

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: P953554

Luminaire Tested: **GALN-SB7A-827-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953554
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-SB7A-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 350mA 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: 21171 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

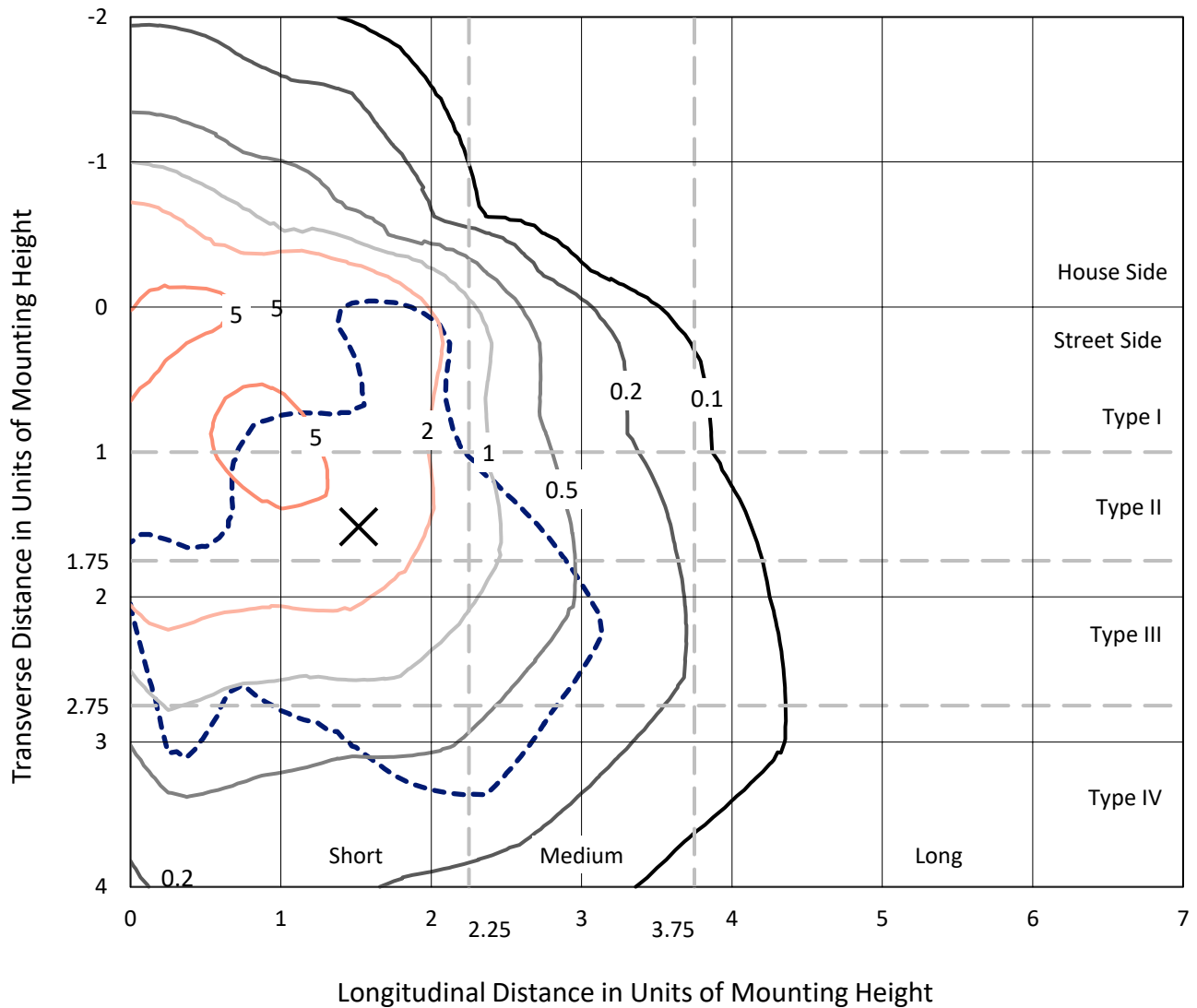
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

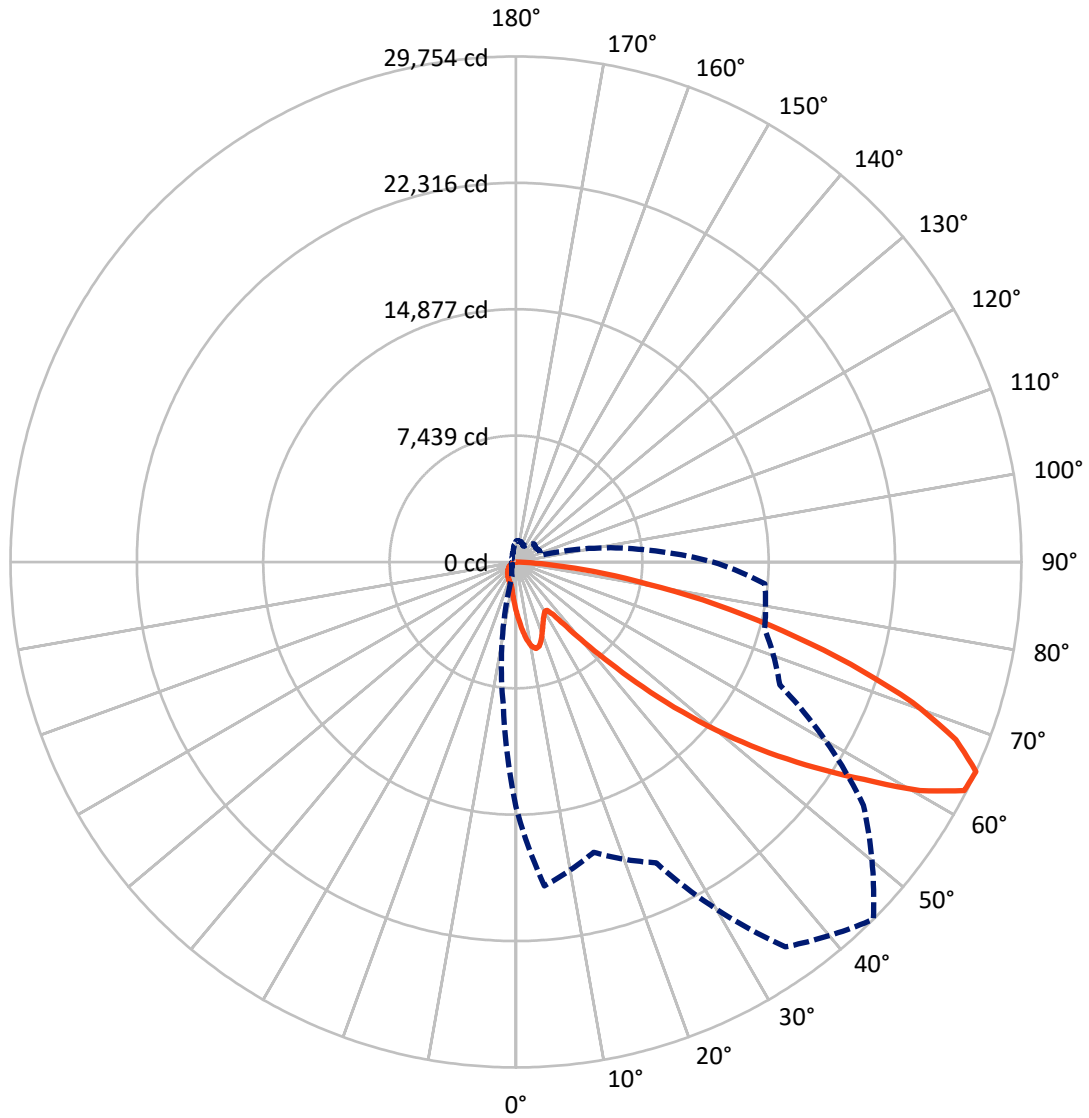
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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
House Side	Lumens	4208.1	0.0	4208.1
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	16962.9	0.0	16962.9
	% Fixture	80.1	0.0	80.1
Total	Lumens	21171.0	0.0	21171.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.6	1.4
10°-20°	865.2	4.1
20°-30°	1274.6	6.0
30°-40°	1637.5	7.7
40°-50°	2648.3	12.5
50°-60°	4644.1	21.9
60°-70°	5811.1	27.4
70°-80°	3395.7	16.0
80°-90°	605.8	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°	21171.0	100.0
0°-180°	21171.0	100.0

Coefficient of Utilization



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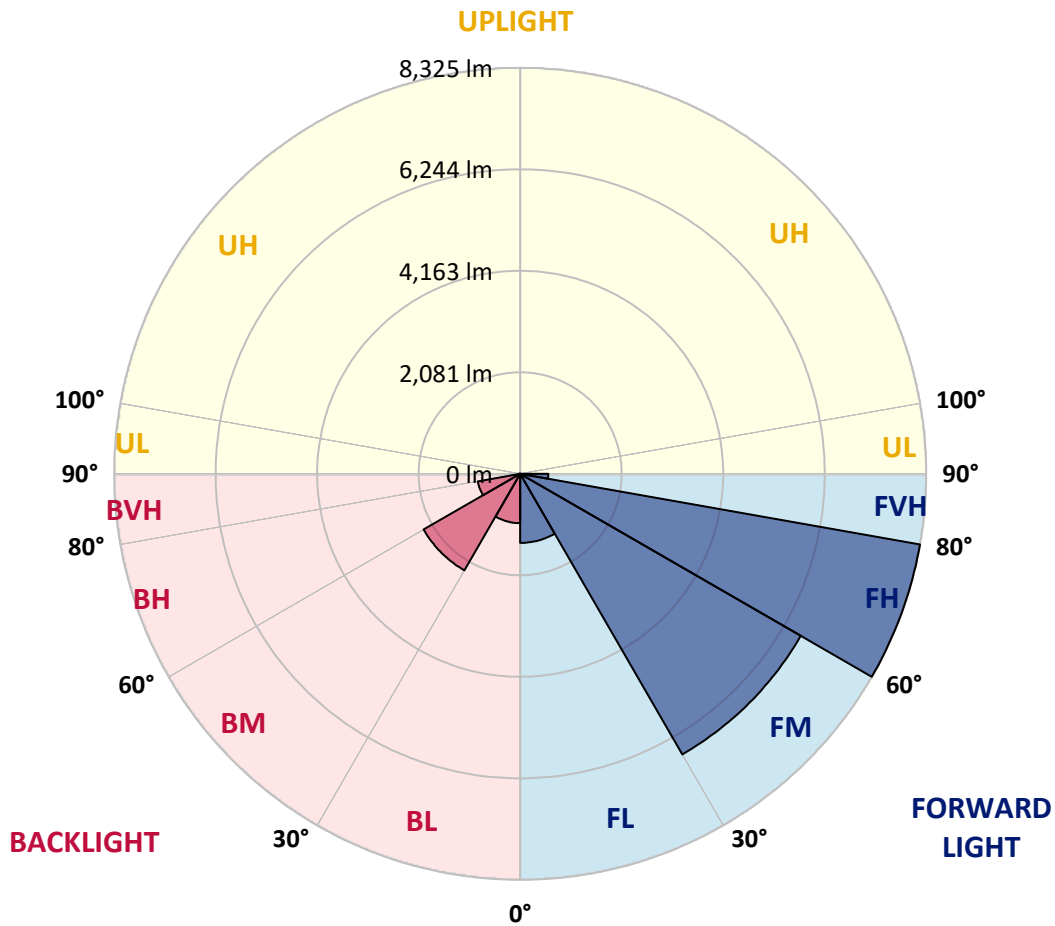
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1416.6	6.7			
FM (30°-60°)	6643.7	31.4			
FH (60°-80°)	8325.1	39.3			G4/12000
FVH (80°-90°)	577.5	2.7			G4/750
BL (0°-30°)	1011.8	4.8	B3/2500		
BM (30°-60°)	2286.3	10.8	B2/2500		
BH (60°-80°)	881.7	4.2	B2/1000		G2/1000
BVH (80°-90°)	28.4	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2931.5	2931.5	2931.5	2931.5	2931.5	2931.5	2931.5	2931.5	2931.5	2931.5
2.5°	3284.5	3309.2	3364.7	3393.8	3439.1	3442.0	3442.0	3402.6	3401.1	3320.9
5°	3670.9	3729.3	3860.5	3996.2	4025.4	4032.6	4018.1	3939.3	3881.0	3724.9
7.5°	4054.5	4166.8	4366.6	4547.5	4605.8	4605.8	4570.8	4442.5	4322.9	4096.8
10°	4372.5	4513.9	4785.2	4987.9	5055.0	5040.4	4969.0	4807.1	4642.3	4368.1
12.5°	4582.5	4741.5	5039.0	5202.3	5270.9	5233.0	5151.3	4993.8	4820.2	4531.4
15°	4687.5	4853.8	5111.9	5198.0	5179.0	5139.6	5129.4	5053.6	4922.3	4652.5
17.5°	4732.7	4887.3	5066.7	5012.7	4852.3	4821.7	4923.8	5020.0	4987.9	4757.5
20°	4775.0	4904.8	4958.8	4719.6	4439.6	4411.8	4607.3	4881.5	5021.5	4855.2
22.5°	4833.3	4913.6	4802.7	4410.4	4108.5	4044.3	4260.2	4672.9	5031.7	4979.2
25°	4913.6	4935.4	4630.6	4117.2	3813.9	3749.7	3951.0	4441.0	5014.2	5113.4
27.5°	5009.8	4964.6	4465.8	3872.2	3579.1	3519.3	3720.5	4217.9	4964.6	5247.5
30°	5135.2	5002.5	4302.5	3682.6	3411.3	3367.6	3561.6	4025.4	4903.3	5418.2
32.5°	5262.1	5018.6	4150.8	3571.8	3373.4	3389.5	3548.4	3921.8	4836.3	5581.5
35°	5399.2	5069.6	4076.4	3681.2	3689.9	3829.9	3895.5	4018.1	4826.0	5803.2
37.5°	5585.9	5183.4	4165.4	4225.2	4528.5	4818.8	4764.8	4489.1	4944.2	6134.3
40°	5854.3	5383.2	4553.3	5151.3	5774.0	6245.1	6039.5	5345.3	5305.9	6611.2
42.5°	6245.1	5701.1	5241.7	6283.0	7339.0	8114.9	7563.6	6449.3	5938.9	7292.3
45°	6822.7	6216.0	6074.5	7477.5	9268.5	10490.7	9344.4	7626.3	6825.6	8323.4
47.5°	7623.4	6972.9	6854.8	8736.2	11613.7	13194.7	11319.1	8717.2	7834.9	9729.4
50°	8686.6	7992.4	7594.2	10113.0	14185.0	15951.2	13292.4	9770.2	8991.4	11447.5
52.5°	10089.6	9414.4	8456.2	11424.1	16829.2	18649.3	15274.5	10694.9	10426.5	13441.2
55°	12003.1	11553.9	9634.6	12675.5	19471.9	21363.5	17179.2	11567.1	12322.5	15809.7
57.5°	14377.5	14698.4	11333.7	14126.7	21847.7	24160.9	19092.7	12786.3	14784.4	18458.3
60°	15908.9	18879.8	14587.5	16272.0	24547.4	27324.3	21715.0	15105.3	17371.7	19407.7
62.5°	15538.4	20209.9	18484.5	19011.0	27029.7	29624.3	24284.8	17434.4	17858.9	18009.1
65°	14402.3	19136.5	17689.7	19543.4	27658.2	29754.1	24971.8	17134.0	15149.0	14702.7
67.5°	12838.8	17863.2	15801.0	18131.6	26522.1	27939.7	23692.7	15156.3	11707.1	11033.3
70°	11151.4	16454.4	14561.3	16547.7	24356.3	24777.8	21518.1	13330.3	8610.8	7451.3
72.5°	9550.0	14987.1	13712.4	14924.4	21467.1	20594.9	18687.3	11715.8	6269.9	5374.4
75°	7912.1	12822.8	12503.4	12996.3	17667.8	16222.5	15526.8	9700.2	4920.8	3888.3
77.5°	6105.1	10019.6	10754.7	10407.6	12436.3	12049.8	12035.2	7289.4	3595.1	2594.6
80°	4178.5	6983.1	8402.2	7341.9	8071.1	7874.2	9064.3	4890.2	2607.7	1562.0
82.5°	2456.0	4251.4	5848.4	3554.3	4462.9	4581.0	5397.8	2378.7	1534.3	360.2
85°	996.1	1678.7	2286.9	1391.4	2152.7	1815.8	2049.1	668.0	427.3	8.8
87.5°	250.9	536.7	376.3	156.1	249.4	229.0	180.8	81.7	17.5	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°
2931.5	0°	2931.5	2931.5	2931.5	2931.5	2931.5	2931.5	2931.5	2931.5	2931.5	2931.5
3312.2	2.5°	3255.3	3221.7	3138.6	3055.5	2988.4	2898.0	2838.2	2766.7	2698.2	2636.9
3691.4	5°	3599.5	3488.6	3337.0	3198.4	3056.9	2919.8	2784.2	2641.3	2510.0	2429.8
4012.2	7.5°	3879.5	3684.1	3482.8	3306.3	3135.7	2975.3	2795.9	2622.3	2416.7	2307.3
4257.2	10°	4088.1	3831.4	3567.4	3364.7	3192.6	3036.5	2884.8	2709.8	2461.9	2324.8
4406.0	12.5°	4225.2	3920.3	3611.1	3379.3	3186.7	3065.7	2998.6	2930.0	2683.6	2523.1
4515.4	15°	4320.0	3983.1	3641.8	3345.7	3109.4	3020.5	3087.6	3166.3	3008.8	2823.6
4629.2	17.5°	4423.5	4064.7	3654.9	3255.3	2959.2	2921.3	3094.9	3277.2	3269.9	3086.1
4737.1	20°	4532.9	4136.2	3646.2	3109.4	2776.9	2810.5	3032.1	3243.6	3332.6	3233.4
4861.0	22.5°	4645.2	4204.7	3612.6	2919.8	2606.3	2711.3	2933.0	3118.2	3223.2	3192.6
5012.7	25°	4786.7	4301.0	3563.0	2715.7	2464.8	2610.6	2817.7	2968.0	3040.9	3039.4
5176.1	27.5°	4955.8	4429.3	3536.8	2550.8	2364.2	2496.9	2680.7	2814.8	2865.9	2865.9
5378.8	30°	5152.7	4581.0	3507.6	2442.9	2305.8	2378.7	2521.7	2652.9	2704.0	2704.0
5600.5	32.5°	5371.5	4726.9	3437.6	2377.3	2262.1	2263.5	2354.0	2473.5	2534.8	2543.6
5877.6	35°	5634.0	4882.9	3284.5	2324.8	2211.0	2151.2	2195.0	2294.2	2367.1	2386.0
6272.8	37.5°	5978.2	5074.0	3065.7	2247.5	2132.3	2033.1	2043.3	2119.1	2199.4	2228.5
6818.3	40°	6440.6	5298.6	2838.2	2136.6	2021.4	1903.3	1898.9	1954.3	2033.1	2065.2
7556.3	42.5°	7051.7	5568.4	2620.9	2030.2	1887.2	1766.2	1758.9	1802.7	1871.2	1904.7
8530.5	45°	7833.4	5899.5	2434.2	1947.0	1756.0	1636.4	1633.5	1669.9	1729.7	1764.7
9777.5	47.5°	8919.9	6230.5	2307.3	1903.3	1652.4	1529.9	1535.8	1567.8	1621.8	1646.6
11392.0	50°	10336.1	6331.2	2243.1	1903.3	1597.0	1435.1	1464.3	1490.5	1531.4	1546.0
13327.4	52.5°	11695.4	5998.6	2184.8	1915.0	1604.3	1354.9	1417.6	1436.6	1471.6	1477.4
15121.3	55°	12361.9	5157.1	2104.6	1917.9	1649.5	1286.4	1379.7	1414.7	1427.8	1426.4
16162.7	57.5°	12132.9	4169.7	1968.9	1906.2	1680.1	1242.6	1333.0	1400.1	1408.9	1395.7
15964.3	60°	11329.3	3070.1	1865.4	1820.2	1668.5	1229.5	1261.6	1368.0	1381.2	1363.7
14435.8	62.5°	9981.7	2130.8	1785.2	1630.6	1617.4	1225.1	1149.3	1298.0	1330.1	1305.3
11603.5	65°	7858.2	1505.1	1537.2	1429.3	1506.6	1201.8	1032.6	1213.4	1257.2	1219.3
8418.2	67.5°	5317.5	1086.6	1245.5	1295.1	1327.2	1149.3	948.0	1117.2	1175.5	1125.9
5402.1	70°	2871.7	762.8	822.6	1090.9	1127.4	1058.8	872.2	1019.5	1086.6	1032.6
3840.1	72.5°	1696.2	548.4	576.1	876.5	939.2	932.0	787.6	905.7	987.4	923.2
2650.0	75°	934.9	370.4	411.3	635.9	762.8	719.0	676.7	767.2	850.3	787.6
1661.2	77.5°	418.6	221.7	285.9	417.1	599.4	493.0	523.6	598.0	675.3	609.6
924.7	80°	161.9	124.0	189.6	227.5	436.1	272.7	336.9	440.5	495.9	443.4
201.3	82.5°	20.4	55.4	81.7	89.0	253.8	144.4	195.4	277.1	272.7	236.3
0.0	85°	0.0	10.2	11.7	5.8	109.4	52.5	64.2	90.4	84.6	64.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	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°
2931.5	0°	2931.5	2931.5	2931.5	2931.5	2931.5	2931.5	2931.5	2931.5	2931.5	2931.5
2625.2	2.5°	2553.8	2501.3	2475.0	2453.1	2473.5	2485.2	2485.2	2534.8	2564.0	2575.6
2378.7	5°	2250.4	2152.7	2087.1	2047.7	2060.8	2075.4	2091.4	2154.1	2196.4	2224.2
2208.1	7.5°	2011.2	1862.5	1770.6	1722.4	1729.7	1739.9	1753.1	1814.3	1856.6	1893.1
2176.0	10°	1893.1	1683.1	1562.0	1503.7	1493.5	1487.6	1483.3	1519.7	1551.8	1581.0
2307.3	12.5°	1898.9	1605.8	1458.5	1387.0	1356.4	1321.4	1293.7	1299.5	1319.9	1356.4
2542.1	15°	1973.3	1581.0	1404.5	1315.5	1264.5	1223.6	1190.1	1182.8	1190.1	1195.9
2810.5	17.5°	2073.9	1578.1	1357.8	1247.0	1194.5	1160.9	1130.3	1120.1	1121.6	1128.8
2988.4	20°	2154.1	1569.3	1305.3	1181.4	1134.7	1105.5	1074.9	1064.7	1067.6	1069.1
3005.9	22.5°	2196.4	1556.2	1247.0	1115.7	1076.3	1047.2	1019.5	1018.0	1018.0	1026.8
2911.1	25°	2196.4	1528.5	1194.5	1053.0	1018.0	991.8	958.2	964.0	967.0	978.6
2763.8	27.5°	2143.9	1476.0	1152.2	999.0	962.6	936.3	905.7	913.0	917.4	930.5
2617.9	30°	2076.8	1413.2	1104.1	948.0	905.7	886.7	860.5	863.4	869.2	883.8
2482.3	32.5°	2005.4	1338.9	1064.7	897.0	854.7	840.1	810.9	815.3	821.1	837.2
2348.1	35°	1926.6	1251.4	1018.0	850.3	808.0	796.3	762.8	765.7	774.4	791.9
2203.7	37.5°	1843.5	1179.9	971.3	805.1	761.3	749.6	714.6	717.6	727.8	748.2
2052.1	40°	1761.8	1109.9	921.7	756.9	713.2	703.0	665.1	668.0	679.6	701.5
1898.9	42.5°	1672.9	1055.9	857.6	707.4	660.7	650.5	615.5	619.8	633.0	654.8
1757.4	45°	1566.4	1020.9	786.1	660.7	608.2	598.0	565.9	574.6	589.2	611.1
1636.4	47.5°	1457.0	1006.3	726.3	611.1	554.2	545.5	519.2	533.8	549.8	567.3
1532.8	50°	1352.0	987.4	665.1	564.4	507.5	498.8	481.3	500.3	516.3	532.3
1458.5	52.5°	1232.4	946.5	609.6	523.6	468.2	465.2	456.5	474.0	488.6	503.2
1394.3	55°	1108.4	880.9	561.5	487.1	434.6	437.5	433.2	447.7	459.4	472.5
1336.0	57.5°	1000.5	797.8	523.6	447.7	405.5	414.2	408.4	415.7	423.0	439.0
1265.9	60°	891.1	698.6	481.3	401.1	376.3	386.5	370.4	369.0	371.9	376.3
1162.4	62.5°	743.8	595.1	428.8	360.2	344.2	348.6	317.9	294.6	294.6	299.0
1018.0	65°	598.0	498.8	370.4	313.6	300.4	297.5	253.8	221.7	218.8	231.9
850.3	67.5°	491.5	414.2	312.1	261.1	252.3	255.2	223.1	191.1	188.1	202.7
692.8	70°	406.9	334.0	249.4	201.3	210.0	223.1	191.1	160.4	156.1	169.2
563.0	72.5°	323.8	261.1	191.1	148.8	173.6	189.6	156.1	126.9	124.0	135.6
434.6	75°	237.7	186.7	129.8	107.9	134.2	148.8	113.8	90.4	86.0	96.3
290.2	77.5°	147.3	105.0	81.7	64.2	91.9	99.2	59.8	52.5	51.0	58.3
176.5	80°	68.5	45.2	39.4	21.9	33.5	39.4	24.8	27.7	29.2	35.0
89.0	82.5°	19.0	7.3	1.5	0.0	0.0	11.7	5.8	11.7	14.6	21.9
7.3	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	7.3	13.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8
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°
2931.5	0°	2931.5	2931.5	2931.5	2931.5	2931.5	2931.5	2931.5	2931.5
2657.3	2.5°	2718.6	2776.9	2870.3	2966.5	3061.3	3157.6	3250.9	3284.5
2351.0	5°	2466.3	2600.4	2785.7	2984.0	3188.2	3395.3	3584.9	3670.9
2034.6	7.5°	2184.8	2377.3	2655.9	2966.5	3291.7	3617.0	3916.0	4054.5
1721.0	10°	1884.3	2127.9	2445.8	2865.9	3332.6	3781.8	4193.1	4372.5
1445.3	12.5°	1598.5	1853.7	2205.2	2708.4	3300.5	3876.6	4371.0	4582.5
1251.4	15°	1359.3	1585.3	1964.5	2521.7	3196.9	3882.4	4455.6	4687.5
1143.4	17.5°	1179.9	1327.2	1719.5	2314.6	3061.3	3828.5	4484.8	4732.7
1085.1	20°	1090.9	1131.8	1401.6	2049.1	2934.4	3777.4	4513.9	4775.0
1038.4	22.5°	1038.4	1048.6	1146.4	1706.4	2782.7	3761.4	4565.0	4833.3
996.1	25°	996.1	999.0	1025.3	1352.0	2550.8	3751.2	4643.7	4913.6
952.4	27.5°	953.8	953.8	968.4	1089.5	2235.8	3707.4	4745.8	5009.8
908.6	30°	911.5	911.5	921.7	964.0	1866.8	3621.4	4868.3	5135.2
864.9	32.5°	867.8	867.8	876.5	907.2	1490.5	3513.4	4980.6	5262.1
819.7	35°	824.0	821.1	832.8	864.9	1185.7	3376.3	5092.9	5399.2
774.4	37.5°	777.4	775.9	787.6	824.0	1023.8	3217.4	5177.5	5585.9
729.2	40°	727.8	727.8	740.9	780.3	977.2	3017.6	5311.7	5854.3
682.6	42.5°	682.6	679.6	694.2	742.4	942.2	2826.5	5552.4	6245.1
640.3	45°	638.8	633.0	646.1	705.9	880.9	2759.4	6001.6	6822.7
599.4	47.5°	598.0	583.4	595.1	662.1	825.5	3010.3	6736.6	7623.4
563.0	50°	564.4	536.7	546.9	618.4	783.2	3554.3	7690.5	8686.6
529.4	52.5°	529.4	493.0	498.8	564.4	745.3	4072.0	8724.5	10089.6
495.9	55°	493.0	452.1	455.0	510.5	691.3	4149.3	9733.8	12003.1
458.0	57.5°	452.1	414.2	414.2	460.9	651.9	3596.6	10509.7	14377.5
411.3	60°	406.9	382.1	374.8	421.5	686.9	2537.7	10600.1	15908.9
351.5	62.5°	357.3	344.2	334.0	383.6	713.2	1503.7	9872.3	15538.4
277.1	65°	300.4	297.5	290.2	421.5	600.9	888.2	8475.1	14402.3
236.3	67.5°	252.3	247.9	247.9	441.9	456.5	558.6	6621.4	12838.8
201.3	70°	217.3	201.3	201.3	334.0	277.1	386.5	4623.3	11151.4
166.3	72.5°	182.3	164.8	153.1	266.9	207.1	282.9	2889.2	9550.0
126.9	75°	145.8	132.7	118.1	176.5	154.6	214.4	1678.7	7912.1
80.2	77.5°	105.0	99.2	83.1	129.8	112.3	154.6	999.0	6105.1
49.6	80°	54.0	55.4	52.5	74.4	75.8	105.0	568.8	4178.5
32.1	82.5°	32.1	24.8	27.7	36.5	43.8	59.8	214.4	2456.0
23.3	85°	20.4	13.1	13.1	17.5	21.9	23.3	65.6	996.1
11.7	87.5°	10.2	4.4	5.8	8.8	7.3	5.8	2.9	250.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)