

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: P956727

Luminaire Tested: **GALN-SB9B-750-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956727
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-SB9B-750-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 5000K, 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: 41413 lumens
Efficiency: N/A
Efficacy: 125.7 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

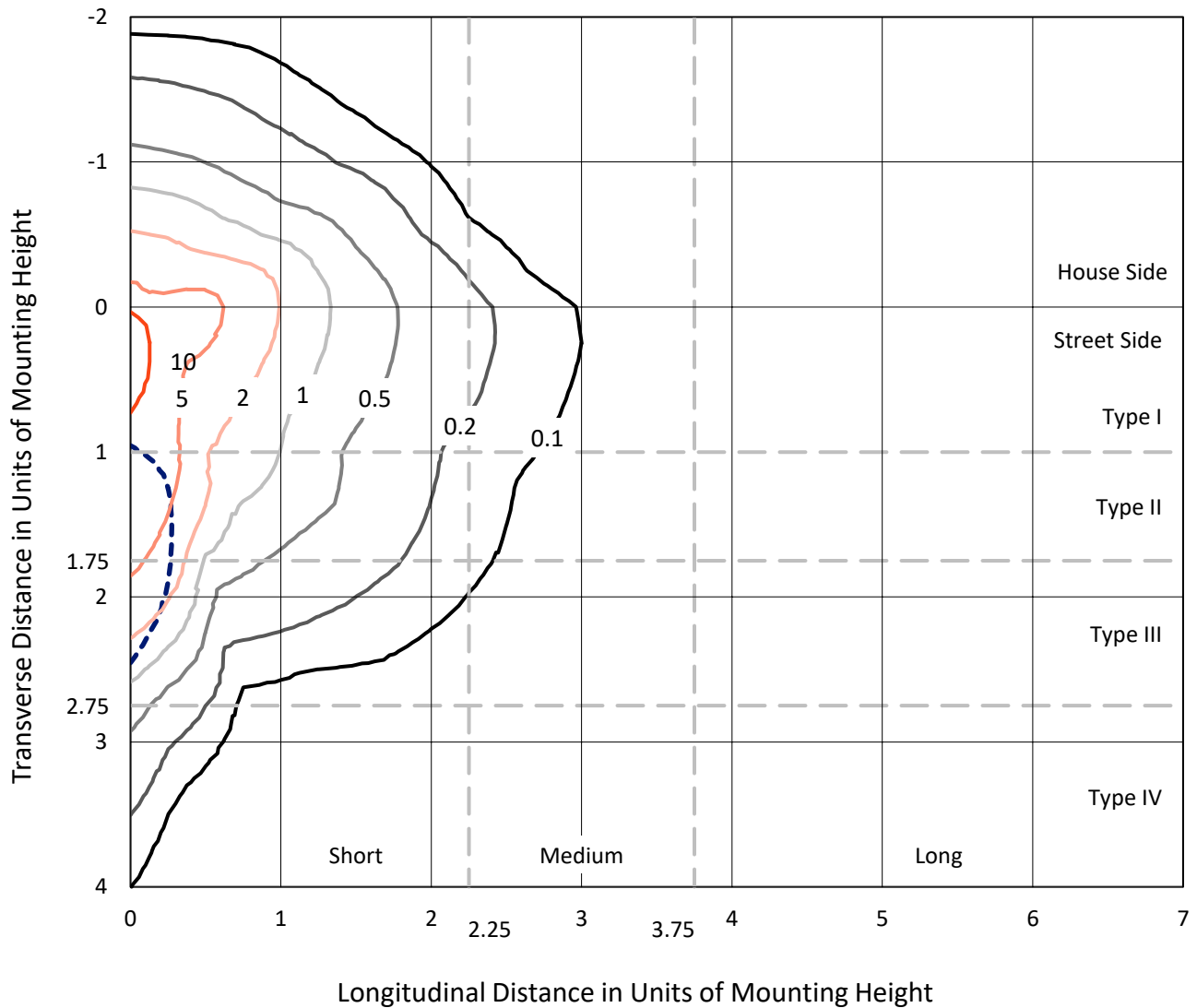
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

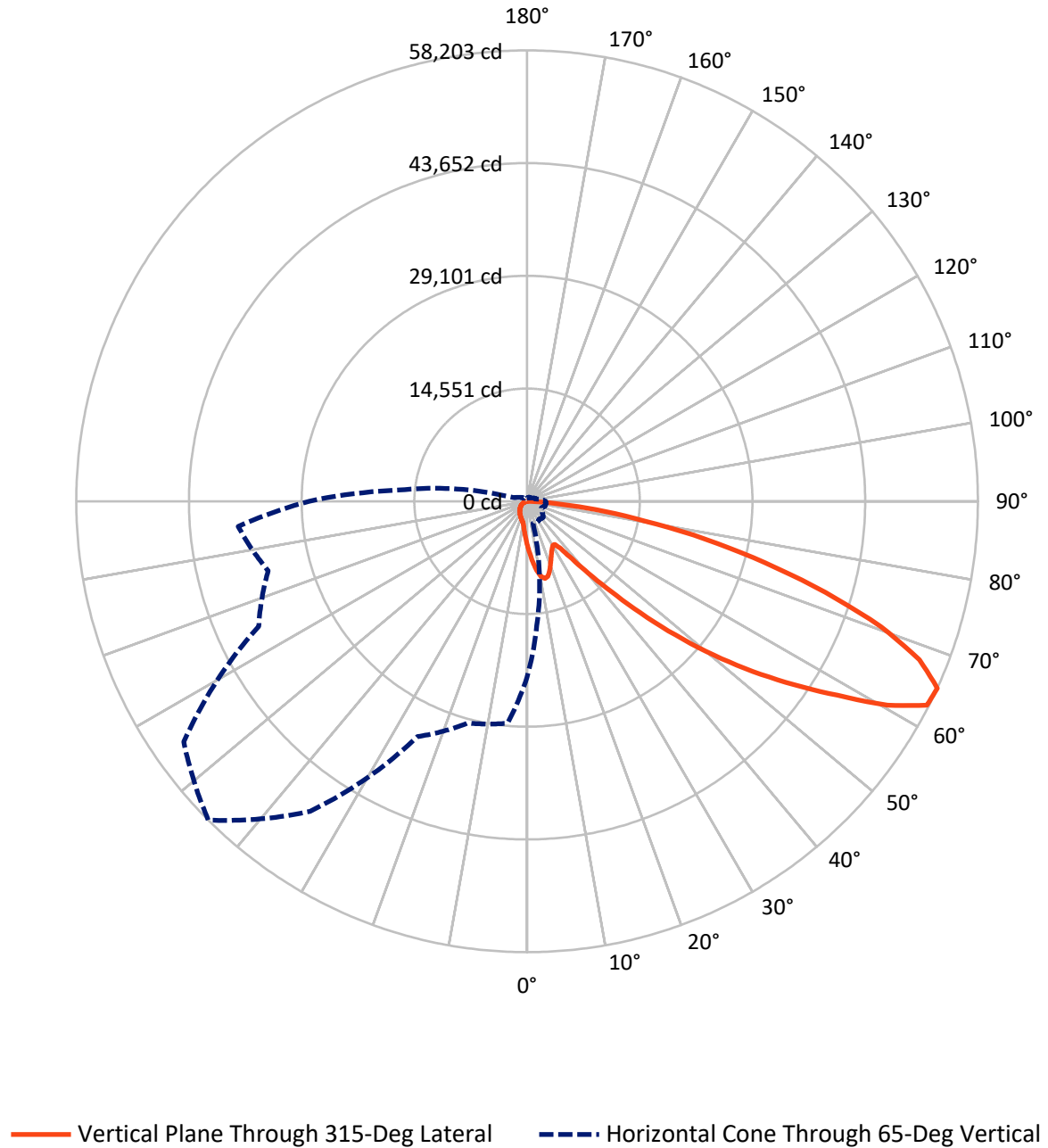
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 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	5799.6	0.0	5799.6
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	35613.4	0.0	35613.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	41413.0	0.0	41413.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	564.6	1.4
10°-20°	1692.4	4.1
20°-30°	2493.3	6.0
30°-40°	3203.2	7.7
40°-50°	5180.5	12.5
50°-60°	9084.4	21.9
60°-70°	11367.1	27.4
70°-80°	6642.4	16.0
80°-90°	1185.1	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°	41413.0	100.0
0°-180°	41413.0	100.0

Coefficient of Utilization



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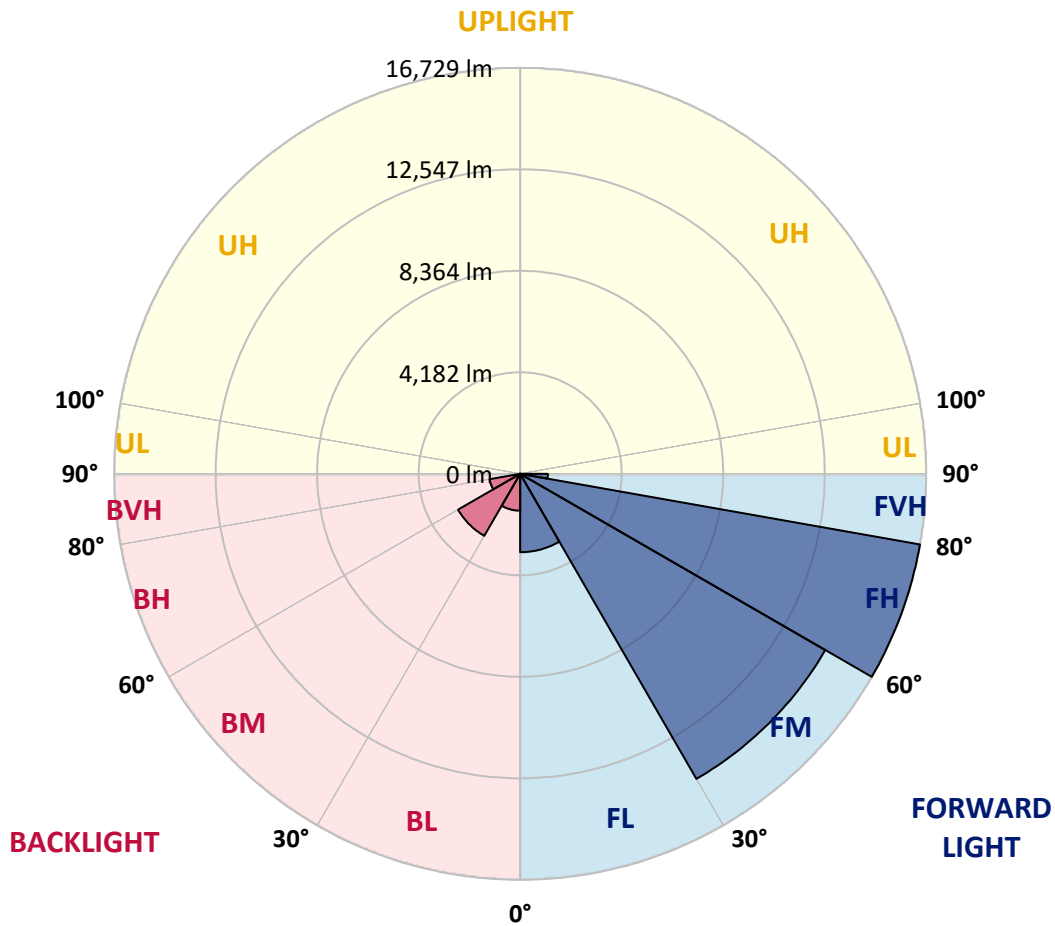
CATALOG NUMBER: GALN-SB9B-750-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3230.1	7.8			
FM (30°-60°)	14514.8	35.0			
FH (60°-80°)	16729.0	40.4			G5
FVH (80°-90°)	1139.6	2.8			G5
BL (0°-30°)	1520.2	3.7	B3/2500		
BM (30°-60°)	2953.3	7.1	B3/5000		
BH (60°-80°)	1280.6	3.1	B3/2500		G3/2500
BVH (80°-90°)	45.5	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°	5734.4	5734.4	5734.4	5734.4	5734.4	5734.4	5734.4	5734.4	5734.4	5734.4
2.5°	6479.0	6367.7	6302.1	6139.5	5976.9	5845.6	5668.8	5551.8	5412.0	5277.9
5°	7220.7	7041.0	6824.2	6527.5	6256.5	5979.7	5711.6	5446.2	5166.6	4909.9
7.5°	7848.4	7588.8	7206.5	6812.8	6467.6	6133.8	5820.0	5469.1	5129.6	4727.3
10°	8327.7	7996.7	7494.6	6978.2	6581.7	6245.0	5939.8	5643.1	5300.7	4815.7
12.5°	8618.7	8264.9	7668.7	7063.8	6610.2	6233.6	5996.8	5865.6	5731.5	5249.4
15°	8832.6	8450.4	7791.3	7123.7	6544.6	6082.4	5908.4	6039.6	6193.7	5885.6
17.5°	9055.2	8652.9	7951.1	7149.4	6367.7	5788.6	5714.4	6053.9	6410.5	6396.3
20°	9266.3	8866.9	8090.9	7132.3	6082.4	5432.0	5497.6	5931.2	6344.9	6518.9
22.5°	9508.8	9086.6	8225.0	7066.7	5711.6	5098.2	5303.6	5737.2	6099.5	6305.0
25°	9805.5	9363.3	8413.3	6969.7	5312.1	4821.4	5106.7	5511.8	5805.7	5948.3
27.5°	10125.0	9694.2	8664.3	6918.3	4989.8	4624.6	4884.2	5243.7	5506.1	5606.0
30°	10521.6	10079.4	8961.0	6861.3	4778.6	4510.5	4653.1	4932.7	5189.5	5289.3
32.5°	10955.2	10507.3	9246.3	6724.3	4650.3	4424.9	4427.7	4604.6	4838.6	4958.4
35°	11497.3	11020.8	9551.6	6424.8	4547.6	4325.0	4208.1	4293.6	4487.6	4630.3
37.5°	12270.4	11694.1	9925.3	5996.8	4396.4	4171.0	3977.0	3996.9	4145.3	4302.2
40°	13337.4	12598.5	10364.7	5551.8	4179.5	3954.2	3723.1	3714.5	3822.9	3977.0
42.5°	14781.0	13793.9	10892.5	5126.7	3971.3	3691.7	3454.9	3440.6	3526.2	3660.3
45°	16686.7	15323.0	11540.1	4761.5	3808.7	3434.9	3201.0	3195.3	3266.6	3383.6
47.5°	19126.0	17448.5	12187.7	4513.3	3723.1	3232.4	2992.7	3004.1	3066.9	3172.5
50°	22284.2	20218.7	12384.5	4387.8	3723.1	3124.0	2807.3	2864.3	2915.7	2995.6
52.5°	26070.0	22877.6	11734.1	4273.7	3745.9	3138.2	2650.4	2773.0	2810.1	2878.6
55°	29579.1	24181.4	10087.9	4116.8	3751.6	3226.7	2516.3	2698.9	2767.3	2793.0
57.5°	31616.1	23733.5	8156.5	3851.4	3728.8	3286.6	2430.7	2607.6	2738.8	2755.9
60°	31228.1	22161.5	6005.4	3648.9	3560.4	3263.7	2405.0	2467.8	2676.0	2701.7
62.5°	28238.2	19525.4	4168.1	3492.0	3189.6	3163.9	2396.5	2248.1	2539.1	2601.9
65°	22697.9	15371.5	2944.2	3007.0	2795.9	2947.1	2350.8	2019.9	2373.6	2459.2
67.5°	16467.1	10401.8	2125.4	2436.4	2533.4	2596.2	2248.1	1854.4	2185.3	2299.5
70°	10567.2	5617.4	1492.1	1609.0	2134.0	2205.3	2071.2	1706.0	1994.2	2125.4
72.5°	7511.7	3317.9	1072.7	1126.9	1714.6	1837.3	1823.0	1540.6	1771.7	1931.4
75°	5183.8	1828.7	724.6	804.5	1243.9	1492.1	1406.5	1323.8	1500.6	1663.3
77.5°	3249.5	818.8	433.6	559.2	815.9	1172.6	964.3	1024.2	1169.7	1320.9
80°	1808.8	316.7	242.5	370.9	445.1	853.0	533.5	659.0	861.6	970.0
82.5°	393.7	39.9	108.4	159.8	174.0	496.4	282.4	382.3	542.1	533.5
85°	0.0	0.0	20.0	22.8	11.4	214.0	102.7	125.5	176.9	165.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7
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°
5734.4	0°	5734.4	5734.4	5734.4	5734.4	5734.4	5734.4	5734.4	5734.4	5734.4	5734.4
5158.1	2.5°	5135.3	4995.5	4892.8	4841.4	4798.6	4838.6	4861.4	4861.4	4958.4	5015.4
4753.0	5°	4653.1	4402.1	4210.9	4082.5	4005.5	4031.2	4059.7	4091.1	4213.8	4296.5
4513.3	7.5°	4319.3	3934.2	3643.2	3463.4	3369.3	3383.6	3403.5	3429.2	3549.0	3631.8
4547.6	10°	4256.6	3703.1	3292.3	3055.5	2941.4	2921.4	2910.0	2901.4	2972.7	3035.5
4935.6	12.5°	4513.3	3714.5	3141.1	2852.9	2713.1	2653.2	2584.7	2530.5	2542.0	2581.9
5523.3	15°	4972.6	3860.0	3092.6	2747.4	2573.3	2473.5	2393.6	2328.0	2313.7	2328.0
6036.8	17.5°	5497.6	4056.9	3086.9	2656.1	2439.2	2336.5	2270.9	2211.0	2191.0	2193.9
6324.9	20°	5845.6	4213.8	3069.7	2553.4	2310.9	2219.6	2162.5	2102.6	2082.6	2088.3
6245.0	22.5°	5879.9	4296.5	3044.1	2439.2	2182.5	2105.5	2048.4	1994.2	1991.3	1991.3
5945.5	25°	5694.4	4296.5	2989.9	2336.5	2059.8	1991.3	1940.0	1874.4	1885.8	1891.5
5606.0	27.5°	5406.3	4193.8	2887.2	2253.8	1954.3	1882.9	1831.6	1771.7	1785.9	1794.5
5289.3	30°	5121.0	4062.6	2764.5	2159.7	1854.4	1771.7	1734.6	1683.2	1688.9	1700.3
4975.5	32.5°	4855.7	3922.8	2619.0	2082.6	1754.5	1671.8	1643.3	1586.2	1594.8	1606.2
4667.4	35°	4593.2	3768.7	2447.8	1991.3	1663.3	1580.5	1557.7	1492.1	1497.8	1514.9
4359.3	37.5°	4310.8	3606.1	2308.0	1900.0	1574.8	1489.2	1466.4	1397.9	1403.6	1423.6
4039.7	40°	4014.1	3446.3	2171.1	1803.0	1480.7	1395.1	1375.1	1300.9	1306.6	1329.5
3725.9	42.5°	3714.5	3272.3	2065.5	1677.5	1383.7	1292.4	1272.4	1203.9	1212.5	1238.2
3452.0	45°	3437.8	3064.0	1997.0	1537.7	1292.4	1189.7	1169.7	1106.9	1124.1	1152.6
3221.0	47.5°	3201.0	2850.1	1968.5	1420.8	1195.4	1084.1	1067.0	1015.6	1044.2	1075.6
3024.1	50°	2998.4	2644.7	1931.4	1300.9	1104.1	992.8	975.7	941.5	978.6	1009.9
2890.0	52.5°	2852.9	2410.7	1851.5	1192.5	1024.2	915.8	910.1	893.0	927.2	955.7
2790.2	55°	2727.4	2168.2	1723.2	1098.4	952.9	850.2	855.9	847.3	875.8	898.7
2730.2	57.5°	2613.3	1957.1	1560.5	1024.2	875.8	793.1	810.2	798.8	813.1	827.3
2667.5	60°	2476.3	1743.1	1366.6	941.5	784.6	736.1	756.0	724.6	721.8	727.5
2553.4	62.5°	2273.8	1455.0	1164.0	838.8	704.7	673.3	681.8	621.9	576.3	576.3
2385.0	65°	1991.3	1169.7	975.7	724.6	613.4	587.7	582.0	496.4	433.6	427.9
2202.5	67.5°	1663.3	961.4	810.2	610.5	510.7	493.6	499.3	436.5	373.7	368.0
2019.9	70°	1355.1	796.0	653.3	487.8	393.7	410.8	436.5	373.7	313.8	305.3
1805.9	72.5°	1101.2	633.3	510.7	373.7	291.0	339.5	370.9	305.3	248.2	242.5
1540.6	75°	850.2	465.0	365.2	253.9	211.1	262.5	291.0	222.5	176.9	168.3
1192.5	77.5°	567.7	288.1	205.4	159.8	125.5	179.7	194.0	117.0	102.7	99.9
867.3	80°	345.2	134.1	88.4	77.0	42.8	65.6	77.0	48.5	54.2	57.1
462.2	82.5°	174.0	37.1	14.3	2.9	0.0	0.0	22.8	11.4	22.8	28.5
125.5	85°	14.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	14.3
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°
5734.4	0°	5734.4	5734.4	5734.4	5734.4	5734.4	5734.4	5734.4	5734.4	5734.4	5734.4
5038.3	2.5°	5198.0	5317.8	5432.0	5614.6	5802.8	5988.3	6176.6	6359.2	6424.8	6473.3
4350.7	5°	4598.9	4824.3	5086.8	5449.1	5837.1	6236.5	6641.6	7012.5	7180.8	7294.9
3703.1	7.5°	3979.8	4273.7	4650.3	5195.2	5802.8	6439.0	7075.2	7660.1	7931.1	8150.8
3092.6	10°	3366.4	3686.0	4162.4	4784.4	5606.0	6518.9	7397.6	8202.2	8553.1	8829.8
2653.2	12.5°	2827.2	3126.8	3626.1	4313.6	5297.9	6456.2	7583.1	8550.2	8963.9	9274.9
2339.4	15°	2447.8	2658.9	3101.1	3842.9	4932.7	6253.6	7594.5	8715.7	9169.3	9494.5
2208.2	17.5°	2236.7	2308.0	2596.2	3363.6	4527.6	5988.3	7488.9	8772.7	9257.7	9560.1
2091.2	20°	2122.6	2134.0	2213.9	2741.7	4008.4	5740.1	7389.1	8829.8	9340.5	9594.4
2008.5	22.5°	2031.3	2031.3	2051.3	2242.4	3337.9	5443.4	7357.7	8929.6	9454.6	9611.5
1914.3	25°	1948.5	1948.5	1954.3	2005.6	2644.7	4989.8	7337.7	9083.7	9611.5	9654.3
1820.2	27.5°	1863.0	1865.8	1865.8	1894.3	2131.1	4373.5	7252.1	9283.4	9799.8	9711.4
1728.9	30°	1777.4	1783.1	1783.1	1803.0	1885.8	3651.7	7083.8	9523.1	10045.1	9785.5
1637.6	32.5°	1691.8	1697.5	1697.5	1714.6	1774.5	2915.7	6872.7	9742.7	10293.3	9816.9
1549.1	35°	1603.3	1611.9	1606.2	1629.0	1691.8	2319.4	6604.5	9962.4	10561.5	9916.8
1463.5	37.5°	1514.9	1520.6	1517.8	1540.6	1611.9	2002.8	6293.5	10127.9	10926.7	10139.3
1372.3	40°	1426.5	1423.6	1423.6	1449.3	1526.3	1911.5	5902.7	10390.3	11451.6	10530.1
1281.0	42.5°	1335.2	1335.2	1329.5	1358.0	1452.1	1843.0	5529.0	10861.1	12216.2	11152.1
1195.4	45°	1252.4	1249.6	1238.2	1263.8	1380.8	1723.2	5397.7	11739.8	13346.0	12159.2
1109.8	47.5°	1172.6	1169.7	1141.2	1164.0	1295.2	1614.8	5888.4	13177.7	14912.2	13639.8
1041.3	50°	1101.2	1104.1	1049.9	1069.8	1209.6	1532.0	6952.6	15043.5	16992.0	15634.0
984.3	52.5°	1035.6	1035.6	964.3	975.7	1104.1	1457.8	7965.4	17066.2	19736.5	18415.6
924.3	55°	970.0	964.3	884.4	890.1	998.5	1352.3	8116.6	19040.4	23479.6	22600.9
858.7	57.5°	895.8	884.4	810.2	810.2	901.5	1275.3	7035.3	20558.2	28124.1	28751.8
736.1	60°	804.5	796.0	747.5	733.2	824.5	1343.7	4964.1	20735.0	31119.7	36931.1
584.8	62.5°	687.6	699.0	673.3	653.3	750.3	1395.1	2941.4	19311.4	30395.0	39533.0
453.6	65°	542.1	587.7	582.0	567.7	824.5	1175.4	1737.4	16578.3	28172.6	37433.2
396.6	67.5°	462.2	493.6	485.0	485.0	864.4	893.0	1092.7	12952.3	25114.3	34942.6
330.9	70°	393.7	425.1	393.7	393.7	653.3	542.1	756.0	9043.8	21813.4	32186.7
265.3	72.5°	325.2	356.6	322.4	299.6	522.1	405.1	553.5	5651.6	18680.9	29316.6
188.3	75°	248.2	285.3	259.6	231.1	345.2	302.4	419.4	3283.7	15477.1	25082.9
114.1	77.5°	156.9	205.4	194.0	162.6	253.9	219.7	302.4	1954.3	11942.3	19599.6
68.5	80°	97.0	105.6	108.4	102.7	145.5	148.4	205.4	1112.6	8173.6	13659.8
42.8	82.5°	62.8	62.8	48.5	54.2	71.3	85.6	117.0	419.4	4804.3	8316.3
25.7	85°	45.6	39.9	25.7	25.7	34.2	42.8	45.6	128.4	1948.5	3283.7
11.4	87.5°	22.8	20.0	8.6	11.4	17.1	14.3	11.4	5.7	490.7	1049.9
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°
5734.4	0°	5734.4	5734.4	5734.4	5734.4	5734.4	5734.4	5734.4	5734.4
6581.7	2.5°	6638.8	6727.2	6732.9	6732.9	6655.9	6653.0	6496.1	6479.0
7551.7	5°	7817.0	7874.1	7888.3	7859.8	7705.7	7591.6	7286.4	7220.7
8541.7	7.5°	8895.4	9009.5	9009.5	8941.1	8690.0	8456.1	8013.9	7848.4
9360.4	10°	9757.0	9888.2	9859.7	9719.9	9403.2	9080.9	8544.5	8327.7
9856.8	12.5°	10176.4	10310.5	10236.3	10076.5	9768.4	9428.9	8864.0	8618.7
9999.5	15°	10167.8	10130.7	10053.7	10033.7	9885.4	9628.6	9100.8	8832.6
9911.1	17.5°	9805.5	9491.7	9431.8	9631.5	9819.8	9757.0	9306.2	9055.2
9699.9	20°	9232.1	8684.3	8630.1	9012.4	9548.7	9822.6	9497.4	9266.3
9394.7	22.5°	8627.2	8036.7	7911.2	8333.4	9140.8	9842.6	9739.9	9508.8
9058.0	25°	8053.8	7460.4	7334.9	7728.6	8687.2	9808.3	10002.3	9805.5
8735.7	27.5°	7574.5	7001.1	6884.1	7277.8	8250.7	9711.4	10264.8	10125.0
8416.1	30°	7203.6	6673.0	6587.4	6966.8	7874.1	9591.5	10598.6	10521.6
8119.4	32.5°	6986.8	6598.8	6630.2	6941.2	7671.5	9460.3	10918.1	10955.2
7973.9	35°	7200.8	7217.9	7491.8	7620.2	7859.8	9440.3	11351.8	11497.3
8147.9	37.5°	8264.9	8858.3	9426.1	9320.5	8781.3	9671.4	11999.4	12270.4
8906.8	40°	10076.5	11294.7	12216.2	11814.0	10456.0	10378.9	12932.3	13337.4
10253.4	42.5°	12290.4	14355.9	15873.7	14795.3	12615.6	11617.1	14264.6	14781.0
11882.4	45°	14626.9	18130.3	20521.1	18278.7	14917.9	13351.7	16281.6	16686.7
13408.7	47.5°	17089.0	22717.8	25810.4	22141.5	17051.9	15325.9	19031.8	19126.0
14855.2	50°	19782.2	27747.5	31202.4	26001.5	19111.7	17588.3	22392.6	22284.2
16541.2	52.5°	22346.9	32919.9	36480.3	29878.7	20920.5	20395.5	26292.5	26070.0
18846.4	55°	24794.8	38089.4	41789.6	33604.6	22626.5	24104.3	30925.7	29579.1
22170.1	57.5°	27633.4	42736.8	47261.5	37347.6	25011.6	28920.1	36106.6	31616.1
28534.9	60°	31830.1	48017.5	53449.5	42477.2	29547.7	33981.2	37963.8	31228.1
36157.9	62.5°	37187.9	52873.2	57948.6	47504.0	34103.8	34934.0	35227.9	28238.2
34603.1	65°	38229.2	54102.8	58202.5	48847.7	33516.1	29633.3	28760.3	22697.9
30908.6	67.5°	35467.5	51880.4	54653.4	46345.7	29647.6	22900.4	21582.4	16467.1
28483.6	70°	32369.3	47643.8	48468.3	42092.0	26075.7	16843.7	14575.6	10567.2
26823.2	72.5°	29194.0	41992.2	40286.1	36554.5	22917.5	12264.7	10513.0	7511.7
24458.1	75°	25422.4	34560.3	31733.1	30372.2	18974.8	9625.8	7605.9	5183.8
21037.5	77.5°	20358.5	24326.9	23570.9	23542.3	14258.9	7032.5	5075.4	3249.5
16435.7	80°	14361.6	15788.1	15402.9	17730.9	9565.9	5101.0	3055.5	1808.8
11440.2	82.5°	6952.6	8729.9	8961.0	10558.7	4653.1	3001.3	704.7	393.7
4473.4	85°	2721.7	4210.9	3551.9	4008.4	1306.6	835.9	17.1	0.0
736.1	87.5°	305.3	487.8	447.9	353.8	159.8	34.2	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)