

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: P956956

Luminaire Tested: **GALN-SB9B-950-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956956
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-950-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 5000K, 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: 27230 lumens
Efficiency: N/A
Efficacy: 82.6 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

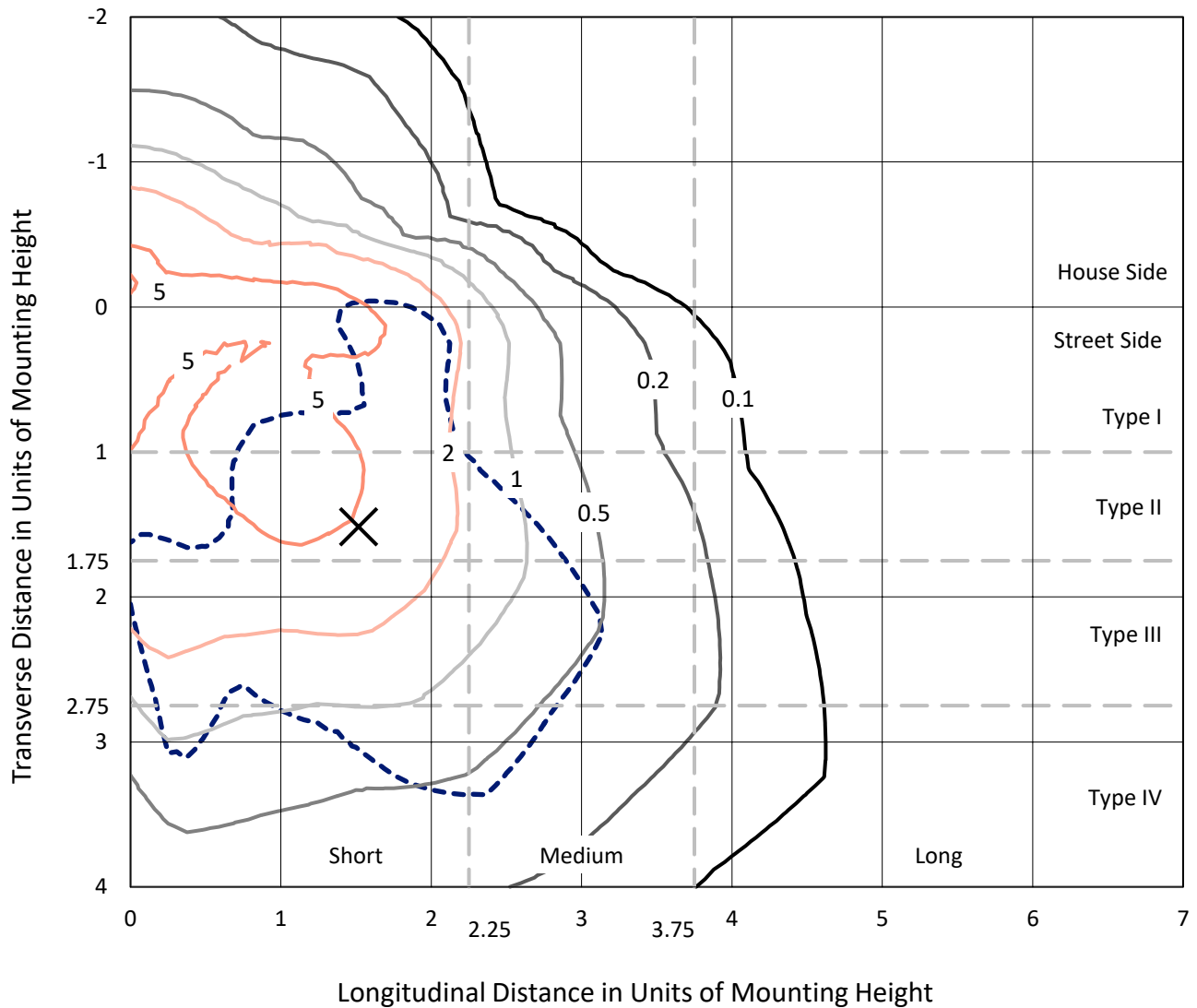
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

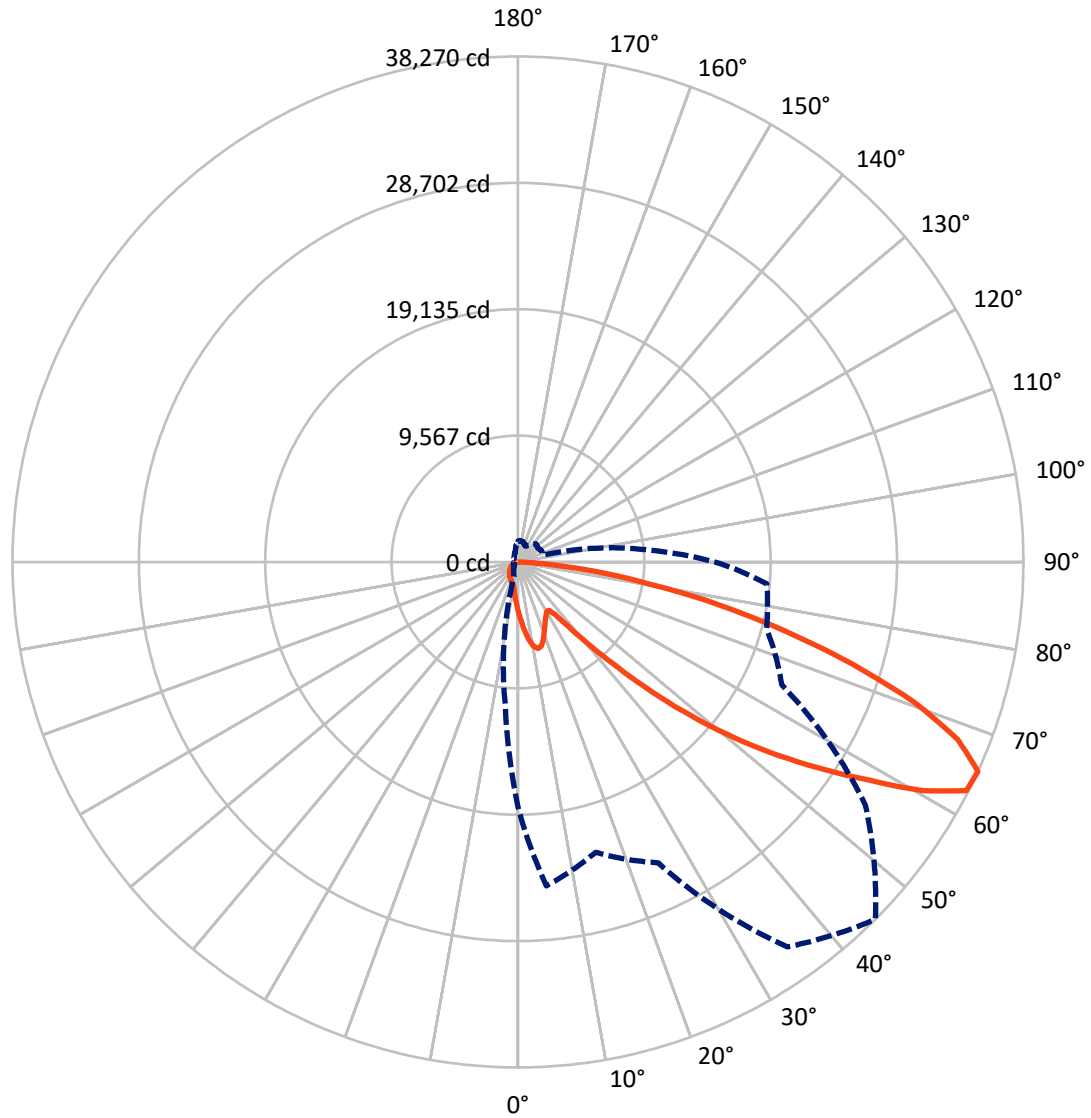
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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	5412.5	0.0	5412.5
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	21817.5	0.0	21817.5
	% Fixture	80.1	0.0	80.1
Total	Lumens	27230.0	0.0	27230.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.2	1.4
10°-20°	1112.8	4.1
20°-30°	1639.4	6.0
30°-40°	2106.2	7.7
40°-50°	3406.3	12.5
50°-60°	5973.2	21.9
60°-70°	7474.2	27.4
70°-80°	4367.5	16.0
80°-90°	779.2	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°	27230.0	100.0
0°-180°	27230.0	100.0



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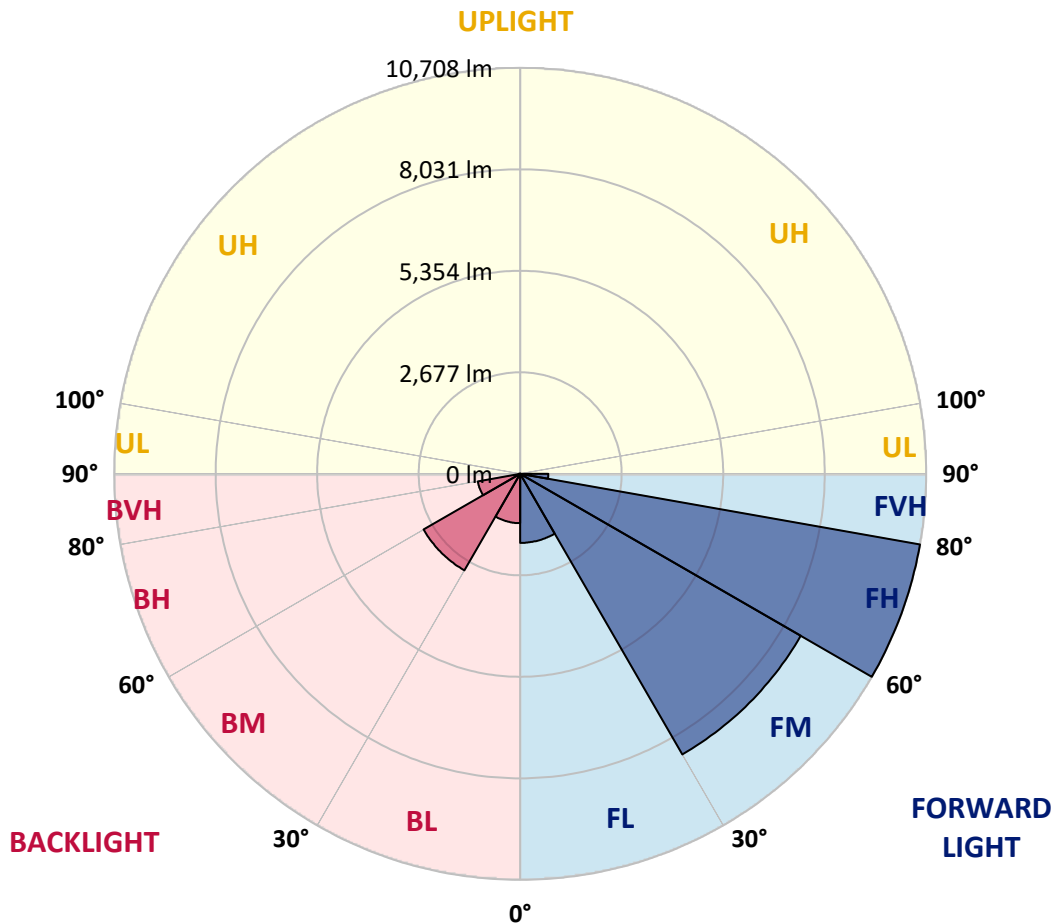
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1822.0	6.7			
FM (30°-60°)	8545.1	31.4			
FH (60°-80°)	10707.7	39.3			G4/12000
FVH (80°-90°)	742.7	2.7			G4/750
BL (0°-30°)	1301.4	4.8	B3/2500		
BM (30°-60°)	2940.6	10.8	B3/5000		
BH (60°-80°)	1134.0	4.2	B3/2500		G3/2500
BVH (80°-90°)	36.5	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5
2.5°	4224.4	4256.3	4327.6	4365.1	4423.3	4427.0	4427.0	4376.4	4374.5	4271.3
5°	4721.5	4796.6	4965.4	5139.9	5177.4	5186.8	5168.0	5066.7	4991.7	4791.0
7.5°	5214.9	5359.3	5616.3	5848.9	5924.0	5924.0	5879.0	5713.9	5560.1	5269.3
10°	5623.8	5805.8	6154.7	6415.4	6501.7	6483.0	6391.1	6182.8	5970.9	5618.2
12.5°	5894.0	6098.4	6481.1	6691.2	6779.4	6730.6	6625.5	6423.0	6199.7	5828.3
15°	6029.0	6242.9	6574.9	6685.6	6661.2	6610.5	6597.4	6499.9	6331.0	5984.0
17.5°	6087.2	6286.0	6516.7	6447.3	6241.0	6201.6	6332.9	6456.7	6415.4	6119.1
20°	6141.6	6308.5	6377.9	6070.3	5710.1	5674.5	5925.8	6278.5	6458.6	6244.7
22.5°	6216.6	6319.8	6177.2	5672.6	5284.3	5201.8	5479.4	6010.3	6471.7	6404.2
25°	6319.8	6347.9	5955.9	5295.6	4905.4	4822.8	5081.7	5712.0	6449.2	6576.8
27.5°	6443.6	6385.4	5743.9	4980.4	4603.4	4526.5	4785.3	5425.0	6385.4	6749.4
30°	6604.9	6434.2	5533.8	4736.6	4387.6	4331.4	4580.9	5177.4	6306.6	6968.8
32.5°	6768.1	6454.8	5338.7	4594.0	4338.9	4359.5	4564.0	5044.2	6220.4	7178.9
35°	6944.4	6520.5	5243.0	4734.7	4745.9	4926.0	5010.4	5168.0	6207.2	7464.1
37.5°	7184.6	6666.8	5357.5	5434.4	5824.6	6197.8	6128.4	5773.9	6359.2	7889.9
40°	7529.7	6923.8	5856.4	6625.5	7426.5	8032.4	7767.9	6875.0	6824.4	8503.3
42.5°	8032.4	7332.7	6741.8	8081.2	9439.3	10437.3	9728.2	8295.1	7638.5	9379.3
45°	8775.3	7994.9	7813.0	9617.5	11921.1	13493.1	12018.7	9808.9	8779.0	10705.5
47.5°	9805.1	8968.5	8816.6	11236.4	14937.5	16970.9	14558.6	11212.0	10077.1	12513.9
50°	11172.6	10279.7	9767.6	13007.2	18244.6	20516.3	17096.6	12566.4	11564.7	14723.6
52.5°	12977.2	12108.7	10876.3	14693.6	21645.6	23986.7	19645.9	13755.7	13410.5	17287.9
55°	15438.3	14860.6	12391.9	16303.1	25044.6	27477.6	22095.8	14877.5	15849.2	20334.3
57.5°	18492.3	18904.9	14577.3	18169.6	28100.4	31075.5	24556.9	16445.7	19015.6	23740.9
60°	20461.9	24283.0	18762.4	20929.0	31572.6	35144.3	27929.7	19428.3	22343.4	24962.1
62.5°	19985.4	25993.8	23774.7	24451.9	34765.4	38102.5	31235.0	22424.1	22969.9	23163.2
65°	18524.1	24613.2	22752.3	25136.6	35573.9	38269.5	32118.5	22037.6	19484.6	18910.6
67.5°	16513.2	22975.6	20323.1	23320.7	34112.6	35935.9	30473.4	19494.0	15057.5	14190.9
70°	14342.8	21163.5	18728.6	21283.5	31326.9	31869.0	27676.5	17145.4	11075.1	9583.8
72.5°	12283.1	19276.4	17636.9	19195.7	27610.8	26489.1	24035.4	15068.8	8064.3	6912.6
75°	10176.6	16492.6	16081.8	16715.8	22724.2	20865.2	19970.4	12476.4	6329.2	5001.0
77.5°	7852.4	12887.2	13832.6	13386.2	15995.5	15498.4	15479.6	9375.6	4624.0	3337.2
80°	5374.3	8981.6	10806.8	9443.1	10381.0	10127.8	11658.5	6289.8	3354.0	2009.0
82.5°	3159.0	5468.1	7522.2	4571.5	5740.1	5892.1	6942.6	3059.5	1973.4	463.3
85°	1281.2	2159.1	2941.4	1789.6	2768.8	2335.4	2635.6	859.1	549.6	11.3
87.5°	322.6	690.3	484.0	200.7	320.8	294.5	232.6	105.0	22.5	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°
3770.5	0°	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5
4260.1	2.5°	4186.9	4143.8	4036.9	3929.9	3843.6	3727.3	3650.4	3558.5	3470.3	3391.6
4747.8	5°	4629.6	4487.1	4292.0	4113.8	3931.8	3755.5	3581.0	3397.2	3228.4	3125.2
5160.5	7.5°	4989.8	4738.4	4479.6	4252.6	4033.1	3826.8	3596.0	3372.8	3108.3	2967.6
5475.6	10°	5258.0	4927.9	4588.4	4327.6	4106.3	3905.5	3710.5	3485.4	3166.5	2990.1
5667.0	12.5°	5434.4	5042.3	4644.6	4346.4	4098.8	3943.1	3856.8	3768.6	3451.6	3245.2
5807.7	15°	5556.3	5123.0	4684.0	4303.2	3999.3	3884.9	3971.2	4072.5	3869.9	3631.7
5954.0	17.5°	5689.5	5228.0	4700.9	4186.9	3806.1	3757.4	3980.6	4215.1	4205.7	3969.3
6092.8	20°	5830.2	5319.9	4689.7	3999.3	3571.6	3614.8	3899.9	4171.9	4286.3	4158.8
6252.2	22.5°	5974.6	5408.1	4646.5	3755.5	3352.2	3487.2	3772.4	4010.6	4145.7	4106.3
6447.3	25°	6156.6	5531.9	4582.7	3492.9	3170.2	3357.8	3624.2	3817.4	3911.2	3909.3
6657.4	27.5°	6374.2	5697.0	4549.0	3280.9	3040.8	3211.5	3447.8	3620.4	3686.1	3686.1
6918.2	30°	6627.4	5892.1	4511.4	3142.1	2965.7	3059.5	3243.4	3412.2	3477.8	3477.8
7203.3	32.5°	6908.8	6079.7	4421.4	3057.7	2909.5	2911.3	3027.6	3181.5	3260.2	3271.5
7559.7	35°	7246.5	6280.4	4224.4	2990.1	2843.8	2766.9	2823.2	2950.7	3044.5	3068.9
8068.1	37.5°	7689.2	6526.1	3943.1	2890.7	2742.5	2615.0	2628.1	2725.6	2828.8	2866.3
8769.7	40°	8283.8	6815.0	3650.4	2748.1	2599.9	2448.0	2442.4	2513.7	2615.0	2656.2
9718.8	42.5°	9069.8	7162.0	3370.9	2611.2	2427.4	2271.7	2262.3	2318.6	2406.7	2449.9
10971.9	45°	10075.3	7587.9	3130.8	2504.3	2258.5	2104.7	2101.0	2147.9	2224.8	2269.8
12575.8	47.5°	11472.8	8013.7	2967.6	2448.0	2125.4	1967.8	1975.3	2016.6	2086.0	2117.8
14652.4	50°	13294.2	8143.1	2885.1	2448.0	2054.1	1845.8	1883.4	1917.1	1969.7	1988.4
17141.6	52.5°	15042.5	7715.4	2810.0	2463.0	2063.4	1742.7	1823.3	1847.7	1892.7	1900.2
19448.9	55°	15899.8	6633.0	2706.9	2466.8	2121.6	1654.5	1774.6	1819.6	1836.5	1834.6
20788.3	57.5°	15605.3	5363.1	2532.4	2451.8	2161.0	1598.2	1714.5	1800.8	1812.1	1795.2
20533.2	60°	14571.7	3948.7	2399.2	2341.1	2146.0	1581.4	1622.6	1759.6	1776.4	1753.9
18567.3	62.5°	12838.4	2740.6	2296.1	2097.2	2080.3	1575.7	1478.2	1669.5	1710.8	1678.9
14924.4	65°	10107.1	1935.9	1977.2	1838.3	1937.8	1545.7	1328.1	1560.7	1617.0	1568.2
10827.5	67.5°	6839.4	1397.5	1602.0	1665.8	1707.0	1478.2	1219.3	1436.9	1511.9	1448.2
6948.2	70°	3693.6	981.1	1058.0	1403.1	1450.0	1361.9	1121.8	1311.2	1397.5	1328.1
4939.1	72.5°	2181.6	705.3	741.0	1127.4	1208.1	1198.7	1013.0	1164.9	1270.0	1187.4
3408.4	75°	1202.4	476.5	529.0	817.9	981.1	924.8	870.4	986.7	1093.6	1013.0
2136.6	77.5°	538.4	285.1	367.7	536.5	771.0	634.0	673.4	769.1	868.5	784.1
1189.3	80°	208.2	159.4	243.9	292.6	560.9	350.8	433.3	566.5	637.8	570.3
258.9	82.5°	26.3	71.3	105.0	114.4	326.4	185.7	251.4	356.4	350.8	303.9
0.0	85°	0.0	13.1	15.0	7.5	140.7	67.5	82.5	116.3	108.8	82.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	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°
3770.5	0°	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5
3376.6	2.5°	3284.6	3217.1	3183.3	3155.2	3181.5	3196.5	3196.5	3260.2	3297.8	3312.8
3059.5	5°	2894.5	2768.8	2684.4	2633.7	2650.6	2669.4	2690.0	2770.6	2825.0	2860.7
2840.1	7.5°	2586.8	2395.5	2277.3	2215.4	2224.8	2237.9	2254.8	2333.6	2388.0	2434.9
2798.8	10°	2434.9	2164.7	2009.0	1934.0	1920.9	1913.4	1907.8	1954.6	1995.9	2033.4
2967.6	12.5°	2442.4	2065.3	1875.9	1783.9	1744.6	1699.5	1663.9	1671.4	1697.7	1744.6
3269.6	15°	2538.0	2033.4	1806.5	1692.0	1626.4	1573.8	1530.7	1521.3	1530.7	1538.2
3614.8	17.5°	2667.5	2029.7	1746.4	1603.9	1536.3	1493.2	1453.8	1440.7	1442.5	1451.9
3843.6	20°	2770.6	2018.4	1678.9	1519.4	1459.4	1421.9	1382.5	1369.4	1373.1	1375.0
3866.2	22.5°	2825.0	2001.5	1603.9	1435.0	1384.4	1346.9	1311.2	1309.4	1309.4	1320.6
3744.2	25°	2825.0	1965.9	1536.3	1354.4	1309.4	1275.6	1232.4	1239.9	1243.7	1258.7
3554.8	27.5°	2757.5	1898.4	1481.9	1285.0	1238.1	1204.3	1164.9	1174.3	1179.9	1196.8
3367.2	30°	2671.2	1817.7	1420.0	1219.3	1164.9	1140.5	1106.8	1110.5	1118.0	1136.8
3192.7	32.5°	2579.3	1722.0	1369.4	1153.7	1099.3	1080.5	1043.0	1048.6	1056.1	1076.7
3020.1	35°	2478.0	1609.5	1309.4	1093.6	1039.2	1024.2	981.1	984.8	996.1	1018.6
2834.4	37.5°	2371.1	1517.6	1249.3	1035.5	979.2	964.2	919.2	922.9	936.1	962.3
2639.3	40°	2266.0	1427.5	1185.5	973.6	917.3	904.2	855.4	859.1	874.2	902.3
2442.4	42.5°	2151.6	1358.1	1103.0	909.8	849.8	836.6	791.6	797.2	814.1	842.3
2260.4	45°	2014.7	1313.1	1011.1	849.8	782.2	769.1	727.8	739.1	757.8	786.0
2104.7	47.5°	1874.0	1294.3	934.2	786.0	712.8	701.6	667.8	686.6	707.2	729.7
1971.5	50°	1738.9	1270.0	855.4	726.0	652.8	641.5	619.0	643.4	664.1	684.7
1875.9	52.5°	1585.1	1217.4	784.1	673.4	602.2	598.4	587.1	609.7	628.4	647.2
1793.3	55°	1425.7	1133.0	722.2	626.5	559.0	562.8	557.1	575.9	590.9	607.8
1718.3	57.5°	1286.8	1026.1	673.4	575.9	521.5	532.7	525.2	534.6	544.0	564.6
1628.2	60°	1146.2	898.5	619.0	515.9	484.0	497.1	476.5	474.6	478.3	484.0
1495.1	62.5°	956.7	765.4	551.5	463.3	442.7	448.3	408.9	378.9	378.9	384.6
1309.4	65°	769.1	641.5	476.5	403.3	386.4	382.7	326.4	285.1	281.4	298.3
1093.6	67.5°	632.2	532.7	401.4	335.8	324.5	328.3	287.0	245.7	242.0	260.7
891.0	70°	523.4	429.6	320.8	258.9	270.1	287.0	245.7	206.3	200.7	217.6
724.1	72.5°	416.4	335.8	245.7	191.3	223.2	243.9	200.7	163.2	159.4	174.5
559.0	75°	305.8	240.1	167.0	138.8	172.6	191.3	146.3	116.3	110.7	123.8
373.3	77.5°	189.5	135.1	105.0	82.5	118.2	127.6	76.9	67.5	65.7	75.0
227.0	80°	88.2	58.2	50.6	28.1	43.1	50.6	31.9	35.6	37.5	45.0
114.4	82.5°	24.4	9.4	1.9	0.0	0.0	15.0	7.5	15.0	18.8	28.1
9.4	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	9.4	16.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5
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°
3770.5	0°	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5	3770.5
3417.8	2.5°	3496.6	3571.6	3691.7	3815.5	3937.4	4061.2	4181.3	4224.4
3023.9	5°	3172.1	3344.7	3582.9	3838.0	4100.6	4367.0	4610.9	4721.5
2616.8	7.5°	2810.0	3057.7	3415.9	3815.5	4233.8	4652.1	5036.7	5214.9
2213.5	10°	2423.6	2736.9	3145.8	3686.1	4286.3	4864.1	5393.1	5623.8
1859.0	12.5°	2055.9	2384.2	2836.3	3483.5	4245.1	4986.0	5622.0	5894.0
1609.5	15°	1748.3	2039.1	2526.8	3243.4	4111.9	4993.5	5730.8	6029.0
1470.7	17.5°	1517.6	1707.0	2211.6	2977.0	3937.4	4924.1	5768.3	6087.2
1395.6	20°	1403.1	1455.7	1802.7	2635.6	3774.2	4858.5	5805.8	6141.6
1335.6	22.5°	1335.6	1348.7	1474.4	2194.8	3579.1	4837.8	5871.4	6216.6
1281.2	25°	1281.2	1285.0	1318.7	1738.9	3280.9	4824.7	5972.7	6319.8
1224.9	27.5°	1226.8	1226.8	1245.6	1401.3	2875.7	4768.4	6104.1	6443.6
1168.7	30°	1172.4	1172.4	1185.5	1239.9	2401.1	4657.8	6261.6	6604.9
1112.4	32.5°	1116.1	1116.1	1127.4	1166.8	1917.1	4519.0	6406.1	6768.1
1054.2	35°	1059.9	1056.1	1071.1	1112.4	1525.1	4342.6	6550.5	6944.4
996.1	37.5°	999.8	998.0	1013.0	1059.9	1316.9	4138.2	6659.3	7184.6
937.9	40°	936.1	936.1	952.9	1003.6	1256.8	3881.2	6831.9	7529.7
877.9	42.5°	877.9	874.2	892.9	954.8	1211.8	3635.4	7141.4	8032.4
823.5	45°	821.6	814.1	831.0	907.9	1133.0	3549.1	7719.2	8775.3
771.0	47.5°	769.1	750.3	765.4	851.6	1061.7	3871.8	8664.6	9805.1
724.1	50°	726.0	690.3	703.4	795.4	1007.3	4571.5	9891.4	11172.6
680.9	52.5°	680.9	634.0	641.5	726.0	958.6	5237.4	11221.4	12977.2
637.8	55°	634.0	581.5	585.3	656.6	889.2	5336.8	12519.5	15438.3
589.0	57.5°	581.5	532.7	532.7	592.8	838.5	4625.9	13517.5	18492.3
529.0	60°	523.4	491.5	482.1	542.1	883.5	3264.0	13633.8	20461.9
452.1	62.5°	459.6	442.7	429.6	493.4	917.3	1934.0	12697.7	19985.4
356.4	65°	386.4	382.7	373.3	542.1	772.9	1142.4	10900.6	18524.1
303.9	67.5°	324.5	318.9	318.9	568.4	587.1	718.5	8516.4	16513.2
258.9	70°	279.5	258.9	258.9	429.6	356.4	497.1	5946.5	14342.8
213.8	72.5°	234.5	212.0	197.0	343.3	266.4	363.9	3716.1	12283.1
163.2	75°	187.6	170.7	151.9	227.0	198.8	275.8	2159.1	10176.6
103.2	77.5°	135.1	127.6	106.9	167.0	144.4	198.8	1285.0	7852.4
63.8	80°	69.4	71.3	67.5	95.7	97.5	135.1	731.6	5374.3
41.3	82.5°	41.3	31.9	35.6	46.9	56.3	76.9	275.8	3159.0
30.0	85°	26.3	16.9	16.9	22.5	28.1	30.0	84.4	1281.2
15.0	87.5°	13.1	5.6	7.5	11.3	9.4	7.5	3.8	322.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)