

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: P948936

Luminaire Tested: **GALN-SB3D-830-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948936  
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-SB3D-830-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

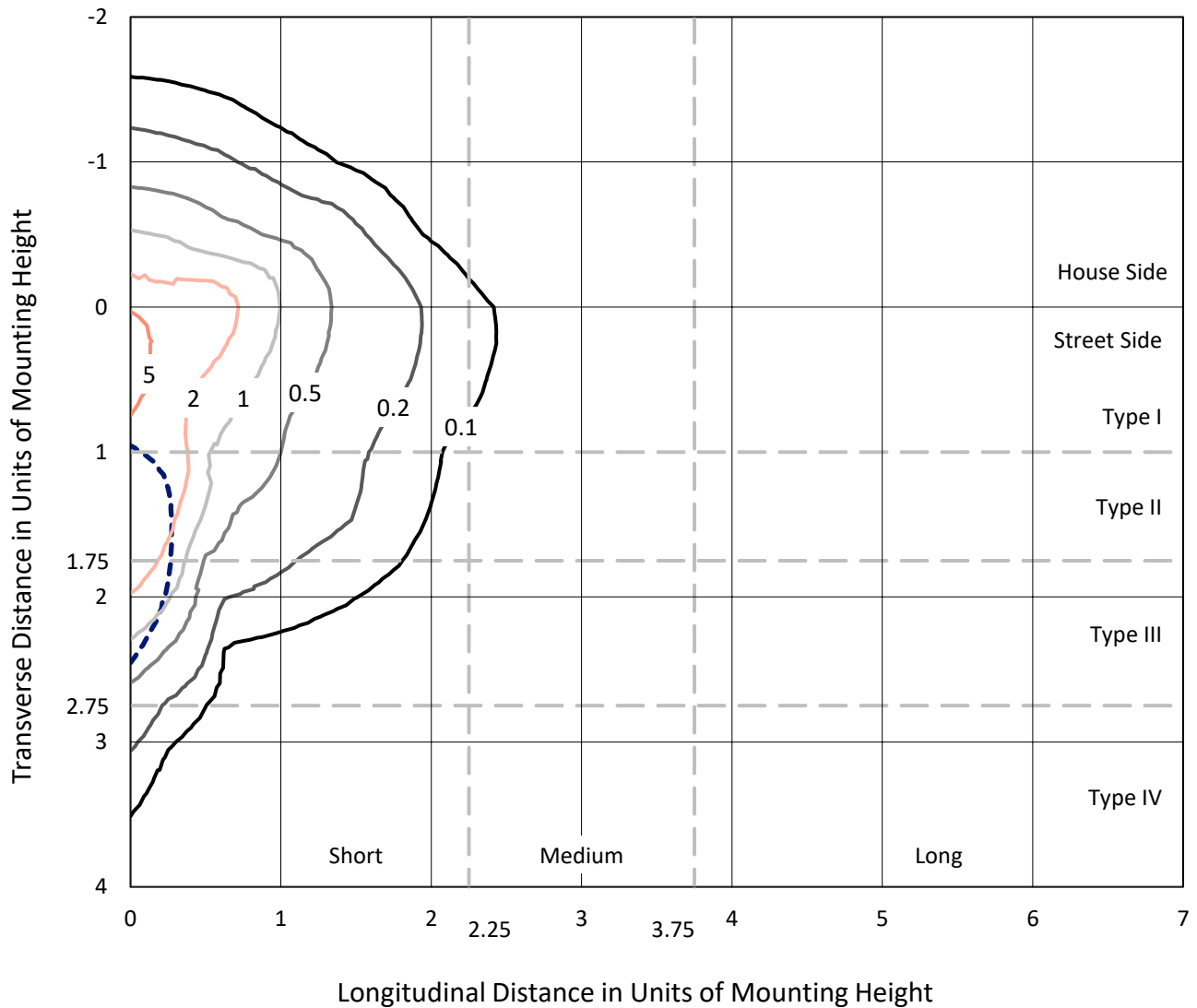
Lumens per Lamp: N/A  
Luminaire Lumens: 20938 lumens  
Efficiency: N/A  
Efficacy: 96.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

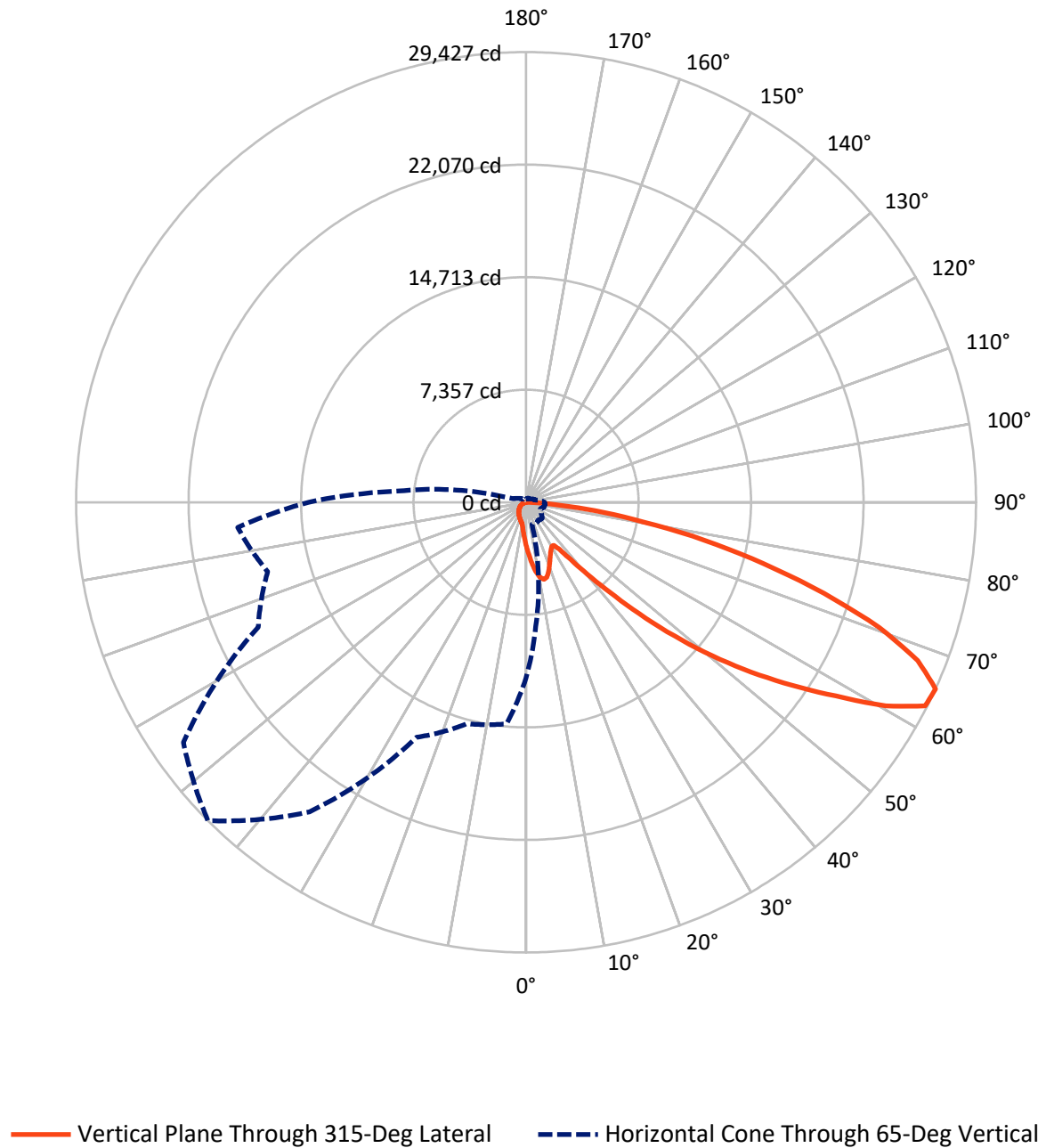
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	2932.2	0.0	2932.2
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	18005.8	0.0	18005.8
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	20938.0	0.0	20938.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	285.4	1.4
10°-20°	855.7	4.1
20°-30°	1260.6	6.0
30°-40°	1619.5	7.7
40°-50°	2619.2	12.5
50°-60°	4593.0	21.9
60°-70°	5747.1	27.4
70°-80°	3358.3	16.0
80°-90°	599.2	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°	20938.0	100.0
0°-180°	20938.0	100.0

**Coefficient of Utilization**



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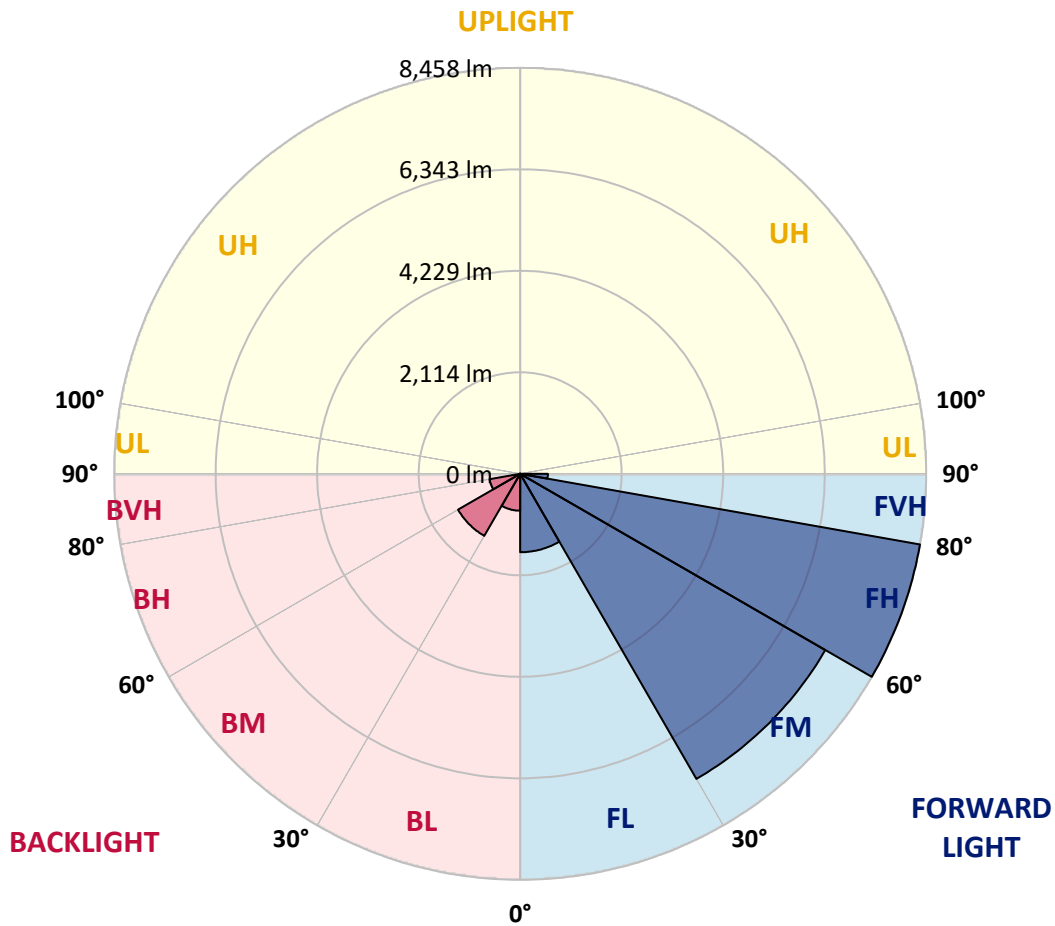
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1633.1	7.8			
FM (30°-60°)	7338.5	35.0			
FH (60°-80°)	8458.0	40.4			G4/12000
FVH (80°-90°)	576.2	2.8			G4/750
BL (0°-30°)	768.6	3.7	B2/1000		
BM (30°-60°)	1493.2	7.1	B2/2500		
BH (60°-80°)	647.5	3.1	B2/1000		G2/1000
BVH (80°-90°)	23.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2
2.5°	3275.7	3219.5	3186.3	3104.1	3021.8	2955.5	2866.1	2806.9	2736.3	2668.5
5°	3650.7	3559.9	3450.2	3300.2	3163.2	3023.3	2887.7	2753.6	2612.2	2482.4
7.5°	3968.1	3836.8	3643.5	3444.5	3269.9	3101.2	2942.5	2765.1	2593.5	2390.1
10°	4210.4	4043.1	3789.2	3528.1	3327.6	3157.4	3003.1	2853.1	2680.0	2434.8
12.5°	4357.5	4178.7	3877.2	3571.4	3342.1	3151.7	3031.9	2965.6	2897.8	2654.0
15°	4465.7	4272.4	3939.2	3601.7	3308.9	3075.2	2987.2	3053.6	3131.5	2975.7
17.5°	4578.2	4374.8	4020.0	3614.7	3219.5	2926.6	2889.1	3060.8	3241.1	3233.9
20°	4684.9	4483.0	4090.7	3606.0	3075.2	2746.3	2779.5	2998.8	3207.9	3295.9
22.5°	4807.6	4594.1	4158.5	3572.8	2887.7	2577.6	2681.4	2900.7	3083.9	3187.7
25°	4957.6	4734.0	4253.7	3523.8	2685.8	2437.7	2581.9	2786.7	2935.3	3007.4
27.5°	5119.1	4901.3	4380.6	3497.8	2522.8	2338.1	2469.4	2651.1	2783.9	2834.3
30°	5319.6	5096.0	4530.6	3469.0	2416.0	2280.4	2352.6	2493.9	2623.7	2674.2
32.5°	5538.9	5312.4	4674.8	3399.8	2351.1	2237.2	2238.6	2328.0	2446.3	2506.9
35°	5812.9	5572.0	4829.2	3248.3	2299.2	2186.7	2127.6	2170.8	2268.9	2341.0
37.5°	6203.8	5912.4	5018.1	3031.9	2222.8	2108.8	2010.7	2020.8	2095.8	2175.2
40°	6743.3	6369.7	5240.3	2806.9	2113.1	1999.2	1882.3	1878.0	1932.8	2010.7
42.5°	7473.1	6974.0	5507.1	2592.0	2007.8	1866.5	1746.8	1739.5	1782.8	1850.6
45°	8436.7	7747.2	5834.5	2407.4	1925.6	1736.7	1618.4	1615.5	1651.6	1710.7
47.5°	9669.9	8821.8	6162.0	2281.9	1882.3	1634.2	1513.1	1518.9	1550.6	1604.0
50°	11266.7	10222.4	6261.5	2218.4	1882.3	1579.4	1419.3	1448.2	1474.1	1514.5
52.5°	13180.7	11566.7	5932.6	2160.7	1893.9	1586.7	1340.0	1402.0	1420.8	1455.4
55°	14954.9	12225.9	5100.4	2081.4	1896.8	1631.4	1272.2	1364.5	1399.1	1412.1
57.5°	15984.8	11999.4	4123.8	1947.3	1885.2	1661.7	1228.9	1318.4	1384.7	1393.4
60°	15788.6	11204.6	3036.3	1844.8	1800.1	1650.1	1216.0	1247.7	1353.0	1366.0
62.5°	14277.0	9871.9	2107.4	1765.5	1612.6	1599.6	1211.6	1136.6	1283.7	1315.5
65°	11475.8	7771.7	1488.6	1520.3	1413.6	1490.0	1188.5	1021.2	1200.1	1243.4
67.5°	8325.6	5259.0	1074.6	1231.8	1280.9	1312.6	1136.6	937.6	1104.9	1162.6
70°	5342.7	2840.1	754.4	813.5	1078.9	1115.0	1047.2	862.6	1008.2	1074.6
72.5°	3797.9	1677.5	542.3	569.8	866.9	928.9	921.7	778.9	895.7	976.5
75°	2620.9	924.6	366.4	406.8	628.9	754.4	711.1	669.3	758.7	840.9
77.5°	1642.9	414.0	219.2	282.7	412.5	592.8	487.5	517.8	591.4	667.8
80°	914.5	160.1	122.6	187.5	225.0	431.3	269.7	333.2	435.6	490.4
82.5°	199.1	20.2	54.8	80.8	88.0	251.0	142.8	193.3	274.1	269.7
85°	0.0	0.0	10.1	11.5	5.8	108.2	51.9	63.5	89.4	83.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9
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°
2899.2	0°	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2
2607.9	2.5°	2596.3	2525.7	2473.7	2447.8	2426.1	2446.3	2457.9	2457.9	2506.9	2535.8
2403.1	5°	2352.6	2225.6	2129.0	2064.1	2025.1	2038.1	2052.5	2068.4	2130.4	2172.3
2281.9	7.5°	2183.8	1989.1	1842.0	1751.1	1703.5	1710.7	1720.8	1733.8	1794.4	1836.2
2299.2	10°	2152.1	1872.2	1664.5	1544.8	1487.1	1477.0	1471.3	1466.9	1503.0	1534.7
2495.4	12.5°	2281.9	1878.0	1588.1	1442.4	1371.7	1341.4	1306.8	1279.4	1285.2	1305.4
2792.5	15°	2514.1	1951.6	1563.6	1389.0	1301.1	1250.6	1210.2	1177.0	1169.8	1177.0
3052.1	17.5°	2779.5	2051.1	1560.7	1342.9	1233.3	1181.3	1148.2	1117.9	1107.8	1109.2
3197.8	20°	2955.5	2130.4	1552.0	1291.0	1168.4	1122.2	1093.3	1063.1	1053.0	1055.8
3157.4	22.5°	2972.8	2172.3	1539.1	1233.3	1103.4	1064.5	1035.6	1008.2	1006.8	1006.8
3006.0	25°	2879.0	2172.3	1511.6	1181.3	1041.4	1006.8	980.8	947.7	953.4	956.3
2834.3	27.5°	2733.4	2120.3	1459.7	1139.5	988.1	952.0	926.0	895.7	902.9	907.3
2674.2	30°	2589.1	2054.0	1397.7	1091.9	937.6	895.7	877.0	851.0	853.9	859.7
2515.6	32.5°	2455.0	1983.3	1324.1	1053.0	887.1	845.3	830.8	802.0	806.3	812.1
2359.8	35°	2322.3	1905.4	1237.6	1006.8	840.9	799.1	787.6	754.4	757.3	765.9
2204.0	37.5°	2179.5	1823.2	1166.9	960.6	796.2	752.9	741.4	706.8	709.7	719.8
2042.5	40°	2029.5	1742.4	1097.7	911.6	748.6	705.3	695.2	657.7	660.6	672.2
1883.8	42.5°	1878.0	1654.4	1044.3	848.1	699.6	653.4	643.3	608.7	613.0	626.0
1745.3	45°	1738.1	1549.1	1009.7	777.5	653.4	601.5	591.4	559.7	568.3	582.7
1628.5	47.5°	1618.4	1441.0	995.3	718.3	604.4	548.1	539.5	513.5	527.9	543.8
1529.0	50°	1516.0	1337.1	976.5	657.7	558.2	502.0	493.3	476.0	494.7	510.6
1461.2	52.5°	1442.4	1218.8	936.1	602.9	517.8	463.0	460.1	451.5	468.8	483.2
1410.7	55°	1378.9	1096.2	871.2	555.3	481.8	429.8	432.7	428.4	442.8	454.4
1380.4	57.5°	1321.2	989.5	789.0	517.8	442.8	401.0	409.6	403.9	411.1	418.3
1348.7	60°	1252.0	881.3	690.9	476.0	396.7	372.1	382.2	366.4	364.9	367.8
1291.0	62.5°	1149.6	735.6	588.5	424.1	356.3	340.4	344.7	314.4	291.4	291.4
1205.9	65°	1006.8	591.4	493.3	366.4	310.1	297.1	294.3	251.0	219.2	216.4
1113.5	67.5°	840.9	486.1	409.6	308.7	258.2	249.5	252.4	220.7	189.0	186.1
1021.2	70°	685.1	402.4	330.3	246.7	199.1	207.7	220.7	189.0	158.7	154.3
913.0	72.5°	556.8	320.2	258.2	189.0	147.1	171.6	187.5	154.3	125.5	122.6
778.9	75°	429.8	235.1	184.6	128.4	106.7	132.7	147.1	112.5	89.4	85.1
602.9	77.5°	287.0	145.7	103.9	80.8	63.5	90.9	98.1	59.1	51.9	50.5
438.5	80°	174.5	67.8	44.7	38.9	21.6	33.2	38.9	24.5	27.4	28.8
233.7	82.5°	88.0	18.8	7.2	1.4	0.0	0.0	11.5	5.8	11.5	14.4
63.5	85°	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	7.2
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°
2899.2	0°	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2
2547.3	2.5°	2628.1	2688.7	2746.3	2838.7	2933.9	3027.6	3122.8	3215.1	3248.3	3272.8
2199.7	5°	2325.2	2439.1	2571.8	2755.0	2951.2	3153.1	3357.9	3545.4	3630.5	3688.2
1872.2	7.5°	2012.2	2160.7	2351.1	2626.6	2933.9	3255.5	3577.2	3872.9	4009.9	4121.0
1563.6	10°	1702.0	1863.6	2104.5	2418.9	2834.3	3295.9	3740.2	4146.9	4324.3	4464.3
1341.4	12.5°	1429.4	1580.9	1833.3	2180.9	2678.6	3264.2	3833.9	4322.9	4532.1	4689.3
1182.8	15°	1237.6	1344.3	1567.9	1942.9	2493.9	3161.8	3839.7	4406.6	4635.9	4800.3
1116.4	17.5°	1130.8	1166.9	1312.6	1700.6	2289.1	3027.6	3786.3	4435.4	4680.6	4833.5
1057.3	20°	1073.2	1078.9	1119.3	1386.2	2026.6	2902.1	3735.8	4464.3	4722.4	4850.8
1015.5	22.5°	1027.0	1027.0	1037.1	1133.7	1687.6	2752.1	3720.0	4514.7	4780.1	4859.5
967.9	25°	985.2	985.2	988.1	1014.0	1337.1	2522.8	3709.9	4592.6	4859.5	4881.1
920.3	27.5°	941.9	943.3	943.3	957.8	1077.5	2211.2	3666.6	4693.6	4954.7	4910.0
874.1	30°	898.6	901.5	901.5	911.6	953.4	1846.3	3581.5	4814.8	5078.7	4947.5
827.9	32.5°	855.3	858.2	858.2	866.9	897.2	1474.1	3474.8	4925.8	5204.2	4963.3
783.2	35°	810.6	815.0	812.1	823.6	855.3	1172.7	3339.2	5036.9	5339.8	5013.8
740.0	37.5°	765.9	768.8	767.4	778.9	815.0	1012.6	3182.0	5120.6	5524.4	5126.3
693.8	40°	721.2	719.8	719.8	732.7	771.7	966.4	2984.3	5253.3	5789.8	5323.9
647.6	42.5°	675.0	675.0	672.2	686.6	734.2	931.8	2795.4	5491.3	6176.4	5638.4
604.4	45°	633.2	631.8	626.0	639.0	698.1	871.2	2729.0	5935.5	6747.6	6147.5
561.1	47.5°	592.8	591.4	577.0	588.5	654.9	816.4	2977.1	6662.5	7539.5	6896.2
526.5	50°	556.8	558.2	530.8	540.9	611.6	774.6	3515.2	7605.8	8591.0	7904.4
497.6	52.5°	523.6	523.6	487.5	493.3	558.2	737.1	4027.2	8628.5	9978.6	9310.8
467.3	55°	490.4	487.5	447.1	450.0	504.8	683.7	4103.7	9626.6	11871.0	11426.8
434.2	57.5°	452.9	447.1	409.6	409.6	455.8	644.8	3557.0	10394.0	14219.3	14536.6
372.1	60°	406.8	402.4	377.9	370.7	416.9	679.4	2509.8	10483.4	15733.8	18672.0
295.7	62.5°	347.6	353.4	340.4	330.3	379.4	705.3	1487.1	9763.7	15367.4	19987.5
229.3	65°	274.1	297.1	294.3	287.0	416.9	594.3	878.4	8381.8	14243.8	18925.9
200.5	67.5°	233.7	249.5	245.2	245.2	437.1	451.5	552.4	6548.5	12697.5	17666.6
167.3	70°	199.1	214.9	199.1	199.1	330.3	274.1	382.2	4572.4	11028.7	16273.3
134.1	72.5°	164.4	180.3	163.0	151.5	264.0	204.8	279.8	2857.4	9444.9	14822.2
95.2	75°	125.5	144.2	131.3	116.8	174.5	152.9	212.0	1660.2	7825.1	12681.7
57.7	77.5°	79.3	103.9	98.1	82.2	128.4	111.1	152.9	988.1	6037.9	9909.4
34.6	80°	49.0	53.4	54.8	51.9	73.6	75.0	103.9	562.5	4132.5	6906.3
21.6	82.5°	31.7	31.7	24.5	27.4	36.1	43.3	59.1	212.0	2429.0	4204.6
13.0	85°	23.1	20.2	13.0	13.0	17.3	21.6	23.1	64.9	985.2	1660.2
5.8	87.5°	11.5	10.1	4.3	5.8	8.7	7.2	5.8	2.9	248.1	530.8
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°
2899.2	0°	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2
3327.6	2.5°	3356.5	3401.2	3404.1	3404.1	3365.1	3363.7	3284.4	3275.7
3818.1	5°	3952.2	3981.1	3988.3	3973.8	3895.9	3838.3	3683.9	3650.7
4318.6	7.5°	4497.4	4555.1	4555.1	4520.5	4393.6	4275.3	4051.7	3968.1
4732.5	10°	4933.0	4999.4	4985.0	4914.3	4754.2	4591.2	4320.0	4210.4
4983.5	12.5°	5145.1	5212.9	5175.4	5094.6	4938.8	4767.2	4481.6	4357.5
5055.6	15°	5140.7	5122.0	5083.1	5073.0	4997.9	4868.1	4601.3	4465.7
5010.9	17.5°	4957.6	4798.9	4768.6	4869.6	4964.8	4933.0	4705.1	4578.2
4904.2	20°	4667.6	4390.7	4363.3	4556.6	4827.7	4966.2	4801.8	4684.9
4749.9	22.5°	4361.8	4063.3	3999.8	4213.3	4621.5	4976.3	4924.4	4807.6
4579.7	25°	4071.9	3771.9	3708.4	3907.5	4392.1	4959.0	5057.1	4957.6
4416.7	27.5°	3829.6	3539.7	3480.5	3679.6	4171.4	4910.0	5189.8	5119.1
4255.1	30°	3642.1	3373.8	3330.5	3522.4	3981.1	4849.4	5358.6	5319.6
4105.1	32.5°	3532.5	3336.3	3352.2	3509.4	3878.6	4783.0	5520.1	5538.9
4031.5	35°	3640.6	3649.3	3787.8	3852.7	3973.8	4772.9	5739.3	5812.9
4119.5	37.5°	4178.7	4478.7	4765.7	4712.4	4439.7	4889.8	6066.8	6203.8
4503.2	40°	5094.6	5710.5	6176.4	5973.0	5286.4	5247.5	6538.4	6743.3
5184.0	42.5°	6213.9	7258.2	8025.6	7480.3	6378.3	5873.5	7212.0	7473.1
6007.6	45°	7395.2	9166.5	10375.3	9241.5	7542.4	6750.5	8231.8	8436.7
6779.3	47.5°	8640.0	11485.9	13049.5	11194.5	8621.3	7748.6	9622.3	9669.9
7510.6	50°	10001.7	14028.9	15775.6	13146.1	9662.7	8892.5	11321.5	11266.7
8363.1	52.5°	11298.4	16644.0	18444.1	15106.4	10577.2	10311.8	13293.2	13180.7
9528.6	55°	12536.0	19257.6	21128.4	16990.1	11439.7	12186.9	15635.7	14954.9
11209.0	57.5°	13971.2	21607.3	23895.0	18882.6	12645.6	14621.7	18255.1	15984.8
14427.0	60°	16093.0	24277.2	27023.5	21476.0	14939.0	17180.5	19194.1	15788.6
18281.1	62.5°	18801.8	26732.2	29298.2	24017.6	17242.6	17662.3	17810.9	14277.0
17495.0	65°	19328.3	27353.9	29426.6	24696.9	16945.4	14982.3	14540.9	11475.8
15627.1	67.5°	17932.0	26230.2	27632.2	23431.9	14989.5	11578.2	10911.8	8325.6
14401.0	70°	16365.6	24088.2	24505.1	21281.3	13183.6	8516.0	7369.3	5342.7
13561.5	72.5°	14760.2	21230.8	20368.3	18481.6	11586.9	6200.9	5315.3	3797.9
12365.8	75°	12853.3	17473.3	16043.9	15355.9	9593.5	4866.7	3845.5	2620.9
10636.3	77.5°	10293.0	12299.4	11917.2	11902.8	7209.2	3555.5	2566.0	1642.9
8309.7	80°	7261.1	7982.3	7787.6	8964.6	4836.4	2579.0	1544.8	914.5
5784.1	82.5°	3515.2	4413.8	4530.6	5338.4	2352.6	1517.4	356.3	199.1
2261.7	85°	1376.1	2129.0	1795.8	2026.6	660.6	422.6	8.7	0.0
372.1	87.5°	154.3	246.7	226.5	178.9	80.8	17.3	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)