

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: P953974

Luminaire Tested: **GALN-SB7B-840-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953974
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-840-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 4000K, 450mA 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: 29234 lumens
Efficiency: N/A
Efficacy: 113.9 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

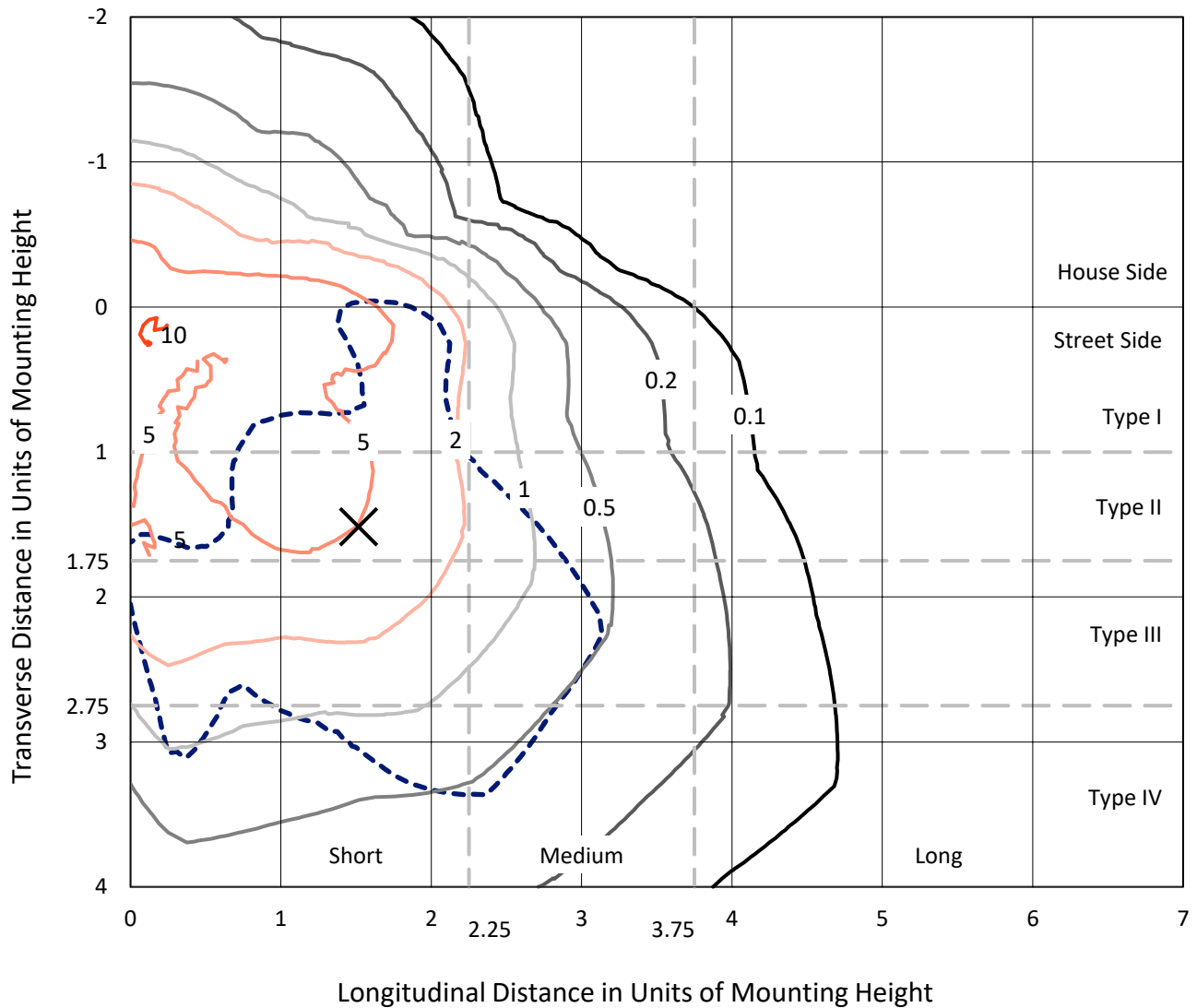
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

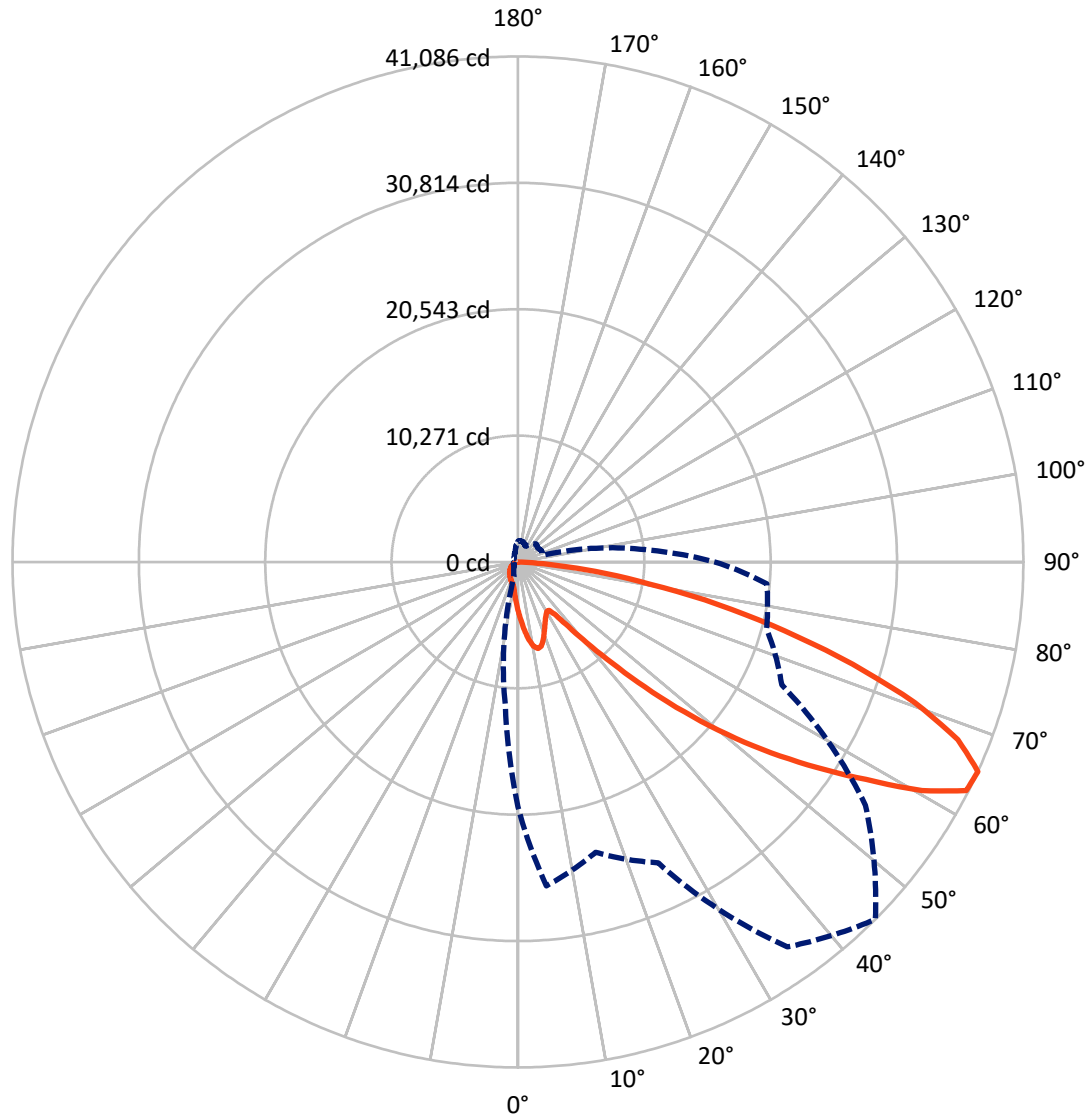
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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	5810.8	0.0	5810.8
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	23423.2	0.0	23423.2
	% Fixture	80.1	0.0	80.1
Total	Lumens	29234.0	0.0	29234.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.5	1.4
10°-20°	1194.7	4.1
20°-30°	1760.0	6.0
30°-40°	2261.2	7.7
40°-50°	3657.0	12.5
50°-60°	6412.8	21.9
60°-70°	8024.2	27.4
70°-80°	4689.0	16.0
80°-90°	836.6	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°	29234.0	100.0
0°-180°	29234.0	100.0

Coefficient of Utilization



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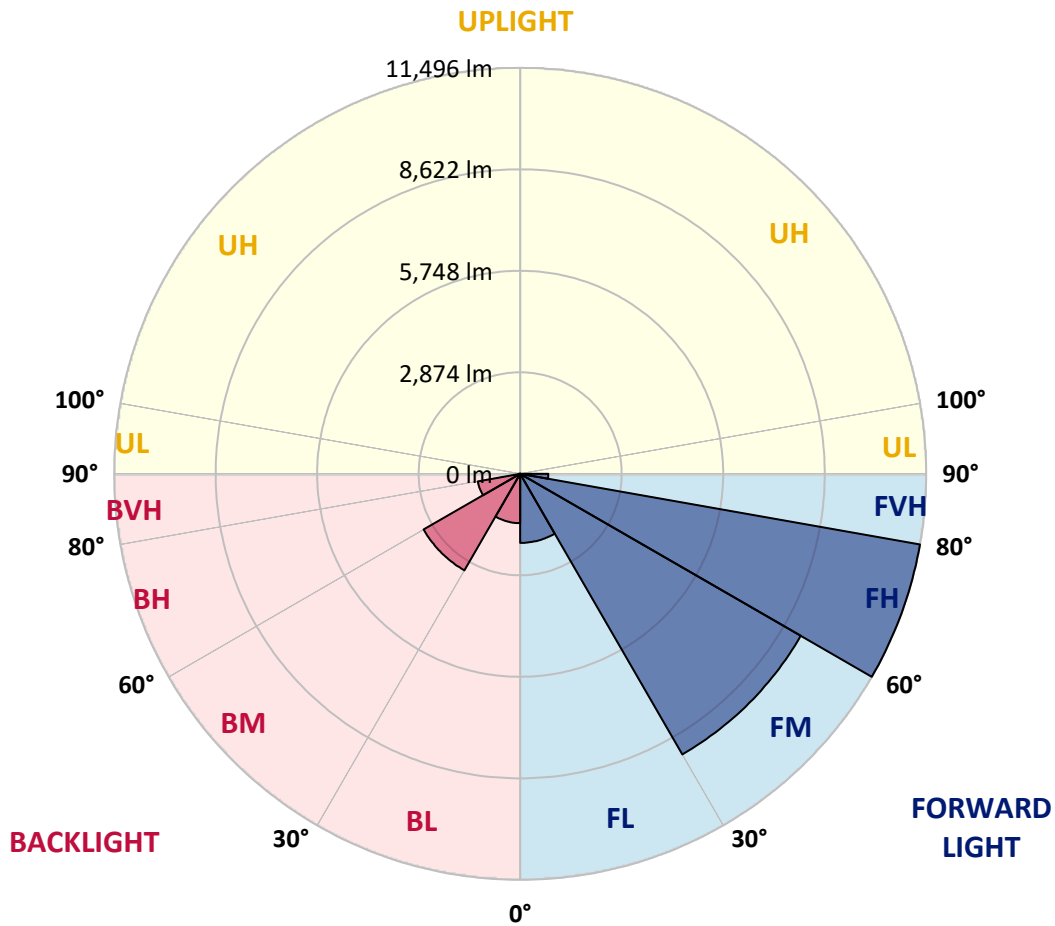
CATALOG NUMBER: GALN-SB7B-840-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1956.1	6.7			
FM (30°-60°)	9174.0	31.4			
FH (60°-80°)	11495.7	39.3			G4/12000
FVH (80°-90°)	797.4	2.7			G5
BL (0°-30°)	1397.2	4.8	B3/2500		
BM (30°-60°)	3157.0	10.8	B3/5000		
BH (60°-80°)	1217.5	4.2	B3/2500		G3/2500
BVH (80°-90°)	39.2	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°	4048.0	4048.0	4048.0	4048.0	4048.0	4048.0	4048.0	4048.0	4048.0	4048.0
2.5°	4535.3	4569.6	4646.1	4686.4	4748.8	4752.8	4752.8	4698.5	4696.5	4585.7
5°	5069.0	5149.6	5330.8	5518.1	5558.4	5568.5	5548.3	5439.6	5359.0	5143.5
7.5°	5598.7	5753.8	6029.7	6279.4	6360.0	6360.0	6311.6	6134.4	5969.3	5657.1
10°	6037.7	6233.1	6607.7	6887.6	6980.2	6960.1	6861.4	6637.9	6410.3	6031.7
12.5°	6327.7	6547.2	6958.1	7183.6	7278.3	7225.9	7113.2	6895.7	6656.0	6257.2
15°	6472.7	6702.3	7058.8	7177.6	7151.4	7097.0	7082.9	6978.2	6797.0	6424.4
17.5°	6535.2	6748.6	6996.3	6921.8	6700.3	6658.0	6799.0	6931.9	6887.6	6569.4
20°	6593.6	6772.8	6847.3	6517.0	6130.4	6092.1	6362.0	6740.6	6933.9	6704.3
22.5°	6674.1	6784.9	6631.8	6090.1	5673.2	5584.6	5882.7	6452.6	6948.0	6875.5
25°	6784.9	6815.1	6394.2	5685.3	5266.4	5177.8	5455.7	6132.4	6923.8	7060.8
27.5°	6917.8	6855.4	6166.6	5347.0	4942.2	4859.6	5137.5	5824.2	6855.4	7246.1
30°	7091.0	6907.7	5941.1	5085.1	4710.6	4650.1	4918.0	5558.4	6770.8	7481.7
32.5°	7266.2	6929.9	5731.6	4932.1	4658.2	4680.3	4899.9	5415.4	6678.1	7707.3
35°	7455.5	7000.4	5628.9	5083.1	5095.2	5288.5	5379.2	5548.3	6664.1	8013.4
37.5°	7713.3	7157.5	5751.7	5834.3	6253.2	6654.0	6579.5	6198.8	6827.2	8470.5
40°	8083.9	7433.4	6287.4	7113.2	7973.1	8623.6	8339.6	7381.0	7326.6	9129.1
42.5°	8623.6	7872.4	7238.0	8676.0	10134.0	11205.4	10444.2	8905.5	8200.7	10069.6
45°	9421.1	8583.3	8388.0	10325.4	12798.4	14486.1	12903.2	10530.8	9425.1	11493.4
47.5°	10526.7	9628.5	9465.4	12063.4	16036.8	18219.9	15630.0	12037.2	10818.8	13434.8
50°	11994.9	11036.3	10486.5	13964.5	19587.4	22026.2	18354.8	13491.2	12415.8	15807.2
52.5°	13932.3	12999.8	11676.7	15775.0	23238.6	25752.0	21091.8	14768.1	14397.5	18560.3
55°	16574.5	15954.3	13303.9	17503.0	26887.8	29499.9	23721.9	15972.4	17015.6	21830.9
57.5°	19853.2	20296.3	15650.2	19506.8	30168.5	33362.6	26364.2	17656.0	20415.1	25488.1
60°	21967.8	26070.2	20143.2	22469.3	33896.2	37730.7	29985.2	20858.1	23987.8	26799.2
62.5°	21456.3	27906.9	25524.4	26251.4	37323.9	40906.7	33533.7	24074.4	24660.4	24867.8
65°	19887.4	26424.6	24426.8	26986.5	38191.9	41085.9	34482.3	23659.5	20918.6	20302.3
67.5°	17728.5	24666.5	21818.8	25037.0	36623.1	38580.6	32716.1	20928.6	16165.7	15235.3
70°	15398.4	22721.0	20106.9	22849.9	33632.4	34214.4	29713.3	18407.2	11890.2	10289.1
72.5°	13187.1	20695.0	18934.8	20608.4	29642.8	28438.5	25804.3	16177.8	8657.8	7421.3
75°	10925.5	17706.4	17265.3	17946.0	24396.6	22400.8	21440.2	13394.6	6795.0	5369.1
77.5°	8430.3	13835.6	14850.6	14371.3	17172.7	16639.0	16618.8	10065.6	4964.3	3582.8
80°	5769.9	9642.6	11602.2	10138.1	11145.0	10873.1	12516.5	6752.7	3600.9	2156.9
82.5°	3391.4	5870.6	8075.8	4907.9	6162.6	6325.7	7453.5	3284.7	2118.6	497.4
85°	1375.5	2318.0	3157.8	1921.3	2972.5	2507.3	2829.6	922.4	590.1	12.1
87.5°	346.4	741.1	519.6	215.5	344.4	316.2	249.7	112.8	24.2	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°
4048.0	0°	4048.0	4048.0	4048.0	4048.0	4048.0	4048.0	4048.0	4048.0	4048.0	4048.0
4573.6	2.5°	4495.1	4448.7	4333.9	4219.2	4126.5	4001.7	3919.1	3820.4	3725.7	3641.2
5097.2	5°	4970.3	4817.3	4607.8	4416.5	4221.2	4031.9	3844.6	3647.2	3466.0	3355.2
5540.3	7.5°	5357.0	5087.2	4809.2	4565.6	4329.9	4108.4	3860.7	3621.0	3337.1	3186.0
5878.6	10°	5645.0	5290.6	4926.0	4646.1	4408.5	4193.0	3983.5	3741.9	3399.5	3210.2
6084.0	12.5°	5834.3	5413.4	4986.5	4666.2	4400.4	4233.3	4140.6	4046.0	3705.6	3484.1
6235.1	15°	5965.2	5500.0	5028.8	4619.9	4293.7	4170.8	4263.5	4372.2	4154.7	3898.9
6392.2	17.5°	6108.2	5612.8	5046.9	4495.1	4086.2	4033.9	4273.5	4525.3	4515.2	4261.4
6541.2	20°	6259.3	5711.5	5034.8	4293.7	3834.5	3880.8	4186.9	4479.0	4601.8	4464.9
6712.4	22.5°	6414.3	5806.1	4988.5	4031.9	3598.9	3743.9	4050.0	4305.8	4450.8	4408.5
6921.8	25°	6609.7	5939.0	4920.0	3749.9	3403.5	3604.9	3890.9	4098.3	4199.0	4197.0
7147.4	27.5°	6843.3	6116.3	4883.7	3522.3	3264.6	3447.8	3701.6	3886.9	3957.3	3957.3
7427.3	30°	7115.2	6325.7	4843.5	3373.3	3184.0	3284.7	3482.1	3663.3	3733.8	3733.8
7733.4	32.5°	7417.3	6527.1	4746.8	3282.7	3123.6	3125.6	3250.5	3415.6	3500.2	3512.3
8116.1	35°	7779.8	6742.6	4535.3	3210.2	3053.1	2970.5	3030.9	3167.9	3268.6	3294.8
8661.9	37.5°	8255.0	7006.4	4233.3	3103.4	2944.3	2807.4	2821.5	2926.2	3037.0	3077.3
9415.1	40°	8893.5	7316.6	3919.1	2950.4	2791.3	2628.2	2622.1	2698.6	2807.4	2851.7
10434.1	42.5°	9737.3	7689.1	3619.0	2803.4	2606.0	2438.9	2428.8	2489.2	2583.9	2630.2
11779.4	45°	10816.7	8146.3	3361.2	2688.6	2424.8	2259.6	2255.6	2305.9	2388.5	2436.8
13501.3	47.5°	12317.1	8603.5	3186.0	2628.2	2281.8	2112.6	2120.7	2165.0	2239.5	2273.7
15730.7	50°	14272.6	8742.4	3097.4	2628.2	2205.2	1981.7	2022.0	2058.2	2114.6	2134.8
18403.2	52.5°	16149.6	8283.2	3016.8	2644.3	2215.3	1870.9	1957.5	1983.7	2032.0	2040.1
20880.3	55°	17070.0	7121.2	2906.1	2648.3	2277.7	1776.3	1905.2	1953.5	1971.6	1969.6
22318.2	57.5°	16753.8	5757.8	2718.8	2632.2	2320.0	1715.9	1840.7	1933.4	1945.4	1927.3
22044.3	60°	15644.1	4239.3	2575.8	2513.4	2303.9	1697.7	1742.0	1889.1	1907.2	1883.0
19933.8	62.5°	13783.2	2942.3	2465.0	2251.6	2233.4	1691.7	1587.0	1792.4	1836.7	1802.5
16022.7	65°	10851.0	2078.4	2122.7	1973.6	2080.4	1659.5	1425.9	1675.6	1736.0	1683.6
11624.3	67.5°	7342.7	1500.4	1719.9	1788.4	1832.7	1587.0	1309.0	1542.7	1623.2	1554.7
7459.5	70°	3965.4	1053.3	1135.8	1506.4	1556.8	1462.1	1204.3	1407.7	1500.4	1425.9
5302.6	72.5°	2342.2	757.2	795.5	1210.4	1297.0	1286.9	1087.5	1250.6	1363.4	1274.8
3659.3	75°	1290.9	511.5	567.9	878.1	1053.3	992.9	934.5	1059.3	1174.1	1087.5
2293.9	77.5°	578.0	306.1	394.7	576.0	827.7	680.7	723.0	825.7	932.4	841.8
1276.8	80°	223.5	171.2	261.8	314.2	602.2	376.6	465.2	608.2	684.7	612.2
277.9	82.5°	28.2	76.5	112.8	122.8	350.4	199.4	269.9	382.6	376.6	326.3
0.0	85°	0.0	14.1	16.1	8.1	151.0	72.5	88.6	124.9	116.8	88.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	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°
4048.0	0°	4048.0	4048.0	4048.0	4048.0	4048.0	4048.0	4048.0	4048.0	4048.0	4048.0
3625.1	2.5°	3526.4	3453.9	3417.6	3387.4	3415.6	3431.7	3431.7	3500.2	3540.5	3556.6
3284.7	5°	3107.5	2972.5	2881.9	2827.5	2845.7	2865.8	2888.0	2974.6	3033.0	3071.2
3049.1	7.5°	2777.2	2571.8	2444.9	2378.4	2388.5	2402.6	2420.7	2505.3	2563.7	2614.1
3004.8	10°	2614.1	2324.1	2156.9	2076.3	2062.3	2054.2	2048.2	2098.5	2142.8	2183.1
3186.0	12.5°	2622.1	2217.3	2013.9	1915.2	1872.9	1824.6	1786.3	1794.4	1822.6	1872.9
3510.3	15°	2724.8	2183.1	1939.4	1816.6	1746.1	1689.7	1643.4	1633.3	1643.4	1651.4
3880.8	17.5°	2863.8	2179.1	1875.0	1721.9	1649.4	1603.1	1560.8	1546.7	1548.7	1558.8
4126.5	20°	2974.6	2167.0	1802.5	1631.3	1566.8	1526.5	1484.3	1470.2	1474.2	1476.2
4150.7	22.5°	3033.0	2148.8	1721.9	1540.6	1486.3	1446.0	1407.7	1405.7	1405.7	1417.8
4019.8	25°	3033.0	2110.6	1649.4	1454.0	1405.7	1369.5	1323.1	1331.2	1335.2	1351.3
3816.4	27.5°	2960.5	2038.1	1591.0	1379.5	1329.2	1292.9	1250.6	1260.7	1266.8	1284.9
3615.0	30°	2867.8	1951.5	1524.5	1309.0	1250.6	1224.5	1188.2	1192.2	1200.3	1220.4
3427.7	32.5°	2769.1	1848.8	1470.2	1238.6	1180.2	1160.0	1119.7	1125.8	1133.8	1156.0
3242.4	35°	2660.4	1727.9	1405.7	1174.1	1115.7	1099.6	1053.3	1057.3	1069.4	1093.6
3043.0	37.5°	2545.6	1629.3	1341.3	1111.7	1051.3	1035.2	986.8	990.8	1004.9	1033.1
2833.6	40°	2432.8	1532.6	1272.8	1045.2	984.8	970.7	918.3	922.4	938.5	968.7
2622.1	42.5°	2310.0	1458.1	1184.2	976.7	912.3	898.2	849.9	855.9	874.0	904.2
2426.8	45°	2162.9	1409.7	1085.5	912.3	839.8	825.7	781.4	793.5	813.6	843.8
2259.6	47.5°	2011.9	1389.6	1002.9	843.8	765.3	753.2	717.0	737.1	759.2	783.4
2116.6	50°	1866.9	1363.4	918.3	779.4	700.8	688.8	664.6	690.8	712.9	735.1
2013.9	52.5°	1701.8	1307.0	841.8	723.0	646.5	642.4	630.4	654.5	674.7	694.8
1925.3	55°	1530.6	1216.4	775.4	672.6	600.1	604.2	598.1	618.3	634.4	652.5
1844.7	57.5°	1381.5	1101.6	723.0	618.3	559.9	572.0	563.9	574.0	584.0	606.2
1748.1	60°	1230.5	964.7	664.6	553.8	519.6	533.7	511.5	509.5	513.5	519.6
1605.1	62.5°	1027.1	821.7	592.1	497.4	475.3	481.3	439.0	406.8	406.8	412.9
1405.7	65°	825.7	688.8	511.5	433.0	414.9	410.8	350.4	306.1	302.1	320.2
1174.1	67.5°	678.7	572.0	431.0	360.5	348.4	352.4	308.1	263.8	259.8	279.9
956.6	70°	561.9	461.2	344.4	277.9	290.0	308.1	263.8	221.5	215.5	233.6
777.4	72.5°	447.1	360.5	263.8	205.4	239.7	261.8	215.5	175.2	171.2	187.3
600.1	75°	328.3	257.8	179.2	149.0	185.3	205.4	157.1	124.9	118.8	132.9
400.8	77.5°	203.4	145.0	112.8	88.6	126.9	136.9	82.6	72.5	70.5	80.6
243.7	80°	94.7	62.4	54.4	30.2	46.3	54.4	34.2	38.3	40.3	48.3
122.8	82.5°	26.2	10.1	2.0	0.0	0.0	16.1	8.1	16.1	20.1	30.2
10.1	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	10.1	18.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1
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°
4048.0	0°	4048.0	4048.0	4048.0	4048.0	4048.0	4048.0	4048.0	4048.0
3669.4	2.5°	3753.9	3834.5	3963.4	4096.3	4227.2	4360.1	4489.0	4535.3
3246.4	5°	3405.5	3590.8	3846.6	4120.5	4402.4	4688.4	4950.2	5069.0
2809.4	7.5°	3016.8	3282.7	3667.3	4096.3	4545.4	4994.5	5407.4	5598.7
2376.4	10°	2602.0	2938.3	3377.3	3957.3	4601.8	5222.1	5790.0	6037.7
1995.8	12.5°	2207.3	2559.7	3045.0	3739.8	4557.5	5353.0	6035.7	6327.7
1727.9	15°	1877.0	2189.1	2712.7	3482.1	4414.5	5361.0	6152.5	6472.7
1578.9	17.5°	1629.3	1832.7	2374.4	3196.1	4227.2	5286.5	6192.8	6535.2
1498.4	20°	1506.4	1562.8	1935.4	2829.6	4052.0	5216.0	6233.1	6593.6
1433.9	22.5°	1433.9	1448.0	1582.9	2356.3	3842.6	5193.9	6303.6	6674.1
1375.5	25°	1375.5	1379.5	1415.8	1866.9	3522.3	5179.8	6412.3	6784.9
1315.1	27.5°	1317.1	1317.1	1337.2	1504.4	3087.3	5119.4	6553.3	6917.8
1254.7	30°	1258.7	1258.7	1272.8	1331.2	2577.8	5000.6	6722.5	7091.0
1194.3	32.5°	1198.3	1198.3	1210.4	1252.7	2058.2	4851.5	6877.5	7266.2
1131.8	35°	1137.9	1133.8	1149.9	1194.3	1637.3	4662.2	7032.6	7455.5
1069.4	37.5°	1073.4	1071.4	1087.5	1137.9	1413.8	4442.7	7149.4	7713.3
1007.0	40°	1004.9	1004.9	1023.1	1077.4	1349.3	4166.8	7334.7	8083.9
942.5	42.5°	942.5	938.5	958.6	1025.1	1301.0	3903.0	7667.0	8623.6
884.1	45°	882.1	874.0	892.2	974.7	1216.4	3810.3	8287.3	9421.1
827.7	47.5°	825.7	805.6	821.7	914.3	1139.9	4156.7	9302.3	10526.7
777.4	50°	779.4	741.1	755.2	853.9	1081.5	4907.9	10619.4	11994.9
731.1	52.5°	731.1	680.7	688.8	779.4	1029.1	5622.9	12047.3	13932.3
684.7	55°	680.7	624.3	628.3	704.9	954.6	5729.6	13440.9	16574.5
632.4	57.5°	624.3	572.0	572.0	636.4	900.2	4966.3	14512.3	19853.2
567.9	60°	561.9	527.6	517.6	582.0	948.6	3504.2	14637.2	21967.8
485.4	62.5°	493.4	475.3	461.2	529.7	984.8	2076.3	13632.2	21456.3
382.6	65°	414.9	410.8	400.8	582.0	829.7	1226.5	11702.9	19887.4
326.3	67.5°	348.4	342.4	342.4	610.2	630.4	771.3	9143.2	17728.5
277.9	70°	300.1	277.9	277.9	461.2	382.6	533.7	6384.1	15398.4
229.6	72.5°	251.7	227.6	211.5	368.5	286.0	390.7	3989.6	13187.1
175.2	75°	201.4	183.3	163.1	243.7	213.5	296.0	2318.0	10925.5
110.8	77.5°	145.0	136.9	114.8	179.2	155.1	213.5	1379.5	8430.3
68.5	80°	74.5	76.5	72.5	102.7	104.7	145.0	785.4	5769.9
44.3	82.5°	44.3	34.2	38.3	50.3	60.4	82.6	296.0	3391.4
32.2	85°	28.2	18.1	18.1	24.2	30.2	32.2	90.6	1375.5
16.1	87.5°	14.1	6.0	8.1	12.1	10.1	8.1	4.0	346.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)