

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: P956347

Luminaire Tested: **GALN-SB9A-740-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956347
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-SB9A-740-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 4000K, 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: 32990 lumens
Efficiency: N/A
Efficacy: 129.1 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

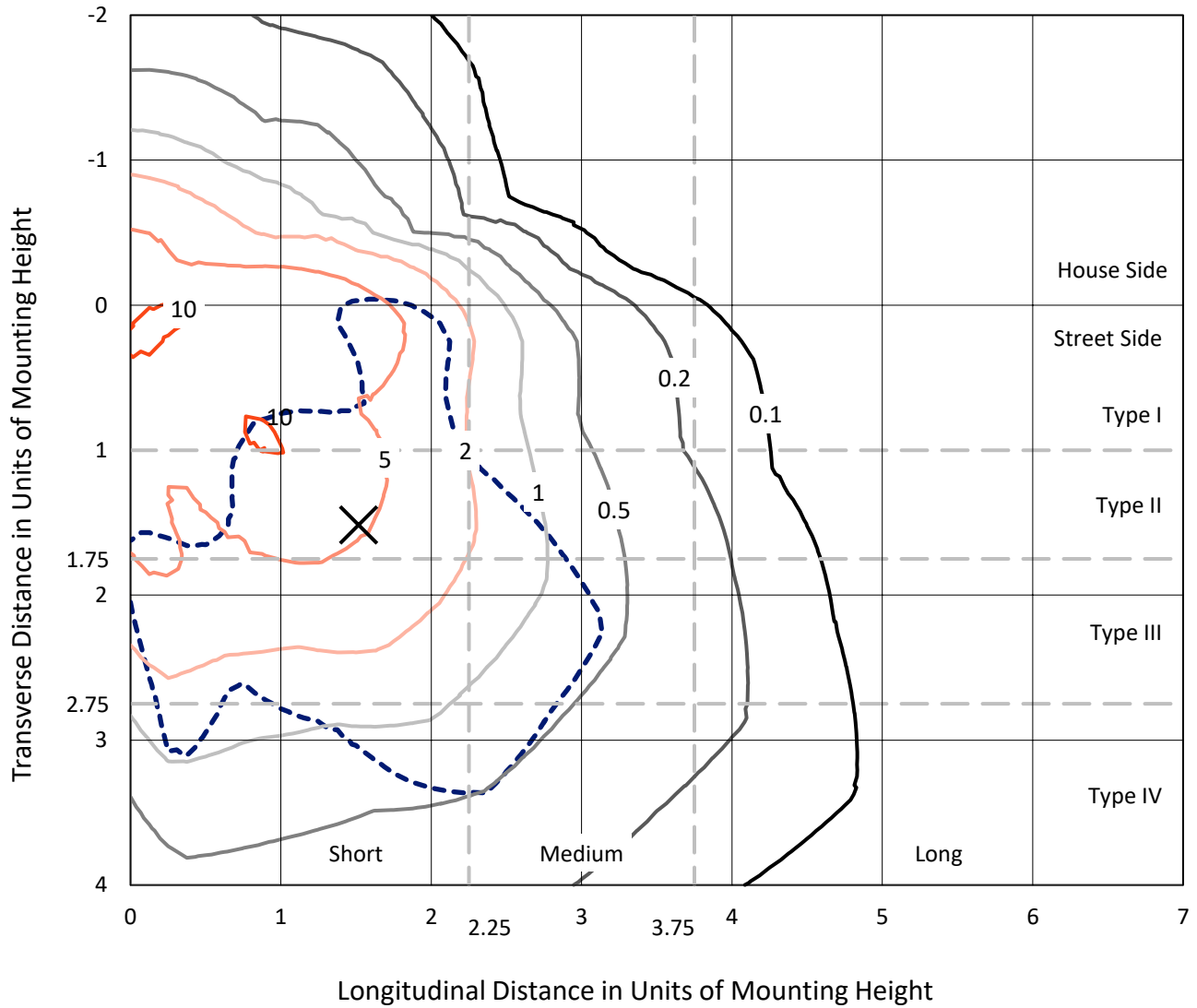
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

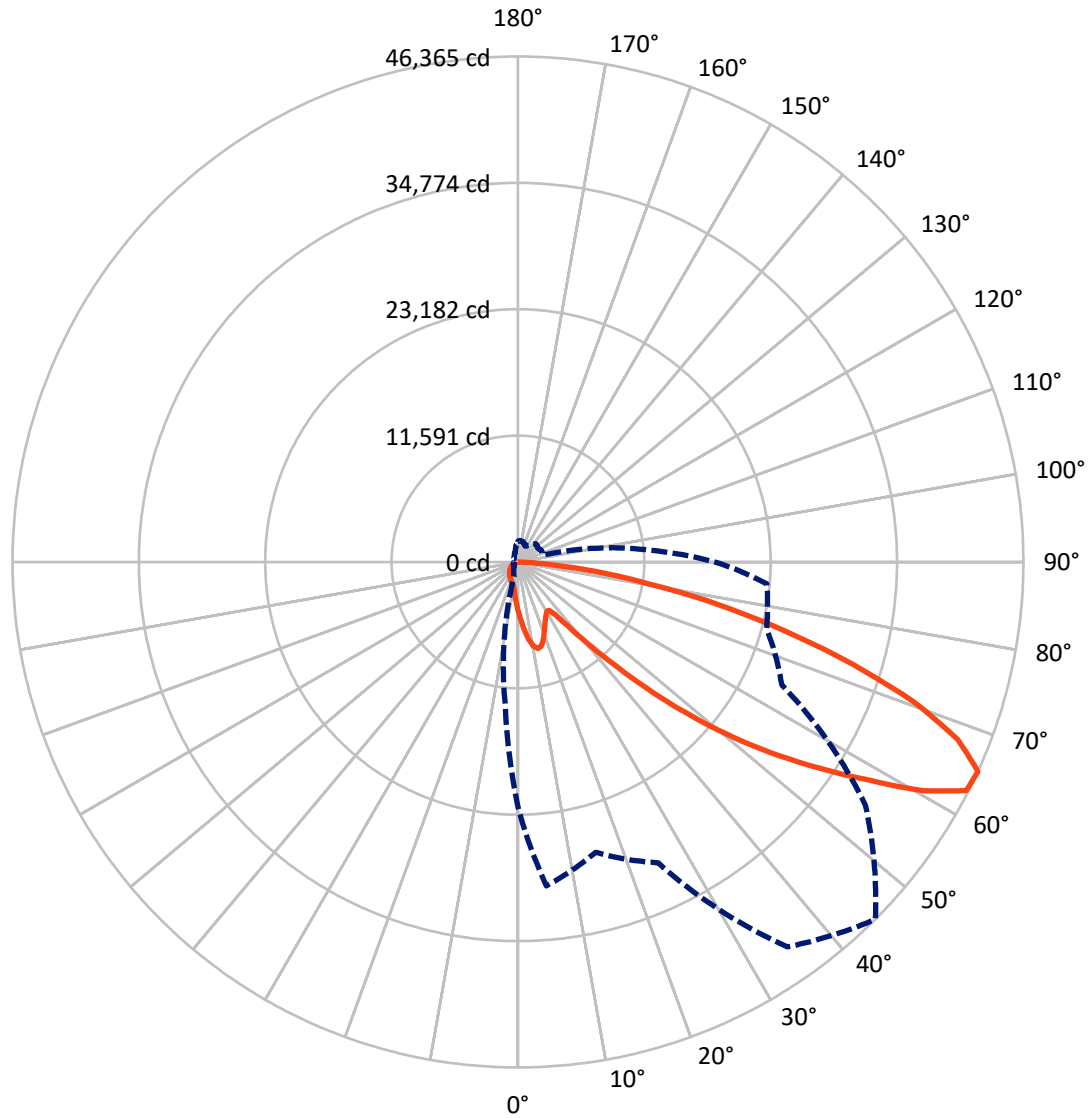
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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	6557.4	0.0	6557.4
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	26432.6	0.0	26432.6
	% Fixture	80.1	0.0	80.1
Total	Lumens	32990.0	0.0	32990.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.7	1.4
10°-20°	1348.2	4.1
20°-30°	1986.2	6.0
30°-40°	2551.7	7.7
40°-50°	4126.8	12.5
50°-60°	7236.8	21.9
60°-70°	9055.2	27.4
70°-80°	5291.4	16.0
80°-90°	944.1	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°	32990.0	100.0
0°-180°	32990.0	100.0



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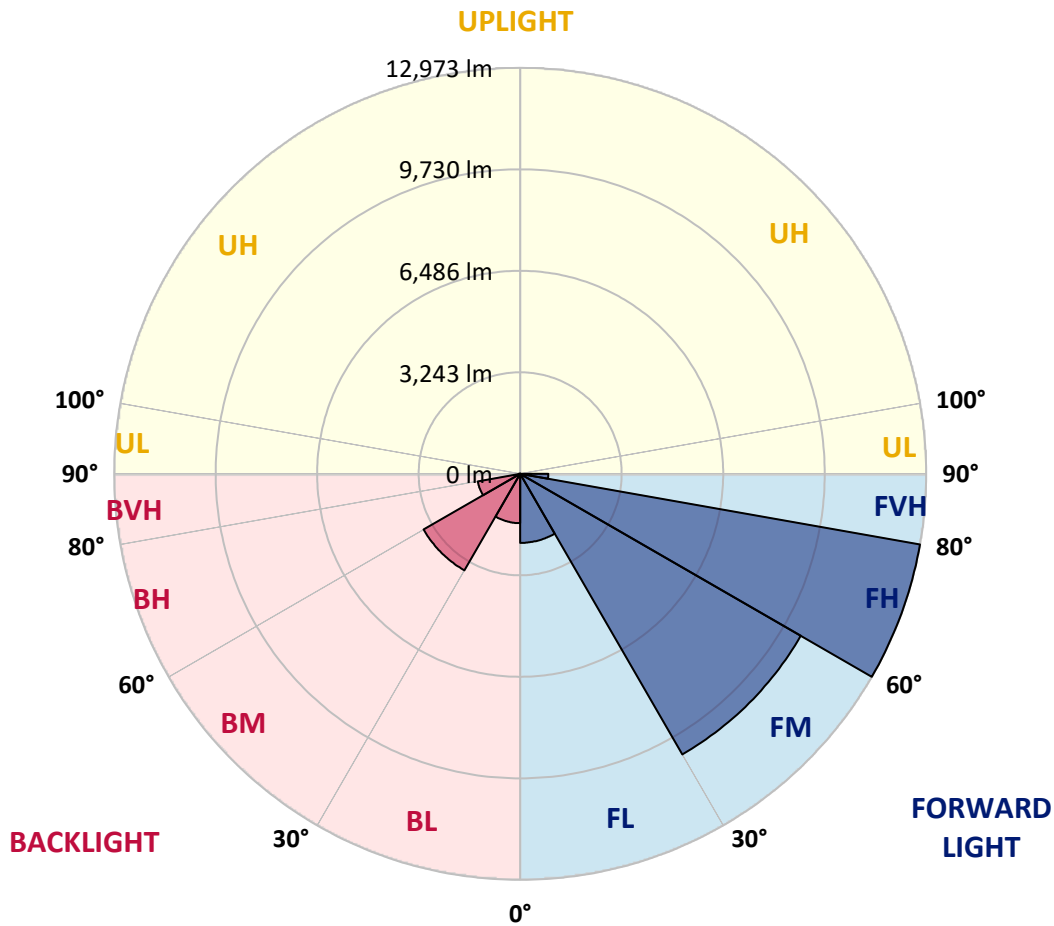
CATALOG NUMBER: GALN-SB9A-740-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2207.4	6.7			
FM (30°-60°)	10352.7	31.4			
FH (60°-80°)	12972.7	39.3			G5
FVH (80°-90°)	899.8	2.7			G5
BL (0°-30°)	1576.7	4.8	B3/2500		
BM (30°-60°)	3562.6	10.8	B3/5000		
BH (60°-80°)	1373.9	4.2	B3/2500		G3/2500
BVH (80°-90°)	44.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4568.1	4568.1	4568.1	4568.1	4568.1	4568.1	4568.1	4568.1	4568.1	4568.1
2.5°	5118.0	5156.7	5243.0	5288.5	5358.9	5363.5	5363.5	5302.1	5299.9	5174.9
5°	5720.3	5811.2	6015.7	6227.1	6272.6	6283.9	6261.2	6138.5	6047.6	5804.4
7.5°	6318.0	6493.0	6804.4	7086.2	7177.1	7177.1	7122.5	6922.5	6736.2	6383.9
10°	6813.5	7033.9	7456.6	7772.5	7877.1	7854.3	7743.0	7490.7	7233.9	6806.6
12.5°	7140.7	7388.4	7852.1	8106.6	8213.4	8154.3	8027.1	7781.6	7511.2	7061.2
15°	7304.3	7563.4	7965.7	8099.8	8070.2	8008.9	7993.0	7874.8	7670.2	7249.8
17.5°	7374.8	7615.7	7895.2	7811.2	7561.2	7513.4	7672.5	7822.5	7772.5	7413.4
20°	7440.7	7643.0	7727.1	7354.3	6918.0	6874.8	7179.4	7606.6	7824.8	7565.7
22.5°	7531.6	7656.6	7483.9	6872.5	6402.1	6302.1	6638.5	7281.6	7840.7	7758.9
25°	7656.6	7690.7	7215.7	6415.7	5943.0	5843.0	6156.7	6920.3	7813.4	7968.0
27.5°	7806.6	7736.2	6958.9	6033.9	5577.1	5483.9	5797.6	6572.6	7736.2	8177.1
30°	8002.1	7795.2	6704.4	5738.5	5315.8	5247.6	5549.9	6272.6	7640.7	8443.0
32.5°	8199.8	7820.2	6468.0	5565.8	5256.7	5281.7	5529.4	6111.2	7536.2	8697.5
35°	8413.4	7899.8	6352.1	5736.2	5749.8	5968.0	6070.3	6261.2	7520.3	9042.9
37.5°	8704.3	8077.1	6490.7	6583.9	7056.6	7508.9	7424.8	6995.3	7704.3	9558.8
40°	9122.5	8388.4	7095.3	8027.1	8997.5	9731.6	9411.1	8329.3	8268.0	10302.0
42.5°	9731.6	8883.9	8168.0	9790.6	11436.1	12645.1	11786.0	10049.7	9254.3	11363.3
45°	10631.5	9686.1	9465.7	11652.0	14442.8	16347.3	14561.0	11883.8	10636.1	12970.1
47.5°	11879.2	10865.6	10681.5	13613.3	18097.2	20560.8	17638.2	13583.7	12208.8	15161.0
50°	13536.0	12454.2	11833.8	15758.7	22104.0	24856.2	20713.1	15224.6	14011.0	17838.2
52.5°	15722.3	14670.1	13176.9	17801.8	26224.3	29060.6	23801.6	16665.5	16247.3	20944.9
55°	18704.0	18004.1	15013.2	19751.7	30342.4	33290.0	26769.7	18024.5	19201.8	24635.7
57.5°	22403.9	22903.9	17660.9	22013.0	34044.5	37649.0	29751.5	19924.5	23038.0	28762.9
60°	24790.2	29419.7	22731.2	25356.1	38251.2	42578.4	33837.7	23538.0	27069.7	30242.4
62.5°	24213.0	31492.3	28803.8	29624.2	42119.3	46162.4	37842.2	27167.5	27828.8	28062.9
65°	22442.6	29819.7	27565.2	30453.7	43098.8	46364.7	38912.6	26699.3	23606.2	22910.7
67.5°	20006.3	27835.6	24622.1	28253.8	41328.4	43537.5	36919.5	23617.5	18242.7	17192.7
70°	17376.8	25640.2	22690.3	25785.7	37953.5	38610.3	33530.9	20772.2	13417.8	11611.1
72.5°	14881.4	23353.9	21367.6	23256.2	33451.4	32092.3	29119.7	18256.3	9770.2	8374.8
75°	12329.2	19981.3	19483.6	20251.7	27531.1	25278.9	24194.8	15115.5	7668.0	6058.9
77.5°	9513.4	15613.2	16758.6	16217.7	19379.0	18776.8	18754.0	11358.8	5602.1	4043.1
80°	6511.2	10881.5	13092.8	11440.6	12576.9	12270.1	14124.6	7620.3	4063.5	2434.0
82.5°	3827.2	6624.8	9113.4	5538.5	6954.4	7138.4	8411.1	3706.7	2390.8	561.3
85°	1552.2	2615.8	3563.5	2168.1	3354.5	2829.5	3193.1	1040.9	665.9	13.6
87.5°	390.9	836.3	586.3	243.2	388.6	356.8	281.8	127.3	27.3	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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
4568.1	0°	4568.1	4568.1	4568.1	4568.1	4568.1	4568.1	4568.1	4568.1	4568.1	4568.1
5161.2	2.5°	5072.6	5020.3	4890.8	4761.2	4656.7	4515.8	4422.6	4311.2	4204.4	4109.0
5752.1	5°	5608.9	5436.2	5199.9	4984.0	4763.5	4549.9	4338.5	4115.8	3911.3	3786.3
6252.1	7.5°	6045.3	5740.8	5427.1	5152.1	4886.2	4636.2	4356.7	4086.3	3765.8	3595.4
6633.9	10°	6370.3	5970.3	5558.9	5243.0	4974.9	4731.7	4495.3	4222.6	3836.3	3622.6
6865.7	12.5°	6583.9	6108.9	5627.1	5265.8	4965.8	4777.1	4672.6	4565.8	4181.7	3931.7
7036.2	15°	6731.6	6206.7	5674.8	5213.5	4845.3	4706.7	4811.2	4934.0	4688.5	4399.9
7213.4	17.5°	6893.0	6333.9	5695.3	5072.6	4611.2	4552.2	4822.6	5106.7	5095.3	4809.0
7381.6	20°	7063.4	6445.3	5681.7	4845.3	4327.2	4379.4	4724.9	5054.4	5193.0	5038.5
7574.8	22.5°	7238.4	6552.1	5629.4	4549.9	4061.3	4224.9	4570.3	4859.0	5022.6	4974.9
7811.2	25°	7458.9	6702.1	5552.1	4231.7	3840.8	4068.1	4390.8	4624.9	4738.5	4736.2
8065.7	27.5°	7722.5	6902.1	5511.2	3974.9	3684.0	3890.8	4177.2	4386.2	4465.8	4465.8
8381.6	30°	8029.3	7138.4	5465.8	3806.7	3593.1	3706.7	3929.4	4134.0	4213.5	4213.5
8727.0	32.5°	8370.2	7365.7	5356.7	3704.4	3524.9	3527.2	3668.1	3854.4	3949.9	3963.5
9158.8	35°	8779.3	7608.9	5118.0	3622.6	3445.4	3352.2	3420.4	3574.9	3688.5	3718.1
9774.7	37.5°	9315.7	7906.6	4777.1	3502.2	3322.6	3168.1	3184.0	3302.2	3427.2	3472.6
10624.7	40°	10036.1	8256.6	4422.6	3329.5	3149.9	2965.8	2959.0	3045.4	3168.1	3218.1
11774.7	42.5°	10988.3	8677.0	4084.0	3163.6	2940.8	2752.2	2740.8	2809.0	2915.8	2968.1
13292.8	45°	12206.5	9192.9	3793.1	3034.0	2736.3	2549.9	2545.4	2602.2	2695.4	2749.9
15236.0	47.5°	13899.6	9708.8	3595.4	2965.8	2574.9	2384.0	2393.1	2443.1	2527.2	2565.8
17751.8	50°	16106.4	9865.6	3495.4	2965.8	2488.6	2236.3	2281.8	2322.7	2386.3	2409.0
20767.6	52.5°	18224.5	9347.5	3404.5	2984.0	2499.9	2111.3	2209.0	2238.6	2293.1	2302.2
23563.0	55°	19263.1	8036.1	3279.5	2988.6	2570.4	2004.5	2149.9	2204.5	2224.9	2222.7
25185.7	57.5°	18906.3	6497.6	3068.1	2970.4	2618.1	1936.3	2077.2	2181.8	2195.4	2174.9
24876.6	60°	17654.1	4784.0	2906.7	2836.3	2599.9	1915.9	1965.9	2131.8	2152.2	2124.9
22494.9	62.5°	15554.1	3320.4	2781.7	2540.8	2520.4	1909.0	1790.9	2022.7	2072.7	2034.0
18081.3	65°	12245.1	2345.4	2395.4	2227.2	2347.7	1872.7	1609.0	1890.9	1959.0	1899.9
13117.8	67.5°	8286.1	1693.1	1940.9	2018.1	2068.1	1790.9	1477.2	1740.9	1831.8	1754.5
8418.0	70°	4474.9	1188.6	1281.8	1700.0	1756.8	1650.0	1359.1	1588.6	1693.1	1609.0
5983.9	72.5°	2643.1	854.5	897.7	1365.9	1463.6	1452.2	1227.2	1411.3	1538.6	1438.6
4129.4	75°	1456.8	577.3	640.9	990.9	1188.6	1120.4	1054.5	1195.4	1325.0	1227.2
2588.6	77.5°	652.3	345.4	445.4	650.0	934.1	768.2	815.9	931.8	1052.2	950.0
1440.9	80°	252.3	193.2	295.4	354.5	679.5	425.0	525.0	686.3	772.7	690.9
313.6	82.5°	31.8	86.4	127.3	138.6	395.4	225.0	304.5	431.8	425.0	368.2
0.0	85°	0.0	15.9	18.2	9.1	170.4	81.8	100.0	140.9	131.8	100.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	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°
4568.1	0°	4568.1	4568.1	4568.1	4568.1	4568.1	4568.1	4568.1	4568.1	4568.1	4568.1
4090.8	2.5°	3979.4	3897.6	3856.7	3822.6	3854.4	3872.6	3872.6	3949.9	3995.3	4013.5
3706.7	5°	3506.7	3354.5	3252.2	3190.8	3211.3	3234.0	3259.0	3356.7	3422.6	3465.8
3440.8	7.5°	3134.0	2902.2	2759.0	2684.0	2695.4	2711.3	2731.7	2827.2	2893.1	2949.9
3390.8	10°	2949.9	2622.7	2434.0	2343.1	2327.2	2318.1	2311.3	2368.1	2418.1	2463.6
3595.4	12.5°	2959.0	2502.2	2272.7	2161.3	2113.6	2059.0	2015.9	2024.9	2056.8	2113.6
3961.3	15°	3074.9	2463.6	2188.6	2049.9	1970.4	1906.8	1854.5	1843.1	1854.5	1863.6
4379.4	17.5°	3231.7	2459.0	2115.9	1943.1	1861.3	1809.0	1761.3	1745.4	1747.7	1759.0
4656.7	20°	3356.7	2445.4	2034.0	1840.9	1768.1	1722.7	1675.0	1659.0	1663.6	1665.9
4684.0	22.5°	3422.6	2424.9	1943.1	1738.6	1677.2	1631.8	1588.6	1586.3	1586.3	1600.0
4536.2	25°	3422.6	2381.8	1861.3	1640.9	1586.3	1545.4	1493.1	1502.2	1506.8	1525.0
4306.7	27.5°	3340.8	2299.9	1795.4	1556.8	1500.0	1459.1	1411.3	1422.7	1429.5	1450.0
4079.4	30°	3236.3	2202.2	1720.4	1477.2	1411.3	1381.8	1340.9	1345.4	1354.5	1377.2
3868.1	32.5°	3124.9	2086.3	1659.0	1397.7	1331.8	1309.1	1263.6	1270.4	1279.5	1304.5
3659.0	35°	3002.2	1949.9	1586.3	1325.0	1259.1	1240.9	1188.6	1193.1	1206.8	1234.1
3434.0	37.5°	2872.7	1838.6	1513.6	1254.5	1186.3	1168.2	1113.6	1118.2	1134.1	1165.9
3197.6	40°	2745.4	1729.5	1436.3	1179.5	1111.3	1095.4	1036.3	1040.9	1059.1	1093.2
2959.0	42.5°	2606.7	1645.4	1336.3	1102.2	1029.5	1013.6	959.1	965.9	986.3	1020.4
2738.6	45°	2440.8	1590.9	1225.0	1029.5	947.7	931.8	881.8	895.4	918.2	952.2
2549.9	47.5°	2270.4	1568.1	1131.8	952.2	863.6	850.0	809.1	831.8	856.8	884.1
2388.6	50°	2106.8	1538.6	1036.3	879.5	790.9	777.3	750.0	779.5	804.5	829.5
2272.7	52.5°	1920.4	1475.0	950.0	815.9	729.5	725.0	711.3	738.6	761.3	784.1
2172.7	55°	1727.2	1372.7	875.0	759.1	677.3	681.8	675.0	697.7	715.9	736.3
2081.8	57.5°	1559.0	1243.1	815.9	697.7	631.8	645.4	636.3	647.7	659.1	684.1
1972.7	60°	1388.6	1088.6	750.0	625.0	586.3	602.3	577.3	575.0	579.5	586.3
1811.3	62.5°	1159.1	927.2	668.2	561.3	536.3	543.2	495.4	459.1	459.1	465.9
1586.3	65°	931.8	777.3	577.3	488.6	468.2	463.6	395.4	345.4	340.9	361.4
1325.0	67.5°	765.9	645.4	486.4	406.8	393.2	397.7	347.7	297.7	293.2	315.9
1079.5	70°	634.1	520.4	388.6	313.6	327.3	347.7	297.7	250.0	243.2	263.6
877.2	72.5°	504.5	406.8	297.7	231.8	270.4	295.4	243.2	197.7	193.2	211.4
677.3	75°	370.4	290.9	202.3	168.2	209.1	231.8	177.3	140.9	134.1	150.0
452.3	77.5°	229.5	163.6	127.3	100.0	143.2	154.5	93.2	81.8	79.5	90.9
275.0	80°	106.8	70.5	61.4	34.1	52.3	61.4	38.6	43.2	45.5	54.5
138.6	82.5°	29.5	11.4	2.3	0.0	0.0	18.2	9.1	18.2	22.7	34.1
11.4	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	11.4	20.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1
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°
4568.1	0°	4568.1	4568.1	4568.1	4568.1	4568.1	4568.1	4568.1	4568.1
4140.8	2.5°	4236.3	4327.2	4472.6	4622.6	4770.3	4920.3	5065.8	5118.0
3663.5	5°	3843.1	4052.2	4340.8	4649.9	4968.0	5290.8	5586.2	5720.3
3170.4	7.5°	3404.5	3704.4	4138.5	4622.6	5129.4	5636.2	6102.1	6318.0
2681.7	10°	2936.3	3315.8	3811.3	4465.8	5193.0	5893.0	6533.9	6813.5
2252.2	12.5°	2490.8	2888.6	3436.3	4220.3	5143.0	6040.7	6811.2	7140.7
1949.9	15°	2118.1	2470.4	3061.3	3929.4	4981.7	6049.8	6943.0	7304.3
1781.8	17.5°	1838.6	2068.1	2679.5	3606.7	4770.3	5965.7	6988.4	7374.8
1690.9	20°	1700.0	1763.6	2184.0	3193.1	4572.6	5886.2	7033.9	7440.7
1618.1	22.5°	1618.1	1634.0	1786.3	2659.0	4336.2	5861.2	7113.4	7531.6
1552.2	25°	1552.2	1556.8	1597.7	2106.8	3974.9	5845.3	7236.2	7656.6
1484.1	27.5°	1486.3	1486.3	1509.1	1697.7	3484.0	5777.1	7395.3	7806.6
1415.9	30°	1420.4	1420.4	1436.3	1502.2	2909.0	5643.0	7586.2	8002.1
1347.7	32.5°	1352.2	1352.2	1365.9	1413.6	2322.7	5474.9	7761.2	8199.8
1277.2	35°	1284.1	1279.5	1297.7	1347.7	1847.7	5261.2	7936.2	8413.4
1206.8	37.5°	1211.3	1209.1	1227.2	1284.1	1595.4	5013.5	8068.0	8704.3
1136.3	40°	1134.1	1134.1	1154.5	1215.9	1522.7	4702.1	8277.1	9122.5
1063.6	42.5°	1063.6	1059.1	1081.8	1156.8	1468.1	4404.4	8652.0	9731.6
997.7	45°	995.4	986.3	1006.8	1100.0	1372.7	4299.9	9352.0	10631.5
934.1	47.5°	931.8	909.1	927.2	1031.8	1286.3	4690.8	10497.4	11879.2
877.2	50°	879.5	836.3	852.2	963.6	1220.4	5538.5	11983.8	13536.0
825.0	52.5°	825.0	768.2	777.3	879.5	1161.3	6345.3	13595.1	15722.3
772.7	55°	768.2	704.5	709.1	795.4	1077.2	6465.7	15167.8	18704.0
713.6	57.5°	704.5	645.4	645.4	718.2	1015.9	5604.4	16376.8	22403.9
640.9	60°	634.1	595.4	584.1	656.8	1070.4	3954.4	16517.7	24790.2
547.7	62.5°	556.8	536.3	520.4	597.7	1111.3	2343.1	15383.7	24213.0
431.8	65°	468.2	463.6	452.3	656.8	936.3	1384.1	13206.5	22442.6
368.2	67.5°	393.2	386.4	386.4	688.6	711.3	870.4	10317.9	20006.3
313.6	70°	338.6	313.6	313.6	520.4	431.8	602.3	7204.4	17376.8
259.1	72.5°	284.1	256.8	238.6	415.9	322.7	440.9	4502.2	14881.4
197.7	75°	227.3	206.8	184.1	275.0	240.9	334.1	2615.8	12329.2
125.0	77.5°	163.6	154.5	129.5	202.3	175.0	240.9	1556.8	9513.4
77.3	80°	84.1	86.4	81.8	115.9	118.2	163.6	886.3	6511.2
50.0	82.5°	50.0	38.6	43.2	56.8	68.2	93.2	334.1	3827.2
36.4	85°	31.8	20.5	20.5	27.3	34.1	36.4	102.3	1552.2
18.2	87.5°	15.9	6.8	9.1	13.6	11.4	9.1	4.5	390.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)