1	2.5°	3645.1	3570.1	3532.7	3501.4	3530.6	3547.2	3547.2	3618.0	3659.6	3676.3
3395.3	5°	3212.1	3072.6	2978.9	2922.7	2941.4	2962.3	2985.2	3074.7	3135.0	3174.6
3151.7	7.5°	2870.7	2658.3	2527.2	2458.5	2468.9	2483.5	2502.2	2589.6	2650.0	2702.1
3105.9	10°	2702.1	2402.3	2229.5	2146.2	2131.7	2123.3	2117.1	2169.1	2214.9	2256.6
3293.3	12.5°	2710.4	2292.0	2081.7	1979.7	1936.0	1886.0	1846.5	1854.8	1883.9	1936.0
3628.4	15°	2816.5	2256.6	2004.7	1877.7	1804.8	1746.6	1698.7	1688.3	1698.7	1707.0
4011.4	17.5°	2960.2	2252.4	1938.1	1779.9	1704.9	1657.0	1613.3	1598.7	1600.8	1611.2
4265.4	20°	3074.7	2239.9	1863.1	1686.2	1619.6	1577.9	1534.2	1519.6	1523.8	1525.9
4290.4	22.5°	3135.0	2221.2	1779.9	1592.5	1536.3	1494.7	1455.1	1453.0	1453.0	1465.5
4155.1	25°	3135.0	2181.6	1704.9	1503.0	1453.0	1415.6	1367.7	1376.0	1380.2	1396.8
3944.8	27.5°	3060.1	2106.7	1644.5	1426.0	1373.9	1336.5	1292.7	1303.1	1309.4	1328.1
3736.7	30°	2964.3	2017.2	1575.9	1353.1	1292.7	1265.7	1228.2	1232.4	1240.7	1261.5
3543.1	32.5°	2862.3	1911.0	1519.6	1280.2	1219.9	1199.1	1157.4	1163.7	1172.0	1194.9
3351.5	35°	2749.9	1786.1	1453.0	1213.6	1153.3	1136.6	1088.7	1092.9	1105.4	1130.4
3145.5	37.5°	2631.3	1684.1	1386.4	1149.1	1086.6	1070.0	1020.0	1024.2	1038.8	1067.9
2929.0	40°	2514.7	1584.2	1315.6	1080.4	1018.0	1003.4	949.3	953.4	970.1	1001.3
2710.4	42.5°	2387.7	1507.2	1224.0	1009.6	943.0	928.4	878.5	884.7	903.5	934.7
2508.5	45°	2235.8	1457.2	1122.0	943.0	868.1	853.5	807.7	820.2	841.0	872.2
2335.7	47.5°	2079.6	1436.4	1036.7	872.2	791.0	778.6	741.1	761.9	784.8	809.8
2187.9	50°	1929.7	1409.3	949.3	805.6	724.4	711.9	687.0	714.0	736.9	759.8
2081.7	52.5°	1759.0	1351.0	870.2	747.3	668.2	664.1	651.6	676.6	697.4	718.2
1990.1	55°	1582.1	1257.3	801.5	695.3	620.3	624.5	618.3	639.1	655.7	674.5
1906.8	57.5°	1428.0	1138.7	747.3	639.1	578.7	591.2	582.9	593.3	603.7	626.6
1806.9	60°	1271.9	997.1	687.0	572.5	537.1	551.7	528.8	526.7	530.8	537.1
1659.1	62.5°	1061.7	849.3	612.0	514.2	491.3	497.5	453.8	420.5	420.5	426.7
1453.0	65°	853.5	711.9	528.8	447.6	428.8	424.7	362.2	316.4	312.3	331.0
1213.6	67.5°	701.5	591.2	445.5	372.6	360.1	364.3	318.5	272.7	268.5	289.4
988.8	70°	580.8	476.7	356.0	287.3	299.8	318.5	272.7	229.0	222.7	241.5
803.5	72.5°	462.1	372.6	272.7	212.3	247.7	270.6	222.7	181.1	176.9	193.6
620.3	75°	339.3	266.5	185.3	154.0	191.5	212.3	162.4	129.1	122.8	137.4
414.3	77.5°	210.3	149.9	116.6	91.6	131.1	141.6	85.3	74.9	72.9	83.3
251.9	80°	97.8	64.5	56.2	31.2	47.9	56.2	35.4	39.6	41.6	50.0
127.0	82.5°	27.1	10.4	2.1	0.0	0.0	16.7	8.3	16.7	20.8	31.2
10.4	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	10.4	18.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3
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°
4184.2	0°	4184.2	4184.2	4184.2	4184.2	4184.2	4184.2	4184.2	4184.2
3792.9	2.5°	3880.3	3963.6	4096.8	4234.2	4369.5	4506.9	4640.1	4688.0
3355.7	5°	3520.2	3711.7	3976.1	4259.2	4550.6	4846.2	5116.8	5239.7
2904.0	7.5°	3118.4	3393.2	3790.8	4234.2	4698.4	5162.6	5589.4	5787.1
2456.4	10°	2689.6	3037.2	3491.0	4090.5	4756.7	5397.9	5984.9	6241.0
2063.0	12.5°	2281.5	2645.8	3147.5	3865.7	4710.9	5533.2	6238.9	6540.7
1786.1	15°	1940.1	2262.8	2804.1	3599.3	4563.1	5541.5	6359.6	6690.6
1632.1	17.5°	1684.1	1894.4	2454.3	3303.7	4369.5	5464.5	6401.2	6755.1
1548.8	20°	1557.1	1615.4	2000.5	2924.8	4188.4	5391.6	6442.9	6815.5
1482.2	22.5°	1482.2	1496.7	1636.2	2435.6	3971.9	5368.7	6515.7	6898.8
1421.8	25°	1421.8	1426.0	1463.4	1929.7	3640.9	5354.1	6628.1	7013.3
1359.4	27.5°	1361.4	1361.4	1382.3	1555.0	3191.3	5291.7	6773.9	7150.7
1296.9	30°	1301.1	1301.1	1315.6	1376.0	2664.6	5168.9	6948.7	7329.7
1234.5	32.5°	1238.6	1238.6	1251.1	1294.8	2127.5	5014.8	7109.0	7510.8
1169.9	35°	1176.2	1172.0	1188.7	1234.5	1692.4	4819.1	7269.3	7706.5
1105.4	37.5°	1109.5	1107.5	1124.1	1176.2	1461.4	4592.2	7390.1	7972.9
1040.9	40°	1038.8	1038.8	1057.5	1113.7	1394.7	4307.0	7581.6	8356.0
974.2	42.5°	974.2	970.1	990.9	1059.6	1344.8	4034.3	7925.0	8913.9
913.9	45°	911.8	903.5	922.2	1007.5	1257.3	3938.6	8566.2	9738.2
855.6	47.5°	853.5	832.7	849.3	945.1	1178.2	4296.6	9615.4	10881.1
803.5	50°	805.6	766.1	780.6	882.6	1117.9	5073.1	10976.8	12398.6
755.7	52.5°	755.7	703.6	711.9	805.6	1063.8	5812.1	12452.8	14401.2
707.8	55°	703.6	645.3	649.5	728.6	986.7	5922.4	13893.3	17132.4
653.7	57.5°	645.3	591.2	591.2	657.8	930.5	5133.5	15000.8	20521.4
587.0	60°	580.8	545.4	535.0	601.6	980.5	3622.2	15129.8	22707.2
501.7	62.5°	510.0	491.3	476.7	547.5	1018.0	2146.2	14091.1	22178.5
395.5	65°	428.8	424.7	414.3	601.6	857.7	1267.8	12096.8	20556.8
337.2	67.5°	360.1	353.9	353.9	630.8	651.6	797.3	9450.9	18325.2
287.3	70°	310.2	287.3	287.3	476.7	395.5	551.7	6599.0	15916.7
237.3	72.5°	260.2	235.2	218.6	381.0	295.6	403.9	4123.9	13631.0
181.1	75°	208.2	189.4	168.6	251.9	220.7	306.0	2396.0	11293.2
114.5	77.5°	149.9	141.6	118.7	185.3	160.3	220.7	1426.0	8714.0
70.8	80°	77.0	79.1	74.9	106.2	108.2	149.9	811.9	5964.1
45.8	82.5°	45.8	35.4	39.6	52.0	62.5	85.3	306.0	3505.6
33.3	85°	29.1	18.7	18.7	25.0	31.2	33.3	93.7	1421.8
16.7	87.5°	14.6	6.2	8.3	12.5	10.4	8.3	4.2	358.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)