

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: P955572

Luminaire Tested: **GALN-SB8C-727-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955572
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-SB8C-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 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: 42868 lumens
Efficiency: N/A
Efficacy: 107.2 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): 399.8
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

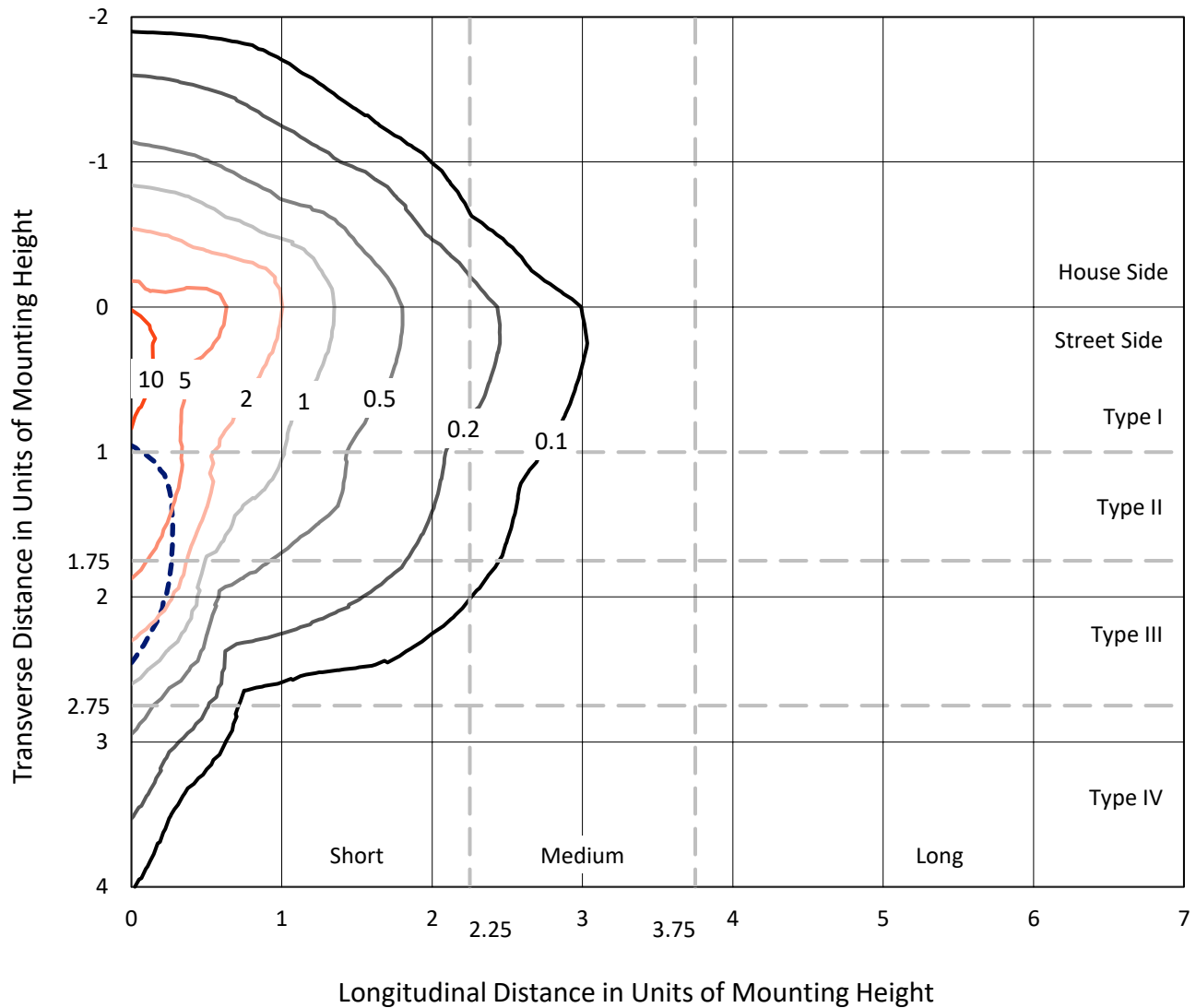


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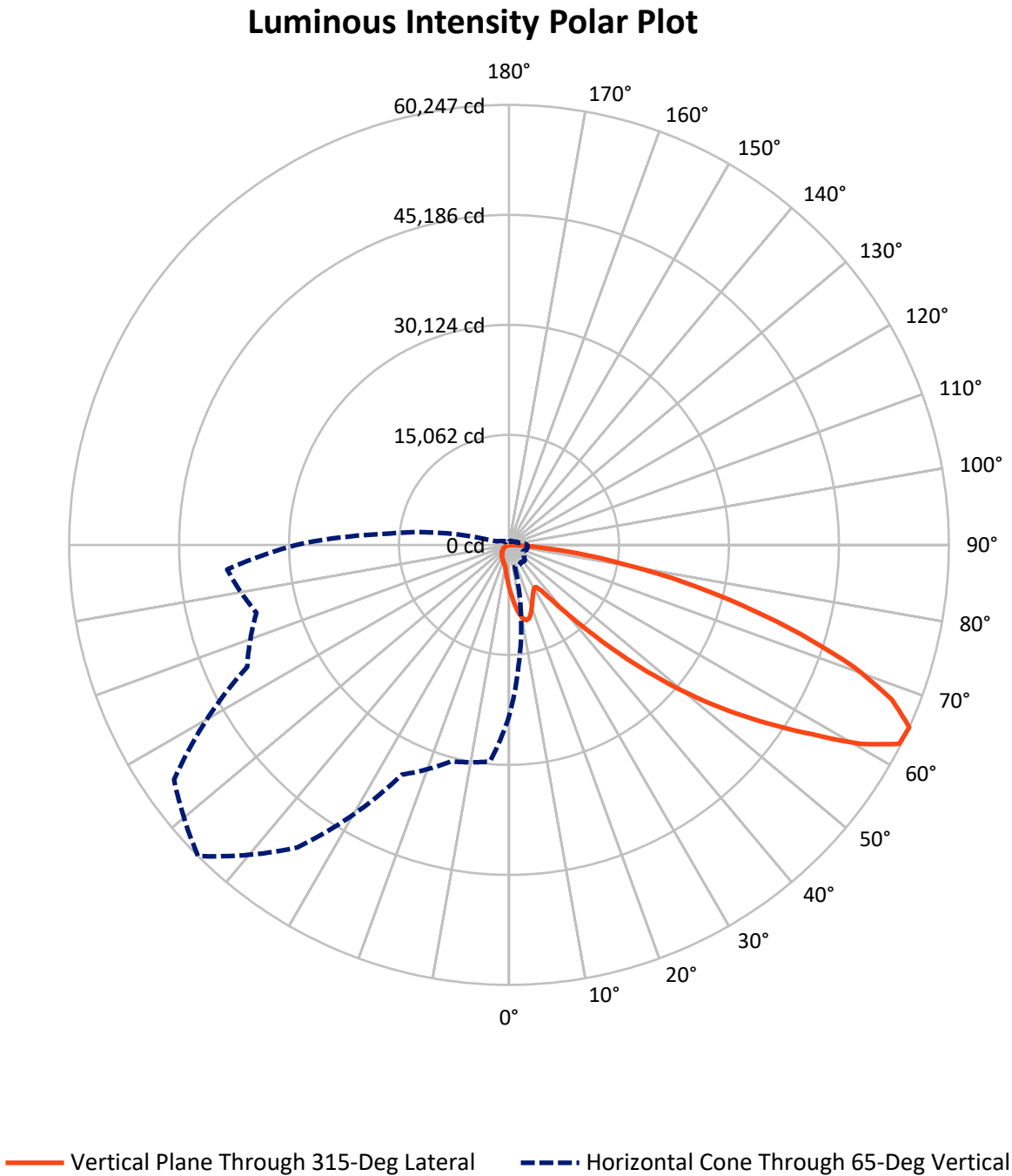
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
Type IV - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6003.3	0.0	6003.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	36864.7	0.0	36864.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	42868.0	0.0	42868.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	584.4	1.4
10°-20°	1751.9	4.1
20°-30°	2580.9	6.0
30°-40°	3315.7	7.7
40°-50°	5362.5	12.5
50°-60°	9403.6	21.9
60°-70°	11766.5	27.4
70°-80°	6875.8	16.0
80°-90°	1226.7	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°	42868.0	100.0
0°-180°	42868.0	100.0

Coefficient of Utilization



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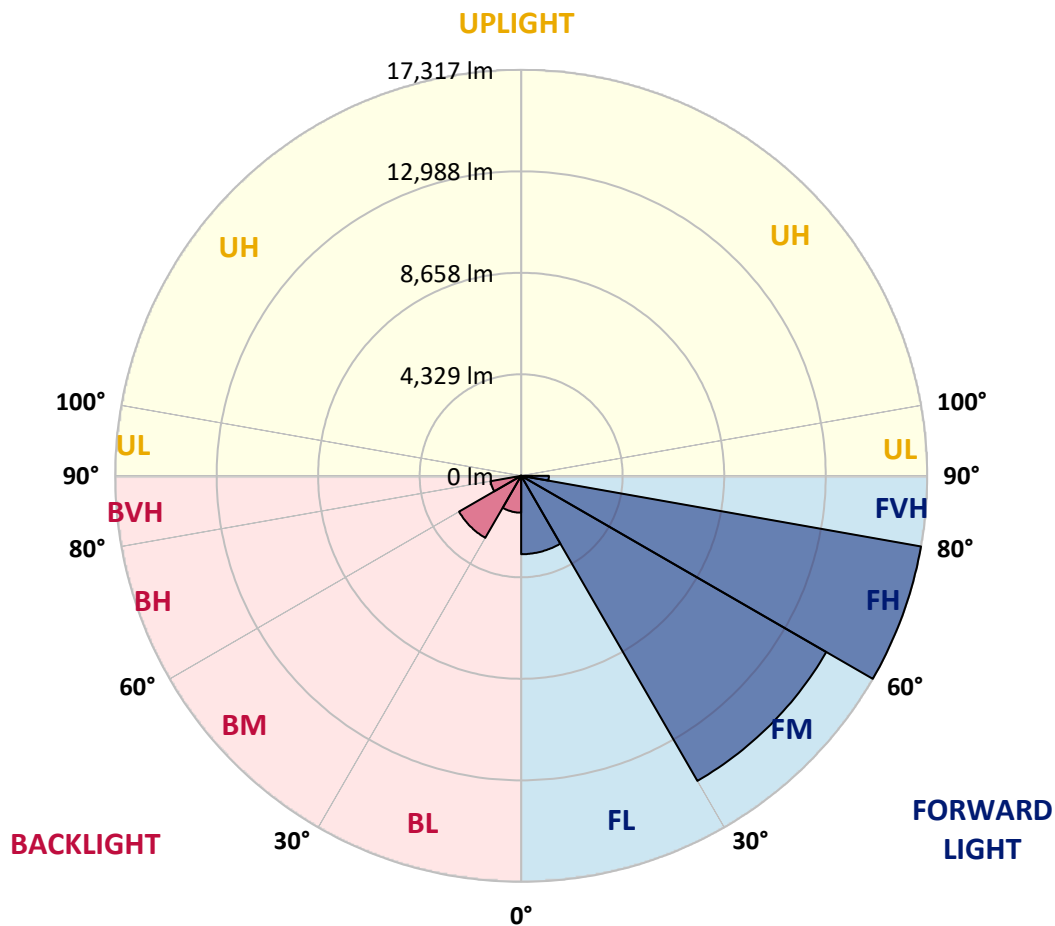
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3343.6	7.8			
FM	(30°-60°)	15024.8	35.0			
FH	(60°-80°)	17316.7	40.4			G5
FVH	(80°-90°)	1179.6	2.8			G5
BL	(0°-30°)	1573.6	3.7	B3/2500		
BM	(30°-60°)	3057.1	7.1	B3/5000		
BH	(60°-80°)	1325.6	3.1	B3/2500		G3/2500
BVH	(80°-90°)	47.1	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°	90°
0°	5935.8	5935.8	5935.8	5935.8	5935.8	5935.8	5935.8	5935.8	5935.8	5935.8	5935.8
2.5°	6706.6	6591.4	6523.5	6355.2	6186.9	6051.0	5867.9	5746.8	5602.1	5463.3	5339.3
5°	7474.4	7288.4	7064.0	6756.8	6476.3	6189.8	5912.2	5637.6	5348.2	5082.4	4920.0
7.5°	8124.1	7855.4	7459.7	7052.1	6694.8	6349.3	6024.4	5661.2	5309.8	4893.4	4671.9
10°	8620.3	8277.7	7757.9	7223.4	6812.9	6464.5	6148.5	5841.3	5487.0	4984.9	4707.3
12.5°	8921.5	8555.3	7938.1	7312.0	6842.5	6452.6	6207.5	6071.7	5932.9	5433.8	5109.0
15°	9143.0	8747.3	8065.1	7374.0	6774.5	6296.1	6116.0	6251.8	6411.3	6092.4	5717.3
17.5°	9373.3	8956.9	8230.4	7400.6	6591.4	5992.0	5915.2	6266.6	6635.7	6621.0	6248.9
20°	9591.9	9178.4	8375.2	7382.9	6296.1	5622.8	5690.7	6139.6	6567.8	6748.0	6547.1
22.5°	9842.9	9405.8	8514.0	7315.0	5912.2	5277.3	5489.9	5938.8	6313.9	6526.5	6464.5
25°	10150.0	9692.3	8708.9	7214.6	5498.8	4990.8	5286.2	5705.5	6009.7	6157.3	6154.4
27.5°	10480.8	10034.8	8968.7	7161.4	5165.1	4787.1	5055.8	5427.9	5699.6	5803.0	5803.0
30°	10891.2	10433.5	9275.9	7102.3	4946.5	4668.9	4816.6	5106.0	5371.8	5475.2	5475.2
32.5°	11340.1	10876.5	9571.2	6960.6	4813.6	4580.3	4583.3	4766.4	5008.6	5132.6	5150.3
35°	11901.2	11408.0	9887.2	6650.5	4707.3	4477.0	4355.9	4444.5	4645.3	4793.0	4831.4
37.5°	12701.5	12105.0	10274.0	6207.5	4550.8	4317.5	4116.7	4137.4	4290.9	4453.4	4512.4
40°	13806.0	13041.1	10728.8	5746.8	4326.4	4093.1	3853.9	3845.0	3957.2	4116.7	4181.7
42.5°	15300.3	14278.5	11275.2	5306.8	4110.8	3821.4	3576.3	3561.5	3650.1	3788.9	3856.8
45°	17273.0	15861.4	11945.5	4928.8	3942.5	3555.6	3313.4	3307.5	3381.4	3502.4	3573.3
47.5°	19798.0	18061.5	12615.9	4671.9	3853.9	3345.9	3097.9	3109.7	3174.6	3283.9	3334.1
50°	23067.1	20929.0	12819.7	4542.0	3853.9	3233.7	2905.9	2965.0	3018.1	3100.8	3130.3
52.5°	26986.0	23681.4	12146.3	4423.8	3877.5	3248.5	2743.5	2870.5	2908.9	2979.7	2991.5
55°	30618.3	25031.0	10442.4	4261.4	3883.4	3340.0	2604.7	2793.7	2864.6	2891.1	2888.2
57.5°	32726.9	24567.3	8443.1	3986.8	3859.8	3402.0	2516.1	2699.2	2835.0	2852.8	2826.2
60°	32325.3	22940.1	6216.4	3777.1	3685.5	3378.4	2489.5	2554.5	2770.1	2796.6	2761.2
62.5°	29230.4	20211.4	4314.6	3614.7	3301.6	3275.1	2480.7	2327.1	2628.3	2693.3	2643.1
65°	23495.3	15911.6	3047.7	3112.6	2894.1	3050.6	2433.4	2090.8	2457.0	2545.6	2468.8
67.5°	17045.6	10767.2	2200.1	2522.0	2622.4	2687.4	2327.1	1919.6	2262.1	2380.2	2279.8
70°	10938.5	5814.8	1544.5	1665.6	2209.0	2282.8	2144.0	1766.0	2064.3	2200.1	2090.8
72.5°	7775.7	3434.5	1110.4	1166.5	1774.8	1901.8	1887.1	1594.7	1833.9	1999.3	1869.3
75°	5365.9	1893.0	750.1	832.8	1287.6	1544.5	1455.9	1370.3	1553.4	1721.7	1594.7
77.5°	3363.6	847.6	448.9	578.8	844.6	1213.7	998.2	1060.2	1210.8	1367.3	1234.4
80°	1872.3	327.8	251.0	383.9	460.7	883.0	552.2	682.2	891.9	1004.1	897.8
82.5°	407.5	41.3	112.2	165.4	180.1	513.8	292.4	395.7	561.1	552.2	478.4
85°	0.0	0.0	20.7	23.6	11.8	221.5	106.3	129.9	183.1	171.3	129.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	0.0
90°	0.0	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	5935.8	5935.8	5935.8	5935.8	5935.8	5935.8	5935.8	5935.8	5935.8	5935.8	5935.8
2.5°	5315.7	5171.0	5064.7	5011.5	4967.2	5008.6	5032.2	5032.2	5132.6	5191.7	5215.3
5°	4816.6	4556.7	4358.9	4226.0	4146.2	4172.8	4202.3	4234.8	4361.8	4447.5	4503.6
7.5°	4471.1	4072.4	3771.2	3585.1	3487.7	3502.4	3523.1	3549.7	3673.7	3759.4	3833.2
10°	4406.1	3833.2	3407.9	3162.8	3044.7	3024.0	3012.2	3003.4	3077.2	3142.2	3201.2
12.5°	4671.9	3845.0	3251.4	2953.2	2808.5	2746.4	2675.6	2619.5	2631.3	2672.6	2746.4
15°	5147.4	3995.6	3201.2	2843.9	2663.7	2560.4	2477.7	2409.8	2395.0	2409.8	2421.6
17.5°	5690.7	4199.4	3195.3	2749.4	2524.9	2418.6	2350.7	2288.7	2268.0	2271.0	2285.7
20°	6051.0	4361.8	3177.6	2643.1	2392.1	2297.6	2238.5	2176.5	2155.8	2161.7	2164.7
22.5°	6086.5	4447.5	3151.0	2524.9	2259.2	2179.4	2120.4	2064.3	2061.3	2061.3	2079.0
25°	5894.5	4447.5	3094.9	2418.6	2132.2	2061.3	2008.1	1940.2	1952.0	1957.9	1981.6
27.5°	5596.2	4341.1	2988.6	2333.0	2022.9	1949.1	1895.9	1833.9	1848.7	1857.5	1884.1
30°	5300.9	4205.3	2861.6	2235.5	1919.6	1833.9	1795.5	1742.4	1748.3	1760.1	1789.6
32.5°	5026.3	4060.6	2711.0	2155.8	1816.2	1730.6	1701.0	1642.0	1650.8	1662.6	1695.1
35°	4754.6	3901.1	2533.8	2061.3	1721.7	1636.0	1612.4	1544.5	1550.4	1568.1	1603.6
37.5°	4462.2	3732.8	2389.1	1966.8	1630.1	1541.5	1517.9	1447.0	1453.0	1473.6	1515.0
40°	4155.1	3567.4	2247.4	1866.4	1532.7	1444.1	1423.4	1346.6	1352.5	1376.2	1420.5
42.5°	3845.0	3387.3	2138.1	1736.5	1432.3	1337.8	1317.1	1246.2	1255.1	1281.7	1326.0
45°	3558.6	3171.7	2067.2	1591.8	1337.8	1231.5	1210.8	1145.8	1163.5	1193.1	1237.4
47.5°	3313.4	2950.2	2037.7	1470.7	1237.4	1122.2	1104.5	1051.3	1080.9	1113.3	1148.8
50°	3103.8	2737.6	1999.3	1346.6	1142.9	1027.7	1010.0	974.5	1012.9	1045.4	1077.9
52.5°	2953.2	2495.4	1916.6	1234.4	1060.2	948.0	942.1	924.3	959.8	989.3	1018.8
55°	2823.2	2244.4	1783.7	1137.0	986.4	880.0	885.9	877.1	906.6	930.2	956.8
57.5°	2705.1	2025.9	1615.4	1060.2	906.6	821.0	838.7	826.9	841.6	856.4	888.9
60°	2563.3	1804.4	1414.6	974.5	812.1	761.9	782.6	750.1	747.1	753.1	761.9
62.5°	2353.7	1506.1	1204.9	868.2	729.4	696.9	705.8	643.8	596.5	596.5	605.4
65°	2061.3	1210.8	1010.0	750.1	634.9	608.4	602.4	513.8	448.9	443.0	469.6
67.5°	1721.7	995.2	838.7	632.0	528.6	510.9	516.8	451.8	386.9	381.0	410.5
70°	1402.7	823.9	676.3	505.0	407.5	425.3	451.8	386.9	324.8	316.0	342.6
72.5°	1139.9	655.6	528.6	386.9	301.2	351.4	383.9	316.0	256.9	251.0	274.6
75°	880.0	481.4	378.0	262.8	218.5	271.7	301.2	230.3	183.1	174.2	194.9
77.5°	587.7	298.3	212.6	165.4	129.9	186.0	200.8	121.1	106.3	103.4	118.1
80°	357.3	138.8	91.5	79.7	44.3	67.9	79.7	50.2	56.1	59.1	70.9
82.5°	180.1	38.4	14.8	3.0	0.0	0.0	23.6	11.8	23.6	29.5	44.3
85°	14.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	14.8	26.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.8
90°	0.0	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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	5935.8	5935.8	5935.8	5935.8	5935.8	5935.8	5935.8	5935.8	5935.8	5935.8	5935.8
2.5°	5380.7	5504.7	5622.8	5811.8	6006.7	6198.7	6393.6	6582.6	6650.5	6700.7	6812.9
5°	4760.5	4993.8	5265.5	5640.5	6042.2	6455.6	6875.0	7258.9	7433.1	7551.2	7817.0
7.5°	4119.7	4423.8	4813.6	5377.7	6006.7	6665.3	7323.8	7929.2	8209.8	8437.2	8841.8
10°	3484.7	3815.5	4308.7	4952.4	5803.0	6748.0	7657.5	8490.3	8853.6	9140.0	9689.3
12.5°	2926.6	3236.7	3753.5	4465.2	5484.0	6683.0	7849.5	8850.6	9278.8	9600.7	10203.2
15°	2533.8	2752.3	3210.1	3977.9	5106.0	6473.3	7861.3	9021.9	9491.4	9828.1	10350.8
17.5°	2315.3	2389.1	2687.4	3481.8	4686.7	6198.7	7752.0	9081.0	9583.0	9896.0	10259.3
20°	2197.1	2209.0	2291.7	2838.0	4149.2	5941.8	7648.7	9140.0	9668.6	9931.5	10040.7
22.5°	2102.6	2102.6	2123.3	2321.2	3455.2	5634.6	7616.2	9243.4	9786.8	9949.2	9724.7
25°	2017.0	2017.0	2022.9	2076.1	2737.6	5165.1	7595.5	9402.9	9949.2	9993.5	9376.3
27.5°	1928.4	1931.4	1931.4	1960.9	2206.0	4527.2	7506.9	9609.6	10144.1	10052.5	9042.6
30°	1839.8	1845.7	1845.7	1866.4	1952.0	3780.0	7332.7	9857.6	10398.1	10129.3	8711.8
32.5°	1751.2	1757.1	1757.1	1774.8	1836.9	3018.1	7114.2	10085.0	10655.0	10161.8	8404.7
35°	1659.7	1668.5	1662.6	1686.3	1751.2	2400.9	6836.6	10312.4	10932.6	10265.2	8254.1
37.5°	1568.1	1574.0	1571.1	1594.7	1668.5	2073.1	6514.7	10483.7	11310.6	10495.5	8434.2
40°	1476.6	1473.6	1473.6	1500.2	1579.9	1978.6	6110.1	10755.4	11854.0	10900.1	9219.8
42.5°	1382.1	1382.1	1376.2	1405.7	1503.2	1907.7	5723.2	11242.7	12645.4	11543.9	10613.6
45°	1296.4	1293.5	1281.7	1308.2	1429.3	1783.7	5587.4	12152.2	13814.9	12586.4	12299.9
47.5°	1213.7	1210.8	1181.3	1204.9	1340.7	1671.5	6095.3	13640.6	15436.2	14119.0	13879.8
50°	1139.9	1142.9	1086.8	1107.4	1252.1	1585.8	7196.8	15572.0	17589.0	16183.3	15377.1
52.5°	1072.0	1072.0	998.2	1010.0	1142.9	1509.1	8245.2	17665.8	20429.9	19062.6	17122.4
55°	1004.1	998.2	915.5	921.4	1033.6	1399.8	8401.7	19709.4	24304.5	23394.9	19508.6
57.5°	927.3	915.5	838.7	838.7	933.2	1320.1	7282.5	21280.5	29112.2	29761.9	22949.0
60°	832.8	823.9	773.7	759.0	853.5	1390.9	5138.5	21463.5	32213.0	38228.6	29537.5
62.5°	711.7	723.5	696.9	676.3	776.7	1444.1	3044.7	19989.9	31462.9	40921.9	37428.3
65°	561.1	608.4	602.4	587.7	853.5	1216.7	1798.5	17160.8	29162.4	38748.4	35818.8
67.5°	478.4	510.9	502.0	502.0	894.8	924.3	1131.1	13407.3	25996.6	36170.3	31994.5
70°	407.5	440.0	407.5	407.5	676.3	561.1	782.6	9361.5	22579.8	33317.5	29484.3
72.5°	336.7	369.1	333.7	310.1	540.4	419.3	572.9	5850.2	19337.3	30346.6	27765.6
75°	256.9	295.3	268.7	239.2	357.3	313.0	434.1	3399.1	16020.9	25964.2	25317.4
77.5°	162.4	212.6	200.8	168.3	262.8	227.4	313.0	2022.9	12361.9	20288.2	21776.6
80°	100.4	109.3	112.2	106.3	150.6	153.6	212.6	1151.7	8460.8	14139.7	17013.1
82.5°	65.0	65.0	50.2	56.1	73.8	88.6	121.1	434.1	4973.1	8608.5	11842.2
85°	47.3	41.3	26.6	26.6	35.4	44.3	47.3	132.9	2017.0	3399.1	4630.6
87.5°	23.6	20.7	8.9	11.8	17.7	14.8	11.8	5.9	507.9	1086.8	761.9
90°	0.0	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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	5935.8	5935.8	5935.8	5935.8	5935.8	5935.8	5935.8	5935.8
2.5°	6872.0	6963.5	6969.5	6969.5	6889.7	6886.8	6724.3	6706.6
5°	8091.7	8150.7	8165.5	8135.9	7976.5	7858.4	7542.4	7474.4
7.5°	9207.9	9326.1	9326.1	9255.2	8995.3	8753.2	8295.4	8124.1
10°	10099.8	10235.6	10206.1	10061.4	9733.6	9399.9	8844.7	8620.3
12.5°	10533.9	10672.7	10595.9	10430.6	10111.6	9760.2	9175.5	8921.5
15°	10525.1	10486.7	10406.9	10386.3	10232.7	9966.9	9420.6	9143.0
17.5°	10150.0	9825.2	9763.1	9969.9	10164.8	10099.8	9633.2	9373.3
20°	9556.4	8989.4	8933.3	9329.0	9884.2	10167.7	9831.1	9591.9
22.5°	8930.3	8319.0	8189.1	8626.2	9461.9	10188.4	10082.1	9842.9
25°	8336.8	7722.5	7592.6	8000.1	8992.4	10153.0	10353.8	10150.0
27.5°	7840.6	7247.0	7126.0	7533.5	8540.5	10052.5	10625.5	10480.8
30°	7456.7	6907.4	6818.8	7211.6	8150.7	9928.5	10971.0	10891.2
32.5°	7232.3	6830.7	6863.1	7185.0	7941.0	9792.7	11301.7	11340.1
35°	7453.8	7471.5	7755.0	7887.9	8135.9	9772.0	11750.6	11901.2
37.5°	8555.3	9169.6	9757.2	9648.0	9089.8	10011.2	12421.0	12701.5
40°	10430.6	11691.6	12645.4	12229.0	10823.3	10743.6	13386.7	13806.0
42.5°	12722.2	14860.3	16431.4	15315.1	13058.9	12025.3	14765.8	15300.3
45°	15140.8	18767.3	21242.1	18920.9	15442.1	13820.8	16853.7	17273.0
47.5°	17689.4	23516.0	26717.2	22919.5	17651.0	15864.4	19700.5	19798.0
50°	20477.2	28722.4	32298.7	26915.1	19783.2	18206.2	23179.3	23067.1
52.5°	23132.1	34076.5	37762.0	30928.4	21655.5	21112.1	27216.3	26986.0
55°	25665.9	39427.6	43257.8	34785.2	23421.5	24951.2	32012.2	30618.3
57.5°	28604.3	44238.3	48922.0	38659.8	25890.3	29936.2	37375.2	32726.9
60°	32948.4	49704.6	55327.4	43969.6	30585.9	35175.1	39297.7	32325.3
62.5°	38494.4	54730.9	59984.5	49173.0	35302.0	36161.4	36465.6	29230.4
65°	39572.3	56003.7	60247.4	50564.0	34693.7	30674.4	29770.8	23495.3
67.5°	36713.7	53703.2	56573.6	47974.0	30689.2	23705.0	22340.6	17045.6
70°	33506.5	49317.7	50171.2	43570.9	26991.9	17435.4	15087.7	10938.5
72.5°	30219.7	43467.5	41701.5	37838.8	23722.7	12695.6	10882.4	7775.7
75°	26315.6	35774.5	32848.0	31439.3	19641.4	9964.0	7873.1	5365.9
77.5°	21073.7	25181.6	24399.0	24369.5	14759.9	7279.5	5253.7	3363.6
80°	14866.2	16342.8	15944.1	18353.9	9901.9	5280.2	3162.8	1872.3
82.5°	7196.8	9036.7	9275.9	10929.6	4816.6	3106.7	729.4	407.5
85°	2817.3	4358.9	3676.7	4149.2	1352.5	865.3	17.7	0.0
87.5°	316.0	505.0	463.6	366.2	165.4	35.4	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)