

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: P957672

Luminaire Tested: **GALN-SB9D-950-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957672
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-SB9D-950-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 5000K, 900mA 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: 49209 lumens
Efficiency: N/A
Efficacy: 74.8 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

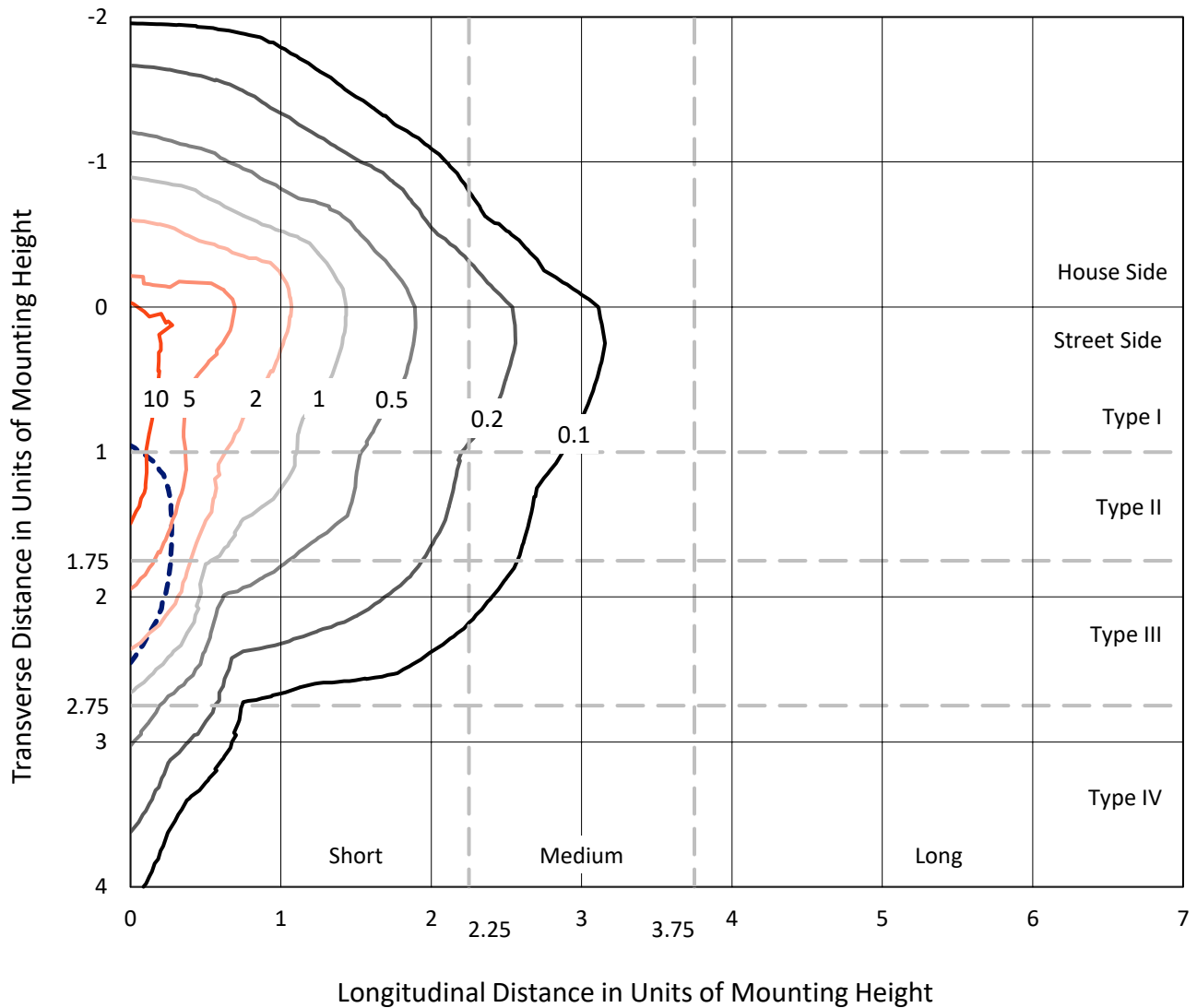
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

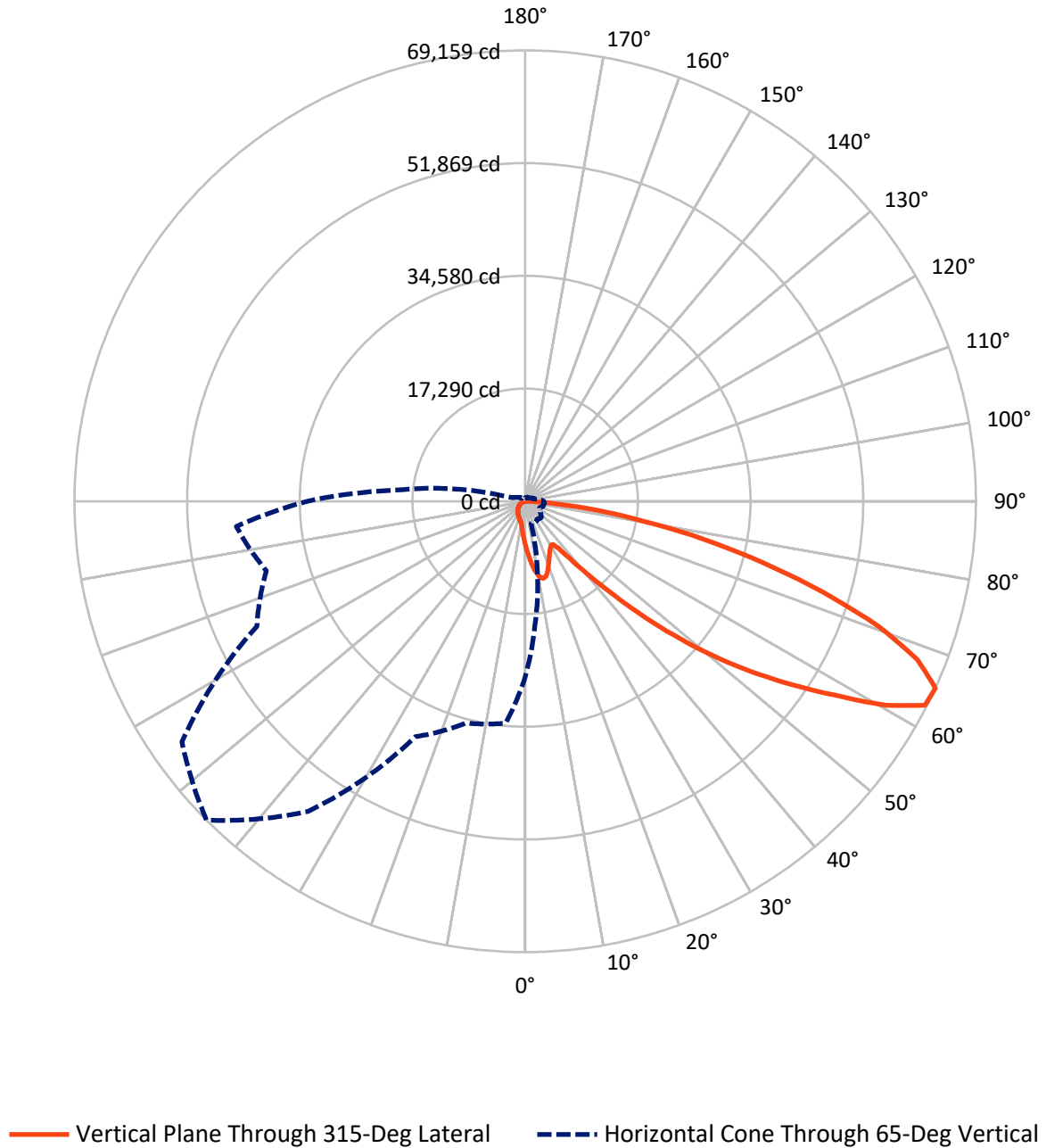
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 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	6891.4	0.0	6891.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	42317.6	0.0	42317.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	49209.0	0.0	49209.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	670.9	1.4
10°-20°	2011.0	4.1
20°-30°	2962.6	6.0
30°-40°	3806.2	7.7
40°-50°	6155.7	12.5
50°-60°	10794.6	21.9
60°-70°	13507.0	27.4
70°-80°	7892.9	16.0
80°-90°	1408.2	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°	49209.0	100.0
0°-180°	49209.0	100.0

Coefficient of Utilization



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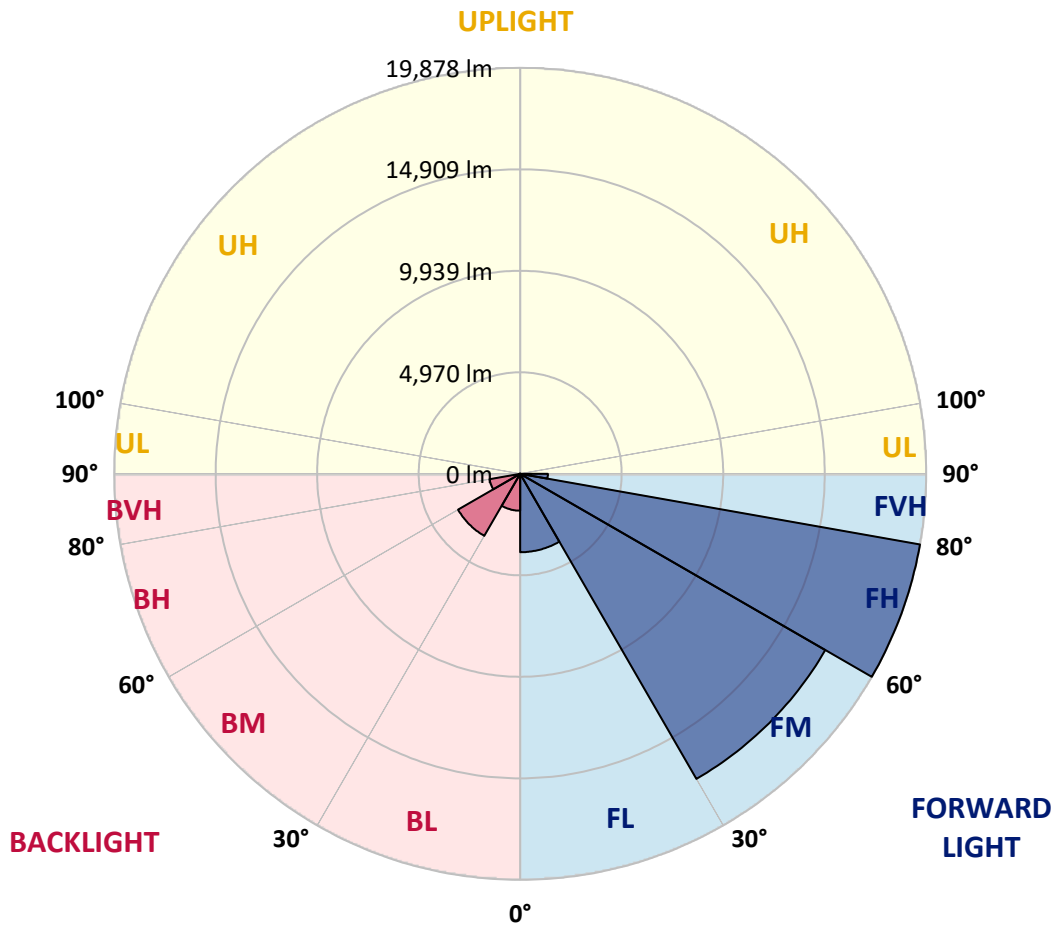
CATALOG NUMBER: GALN-SB9D-950-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3838.1	7.8			
FM (30°-60°)	17247.2	35.0			
FH (60°-80°)	19878.2	40.4			G5
FVH (80°-90°)	1354.1	2.8			G5
BL (0°-30°)	1806.3	3.7	B3/2500		
BM (30°-60°)	3509.2	7.1	B3/5000		
BH (60°-80°)	1521.7	3.1	B3/2500		G3/2500
BVH (80°-90°)	54.1	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°	6813.9	6813.9	6813.9	6813.9	6813.9	6813.9	6813.9	6813.9	6813.9	6813.9
2.5°	7698.7	7566.4	7488.5	7295.2	7102.0	6946.1	6735.9	6596.9	6430.8	6271.5
5°	8580.1	8366.5	8108.8	7756.3	7434.2	7105.4	6786.8	6471.5	6139.3	5834.2
7.5°	9325.9	9017.4	8563.1	8095.3	7685.1	7288.5	6915.6	6498.6	6095.2	5617.2
10°	9895.4	9502.1	8905.5	8291.9	7820.7	7420.7	7058.0	6705.4	6298.6	5722.3
12.5°	10241.1	9820.8	9112.3	8393.6	7854.6	7407.1	7125.8	6969.8	6810.5	6237.6
15°	10495.4	10041.1	9258.1	8464.8	7776.6	7227.5	7020.7	7176.6	7359.7	6993.5
17.5°	10759.8	10281.8	9447.9	8495.3	7566.4	6878.3	6790.1	7193.6	7617.3	7600.3
20°	11010.7	10536.1	9614.0	8475.0	7227.5	6454.5	6532.5	7047.8	7539.3	7746.1
22.5°	11298.8	10797.1	9773.3	8397.0	6786.8	6057.9	6302.0	6817.3	7247.8	7491.9
25°	11651.4	11125.9	9997.1	8281.7	6312.2	5729.1	6068.1	6549.5	6898.6	7068.1
27.5°	12031.1	11519.2	10295.4	8220.7	5929.1	5495.2	5803.7	6230.8	6542.7	6661.3
30°	12502.3	11976.8	10647.9	8152.9	5678.2	5359.6	5529.1	5861.3	6166.4	6285.0
32.5°	13017.5	12485.3	10986.9	7990.2	5525.7	5257.9	5261.3	5471.4	5749.4	5891.8
35°	13661.6	13095.5	11349.7	7634.2	5403.6	5139.2	5000.2	5101.9	5332.4	5501.9
37.5°	14580.3	13895.6	11793.8	7125.8	5224.0	4956.2	4725.6	4749.4	4925.6	5112.1
40°	15848.2	14970.2	12315.8	6596.9	4966.3	4698.5	4423.9	4413.8	4542.6	4725.6
42.5°	17563.5	16390.6	12943.0	6091.8	4718.9	4386.6	4105.3	4088.3	4190.0	4349.4
45°	19828.0	18207.6	13712.5	5657.9	4525.6	4081.5	3803.6	3796.8	3881.5	4020.5
47.5°	22726.5	20733.2	14482.0	5363.0	4423.9	3840.9	3556.1	3569.7	3644.2	3769.7
50°	26479.2	24024.8	14715.9	5213.8	4423.9	3712.0	3335.7	3403.5	3464.6	3559.5
52.5°	30977.7	27184.3	13943.0	5078.2	4451.1	3729.0	3149.3	3295.1	3339.1	3420.5
55°	35147.4	28733.5	11987.0	4891.7	4457.8	3834.1	2990.0	3206.9	3288.3	3318.8
57.5°	37567.8	28201.3	9692.0	4576.5	4430.7	3905.3	2888.3	3098.4	3254.4	3274.7
60°	37106.8	26333.4	7135.9	4335.8	4230.7	3878.1	2857.8	2932.3	3179.8	3210.3
62.5°	33554.1	23201.1	4952.8	4149.3	3790.0	3759.5	2847.6	2671.3	3017.1	3091.7
65°	26970.7	18265.2	3498.5	3573.0	3322.2	3501.9	2793.3	2400.1	2820.5	2922.2
67.5°	19567.0	12359.9	2525.5	2895.0	3010.3	3084.9	2671.3	2203.5	2596.7	2732.3
70°	12556.5	6674.9	1773.0	1912.0	2535.7	2620.5	2461.1	2027.2	2369.6	2525.5
72.5°	8925.8	3942.6	1274.6	1339.0	2037.4	2183.2	2166.2	1830.6	2105.2	2295.0
75°	6159.6	2173.0	861.1	956.0	1478.0	1773.0	1671.3	1573.0	1783.1	1976.4
77.5°	3861.2	972.9	515.3	664.4	969.5	1393.3	1145.8	1217.0	1389.9	1569.6
80°	2149.3	376.3	288.1	440.7	528.8	1013.6	633.9	783.1	1023.8	1152.6
82.5°	467.8	47.5	128.8	189.8	206.8	589.9	335.6	454.3	644.1	633.9
85°	0.0	0.0	23.7	27.1	13.6	254.2	122.0	149.2	210.2	196.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8
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°
6813.9	0°	6813.9	6813.9	6813.9	6813.9	6813.9	6813.9	6813.9	6813.9	6813.9	6813.9
6129.1	2.5°	6102.0	5935.9	5813.8	5752.8	5702.0	5749.4	5776.5	5776.5	5891.8	5959.6
5647.7	5°	5529.1	5230.7	5003.6	4851.1	4759.5	4790.1	4824.0	4861.2	5007.0	5105.3
5363.0	7.5°	5132.4	4674.8	4329.0	4115.4	4003.6	4020.5	4044.3	4074.8	4217.1	4315.5
5403.6	10°	5057.9	4400.2	3912.0	3630.7	3495.1	3471.3	3457.8	3447.6	3532.4	3606.9
5864.7	12.5°	5363.0	4413.8	3732.4	3390.0	3223.9	3152.7	3071.3	3006.9	3020.5	3067.9
6563.0	15°	5908.7	4586.7	3674.7	3264.6	3057.8	2939.1	2844.2	2766.2	2749.3	2766.2
7173.2	17.5°	6532.5	4820.6	3668.0	3156.1	2898.4	2776.4	2698.4	2627.2	2603.5	2606.9
7515.6	20°	6946.1	5007.0	3647.6	3034.0	2745.9	2637.4	2569.6	2498.4	2474.7	2481.5
7420.7	22.5°	6986.8	5105.3	3617.1	2898.4	2593.3	2501.8	2434.0	2369.6	2366.2	2366.2
7064.7	25°	6766.4	5105.3	3552.7	2776.4	2447.6	2366.2	2305.2	2227.2	2240.8	2247.6
6661.3	27.5°	6424.0	4983.3	3430.7	2678.1	2322.1	2237.4	2176.4	2105.2	2122.1	2132.3
6285.0	30°	6085.0	4827.3	3284.9	2566.2	2203.5	2105.2	2061.1	2000.1	2006.9	2020.4
5912.1	32.5°	5769.8	4661.2	3112.0	2474.7	2084.8	1986.5	1952.6	1884.8	1895.0	1908.6
5546.0	35°	5457.9	4478.2	2908.6	2366.2	1976.4	1878.1	1850.9	1773.0	1779.7	1800.1
5179.9	37.5°	5122.3	4284.9	2742.5	2257.7	1871.3	1769.6	1742.5	1661.1	1667.9	1691.6
4800.2	40°	4769.7	4095.1	2579.8	2142.5	1759.4	1657.7	1634.0	1545.8	1552.6	1579.7
4427.3	42.5°	4413.8	3888.3	2454.3	1993.3	1644.1	1535.7	1511.9	1430.6	1440.7	1471.3
4101.9	45°	4084.9	3640.8	2373.0	1827.2	1535.7	1413.6	1389.9	1315.3	1335.7	1369.6
3827.3	47.5°	3803.6	3386.6	2339.1	1688.2	1420.4	1288.2	1267.9	1206.8	1240.7	1278.0
3593.4	50°	3562.9	3142.5	2295.0	1545.8	1311.9	1179.7	1159.4	1118.7	1162.8	1200.1
3434.1	52.5°	3390.0	2864.5	2200.1	1417.0	1217.0	1088.2	1081.4	1061.1	1101.7	1135.6
3315.4	55°	3240.8	2576.4	2047.6	1305.1	1132.3	1010.2	1017.0	1006.8	1040.7	1067.8
3244.2	57.5°	3105.2	2325.5	1854.3	1217.0	1040.7	942.4	962.8	949.2	966.1	983.1
3169.6	60°	2942.5	2071.3	1623.8	1118.7	932.2	874.6	898.3	861.1	857.7	864.4
3034.0	62.5°	2701.8	1728.9	1383.1	996.7	837.3	800.0	810.2	739.0	684.8	684.8
2834.0	65°	2366.2	1389.9	1159.4	861.1	728.8	698.3	691.6	589.9	515.3	508.5
2617.1	67.5°	1976.4	1142.4	962.8	725.5	606.8	586.5	593.2	518.7	444.1	437.3
2400.1	70°	1610.2	945.8	776.3	579.7	467.8	488.2	518.7	444.1	372.9	362.7
2145.9	72.5°	1308.5	752.6	606.8	444.1	345.8	403.4	440.7	362.7	294.9	288.1
1830.6	75°	1010.2	552.6	433.9	301.7	250.9	311.9	345.8	264.4	210.2	200.0
1417.0	77.5°	674.6	342.4	244.1	189.8	149.2	213.6	230.5	139.0	122.0	118.6
1030.6	80°	410.2	159.3	105.1	91.5	50.8	78.0	91.5	57.6	64.4	67.8
549.2	82.5°	206.8	44.1	16.9	3.4	0.0	0.0	27.1	13.6	27.1	33.9
149.2	85°	16.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	16.9
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°
6813.9	0°	6813.9	6813.9	6813.9	6813.9	6813.9	6813.9	6813.9	6813.9	6813.9	6813.9
5986.7	2.5°	6176.6	6318.9	6454.5	6671.5	6895.2	7115.6	7339.3	7556.3	7634.2	7691.9
5169.7	5°	5464.7	5732.5	6044.3	6474.9	6935.9	7410.5	7891.9	8332.6	8532.6	8668.2
4400.2	7.5°	4729.0	5078.2	5525.7	6173.2	6895.2	7651.2	8407.2	9102.1	9424.2	9685.2
3674.7	10°	4000.2	4379.9	4946.0	5685.0	6661.3	7746.1	8790.2	9746.2	10163.2	10492.0
3152.7	12.5°	3359.5	3715.4	4308.7	5125.7	6295.2	7671.5	9010.6	10159.8	10651.3	11020.8
2779.8	15°	2908.6	3159.5	3684.9	4566.3	5861.3	7430.8	9024.1	10356.4	10895.4	11281.9
2623.8	17.5°	2657.7	2742.5	3084.9	3996.8	5379.9	7115.6	8898.7	10424.2	11000.5	11359.8
2484.9	20°	2522.1	2535.7	2630.6	3257.8	4762.9	6820.7	8780.1	10492.0	11098.8	11400.5
2386.6	22.5°	2413.7	2413.7	2437.4	2664.5	3966.3	6468.1	8742.8	10610.7	11234.4	11420.9
2274.7	25°	2315.4	2315.4	2322.1	2383.2	3142.5	5929.1	8719.0	10793.7	11420.9	11471.7
2162.8	27.5°	2213.7	2217.1	2217.1	2251.0	2532.3	5196.8	8617.3	11031.0	11644.6	11539.5
2054.3	30°	2112.0	2118.7	2118.7	2142.5	2240.8	4339.2	8417.3	11315.8	11936.1	11627.7
1945.9	32.5°	2010.3	2017.0	2017.0	2037.4	2108.6	3464.6	8166.5	11576.8	12231.1	11664.9
1840.8	35°	1905.2	1915.3	1908.6	1935.7	2010.3	2756.1	7847.8	11837.8	12549.7	11783.6
1739.1	37.5°	1800.1	1806.9	1803.5	1830.6	1915.3	2379.8	7478.3	12034.5	12983.6	12048.0
1630.6	40°	1695.0	1691.6	1691.6	1722.1	1813.6	2271.3	7013.9	12346.3	13607.4	12512.4
1522.1	42.5°	1586.5	1586.5	1579.7	1613.6	1725.5	2189.9	6569.8	12905.7	14515.9	13251.5
1420.4	45°	1488.2	1484.8	1471.3	1501.8	1640.8	2047.6	6413.9	13949.8	15858.4	14448.1
1318.7	47.5°	1393.3	1389.9	1356.0	1383.1	1539.1	1918.7	6996.9	15658.3	17719.5	16207.5
1237.3	50°	1308.5	1311.9	1247.5	1271.2	1437.4	1820.4	8261.4	17875.4	20190.8	18577.1
1169.5	52.5°	1230.6	1230.6	1145.8	1159.4	1311.9	1732.3	9464.8	20278.9	23451.9	21882.4
1098.4	55°	1152.6	1145.8	1050.9	1057.7	1186.5	1606.9	9644.5	22624.8	27899.6	26855.5
1020.4	57.5°	1064.5	1050.9	962.8	962.8	1071.2	1515.3	8359.7	24428.2	33418.5	34164.3
874.6	60°	956.0	945.8	888.2	871.2	979.7	1596.7	5898.6	24638.4	36978.0	43883.4
694.9	62.5°	817.0	830.5	800.0	776.3	891.6	1657.7	3495.1	22946.8	36116.9	46975.0
539.0	65°	644.1	698.3	691.6	674.6	979.7	1396.7	2064.5	19699.2	33476.1	44480.0
471.2	67.5°	549.2	586.5	576.3	576.3	1027.2	1061.1	1298.4	15390.5	29842.0	41520.5
393.2	70°	467.8	505.1	467.8	467.8	776.3	644.1	898.3	10746.3	25919.8	38245.8
315.3	72.5°	386.5	423.7	383.1	355.9	620.4	481.4	657.7	6715.6	22197.6	34835.5
223.7	75°	294.9	339.0	308.5	274.6	410.2	359.3	498.3	3901.9	18390.7	29804.8
135.6	77.5°	186.4	244.1	230.5	193.2	301.7	261.0	359.3	2322.1	14190.5	23289.2
81.4	80°	115.3	125.4	128.8	122.0	172.9	176.3	244.1	1322.1	9712.3	16231.3
50.8	82.5°	74.6	74.6	57.6	64.4	84.7	101.7	139.0	498.3	5708.7	9881.8
30.5	85°	54.2	47.5	30.5	30.5	40.7	50.8	54.2	152.5	2315.4	3901.9
13.6	87.5°	27.1	23.7	10.2	13.6	20.3	16.9	13.6	6.8	583.1	1247.5
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):

285°		295°	305°	315°	325°	335°	345°	355°	360°
6813.9	0°	6813.9	6813.9	6813.9	6813.9	6813.9	6813.9	6813.9	6813.9
7820.7	2.5°	7888.5	7993.6	8000.4	8000.4	7908.8	7905.4	7719.0	7698.7
8973.3	5°	9288.6	9356.4	9373.3	9339.4	9156.4	9020.8	8658.0	8580.1
10149.6	7.5°	10570.0	10705.6	10705.6	10624.2	10325.9	10047.9	9522.5	9325.9
11122.5	10°	11593.8	11749.7	11715.8	11549.7	11173.4	10790.3	10153.0	9895.4
11712.4	12.5°	12092.1	12251.4	12163.3	11973.4	11607.3	11203.9	10532.7	10241.1
11881.9	15°	12081.9	12037.8	11946.3	11922.6	11746.3	11441.2	10814.1	10495.4
11776.8	17.5°	11651.4	11278.5	11207.3	11444.6	11668.3	11593.8	11058.1	10759.8
11526.0	20°	10970.0	10319.1	10254.7	10709.0	11346.3	11671.7	11285.3	11010.7
11163.2	22.5°	10251.3	9549.6	9400.4	9902.1	10861.5	11695.5	11573.4	11298.8
10763.2	25°	9569.9	8864.8	8715.7	9183.5	10322.5	11654.8	11885.3	11651.4
10380.1	27.5°	9000.4	8319.0	8180.0	8647.9	9803.8	11539.5	12197.2	12031.1
10000.5	30°	8559.7	7929.2	7827.5	8278.3	9356.4	11397.1	12593.8	12502.3
9647.9	32.5°	8302.1	7841.0	7878.3	8247.8	9115.7	11241.2	12973.5	13017.5
9475.0	35°	8556.3	8576.7	8902.1	9054.7	9339.4	11217.5	13488.8	13661.6
9681.8	37.5°	9820.8	10525.9	11200.5	11075.1	10434.4	11492.1	14258.3	14580.3
10583.5	40°	11973.4	13421.0	14515.9	14037.9	12424.3	12332.8	15366.8	15848.2
12183.6	42.5°	14604.1	17058.4	18861.9	17580.5	14990.5	13804.0	16949.9	17563.5
14119.3	45°	17380.5	21543.4	24384.2	21719.6	17726.2	15865.1	19346.7	19828.0
15932.9	47.5°	20306.0	26994.5	30669.2	26309.7	20261.9	18211.0	22614.6	22726.5
17651.7	50°	23506.2	32971.0	37076.3	30896.3	22709.5	20899.3	26608.0	26479.2
19655.1	52.5°	26553.8	39117.0	43347.8	35503.3	24858.8	24235.0	31242.1	30977.7
22394.2	55°	29462.4	45259.7	49656.5	39930.6	26886.0	28642.0	36747.4	35147.4
26343.6	57.5°	32835.4	50782.0	56158.5	44378.3	29720.0	34364.3	42903.7	37567.8
33906.6	60°	37822.1	57056.9	63511.4	50473.5	35110.1	40378.1	45110.5	37106.8
42964.7	62.5°	44188.5	62826.6	68857.4	56446.7	40523.9	41510.4	41859.5	33554.1
41117.1	65°	45425.8	64287.7	69159.1	58043.3	39825.6	35211.8	34174.4	26970.7
36727.1	67.5°	42144.3	61646.9	64942.0	55070.3	35228.7	27211.4	25645.2	19567.0
33845.6	70°	38462.8	56612.8	57592.5	50015.9	30984.5	20014.5	17319.4	12556.5
31872.6	72.5°	34689.7	49897.2	47870.0	43435.9	27231.8	14573.5	12492.1	8925.8
29062.4	75°	30208.2	41066.3	37706.8	36089.8	22546.8	11437.8	9037.7	6159.6
24997.8	77.5°	24190.9	28906.4	28008.1	27974.2	16943.2	8356.3	6030.8	3861.2
19529.7	80°	17065.2	18760.2	18302.5	21068.8	11366.6	6061.3	3630.7	2149.3
13593.8	82.5°	8261.4	10373.4	10647.9	12546.3	5529.1	3566.3	837.3	467.8
5315.5	85°	3234.0	5003.6	4220.5	4762.9	1552.6	993.3	20.3	0.0
874.6	87.5°	362.7	579.7	532.2	420.4	189.8	40.7	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)