

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: P951708

Luminaire Tested: **GALN-SB5D-740-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951708
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-SB5D-740-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 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: 41505 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

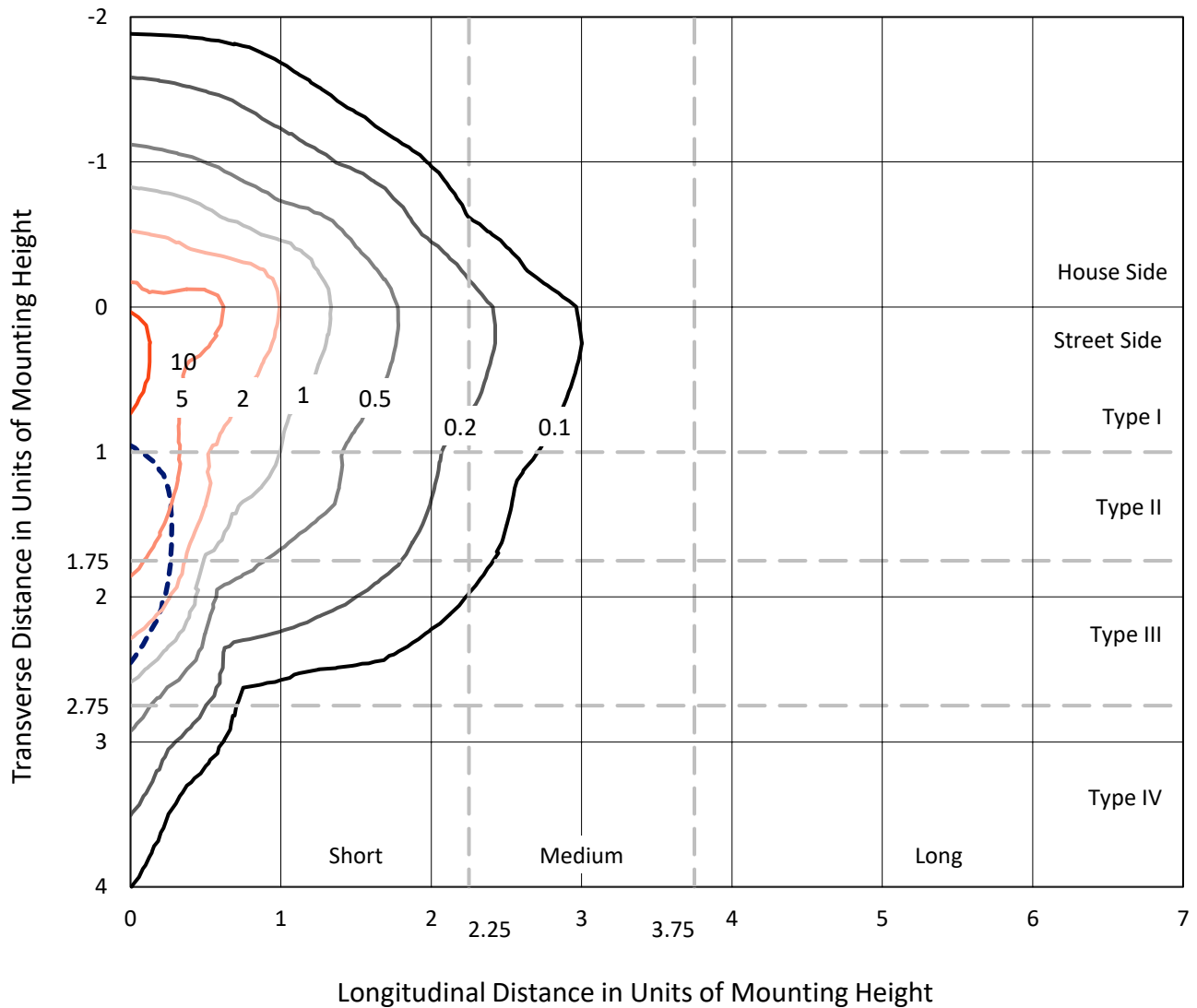
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

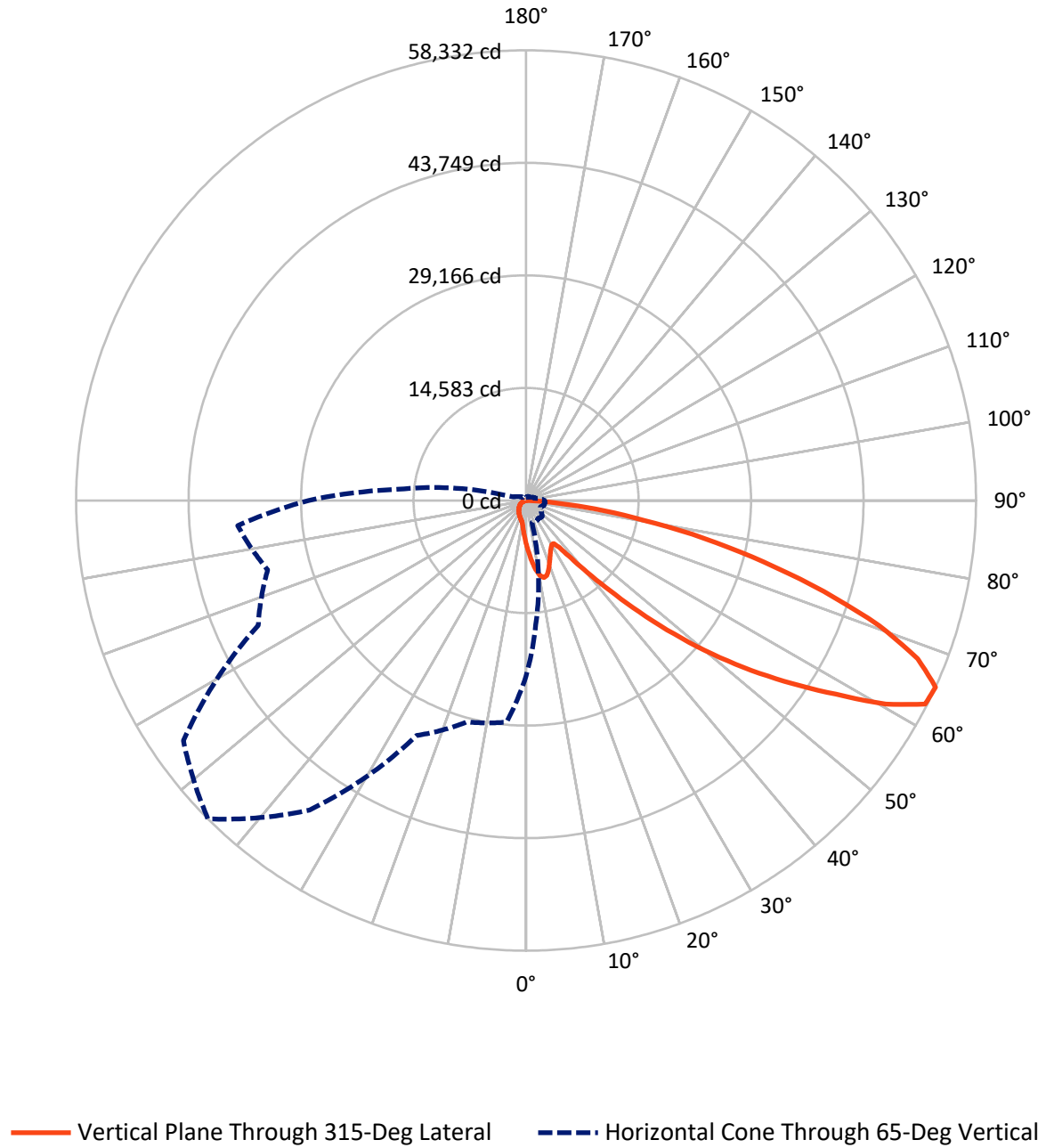
× Max cd
 - - - 1/2 Max cd



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	5812.5	0.0	5812.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	35692.5	0.0	35692.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	41505.0	0.0	41505.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	565.8	1.4
10°-20°	1696.2	4.1
20°-30°	2498.8	6.0
30°-40°	3210.3	7.7
40°-50°	5192.0	12.5
50°-60°	9104.6	21.9
60°-70°	11392.4	27.4
70°-80°	6657.2	16.0
80°-90°	1187.7	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°	41505.0	100.0
0°-180°	41505.0	100.0

Coefficient of Utilization



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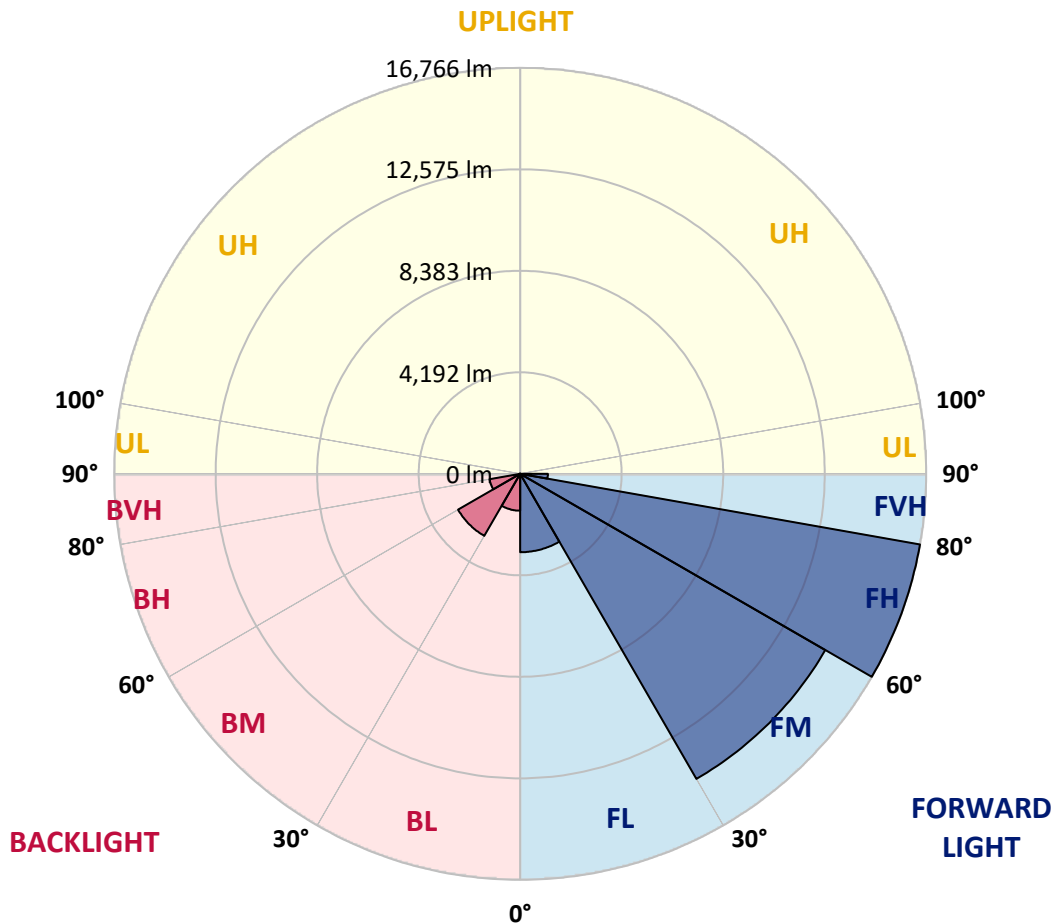
CATALOG NUMBER: GALN-SB5D-740-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3237.2	7.8			
FM (30°-60°)	14547.0	35.0			
FH (60°-80°)	16766.1	40.4			G5
FVH (80°-90°)	1142.1	2.8			G5
BL (0°-30°)	1523.5	3.7	B3/2500		
BM (30°-60°)	2959.9	7.1	B3/5000		
BH (60°-80°)	1283.4	3.1	B3/2500		G3/2500
BVH (80°-90°)	45.6	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°	5747.1	5747.1	5747.1	5747.1	5747.1	5747.1	5747.1	5747.1	5747.1	5747.1
2.5°	6493.4	6381.9	6316.1	6153.1	5990.2	5858.6	5681.4	5564.1	5424.0	5289.6
5°	7236.8	7056.7	6839.4	6542.0	6270.4	5993.0	5724.2	5458.3	5178.1	4920.8
7.5°	7865.8	7605.6	7222.5	6827.9	6481.9	6147.4	5832.9	5481.2	5141.0	4737.8
10°	8346.2	8014.5	7511.3	6993.8	6596.3	6258.9	5953.0	5655.6	5312.5	4826.4
12.5°	8637.8	8283.3	7685.7	7079.5	6624.9	6247.5	6010.2	5878.6	5744.3	5261.0
15°	8852.3	8469.1	7808.6	7139.6	6559.1	6095.9	5921.5	6053.1	6207.5	5898.7
17.5°	9075.3	8672.1	7968.8	7165.3	6381.9	5801.4	5727.1	6067.4	6424.8	6410.5
20°	9286.9	8886.6	8108.9	7148.2	6095.9	5444.0	5509.8	5944.4	6359.0	6533.4
22.5°	9529.9	9106.7	8243.2	7082.4	5724.2	5109.5	5315.4	5750.0	6113.1	6319.0
25°	9827.3	9384.1	8432.0	6985.2	5323.9	4832.2	5118.1	5524.1	5818.6	5961.6
27.5°	10147.5	9715.8	8683.6	6933.7	5000.8	4634.9	4895.1	5255.3	5518.4	5618.4
30°	10545.0	10101.8	8980.9	6876.5	4789.3	4520.5	4663.5	4943.7	5201.0	5301.1
32.5°	10979.6	10530.7	9266.9	6739.3	4660.6	4434.7	4437.6	4614.8	4849.3	4969.4
35°	11522.8	11045.3	9572.8	6439.1	4557.7	4334.6	4217.4	4303.2	4497.6	4640.6
37.5°	12297.7	11720.1	9947.4	6010.2	4406.1	4180.2	3985.8	4005.8	4154.5	4311.8
40°	13367.0	12626.5	10387.7	5564.1	4188.8	3962.9	3731.3	3722.8	3831.4	3985.8
42.5°	14813.8	13824.5	10916.7	5138.1	3980.1	3699.9	3462.6	3448.3	3534.0	3668.4
45°	16723.8	15357.1	11565.7	4772.1	3817.1	3442.6	3208.1	3202.4	3273.9	3391.1
47.5°	19168.5	17487.2	12214.8	4523.4	3731.3	3239.5	2999.4	3010.8	3073.7	3179.5
50°	22333.7	20263.6	12412.1	4397.5	3731.3	3130.9	2813.5	2870.7	2922.2	3002.2
52.5°	26127.9	22928.4	11760.1	4283.2	3754.2	3145.2	2656.3	2779.2	2816.4	2885.0
55°	29644.8	24235.1	10110.3	4125.9	3759.9	3233.8	2521.9	2704.9	2773.5	2799.2
57.5°	31686.3	23786.2	8174.6	3860.0	3737.1	3293.9	2436.1	2613.4	2744.9	2762.0
60°	31297.5	22210.7	6018.7	3657.0	3568.4	3271.0	2410.4	2473.3	2682.0	2707.7
62.5°	28301.0	19568.8	4177.4	3499.7	3196.7	3170.9	2401.8	2253.1	2544.7	2607.6
65°	22748.3	15405.7	2950.8	3013.7	2802.1	2953.6	2356.0	2024.4	2378.9	2464.7
67.5°	16503.7	10424.9	2130.1	2441.8	2539.0	2601.9	2253.1	1858.5	2190.2	2304.6
70°	10590.7	5629.9	1495.4	1612.6	2138.7	2210.2	2075.8	1709.8	1998.6	2130.1
72.5°	7528.4	3325.3	1075.1	1129.4	1718.4	1841.4	1827.1	1544.0	1775.6	1935.7
75°	5195.3	1832.8	726.3	806.3	1246.6	1495.4	1409.6	1326.7	1504.0	1666.9
77.5°	3256.7	820.6	434.6	560.4	817.7	1175.2	966.4	1026.5	1172.3	1323.8
80°	1812.8	317.4	243.0	371.7	446.0	854.9	534.7	660.5	863.5	972.1
82.5°	394.6	40.0	108.7	160.1	174.4	497.5	283.1	383.1	543.3	534.7
85°	0.0	0.0	20.0	22.9	11.4	214.4	102.9	125.8	177.3	165.8
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°
5747.1	0°	5747.1	5747.1	5747.1	5747.1	5747.1	5747.1	5747.1	5747.1	5747.1	5747.1
5169.5	2.5°	5146.7	5006.6	4903.6	4852.2	4809.3	4849.3	4872.2	4872.2	4969.4	5026.6
4763.5	5°	4663.5	4411.8	4220.3	4091.6	4014.4	4040.1	4068.7	4100.2	4223.1	4306.0
4523.4	7.5°	4328.9	3942.9	3651.3	3471.1	3376.8	3391.1	3411.1	3436.8	3556.9	3639.8
4557.7	10°	4266.0	3711.3	3299.6	3062.3	2947.9	2927.9	2916.4	2907.9	2979.3	3042.3
4946.5	12.5°	4523.4	3722.8	3148.0	2859.3	2719.2	2659.1	2590.5	2536.2	2547.6	2587.6
5535.5	15°	4983.7	3868.6	3099.4	2753.5	2579.1	2479.0	2398.9	2333.2	2318.9	2333.2
6050.2	17.5°	5509.8	4065.9	3093.7	2662.0	2444.7	2341.7	2276.0	2215.9	2195.9	2198.8
6339.0	20°	5858.6	4223.1	3076.6	2559.0	2316.0	2224.5	2167.3	2107.3	2087.3	2093.0
6258.9	22.5°	5892.9	4306.0	3050.8	2444.7	2187.3	2110.1	2052.9	1998.6	1995.8	1995.8
5958.7	25°	5707.1	4306.0	2996.5	2341.7	2064.4	1995.8	1944.3	1878.5	1890.0	1895.7
5618.4	27.5°	5418.3	4203.1	2893.6	2258.8	1958.6	1887.1	1835.6	1775.6	1789.9	1798.5
5301.1	30°	5132.4	4071.6	2770.6	2164.5	1858.5	1775.6	1738.4	1687.0	1692.7	1704.1
4986.6	32.5°	4866.5	3931.5	2624.8	2087.3	1758.4	1675.5	1646.9	1589.7	1598.3	1609.8
4677.8	35°	4603.4	3777.1	2453.2	1995.8	1666.9	1584.0	1561.2	1495.4	1501.1	1518.3
4369.0	37.5°	4320.3	3614.1	2313.1	1904.3	1578.3	1492.5	1469.7	1401.0	1406.8	1426.8
4048.7	40°	4023.0	3454.0	2175.9	1807.1	1484.0	1398.2	1378.2	1303.8	1309.5	1332.4
3734.2	42.5°	3722.8	3279.6	2070.1	1681.2	1386.7	1295.2	1275.2	1206.6	1215.2	1240.9
3459.7	45°	3445.4	3070.8	2001.5	1541.1	1295.2	1192.3	1172.3	1109.4	1126.5	1155.1
3228.1	47.5°	3208.1	2856.4	1972.9	1423.9	1198.0	1086.5	1069.4	1017.9	1046.5	1077.9
3030.8	50°	3005.1	2650.5	1935.7	1303.8	1106.5	995.0	977.9	943.6	980.7	1012.2
2896.4	52.5°	2859.3	2416.1	1855.7	1195.2	1026.5	917.8	912.1	894.9	929.3	957.9
2796.4	55°	2733.5	2173.0	1727.0	1100.8	955.0	852.1	857.8	849.2	877.8	900.7
2736.3	57.5°	2619.1	1961.5	1564.0	1026.5	877.8	794.9	812.0	800.6	814.9	829.2
2673.4	60°	2481.8	1747.0	1369.6	943.6	786.3	737.7	757.7	726.3	723.4	729.1
2559.0	62.5°	2278.8	1458.2	1166.6	840.6	706.2	674.8	683.4	623.3	577.6	577.6
2390.3	65°	1995.8	1172.3	977.9	726.3	614.7	589.0	583.3	497.5	434.6	428.9
2207.3	67.5°	1666.9	963.6	812.0	611.9	511.8	494.7	500.4	437.5	374.6	368.8
2024.4	70°	1358.1	797.7	654.8	488.9	394.6	411.7	437.5	374.6	314.5	305.9
1809.9	72.5°	1103.7	634.8	511.8	374.6	291.6	340.3	371.7	305.9	248.8	243.0
1544.0	75°	852.1	466.1	366.0	254.5	211.6	263.1	291.6	223.0	177.3	168.7
1195.2	77.5°	569.0	288.8	205.9	160.1	125.8	180.1	194.4	117.2	102.9	100.1
869.2	80°	346.0	134.4	88.6	77.2	42.9	65.8	77.2	48.6	54.3	57.2
463.2	82.5°	174.4	37.2	14.3	2.9	0.0	0.0	22.9	11.4	22.9	28.6
125.8	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°
5747.1	0°	5747.1	5747.1	5747.1	5747.1	5747.1	5747.1	5747.1	5747.1	5747.1	5747.1
5049.5	2.5°	5209.6	5329.7	5444.0	5627.0	5815.7	6001.6	6190.3	6373.3	6439.1	6487.7
4360.4	5°	4609.1	4835.0	5098.1	5461.2	5850.0	6250.3	6656.4	7028.1	7196.8	7311.1
3711.3	7.5°	3988.7	4283.2	4660.6	5206.7	5815.7	6453.4	7091.0	7677.1	7948.7	8168.9
3099.4	10°	3373.9	3694.2	4171.7	4795.0	5618.4	6533.4	7414.1	8220.4	8572.1	8849.4
2659.1	12.5°	2833.5	3133.7	3634.1	4323.2	5309.6	6470.5	7599.9	8569.2	8983.8	9295.5
2344.6	15°	2453.2	2664.8	3108.0	3851.4	4943.7	6267.5	7611.4	8735.0	9189.7	9515.6
2213.1	17.5°	2241.7	2313.1	2601.9	3371.1	4537.6	6001.6	7505.6	8792.2	9278.3	9581.4
2095.8	20°	2127.3	2138.7	2218.8	2747.7	4017.3	5752.8	7405.5	8849.4	9361.2	9615.7
2012.9	22.5°	2035.8	2035.8	2055.8	2247.4	3345.3	5455.5	7374.0	8949.5	9475.6	9632.9
1918.6	25°	1952.9	1952.9	1958.6	2010.1	2650.5	5000.8	7354.0	9103.9	9632.9	9675.7
1824.2	27.5°	1867.1	1870.0	1870.0	1898.5	2135.9	4383.2	7268.2	9304.0	9821.6	9732.9
1732.7	30°	1781.3	1787.0	1787.0	1807.1	1890.0	3659.9	7099.5	9544.2	10067.5	9807.3
1641.2	32.5°	1695.5	1701.3	1701.3	1718.4	1778.5	2922.2	6888.0	9764.4	10316.2	9838.7
1552.6	35°	1606.9	1615.5	1609.8	1632.6	1695.5	2324.6	6619.2	9984.5	10585.0	9938.8
1466.8	37.5°	1518.3	1524.0	1521.1	1544.0	1615.5	2007.2	6307.5	10150.4	10951.0	10161.8
1375.3	40°	1429.6	1426.8	1426.8	1452.5	1529.7	1915.7	5915.8	10413.4	11477.1	10553.5
1283.8	42.5°	1338.1	1338.1	1332.4	1361.0	1455.4	1847.1	5541.2	10885.2	12243.4	11176.9
1198.0	45°	1255.2	1252.4	1240.9	1266.7	1383.9	1727.0	5409.7	11765.9	13375.6	12186.2
1112.3	47.5°	1175.2	1172.3	1143.7	1166.6	1298.1	1618.3	5901.5	13206.9	14945.4	13670.1
1043.6	50°	1103.7	1106.5	1052.2	1072.2	1212.3	1535.4	6968.0	15076.9	17029.8	15668.7
986.4	52.5°	1037.9	1037.9	966.4	977.9	1106.5	1461.1	7983.1	17104.1	19780.4	18456.5
926.4	55°	972.1	966.4	886.4	892.1	1000.7	1355.3	8134.6	19082.7	23531.7	22651.1
860.6	57.5°	897.8	886.4	812.0	812.0	903.5	1278.1	7050.9	20603.8	28186.6	28815.6
737.7	60°	806.3	797.7	749.1	734.8	826.3	1346.7	4975.1	20781.1	31188.8	37013.1
586.1	62.5°	689.1	700.5	674.8	654.8	752.0	1398.2	2947.9	19354.3	30462.6	39620.8
454.6	65°	543.3	589.0	583.3	569.0	826.3	1178.0	1741.3	16615.2	28235.2	37516.4
397.4	67.5°	463.2	494.7	486.1	486.1	866.4	894.9	1095.1	12981.0	25170.1	35020.2
331.7	70°	394.6	426.0	394.6	394.6	654.8	543.3	757.7	9063.9	21861.9	32258.2
265.9	72.5°	326.0	357.4	323.1	300.2	523.2	406.0	554.7	5664.2	18722.4	29381.8
188.7	75°	248.8	285.9	260.2	231.6	346.0	303.1	420.3	3291.0	15511.5	25138.6
114.4	77.5°	157.3	205.9	194.4	163.0	254.5	220.2	303.1	1958.6	11968.9	19643.1
68.6	80°	97.2	105.8	108.7	102.9	145.8	148.7	205.9	1115.1	8191.8	13690.1
42.9	82.5°	62.9	62.9	48.6	54.3	71.5	85.8	117.2	420.3	4815.0	8334.7
25.7	85°	45.7	40.0	25.7	25.7	34.3	42.9	45.7	128.7	1952.9	3291.0
11.4	87.5°	22.9	20.0	8.6	11.4	17.2	14.3	11.4	5.7	491.8	1052.2
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):

285°		295°	305°	315°	325°	335°	345°	355°	360°
5747.1	0°	5747.1	5747.1	5747.1	5747.1	5747.1	5747.1	5747.1	5747.1
6596.3	2.5°	6653.5	6742.1	6747.9	6747.9	6670.7	6667.8	6510.5	6493.4
7568.5	5°	7834.4	7891.6	7905.9	7877.3	7722.9	7608.5	7302.6	7236.8
8560.6	7.5°	8915.2	9029.5	9029.5	8960.9	8709.3	8474.8	8031.7	7865.8
9381.2	10°	9778.7	9910.2	9881.6	9741.5	9424.1	9101.0	8563.5	8346.2
9878.7	12.5°	10199.0	10333.4	10259.0	10098.9	9790.1	9449.9	8883.7	8637.8
10021.7	15°	10190.4	10153.2	10076.0	10056.0	9907.3	9650.0	9121.0	8852.3
9933.1	17.5°	9827.3	9512.8	9452.7	9652.9	9841.6	9778.7	9326.9	9075.3
9721.5	20°	9252.6	8703.6	8649.3	9032.4	9569.9	9844.4	9518.5	9286.9
9415.5	22.5°	8646.4	8054.5	7928.7	8351.9	9161.1	9864.5	9761.5	9529.9
9078.2	25°	8071.7	7477.0	7351.2	7745.7	8706.4	9830.1	10024.6	9827.3
8755.1	27.5°	7591.3	7016.6	6899.4	7294.0	8269.0	9732.9	10287.6	10147.5
8434.8	30°	7219.6	6687.8	6602.0	6982.3	7891.6	9612.8	10622.2	10545.0
8137.5	32.5°	7002.3	6613.5	6644.9	6956.6	7688.6	9481.3	10942.4	10979.6
7991.6	35°	7216.8	7233.9	7508.4	7637.1	7877.3	9461.3	11377.0	11522.8
8166.0	37.5°	8283.3	8878.0	9447.0	9341.2	8800.8	9692.9	12026.1	12297.7
8926.6	40°	10098.9	11319.8	12243.4	11840.2	10479.2	10402.0	12961.0	13367.0
10276.2	42.5°	12317.7	14387.8	15908.9	14828.1	12643.7	11642.9	14296.3	14813.8
11908.8	45°	14659.4	18170.6	20566.7	18319.3	14951.1	13381.3	16317.8	16723.8
13438.5	47.5°	17127.0	22768.3	25867.7	22190.7	17089.8	15359.9	19074.1	19168.5
14888.2	50°	19826.1	27809.2	31271.7	26059.3	19154.2	17627.3	22442.3	22333.7
16578.0	52.5°	22396.6	32993.0	36561.4	29945.0	20967.0	20440.9	26350.9	26127.9
18888.3	55°	24849.8	38174.0	41882.5	33679.2	22676.8	24157.9	30994.4	29644.8
22219.3	57.5°	27694.8	42831.7	47366.5	37430.6	25067.1	28984.3	36186.8	31686.3
28598.3	60°	31900.8	48124.2	53568.3	42571.5	29613.4	34056.7	38048.2	31297.5
36238.3	62.5°	37270.5	52990.7	58077.3	47609.6	34179.6	35011.6	35306.2	28301.0
34680.0	65°	38314.1	54223.0	58331.8	48956.3	33590.6	29699.1	28824.2	22748.3
30977.2	67.5°	35546.3	51995.7	54774.9	46448.7	29713.4	22951.3	21630.3	16503.7
28546.9	70°	32441.2	47749.7	48576.0	42185.5	26133.6	16881.1	14608.0	10590.7
26882.8	72.5°	29258.8	42085.5	40375.6	36635.7	22968.4	12292.0	10536.4	7528.4
24512.4	75°	25478.9	34637.1	31803.6	30439.7	19016.9	9647.1	7622.8	5195.3
21084.2	77.5°	20403.7	24380.9	23623.2	23594.6	14290.6	7048.1	5086.6	3256.7
16472.2	80°	14393.5	15823.1	15437.1	17770.3	9587.1	5112.4	3062.3	1812.8
11465.6	82.5°	6968.0	8749.3	8980.9	10582.1	4663.5	3007.9	706.2	394.6
4483.3	85°	2727.7	4220.3	3559.8	4017.3	1309.5	837.8	17.2	0.0
737.7	87.5°	305.9	488.9	448.9	354.5	160.1	34.3	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)