

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: P953913

Luminaire Tested: **GALN-SB7B-827-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953913
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-SB7B-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 450mA 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: 26576 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

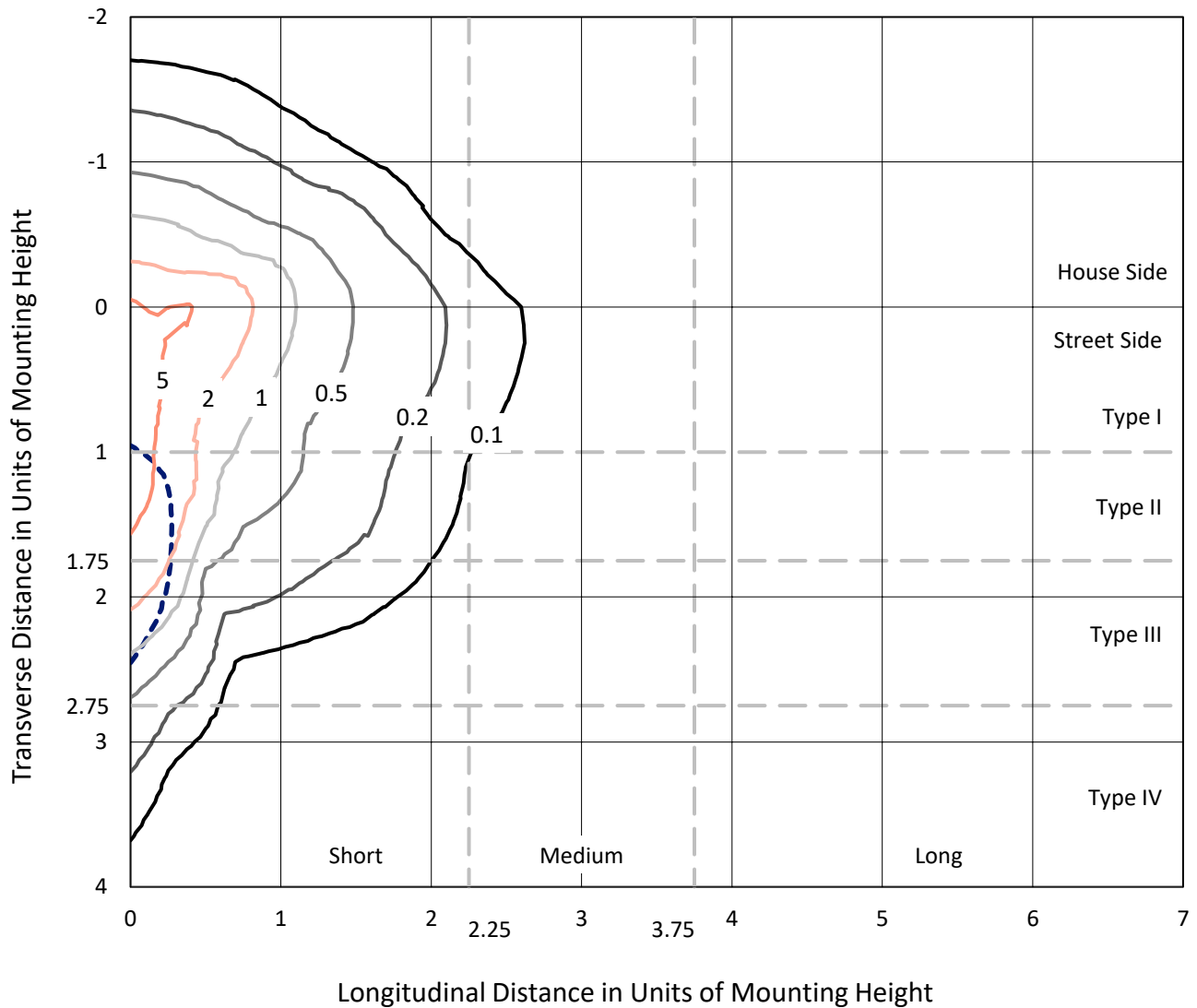
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

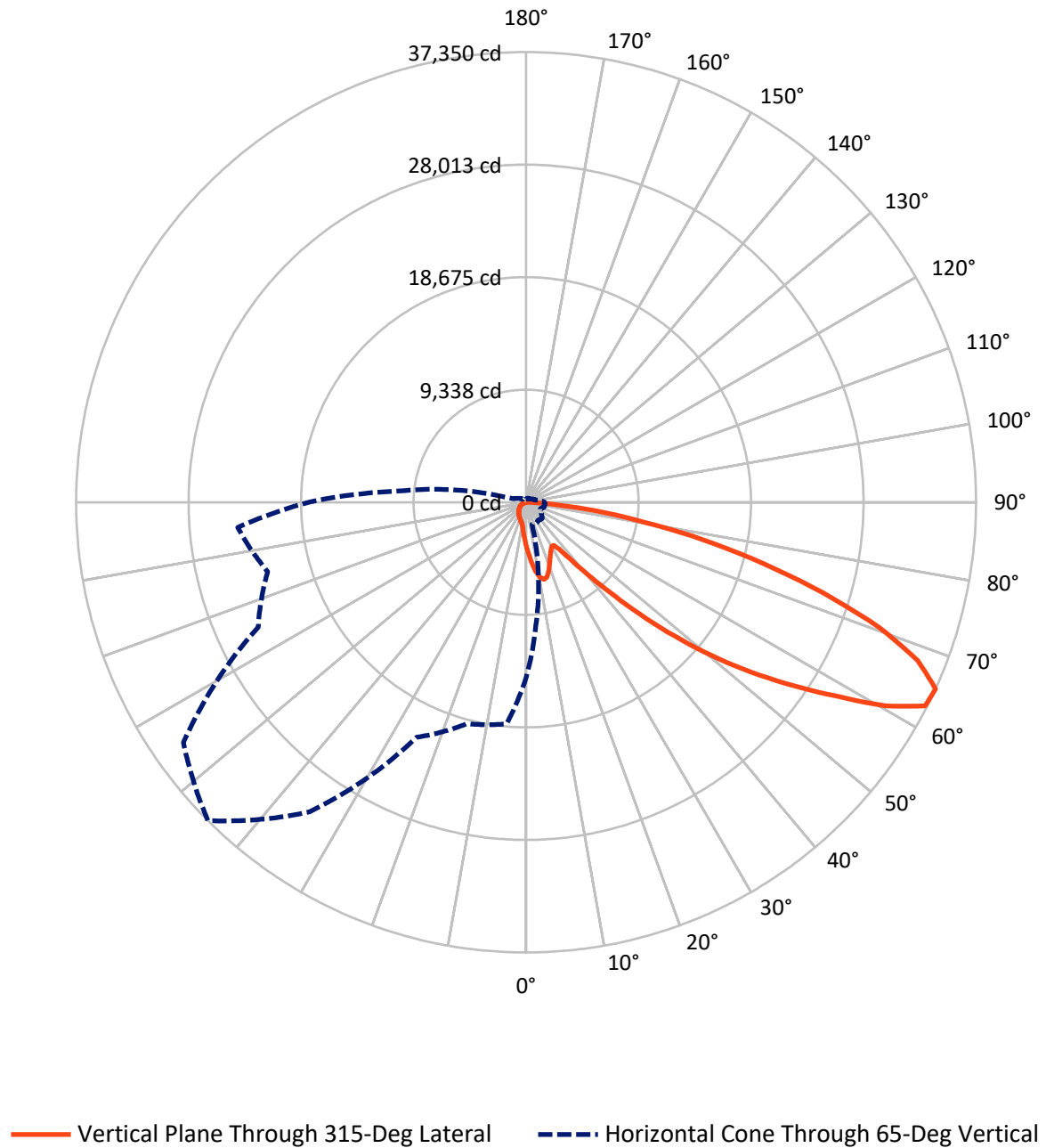
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3721.8	0.0	3721.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	22854.2	0.0	22854.2
	% Fixture	86.0	0.0	86.0
Total	Lumens	26576.0	0.0	26576.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.3	1.4
10°-20°	1086.1	4.1
20°-30°	1600.0	6.0
30°-40°	2055.6	7.7
40°-50°	3324.5	12.5
50°-60°	5829.8	21.9
60°-70°	7294.6	27.4
70°-80°	4262.6	16.0
80°-90°	760.5	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°	26576.0	100.0
0°-180°	26576.0	100.0

Coefficient of Utilization



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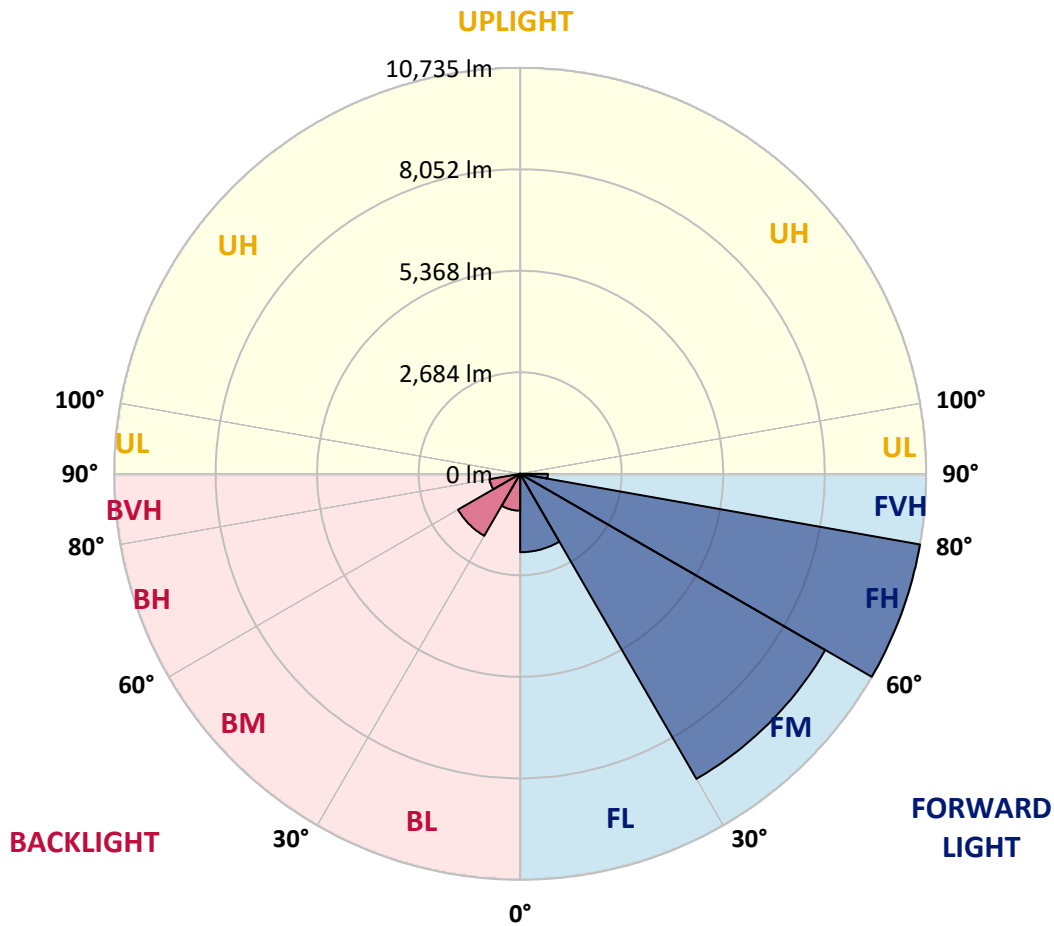
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2072.8	7.8			
FM (30°-60°)	9314.6	35.0			
FH (60°-80°)	10735.5	40.4			G4/12000
FVH (80°-90°)	731.3	2.8			G4/750
BL (0°-30°)	975.5	3.7	B2/1000		
BM (30°-60°)	1895.2	7.1	B2/2500		
BH (60°-80°)	821.8	3.1	B2/1000		G2/1000
BVH (80°-90°)	29.2	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°	3679.9	3679.9	3679.9	3679.9	3679.9	3679.9	3679.9	3679.9	3679.9	3679.9
2.5°	4157.8	4086.4	4044.3	3939.9	3835.5	3751.3	3637.8	3562.8	3473.0	3387.0
5°	4633.8	4518.4	4379.3	4188.9	4015.0	3837.4	3665.3	3495.0	3315.6	3150.8
7.5°	5036.6	4870.0	4624.6	4372.0	4150.4	3936.2	3734.8	3509.7	3291.8	3033.7
10°	5344.1	5131.8	4809.5	4478.2	4223.7	4007.6	3811.7	3621.3	3401.6	3090.4
12.5°	5530.9	5303.9	4921.2	4533.1	4242.0	4000.3	3848.4	3764.1	3678.1	3368.7
15°	5668.2	5422.9	4999.9	4571.5	4199.9	3903.3	3791.6	3875.8	3974.7	3777.0
17.5°	5811.0	5552.8	5102.5	4588.0	4086.4	3714.7	3667.1	3885.0	4113.8	4104.7
20°	5946.5	5690.2	5192.2	4577.0	3903.3	3485.9	3528.0	3806.3	4071.7	4183.4
22.5°	6102.1	5831.1	5278.2	4534.9	3665.3	3271.7	3403.5	3681.8	3914.3	4046.1
25°	6292.5	6008.7	5399.1	4472.7	3409.0	3094.1	3277.1	3537.1	3725.7	3817.2
27.5°	6497.5	6221.1	5560.2	4439.7	3202.1	2967.7	3134.3	3365.0	3533.5	3597.5
30°	6752.0	6468.2	5750.6	4403.1	3066.6	2894.5	2986.0	3165.5	3330.2	3394.3
32.5°	7030.3	6742.9	5933.7	4315.2	2984.2	2839.6	2841.4	2954.9	3105.1	3181.9
35°	7378.2	7072.4	6129.5	4123.0	2918.3	2775.5	2700.4	2755.4	2879.9	2971.4
37.5°	7874.3	7504.5	6369.4	3848.4	2821.3	2676.6	2552.1	2565.0	2660.2	2760.9
40°	8559.0	8084.9	6651.3	3562.8	2682.1	2537.5	2389.2	2383.7	2453.3	2552.1
42.5°	9485.4	8852.0	6990.0	3290.0	2548.5	2369.1	2217.1	2208.0	2262.9	2348.9
45°	10708.4	9833.3	7405.6	3055.6	2444.1	2204.3	2054.2	2050.5	2096.3	2171.3
47.5°	12273.7	11197.2	7821.2	2896.3	2389.2	2074.3	1920.5	1927.8	1968.1	2035.9
50°	14300.4	12974.9	7947.5	2815.8	2389.2	2004.7	1801.5	1838.1	1871.1	1922.3
52.5°	16729.9	14681.3	7530.1	2742.6	2403.9	2013.9	1700.8	1779.5	1803.3	1847.3
55°	18981.8	15517.9	6473.7	2641.9	2407.5	2070.6	1614.8	1731.9	1775.9	1792.4
57.5°	20289.0	15230.5	5234.3	2471.6	2392.9	2109.1	1559.8	1673.4	1757.6	1768.6
60°	20040.0	14221.7	3853.9	2341.6	2284.8	2094.4	1543.4	1583.6	1717.3	1733.8
62.5°	18121.3	12530.1	2674.8	2240.9	2046.8	2030.4	1537.9	1442.7	1629.4	1669.7
65°	14565.9	9864.4	1889.4	1929.7	1794.2	1891.2	1508.6	1296.2	1523.2	1578.2
67.5°	10567.4	6675.1	1364.0	1563.5	1625.8	1666.0	1442.7	1190.0	1402.4	1475.6
70°	6781.3	3604.9	957.5	1032.6	1369.4	1415.2	1329.2	1094.8	1279.7	1364.0
72.5°	4820.5	2129.2	688.4	723.2	1100.3	1179.0	1169.9	988.6	1136.9	1239.5
75°	3326.6	1173.5	465.0	516.3	798.2	957.5	902.6	849.5	963.0	1067.4
77.5°	2085.3	525.4	278.3	358.8	523.6	752.5	618.8	657.3	750.6	847.7
80°	1160.7	203.2	155.6	238.0	285.6	547.4	342.4	422.9	552.9	622.5
82.5°	252.7	25.6	69.6	102.5	111.7	318.6	181.3	245.3	347.9	342.4
85°	0.0	0.0	12.8	14.6	7.3	137.3	65.9	80.6	113.5	106.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7
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°
3679.9	0°	3679.9	3679.9	3679.9	3679.9	3679.9	3679.9	3679.9	3679.9	3679.9	3679.9
3310.1	2.5°	3295.5	3205.7	3139.8	3106.9	3079.4	3105.1	3119.7	3119.7	3181.9	3218.6
3050.1	5°	2986.0	2824.9	2702.3	2619.9	2570.5	2586.9	2605.2	2625.4	2704.1	2757.2
2896.3	7.5°	2771.8	2524.7	2337.9	2222.6	2162.2	2171.3	2184.2	2200.6	2277.5	2330.6
2918.3	10°	2731.6	2376.4	2112.8	1960.8	1887.6	1874.7	1867.4	1861.9	1907.7	1948.0
3167.3	12.5°	2896.3	2383.7	2015.7	1830.8	1741.1	1702.7	1658.7	1623.9	1631.3	1656.9
3544.4	15°	3191.1	2477.1	1984.6	1763.1	1651.4	1587.3	1536.0	1493.9	1484.8	1493.9
3874.0	17.5°	3528.0	2603.4	1980.9	1704.5	1565.3	1499.4	1457.3	1418.9	1406.1	1407.9
4058.9	20°	3751.3	2704.1	1970.0	1638.6	1483.0	1424.4	1387.8	1349.3	1336.5	1340.2
4007.6	22.5°	3773.3	2757.2	1953.5	1565.3	1400.6	1351.1	1314.5	1279.7	1277.9	1277.9
3815.4	25°	3654.3	2757.2	1918.7	1499.4	1321.8	1277.9	1244.9	1202.8	1210.2	1213.8
3597.5	27.5°	3469.4	2691.3	1852.8	1446.3	1254.1	1208.3	1175.4	1136.9	1146.1	1151.6
3394.3	30°	3286.3	2607.1	1774.1	1385.9	1190.0	1136.9	1113.1	1080.2	1083.8	1091.2
3192.9	32.5°	3116.0	2517.4	1680.7	1336.5	1125.9	1072.9	1054.5	1017.9	1023.4	1030.7
2995.2	35°	2947.6	2418.5	1570.8	1277.9	1067.4	1014.3	999.6	957.5	961.2	972.2
2797.5	37.5°	2766.4	2314.1	1481.1	1219.3	1010.6	955.7	941.0	897.1	900.8	913.6
2592.4	40°	2575.9	2211.6	1393.2	1157.1	950.2	895.3	882.4	834.8	838.5	853.2
2391.0	42.5°	2383.7	2099.9	1325.5	1076.5	887.9	829.4	816.5	772.6	778.1	794.6
2215.3	45°	2206.1	1966.3	1281.6	986.8	829.4	763.4	750.6	710.4	721.3	739.6
2067.0	47.5°	2054.2	1829.0	1263.3	911.7	767.1	695.7	684.7	651.8	670.1	690.2
1940.7	50°	1924.2	1697.2	1239.5	834.8	708.5	637.1	626.1	604.2	628.0	648.1
1854.6	52.5°	1830.8	1547.0	1188.2	765.3	657.3	587.7	584.0	573.0	595.0	613.3
1790.5	55°	1750.3	1391.4	1105.8	704.9	611.5	545.6	549.2	543.8	562.1	576.7
1752.1	57.5°	1677.0	1255.9	1001.5	657.3	562.1	509.0	519.9	512.6	521.8	530.9
1711.8	60°	1589.1	1118.6	877.0	604.2	503.5	472.3	485.2	465.0	463.2	466.9
1638.6	62.5°	1459.2	933.7	747.0	538.3	452.2	432.1	437.6	399.1	369.8	369.8
1530.6	65°	1277.9	750.6	626.1	465.0	393.6	377.1	373.5	318.6	278.3	274.6
1413.4	67.5°	1067.4	617.0	519.9	391.8	327.7	316.7	320.4	280.1	239.8	236.2
1296.2	70°	869.6	510.8	419.3	313.1	252.7	263.6	280.1	239.8	201.4	195.9
1158.9	72.5°	706.7	406.4	327.7	239.8	186.7	217.9	238.0	195.9	159.3	155.6
988.6	75°	545.6	298.4	234.3	162.9	135.5	168.4	186.7	142.8	113.5	108.0
765.3	77.5°	364.3	184.9	131.8	102.5	80.6	115.3	124.5	75.1	65.9	64.1
556.6	80°	221.5	86.0	56.8	49.4	27.5	42.1	49.4	31.1	34.8	36.6
296.6	82.5°	111.7	23.8	9.2	1.8	0.0	0.0	14.6	7.3	14.6	18.3
80.6	85°	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	9.2
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°
3679.9	0°	3679.9	3679.9	3679.9	3679.9	3679.9	3679.9	3679.9	3679.9	3679.9	3679.9
3233.2	2.5°	3335.7	3412.6	3485.9	3603.0	3723.9	3842.9	3963.7	4080.9	4123.0	4154.1
2792.0	5°	2951.3	3095.9	3264.3	3496.8	3745.8	4002.1	4262.1	4500.1	4608.1	4681.4
2376.4	7.5°	2554.0	2742.6	2984.2	3333.9	3723.9	4132.1	4540.4	4915.7	5089.6	5230.6
1984.6	10°	2160.4	2365.4	2671.1	3070.3	3597.5	4183.4	4747.3	5263.6	5488.8	5666.4
1702.7	12.5°	1814.3	2006.6	2327.0	2768.2	3399.8	4143.1	4866.3	5486.9	5752.4	5952.0
1501.3	15°	1570.8	1706.3	1990.1	2466.1	3165.5	4013.1	4873.6	5593.1	5884.2	6092.9
1417.0	17.5°	1435.4	1481.1	1666.0	2158.5	2905.5	3842.9	4805.9	5629.7	5941.0	6135.0
1342.0	20°	1362.1	1369.4	1420.7	1759.4	2572.3	3683.6	4741.8	5666.4	5994.1	6157.0
1288.9	22.5°	1303.5	1303.5	1316.4	1439.0	2142.0	3493.2	4721.7	5730.4	6067.3	6168.0
1228.5	25°	1250.4	1250.4	1254.1	1287.1	1697.2	3202.1	4708.8	5829.3	6168.0	6195.5
1168.1	27.5°	1195.5	1197.3	1197.3	1215.7	1367.6	2806.6	4653.9	5957.5	6288.8	6232.1
1109.5	30°	1140.6	1144.3	1144.3	1157.1	1210.2	2343.4	4545.9	6111.2	6446.3	6279.7
1050.9	32.5°	1085.7	1089.3	1089.3	1100.3	1138.8	1871.1	4410.4	6252.2	6605.6	6299.8
994.1	35°	1028.9	1034.4	1030.7	1045.4	1085.7	1488.4	4238.3	6393.2	6777.7	6363.9
939.2	37.5°	972.2	975.8	974.0	988.6	1034.4	1285.2	4038.8	6499.4	7012.0	6506.7
880.6	40°	915.4	913.6	913.6	930.1	979.5	1226.6	3787.9	6667.8	7348.9	6757.5
822.0	42.5°	856.8	856.8	853.2	871.5	931.9	1182.7	3548.1	6969.9	7839.5	7156.6
767.1	45°	803.7	801.9	794.6	811.0	886.1	1105.8	3463.9	7533.8	8564.5	7802.9
712.2	47.5°	752.5	750.6	732.3	747.0	831.2	1036.2	3778.8	8456.5	9569.6	8753.1
668.2	50°	706.7	708.5	673.7	686.6	776.3	983.1	4461.7	9653.9	10904.3	10032.8
631.6	52.5°	664.6	664.6	618.8	626.1	708.5	935.5	5111.6	10951.9	12665.5	11817.9
593.2	55°	622.5	618.8	567.6	571.2	640.8	867.8	5208.7	12218.8	15067.6	14503.7
551.1	57.5°	574.9	567.6	519.9	519.9	578.5	818.4	4514.8	13192.8	18048.1	18450.9
472.3	60°	516.3	510.8	479.7	470.5	529.1	862.3	3185.6	13306.3	19970.5	23699.8
375.3	62.5°	441.2	448.5	432.1	419.3	481.5	895.3	1887.6	12392.7	19505.4	25369.5
291.1	65°	347.9	377.1	373.5	364.3	529.1	754.3	1115.0	10638.8	18079.2	24022.0
254.5	67.5°	296.6	316.7	311.2	311.2	554.7	573.0	701.2	8311.9	16116.6	22423.7
212.4	70°	252.7	272.8	252.7	252.7	419.3	347.9	485.2	5803.7	13998.4	20655.2
170.3	72.5°	208.7	228.9	206.9	192.2	335.0	260.0	355.2	3626.8	11988.1	18813.4
120.8	75°	159.3	183.1	166.6	148.3	221.5	194.1	269.1	2107.3	9932.1	16096.5
73.2	77.5°	100.7	131.8	124.5	104.4	162.9	141.0	194.1	1254.1	7663.8	12577.7
43.9	80°	62.2	67.7	69.6	65.9	93.4	95.2	131.8	714.0	5245.3	8765.9
27.5	82.5°	40.3	40.3	31.1	34.8	45.8	54.9	75.1	269.1	3083.1	5336.8
16.5	85°	29.3	25.6	16.5	16.5	22.0	27.5	29.3	82.4	1250.4	2107.3
7.3	87.5°	14.6	12.8	5.5	7.3	11.0	9.2	7.3	3.7	314.9	673.7
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°
3679.9	0°	3679.9	3679.9	3679.9	3679.9	3679.9	3679.9	3679.9	3679.9
4223.7	2.5°	4260.3	4317.0	4320.7	4320.7	4271.3	4269.4	4168.8	4157.8
4846.2	5°	5016.4	5053.0	5062.2	5043.9	4945.0	4871.8	4675.9	4633.8
5481.4	7.5°	5708.5	5781.7	5781.7	5737.8	5576.6	5426.5	5142.7	5036.6
6006.9	10°	6261.4	6345.6	6327.3	6237.6	6034.3	5827.5	5483.3	5344.1
6325.4	12.5°	6530.5	6616.5	6568.9	6466.4	6268.7	6050.8	5688.3	5530.9
6417.0	15°	6525.0	6501.2	6451.8	6439.0	6343.8	6179.0	5840.3	5668.2
6360.2	17.5°	6292.5	6091.1	6052.7	6180.8	6301.6	6261.4	5972.1	5811.0
6224.7	20°	5924.5	5573.0	5538.2	5783.5	6127.7	6303.5	6094.8	5946.5
6028.9	22.5°	5536.4	5157.4	5076.8	5347.8	5865.9	6316.3	6250.4	6102.1
5812.8	25°	5168.4	4787.6	4707.0	4959.7	5574.8	6294.3	6418.8	6292.5
5605.9	27.5°	4860.8	4492.8	4417.7	4670.4	5294.7	6232.1	6587.2	6497.5
5400.9	30°	4622.8	4282.3	4227.3	4470.8	5053.0	6155.2	6801.5	6752.0
5210.5	32.5°	4483.7	4234.7	4254.8	4454.4	4923.0	6071.0	7006.5	7030.3
5117.1	35°	4621.0	4631.9	4807.7	4890.1	5043.9	6058.1	7284.8	7378.2
5228.8	37.5°	5303.9	5684.7	6049.0	5981.3	5635.2	6206.4	7700.4	7874.3
5715.8	40°	6466.4	7248.2	7839.5	7581.4	6709.9	6660.5	8299.1	8559.0
6579.9	42.5°	7887.1	9212.6	10186.6	9494.6	8095.8	7455.1	9154.0	9485.4
7625.3	45°	9386.6	11634.8	13169.0	11730.0	9573.3	8568.2	10448.4	10708.4
8604.8	47.5°	10966.5	14578.7	16563.3	14208.9	10942.7	9835.1	12213.3	12273.7
9533.0	50°	12694.8	17806.4	20023.6	16686.0	12264.6	11286.9	14370.0	14300.4
10615.0	52.5°	14340.7	21125.7	23410.6	19174.1	13425.3	13088.5	16872.7	16729.9
12094.3	55°	15911.6	24443.1	26817.7	21565.1	14520.1	15468.5	19846.0	18981.8
14227.2	57.5°	17733.2	27425.5	30329.2	23967.1	16050.7	18558.9	23170.7	20289.0
18311.7	60°	20426.3	30814.3	34300.2	27258.9	18961.7	21806.8	24362.6	20040.0
23203.7	62.5°	23864.6	33930.4	37187.4	30484.8	21885.5	22418.3	22606.8	18121.3
22205.9	65°	24532.8	34719.5	37350.3	31347.1	21508.3	19016.6	18456.4	14565.9
19835.0	67.5°	22760.6	33293.3	35072.8	29741.5	19025.8	14695.9	13850.1	10567.4
18278.8	70°	20772.4	30574.5	31103.6	27011.8	16733.6	10809.1	9353.6	6781.3
17213.3	72.5°	18734.7	26947.7	25852.9	23458.2	14706.9	7870.6	6746.5	4820.5
15695.5	75°	16314.3	22178.4	20364.1	19490.8	12176.7	6177.1	4880.9	3326.6
13500.4	77.5°	13064.7	15611.3	15126.1	15107.8	9150.4	4512.9	3257.0	2085.3
10547.3	80°	9216.3	10131.7	9884.5	11378.5	6138.7	3273.5	1960.8	1160.7
7341.5	82.5°	4461.7	5602.3	5750.6	6775.8	2986.0	1926.0	452.2	252.7
2870.7	85°	1746.6	2702.3	2279.4	2572.3	838.5	536.4	11.0	0.0
472.3	87.5°	195.9	313.1	287.4	227.0	102.5	22.0	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)