

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: P957105

Luminaire Tested: **GALN-SB9C-760-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957105
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-SB9C-760-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 5700K, 615mA 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: 55078 lumens
Efficiency: N/A
Efficacy: 122.5 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

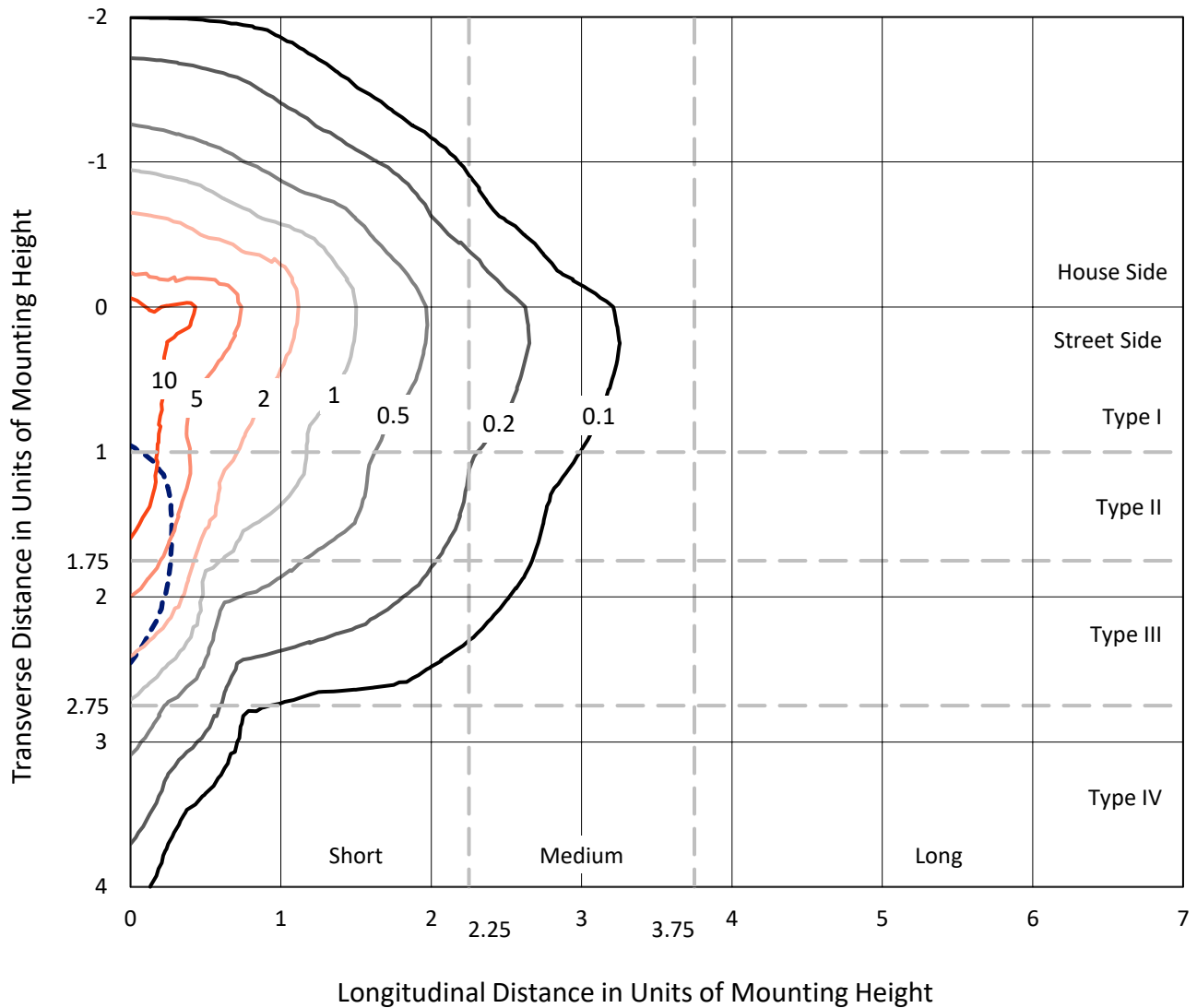
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

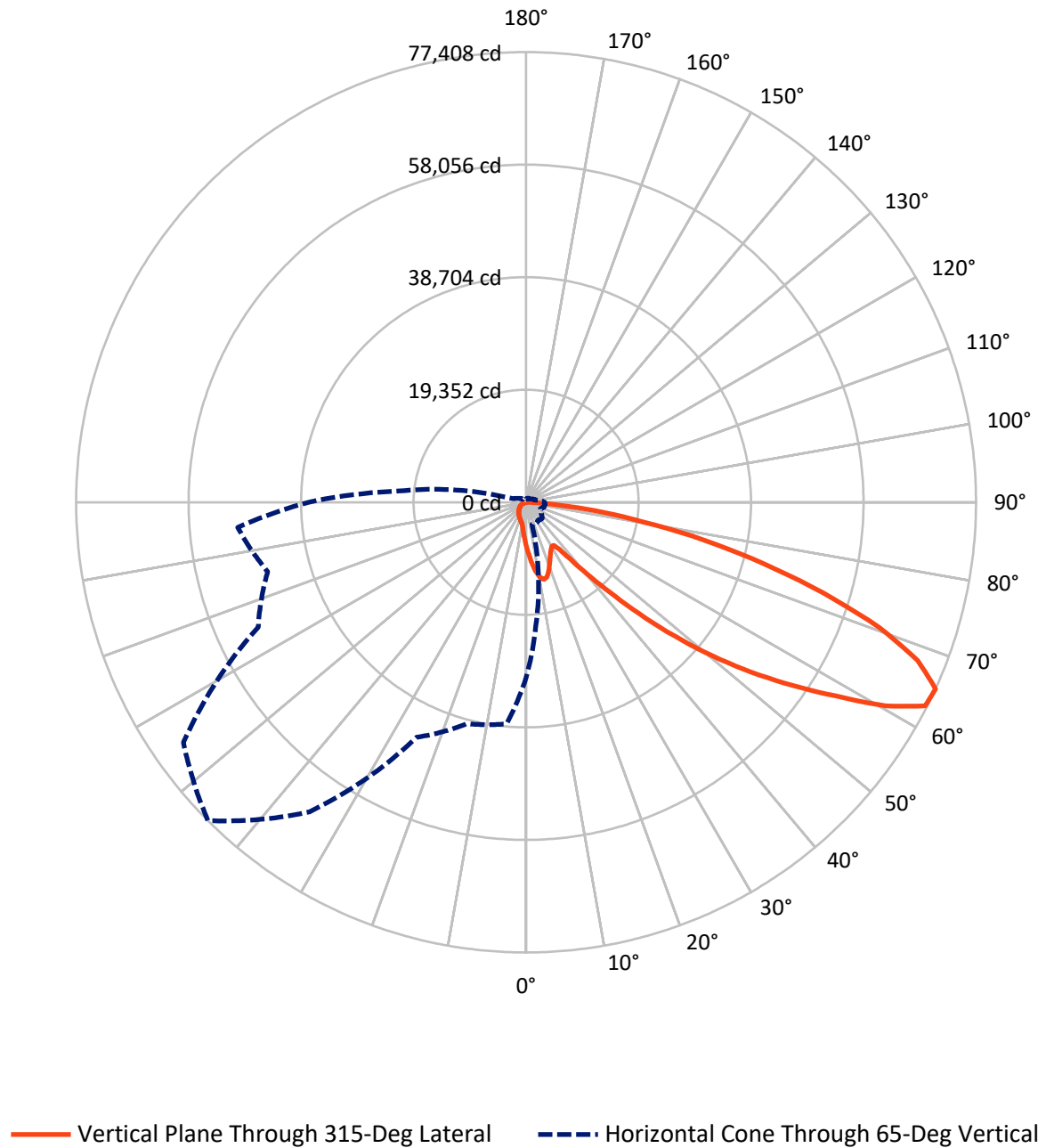
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 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	7713.3	0.0	7713.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	47364.7	0.0	47364.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	55078.0	0.0	55078.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	750.9	1.4
10°-20°	2250.8	4.1
20°-30°	3316.0	6.0
30°-40°	4260.1	7.7
40°-50°	6889.9	12.5
50°-60°	12082.0	21.9
60°-70°	15117.9	27.4
70°-80°	8834.2	16.0
80°-90°	1576.2	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°	55078.0	100.0
0°-180°	55078.0	100.0

Coefficient of Utilization



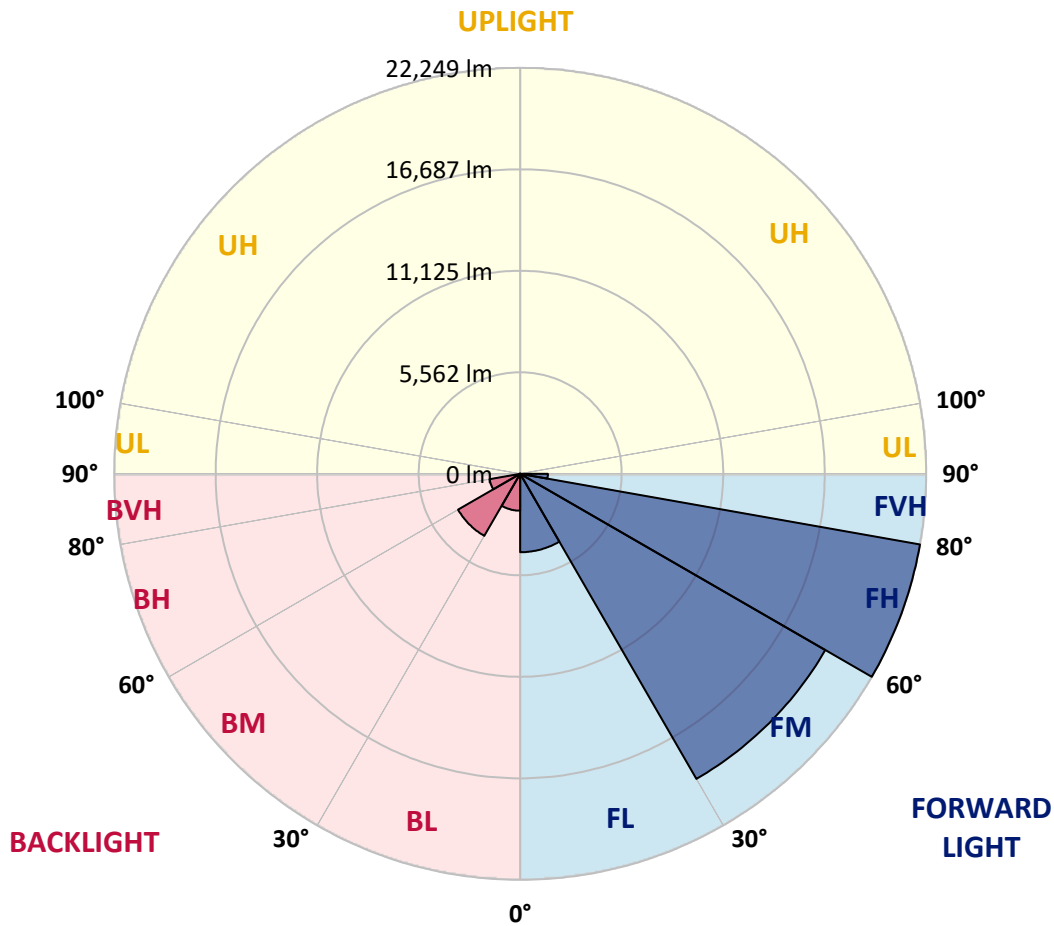
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4295.9	7.8			
FM (30°-60°)	19304.2	35.0			
FH (60°-80°)	22249.0	40.4			G5
FVH (80°-90°)	1515.6	2.8			G5
BL (0°-30°)	2021.8	3.7	B3/2500		
BM (30°-60°)	3927.8	7.1	B3/5000		
BH (60°-80°)	1703.1	3.1	B3/2500		G3/2500
BVH (80°-90°)	60.6	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°	7626.5	7626.5	7626.5	7626.5	7626.5	7626.5	7626.5	7626.5	7626.5	7626.5
2.5°	8616.9	8468.9	8381.6	8165.3	7949.1	7774.5	7539.3	7383.7	7197.8	7019.5
5°	9603.4	9364.3	9076.0	8681.4	8320.9	7952.9	7596.2	7243.3	6871.5	6530.0
7.5°	10438.1	10092.8	9584.4	9060.8	8601.7	8157.7	7740.4	7273.7	6822.1	6287.2
10°	11075.6	10635.4	9967.6	9280.9	8753.4	8305.7	7899.7	7505.1	7049.8	6404.8
12.5°	11462.6	10992.1	10199.1	9394.7	8791.4	8290.5	7975.6	7801.1	7622.7	6981.5
15°	11747.1	11238.7	10362.2	9474.4	8704.1	8089.4	7858.0	8032.5	8237.4	7827.6
17.5°	12043.1	11508.1	10574.7	9508.5	8468.9	7698.6	7600.0	8051.5	8525.8	8506.8
20°	12323.9	11792.7	10760.6	9485.7	8089.4	7224.3	7311.6	7888.3	8438.5	8670.0
22.5°	12646.4	12084.8	10939.0	9398.5	7596.2	6780.4	7053.6	7630.3	8112.2	8385.4
25°	13041.0	12452.9	11189.4	9269.5	7065.0	6412.4	6791.8	7330.6	7721.4	7911.1
27.5°	13466.0	12893.0	11523.3	9201.2	6636.2	6150.6	6495.8	6973.9	7323.0	7455.8
30°	13993.4	13405.3	11917.9	9125.3	6355.5	5998.8	6188.5	6560.3	6901.8	7034.6
32.5°	14570.1	13974.4	12297.3	8943.2	6184.7	5885.0	5888.8	6124.0	6435.1	6594.5
35°	15291.0	14657.4	12703.3	8544.8	6048.1	5752.2	5596.6	5710.4	5968.4	6158.1
37.5°	16319.3	15552.8	13200.4	7975.6	5847.0	5547.3	5289.3	5315.8	5513.1	5721.8
40°	17738.3	16755.6	13784.7	7383.7	5558.6	5258.9	4951.6	4940.2	5084.4	5289.3
42.5°	19658.3	18345.4	14486.6	6818.4	5281.7	4909.8	4594.9	4575.9	4689.8	4868.1
45°	22192.9	20379.2	15347.9	6332.7	5065.4	4568.3	4257.2	4249.6	4344.5	4500.0
47.5°	25437.0	23205.9	16209.2	6002.6	4951.6	4298.9	3980.2	3995.4	4078.9	4219.3
50°	29637.3	26890.2	16471.1	5835.6	4951.6	4154.8	3733.6	3809.5	3877.8	3984.0
52.5°	34672.3	30426.5	15606.0	5683.9	4981.9	4173.7	3524.9	3688.1	3737.4	3828.4
55°	39339.3	32160.5	13416.6	5475.2	4989.5	4291.4	3346.6	3589.4	3680.5	3714.6
57.5°	42048.4	31564.8	10847.9	5122.3	4959.1	4371.0	3232.7	3468.0	3642.5	3665.3
60°	41532.4	29474.1	7987.0	4852.9	4735.3	4340.7	3198.6	3282.1	3559.1	3593.2
62.5°	37556.0	25968.2	5543.5	4644.2	4242.0	4207.9	3187.2	2989.9	3376.9	3460.4
65°	30187.4	20443.7	3915.7	3999.2	3718.4	3919.5	3126.5	2686.4	3156.9	3270.7
67.5°	21900.7	13834.0	2826.8	3240.3	3369.3	3452.8	2989.9	2466.3	2906.4	3058.2
70°	14054.1	7471.0	1984.4	2140.0	2838.1	2933.0	2754.7	2269.0	2652.2	2826.8
72.5°	9990.4	4412.8	1426.7	1498.7	2280.4	2443.5	2424.6	2048.9	2356.3	2568.7
75°	6894.2	2432.1	963.8	1070.0	1654.3	1984.4	1870.6	1760.6	1995.8	2212.1
77.5°	4321.7	1089.0	576.7	743.7	1085.2	1559.5	1282.5	1362.2	1555.7	1756.8
80°	2405.6	421.2	322.5	493.3	591.9	1134.5	709.5	876.5	1145.9	1290.1
82.5°	523.6	53.1	144.2	212.5	231.5	660.2	375.6	508.4	720.9	709.5
85°	0.0	0.0	26.6	30.4	15.2	284.6	136.6	166.9	235.2	220.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6
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°
7626.5	0°	7626.5	7626.5	7626.5	7626.5	7626.5	7626.5	7626.5	7626.5	7626.5	7626.5
6860.1	2.5°	6829.7	6643.8	6507.2	6438.9	6382.0	6435.1	6465.5	6465.5	6594.5	6670.4
6321.3	5°	6188.5	5854.6	5600.4	5429.6	5327.2	5361.3	5399.3	5441.0	5604.2	5714.2
6002.6	7.5°	5744.6	5232.3	4845.3	4606.3	4481.1	4500.0	4526.6	4560.7	4720.1	4830.1
6048.1	10°	5661.1	4925.0	4378.6	4063.7	3911.9	3885.4	3870.2	3858.8	3953.7	4037.1
6564.1	12.5°	6002.6	4940.2	4177.5	3794.3	3608.4	3528.7	3437.6	3365.5	3380.7	3433.8
7345.8	15°	6613.5	5133.7	4113.0	3653.9	3422.5	3289.7	3183.4	3096.1	3077.2	3096.1
8028.7	17.5°	7311.6	5395.5	4105.4	3532.5	3244.1	3107.5	3020.3	2940.6	2914.0	2917.8
8412.0	20°	7774.5	5604.2	4082.7	3395.9	3073.4	2952.0	2876.1	2796.4	2769.8	2777.4
8305.7	22.5°	7820.0	5714.2	4048.5	3244.1	2902.6	2800.2	2724.3	2652.2	2648.4	2648.4
7907.3	25°	7573.4	5714.2	3976.4	3107.5	2739.5	2648.4	2580.1	2492.9	2508.0	2515.6
7455.8	27.5°	7190.2	5577.6	3839.8	2997.5	2599.1	2504.2	2435.9	2356.3	2375.2	2386.6
7034.6	30°	6810.8	5403.1	3676.7	2872.3	2466.3	2356.3	2306.9	2238.6	2246.2	2261.4
6617.3	32.5°	6457.9	5217.2	3483.2	2769.8	2333.5	2223.5	2185.5	2109.6	2121.0	2136.2
6207.5	35°	6108.8	5012.3	3255.5	2648.4	2212.1	2102.0	2071.7	1984.4	1992.0	2014.8
5797.7	37.5°	5733.2	4796.0	3069.6	2527.0	2094.5	1980.6	1950.3	1859.2	1866.8	1893.4
5372.7	40°	5338.6	4583.5	2887.5	2398.0	1969.2	1855.4	1828.9	1730.2	1737.8	1768.1
4955.4	42.5°	4940.2	4352.1	2747.1	2231.0	1840.2	1718.8	1692.3	1601.2	1612.6	1646.7
4591.1	45°	4572.1	4075.1	2656.0	2045.1	1718.8	1582.2	1555.7	1472.2	1495.0	1532.9
4283.8	47.5°	4257.2	3790.5	2618.1	1889.6	1589.8	1441.8	1419.1	1350.8	1388.7	1430.5
4022.0	50°	3987.8	3517.3	2568.7	1730.2	1468.4	1320.4	1297.7	1252.1	1301.4	1343.2
3843.6	52.5°	3794.3	3206.2	2462.5	1586.0	1362.2	1218.0	1210.4	1187.6	1233.1	1271.1
3710.8	55°	3627.3	2883.7	2291.8	1460.8	1267.3	1130.7	1138.3	1126.9	1164.8	1195.2
3631.1	57.5°	3475.6	2602.9	2075.5	1362.2	1164.8	1054.8	1077.6	1062.4	1081.4	1100.3
3547.7	60°	3293.5	2318.3	1817.5	1252.1	1043.4	978.9	1005.5	963.8	960.0	967.5
3395.9	62.5°	3024.1	1935.1	1548.1	1115.5	937.2	895.5	906.8	827.2	766.4	766.4
3172.0	65°	2648.4	1555.7	1297.7	963.8	815.8	781.6	774.0	660.2	576.7	569.1
2929.2	67.5°	2212.1	1278.7	1077.6	812.0	679.2	656.4	664.0	580.5	497.1	489.5
2686.4	70°	1802.3	1058.6	868.9	648.8	523.6	546.4	580.5	497.1	417.4	406.0
2401.8	72.5°	1464.6	842.3	679.2	497.1	387.0	451.5	493.3	406.0	330.1	322.5
2048.9	75°	1130.7	618.5	485.7	337.7	280.8	349.1	387.0	296.0	235.2	223.9
1586.0	77.5°	755.1	383.2	273.2	212.5	166.9	239.0	258.0	155.6	136.6	132.8
1153.5	80°	459.1	178.3	117.6	102.4	56.9	87.3	102.4	64.5	72.1	75.9
614.7	82.5°	231.5	49.3	19.0	3.8	0.0	0.0	30.4	15.2	30.4	37.9
166.9	85°	19.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	19.0
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°
7626.5	0°	7626.5	7626.5	7626.5	7626.5	7626.5	7626.5	7626.5	7626.5	7626.5	7626.5
6700.7	2.5°	6913.2	7072.6	7224.3	7467.2	7717.6	7964.2	8214.7	8457.5	8544.8	8609.3
5786.3	5°	6116.4	6416.2	6765.2	7247.1	7763.1	8294.3	8833.1	9326.4	9550.3	9702.0
4925.0	7.5°	5293.0	5683.9	6184.7	6909.4	7717.6	8563.7	9409.9	10187.7	10548.2	10840.3
4113.0	10°	4477.3	4902.2	5535.9	6363.0	7455.8	8670.0	9838.6	10908.6	11375.3	11743.4
3528.7	12.5°	3760.2	4158.6	4822.6	5737.0	7046.0	8586.5	10085.2	11371.5	11921.7	12335.3
3111.3	15°	3255.5	3536.3	4124.4	5110.9	6560.3	8317.1	10100.4	11591.6	12194.9	12627.4
2936.8	17.5°	2974.7	3069.6	3452.8	4473.5	6021.6	7964.2	9960.0	11667.5	12312.5	12714.7
2781.2	20°	2823.0	2838.1	2944.4	3646.3	5331.0	7634.1	9827.2	11743.4	12422.5	12760.2
2671.2	22.5°	2701.5	2701.5	2728.1	2982.3	4439.3	7239.5	9785.5	11876.2	12574.3	12783.0
2546.0	25°	2591.5	2591.5	2599.1	2667.4	3517.3	6636.2	9758.9	12081.0	12783.0	12839.9
2420.8	27.5°	2477.7	2481.5	2481.5	2519.4	2834.3	5816.7	9645.1	12346.6	13033.4	12915.8
2299.3	30°	2363.8	2371.4	2371.4	2398.0	2508.0	4856.7	9421.2	12665.4	13359.7	13014.4
2177.9	32.5°	2250.0	2257.6	2257.6	2280.4	2360.1	3877.8	9140.5	12957.5	13689.8	13056.2
2060.3	35°	2132.4	2143.8	2136.2	2166.5	2250.0	3084.8	8783.8	13249.7	14046.5	13189.0
1946.5	37.5°	2014.8	2022.4	2018.6	2048.9	2143.8	2663.6	8370.2	13469.8	14532.2	13484.9
1825.1	40°	1897.1	1893.4	1893.4	1927.5	2029.9	2542.2	7850.4	13818.8	15230.3	14004.8
1703.6	42.5°	1775.7	1775.7	1768.1	1806.1	1931.3	2451.1	7353.4	14444.9	16247.2	14831.9
1589.8	45°	1665.7	1661.9	1646.7	1680.9	1836.4	2291.8	7178.8	15613.5	17749.7	16171.3
1476.0	47.5°	1559.5	1555.7	1517.7	1548.1	1722.6	2147.6	7831.4	17525.9	19832.8	18140.5
1384.9	50°	1464.6	1468.4	1396.3	1422.9	1608.8	2037.5	9246.7	20007.3	22598.8	20792.8
1309.0	52.5°	1377.3	1377.3	1282.5	1297.7	1468.4	1938.9	10593.7	22697.5	26249.0	24492.2
1229.4	55°	1290.1	1282.5	1176.2	1183.8	1328.0	1798.5	10794.8	25323.2	31227.1	30058.4
1142.1	57.5°	1191.4	1176.2	1077.6	1077.6	1199.0	1696.1	9356.7	27341.7	37404.2	38238.9
978.9	60°	1070.0	1058.6	994.1	975.1	1096.6	1787.1	6602.1	27577.0	41388.2	49117.2
777.8	62.5°	914.4	929.6	895.5	868.9	997.9	1855.4	3911.9	25683.6	40424.5	52577.6
603.3	65°	720.9	781.6	774.0	755.1	1096.6	1563.3	2310.7	22048.7	37468.7	49785.0
527.4	67.5°	614.7	656.4	645.0	645.0	1149.7	1187.6	1453.2	17226.1	33401.2	46472.6
440.1	70°	523.6	565.4	523.6	523.6	868.9	720.9	1005.5	12027.9	29011.2	42807.3
352.9	72.5°	432.6	474.3	428.8	398.4	694.4	538.8	736.1	7516.5	24845.1	38990.2
250.4	75°	330.1	379.4	345.3	307.3	459.1	402.2	557.8	4367.2	20584.1	33359.5
151.8	77.5°	208.7	273.2	258.0	216.3	337.7	292.2	402.2	2599.1	15882.9	26066.8
91.1	80°	129.0	140.4	144.2	136.6	193.5	197.3	273.2	1479.8	10870.7	18167.1
56.9	82.5°	83.5	83.5	64.5	72.1	94.9	113.8	155.6	557.8	6389.6	11060.4
34.1	85°	60.7	53.1	34.1	34.1	45.5	56.9	60.7	170.7	2591.5	4367.2
15.2	87.5°	30.4	26.6	11.4	15.2	22.8	19.0	15.2	7.6	652.6	1396.3
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):

285°		295°	305°	315°	325°	335°	345°	355°	360°
7626.5	0°	7626.5	7626.5	7626.5	7626.5	7626.5	7626.5	7626.5	7626.5
8753.4	2.5°	8829.3	8947.0	8954.5	8954.5	8852.1	8848.3	8639.6	8616.9
10043.5	5°	10396.4	10472.3	10491.2	10453.3	10248.4	10096.6	9690.6	9603.4
11360.1	7.5°	11830.6	11982.4	11982.4	11891.3	11557.4	11246.3	10658.2	10438.1
12449.1	10°	12976.5	13151.0	13113.1	12927.2	12506.0	12077.3	11363.9	11075.6
13109.3	12.5°	13534.3	13712.6	13613.9	13401.5	12991.7	12540.2	11788.9	11462.6
13299.0	15°	13522.9	13473.6	13371.1	13344.5	13147.2	12805.8	12103.8	11747.1
13181.4	17.5°	13041.0	12623.6	12544.0	12809.6	13060.0	12976.5	12377.0	12043.1
12900.6	20°	12278.4	11549.8	11477.8	11986.2	12699.5	13063.8	12631.2	12323.9
12494.6	22.5°	11474.0	10688.5	10521.6	11083.1	12156.9	13090.3	12953.7	12646.4
12046.9	25°	10711.3	9922.1	9755.1	10278.8	11553.6	13044.8	13302.8	13041.0
11618.1	27.5°	10073.9	9311.2	9155.6	9679.3	10973.1	12915.8	13651.9	13466.0
11193.2	30°	9580.6	8874.9	8761.0	9265.7	10472.3	12756.4	14095.8	13993.4
10798.6	32.5°	9292.2	8776.2	8818.0	9231.5	10202.9	12581.9	14520.8	14570.1
10605.1	35°	9576.8	9599.6	9963.8	10134.6	10453.3	12555.3	15097.5	15291.0
10836.5	37.5°	10992.1	11781.3	12536.4	12396.0	11678.9	12862.7	15958.8	16319.3
11845.8	40°	13401.5	15021.6	16247.2	15712.2	13906.1	13803.7	17199.6	17738.3
13636.7	42.5°	16345.8	19092.9	21111.5	19677.2	16778.4	15450.4	18971.5	19658.3
15803.3	45°	19453.4	24112.8	27292.4	24310.1	19840.4	17757.3	21654.1	22192.9
17833.2	47.5°	22727.8	30214.0	34327.0	29447.6	22678.5	20383.0	25311.8	25437.0
19756.9	50°	26309.7	36903.4	41498.2	34581.2	25418.0	23391.9	29781.5	29637.3
21999.3	52.5°	29720.7	43782.4	48517.7	39737.7	27823.6	27125.4	34968.3	34672.3
25065.1	55°	32976.3	50657.7	55578.9	44693.0	30092.6	32058.0	41130.2	39339.3
29485.5	57.5°	36751.6	56838.6	62856.4	49671.2	33264.6	38462.8	48020.6	42048.4
37950.6	60°	42333.0	63861.8	71086.2	56493.3	39297.6	45193.9	50490.7	41532.4
48088.9	62.5°	49458.7	70319.7	77069.8	63178.9	45357.0	46461.2	46852.0	37556.0
46021.1	65°	50843.6	71955.1	77407.5	64966.0	44575.4	39411.4	38250.3	30187.4
41107.4	67.5°	47170.7	68999.3	72687.4	61638.4	39430.4	30456.8	28703.9	21900.7
37882.3	70°	43050.1	63364.8	64461.3	55981.1	34679.9	22401.5	19385.1	14054.1
35674.0	72.5°	38827.1	55848.3	53579.3	48616.4	30479.6	16311.7	13982.0	9990.4
32528.5	75°	33811.0	45964.1	42204.0	40394.1	25235.9	12802.0	10115.6	6894.2
27979.2	77.5°	27076.1	32354.0	31348.5	31310.6	18963.9	9352.9	6750.1	4321.7
21859.0	80°	19100.5	20997.6	20485.4	23581.6	12722.3	6784.2	4063.7	2405.6
15215.1	82.5°	9246.7	11610.6	11917.9	14042.7	6188.5	3991.6	937.2	523.6
5949.5	85°	3619.8	5600.4	4723.9	5331.0	1737.8	1111.7	22.8	0.0
978.9	87.5°	406.0	648.8	595.7	470.5	212.5	45.5	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)