

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: P951792

Luminaire Tested: **GALN-SB5D-830-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951792  
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-SB5D-830-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

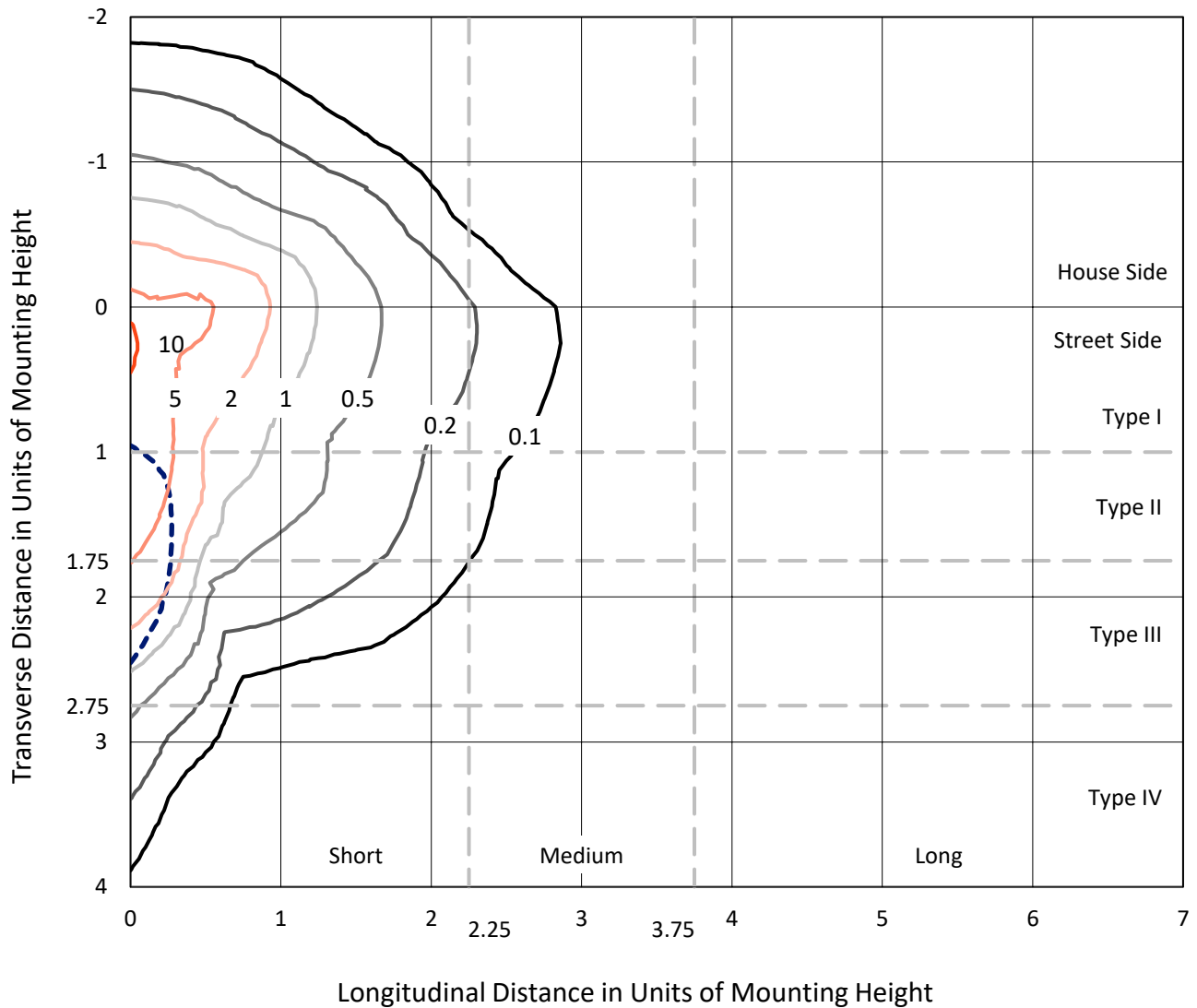
Lumens per Lamp: N/A  
Luminaire Lumens: 35251 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

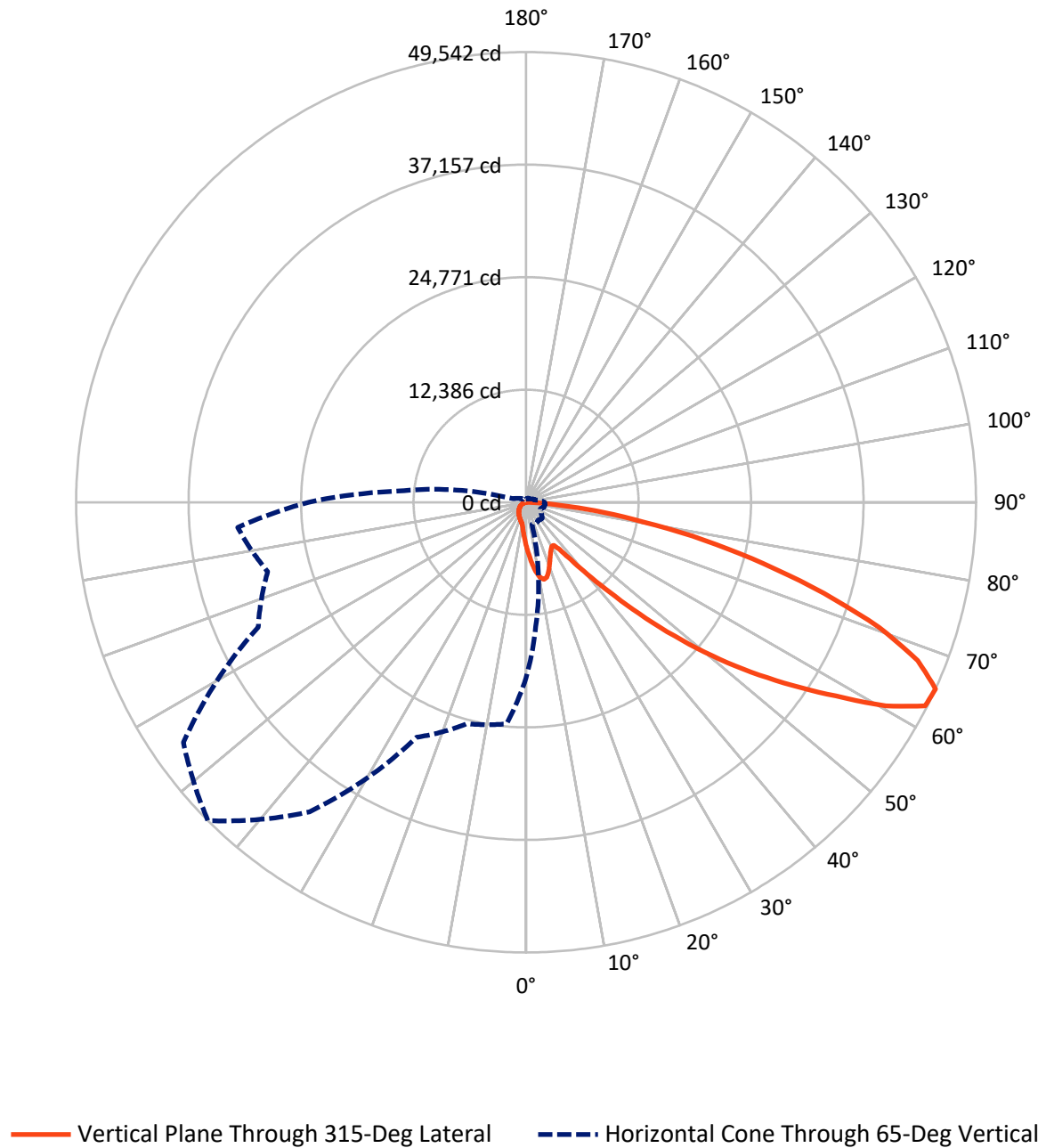
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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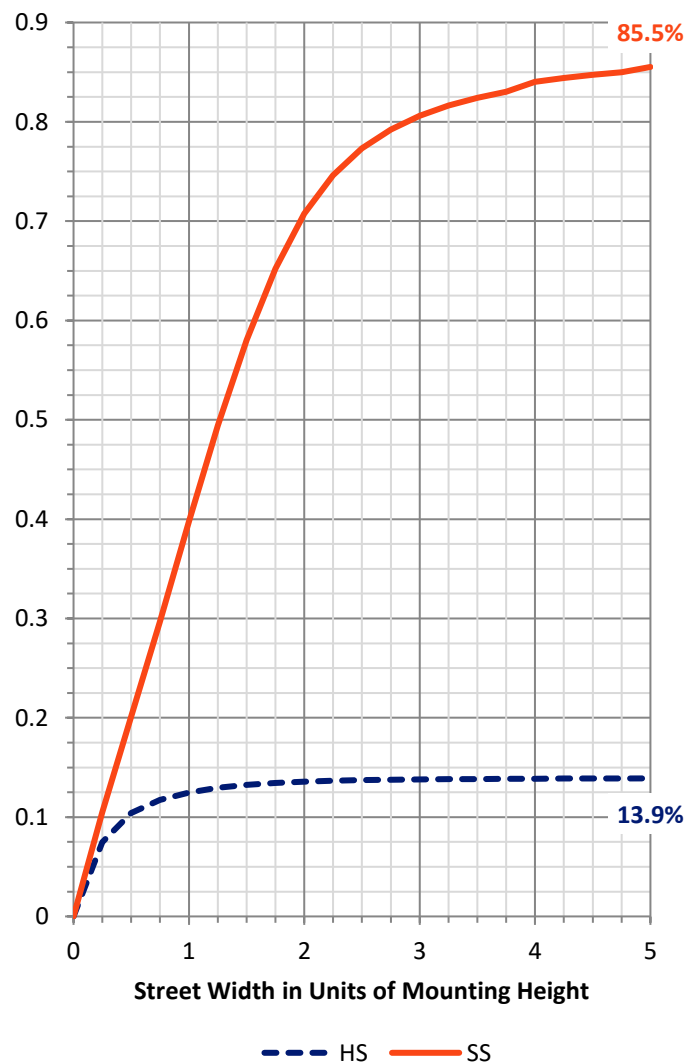
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4936.6	0.0	4936.6
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	30314.4	0.0	30314.4
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	35251.0	0.0	35251.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	480.6	1.4
10°-20°	1440.6	4.1
20°-30°	2122.3	6.0
30°-40°	2726.6	7.7
40°-50°	4409.7	12.5
50°-60°	7732.7	21.9
60°-70°	9675.8	27.4
70°-80°	5654.1	16.0
80°-90°	1008.8	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°	35251.0	100.0
0°-180°	35251.0	100.0

**Coefficient of Utilization**



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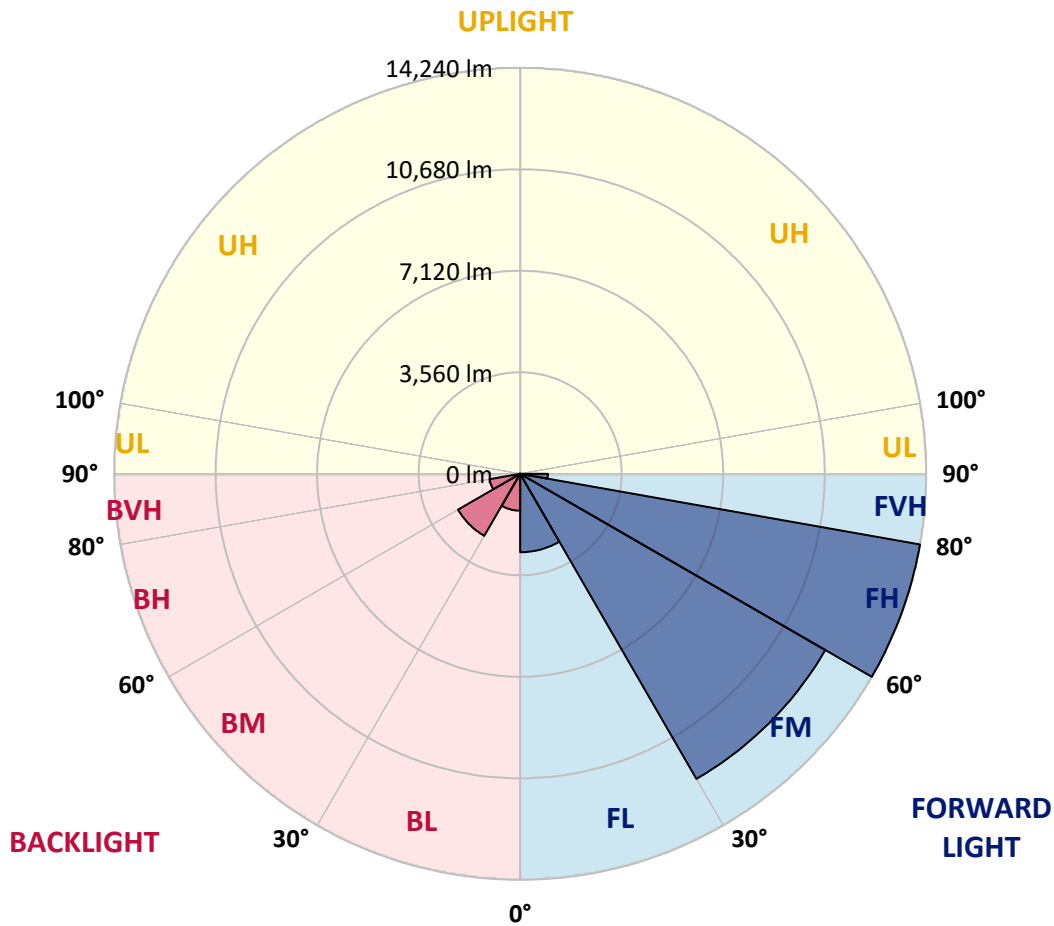
CATALOG NUMBER: GALN-SB5D-830-U-SLR-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2749.5	7.8			
FM (30°-60°)	12355.1	35.0			
FH (60°-80°)	14239.8	40.4			G5
FVH (80°-90°)	970.0	2.8			G5
BL (0°-30°)	1294.0	3.7	B3/2500		
BM (30°-60°)	2513.9	7.1	B3/5000		
BH (60°-80°)	1090.0	3.1	B3/2500		G3/2500
BVH (80°-90°)	38.8	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°	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1
2.5°	5515.0	5420.2	5364.4	5226.0	5087.6	4975.8	4825.3	4725.7	4606.7	4492.6
5°	6146.3	5993.4	5808.8	5556.2	5325.5	5090.0	4861.7	4635.9	4397.9	4179.3
7.5°	6680.6	6459.6	6134.2	5799.1	5505.2	5221.1	4954.0	4655.3	4366.3	4023.9
10°	7088.6	6806.9	6379.5	5939.9	5602.4	5315.8	5056.0	4803.4	4512.0	4099.2
12.5°	7336.3	7035.1	6527.6	6012.8	5626.7	5306.1	5104.6	4992.8	4878.7	4468.3
15°	7518.4	7193.0	6632.0	6063.8	5570.8	5177.4	5029.3	5141.0	5272.1	5009.8
17.5°	7707.8	7365.4	6768.0	6085.6	5420.2	4927.3	4864.1	5153.1	5456.7	5444.5
20°	7887.5	7547.5	6887.0	6071.1	5177.4	4623.7	4679.6	5048.7	5400.8	5549.0
22.5°	8093.9	7734.5	7001.2	6015.2	4861.7	4339.6	4514.4	4883.6	5192.0	5366.8
25°	8346.5	7970.1	7161.4	5932.6	4521.7	4104.0	4346.9	4691.7	4941.8	5063.3
27.5°	8618.5	8251.8	7375.1	5888.9	4247.3	3936.5	4157.5	4463.4	4686.9	4771.9
30°	8956.0	8579.6	7627.7	5840.4	4067.6	3839.3	3960.8	4198.7	4417.3	4502.3
32.5°	9325.2	8943.9	7870.5	5723.8	3958.3	3766.5	3768.9	3919.5	4118.6	4220.6
35°	9786.6	9381.0	8130.4	5468.8	3870.9	3681.5	3581.9	3654.8	3819.9	3941.3
37.5°	10444.7	9954.1	8448.5	5104.6	3742.2	3550.4	3385.2	3402.2	3528.5	3662.1
40°	11352.9	10723.9	8822.5	4725.7	3557.6	3365.8	3169.1	3161.8	3254.1	3385.2
42.5°	12581.7	11741.4	9271.7	4363.9	3380.4	3142.4	2940.8	2928.7	3001.5	3115.7
45°	14203.9	13043.1	9823.0	4053.0	3241.9	2923.8	2724.7	2719.8	2780.5	2880.1
47.5°	16280.2	14852.3	10374.2	3841.8	3169.1	2751.4	2547.4	2557.1	2610.6	2700.4
50°	18968.4	17210.3	10541.8	3734.9	3169.1	2659.1	2389.6	2438.1	2481.9	2549.8
52.5°	22191.0	19473.5	9988.1	3637.8	3188.5	2671.3	2256.0	2360.4	2392.0	2450.3
55°	25177.9	20583.3	8586.9	3504.2	3193.4	2746.5	2141.9	2297.3	2355.6	2377.4
57.5°	26911.8	20202.1	6942.9	3278.4	3174.0	2797.5	2069.0	2219.6	2331.3	2345.9
60°	26581.5	18864.0	5111.8	3106.0	3030.7	2778.1	2047.2	2100.6	2277.9	2299.7
62.5°	24036.6	16620.1	3547.9	2972.4	2715.0	2693.1	2039.9	1913.6	2161.3	2214.7
65°	19320.6	13084.4	2506.1	2559.6	2379.9	2508.6	2001.0	1719.3	2020.5	2093.3
67.5°	14016.9	8854.0	1809.2	2073.9	2156.4	2209.9	1913.6	1578.5	1860.2	1957.3
70°	8994.9	4781.6	1270.1	1369.6	1816.5	1877.2	1763.0	1452.2	1697.5	1809.2
72.5°	6394.0	2824.3	913.1	959.2	1459.5	1563.9	1551.8	1311.3	1508.1	1644.0
75°	4412.4	1556.6	616.8	684.8	1058.8	1270.1	1197.2	1126.8	1277.4	1415.8
77.5°	2766.0	697.0	369.1	476.0	694.5	998.1	820.8	871.8	995.7	1124.4
80°	1539.6	269.6	206.4	315.7	378.8	726.1	454.1	561.0	733.4	825.7
82.5°	335.1	34.0	92.3	136.0	148.1	422.5	240.4	325.4	461.4	454.1
85°	0.0	0.0	17.0	19.4	9.7	182.1	87.4	106.9	150.6	140.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9
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°
4881.1	0°	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1
4390.6	2.5°	4371.2	4252.2	4164.7	4121.0	4084.6	4118.6	4138.0	4138.0	4220.6	4269.2
4045.8	5°	3960.8	3747.1	3584.4	3475.1	3409.5	3431.4	3455.6	3482.4	3586.8	3657.2
3841.8	7.5°	3676.6	3348.8	3101.1	2948.1	2868.0	2880.1	2897.1	2919.0	3021.0	3091.4
3870.9	10°	3623.2	3152.1	2802.4	2600.8	2503.7	2486.7	2477.0	2469.7	2530.4	2583.8
4201.2	12.5°	3841.8	3161.8	2673.7	2428.4	2309.4	2258.4	2200.2	2154.0	2163.7	2197.7
4701.4	15°	4232.7	3285.7	2632.4	2338.6	2190.4	2105.4	2037.4	1981.6	1969.5	1981.6
5138.5	17.5°	4679.6	3453.2	2627.6	2260.9	2076.3	1988.9	1933.0	1882.0	1865.0	1867.5
5383.8	20°	4975.8	3586.8	2613.0	2173.4	1967.0	1889.3	1840.7	1789.7	1772.8	1777.6
5315.8	22.5°	5005.0	3657.2	2591.1	2076.3	1857.7	1792.2	1743.6	1697.5	1695.0	1695.0
5060.8	25°	4847.1	3657.2	2545.0	1988.9	1753.3	1695.0	1651.3	1595.5	1605.2	1610.0
4771.9	27.5°	4601.9	3569.8	2457.6	1918.5	1663.5	1602.8	1559.0	1508.1	1520.2	1527.5
4502.3	30°	4359.0	3458.1	2353.1	1838.3	1578.5	1508.1	1476.5	1432.8	1437.6	1447.3
4235.2	32.5°	4133.2	3339.1	2229.3	1772.8	1493.5	1423.1	1398.8	1350.2	1357.5	1367.2
3972.9	35°	3909.8	3208.0	2083.6	1695.0	1415.8	1345.3	1325.9	1270.1	1274.9	1289.5
3710.6	37.5°	3669.4	3069.5	1964.6	1617.3	1340.5	1267.6	1248.2	1189.9	1194.8	1211.8
3438.7	40°	3416.8	2933.5	1848.0	1534.8	1260.4	1187.5	1170.5	1107.4	1112.2	1131.6
3171.5	42.5°	3161.8	2785.4	1758.2	1427.9	1177.8	1100.1	1083.1	1024.8	1032.1	1053.9
2938.4	45°	2926.3	2608.1	1699.9	1308.9	1100.1	1012.7	995.7	942.2	956.8	981.1
2741.7	47.5°	2724.7	2426.0	1675.6	1209.4	1017.5	922.8	908.2	864.5	888.8	915.5
2574.1	50°	2552.3	2251.2	1644.0	1107.4	939.8	845.1	830.5	801.4	832.9	859.7
2460.0	52.5°	2428.4	2052.0	1576.0	1015.1	871.8	779.5	774.7	760.1	789.2	813.5
2375.0	55°	2321.6	1845.6	1466.8	934.9	811.1	723.7	728.5	721.2	745.5	765.0
2324.0	57.5°	2224.4	1665.9	1328.3	871.8	745.5	675.1	689.7	680.0	692.1	704.2
2270.6	60°	2107.9	1483.8	1163.2	801.4	667.8	626.5	643.5	616.8	614.4	619.2
2173.4	62.5°	1935.5	1238.5	990.8	714.0	599.8	573.1	580.4	529.4	490.5	490.5
2030.2	65°	1695.0	995.7	830.5	616.8	522.1	500.3	495.4	422.5	369.1	364.3
1874.7	67.5°	1415.8	818.4	689.7	519.7	434.7	420.1	425.0	371.5	318.1	313.3
1719.3	70°	1153.5	677.5	556.1	415.3	335.1	349.7	371.5	318.1	267.1	259.8
1537.2	72.5°	937.4	539.1	434.7	318.1	247.7	289.0	315.7	259.8	211.3	206.4
1311.3	75°	723.7	395.8	310.8	216.1	179.7	223.4	247.7	189.4	150.6	143.3
1015.1	77.5°	483.3	245.3	174.8	136.0	106.9	153.0	165.1	99.6	87.4	85.0
738.2	80°	293.8	114.1	75.3	65.6	36.4	55.9	65.6	41.3	46.1	48.6
393.4	82.5°	148.1	31.6	12.1	2.4	0.0	0.0	19.4	9.7	19.4	24.3
106.9	85°	12.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	12.1
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°
4881.1	0°	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1
4288.6	2.5°	4424.6	4526.6	4623.7	4779.1	4939.4	5097.3	5257.5	5413.0	5468.8	5510.1
3703.3	5°	3914.6	4106.5	4329.9	4638.3	4968.6	5308.5	5653.4	5969.1	6112.3	6209.5
3152.1	7.5°	3387.7	3637.8	3958.3	4422.2	4939.4	5481.0	6022.5	6520.3	6751.0	6938.0
2632.4	10°	2865.5	3137.5	3543.1	4072.5	4771.9	5549.0	6296.9	6981.7	7280.4	7516.0
2258.4	12.5°	2406.6	2661.6	3086.5	3671.8	4509.6	5495.5	6454.8	7278.0	7630.1	7894.8
1991.3	15°	2083.6	2263.3	2639.7	3271.1	4198.7	5323.1	6464.5	7418.8	7805.0	8081.8
1879.6	17.5°	1903.9	1964.6	2209.9	2863.1	3853.9	5097.3	6374.6	7467.4	7880.2	8137.7
1780.0	20°	1806.7	1816.5	1884.5	2333.7	3411.9	4886.0	6289.6	7516.0	7950.7	8166.8
1709.6	22.5°	1729.0	1729.0	1746.0	1908.7	2841.3	4633.4	6262.9	7601.0	8047.8	8181.4
1629.5	25°	1658.6	1658.6	1663.5	1707.2	2251.2	4247.3	6245.9	7732.1	8181.4	8217.8
1549.3	27.5°	1585.8	1588.2	1588.2	1612.5	1814.0	3722.8	6173.1	7902.1	8341.6	8266.4
1471.6	30°	1512.9	1517.8	1517.8	1534.8	1605.2	3108.4	6029.8	8106.1	8550.5	8329.5
1393.9	32.5°	1440.1	1444.9	1444.9	1459.5	1510.5	2481.9	5850.1	8293.1	8761.8	8356.2
1318.6	35°	1364.8	1372.1	1367.2	1386.6	1440.1	1974.3	5621.8	8480.1	8990.0	8441.2
1245.8	37.5°	1289.5	1294.4	1291.9	1311.3	1372.1	1704.8	5357.1	8620.9	9300.9	8630.6
1168.1	40°	1214.2	1211.8	1211.8	1233.6	1299.2	1627.0	5024.4	8844.3	9747.7	8963.3
1090.4	42.5°	1136.5	1136.5	1131.6	1155.9	1236.1	1568.8	4706.3	9245.0	10398.5	9492.7
1017.5	45°	1066.1	1063.7	1053.9	1075.8	1175.4	1466.8	4594.6	9993.0	11360.2	10350.0
944.7	47.5°	998.1	995.7	971.4	990.8	1102.5	1374.5	5012.3	11216.9	12693.4	11610.3
886.4	50°	937.4	939.8	893.7	910.7	1029.7	1304.1	5918.1	12805.1	14463.7	13307.8
837.8	52.5°	881.5	881.5	820.8	830.5	939.8	1240.9	6780.2	14526.8	16799.8	15675.5
786.8	55°	825.7	820.8	752.8	757.7	849.9	1151.1	6908.9	16207.3	19985.9	19238.0
731.0	57.5°	762.5	752.8	689.7	689.7	767.4	1085.5	5988.5	17499.2	23939.4	24473.7
626.5	60°	684.8	677.5	636.2	624.1	701.8	1143.8	4225.5	17649.8	26489.3	31436.0
497.8	62.5°	585.3	595.0	573.1	556.1	638.7	1187.5	2503.7	16438.0	25872.4	33650.7
386.1	65°	461.4	500.3	495.4	483.3	701.8	1000.5	1478.9	14111.6	23980.7	31863.4
337.6	67.5°	393.4	420.1	412.8	412.8	735.8	760.1	930.1	11025.1	21377.4	29743.4
281.7	70°	335.1	361.8	335.1	335.1	556.1	461.4	643.5	7698.1	18567.7	27397.5
225.8	72.5°	276.8	303.6	274.4	255.0	444.4	344.8	471.1	4810.7	15901.3	24954.5
160.3	75°	211.3	242.8	221.0	196.7	293.8	257.4	357.0	2795.1	13174.2	21350.7
97.1	77.5°	133.6	174.8	165.1	138.4	216.1	187.0	257.4	1663.5	10165.4	16683.3
58.3	80°	82.6	89.9	92.3	87.4	123.8	126.3	174.8	947.1	6957.4	11627.3
36.4	82.5°	53.4	53.4	41.3	46.1	60.7	72.9	99.6	357.0	4089.5	7078.9
21.9	85°	38.9	34.0	21.9	21.9	29.1	36.4	38.9	109.3	1658.6	2795.1
9.7	87.5°	19.4	17.0	7.3	9.7	14.6	12.1	9.7	4.9	417.7	893.7
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°
4881.1	0°	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1	4881.1
5602.4	2.5°	5650.9	5726.2	5731.1	5731.1	5665.5	5663.1	5529.5	5515.0
6428.0	5°	6653.9	6702.5	6714.6	6690.3	6559.2	6462.0	6202.2	6146.3
7270.7	7.5°	7571.8	7669.0	7669.0	7610.7	7397.0	7197.9	6821.4	6680.6
7967.7	10°	8305.2	8416.9	8392.6	8273.6	8004.1	7729.7	7273.1	7088.6
8390.2	12.5°	8662.2	8776.3	8713.2	8577.2	8314.9	8025.9	7545.1	7336.3
8511.6	15°	8654.9	8623.3	8557.8	8540.8	8414.5	8195.9	7746.7	7518.4
8436.4	17.5°	8346.5	8079.4	8028.4	8198.4	8358.6	8305.2	7921.5	7707.8
8256.6	20°	7858.4	7392.1	7346.0	7671.4	8127.9	8361.1	8084.2	7887.5
7996.8	22.5°	7343.6	6840.9	6734.0	7093.4	7780.7	8378.1	8290.6	8093.9
7710.3	25°	6855.4	6350.3	6243.5	6578.6	7394.6	8348.9	8514.1	8346.5
7435.8	27.5°	6447.5	5959.4	5859.8	6194.9	7023.0	8266.4	8737.5	8618.5
7163.9	30°	6131.8	5680.1	5607.2	5930.2	6702.5	8164.4	9021.6	8956.0
6911.3	32.5°	5947.2	5616.9	5643.7	5908.4	6530.0	8052.7	9293.6	9325.2
6787.4	35°	6129.3	6143.9	6377.0	6486.3	6690.3	8035.7	9662.7	9786.6
6935.6	37.5°	7035.1	7540.3	8023.5	7933.7	7474.7	8232.4	10214.0	10444.7
7581.5	40°	8577.2	9614.1	10398.5	10056.1	8900.2	8834.6	11008.1	11352.9
8727.8	42.5°	10461.7	12219.8	13511.8	12593.8	10738.5	9888.5	12142.1	12581.7
10114.4	45°	12450.5	15432.6	17467.7	15558.9	12698.2	11365.0	13859.0	14203.9
11413.6	47.5°	14546.3	19337.6	21970.0	18847.0	14514.7	13045.5	16200.0	16280.2
12644.8	50°	16838.7	23618.9	26559.7	22132.7	16268.0	14971.2	19060.7	18968.4
14080.0	52.5°	19021.9	28021.6	31052.3	25432.9	17807.6	17360.8	22380.4	22191.0
16042.2	55°	21105.4	32421.9	35571.6	28604.4	19259.8	20517.8	26324.1	25177.9
18871.3	57.5°	23521.7	36377.8	40229.3	31790.5	21290.0	24617.0	30734.2	26911.8
24289.1	60°	27093.9	40872.8	45496.6	36156.8	25151.2	28925.0	32315.1	26581.5
30777.9	62.5°	31654.5	45006.0	49326.2	40435.7	29029.4	29736.1	29986.2	24036.6
29454.4	65°	32540.9	46052.7	49542.3	41579.5	28529.1	25224.1	24481.0	19320.6
26309.6	67.5°	30190.2	44160.9	46521.4	39449.8	25236.2	19493.0	18371.0	14016.9
24245.4	70°	27552.9	40554.7	41256.5	35829.0	22195.8	14337.4	12406.8	8994.9
22832.1	72.5°	24850.1	35744.0	34291.8	31115.4	19507.5	10439.8	8948.7	6394.0
20818.9	75°	21639.7	29417.9	27011.4	25853.0	16151.5	8193.5	6474.2	4412.4
17907.2	77.5°	17329.2	20707.2	20063.7	20039.4	12137.3	5986.1	4320.2	2766.0
13990.2	80°	12224.7	13438.9	13111.1	15092.7	8142.5	4342.0	2600.8	1539.6
9738.0	82.5°	5918.1	7431.0	7627.7	8987.6	3960.8	2554.7	599.8	335.1
3807.8	85°	2316.7	3584.4	3023.4	3411.9	1112.2	711.5	14.6	0.0
626.5	87.5°	259.8	415.3	381.3	301.1	136.0	29.1	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)