

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: P954480

Luminaire Tested: **GALN-SB7D-722-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954480
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-SB7D-722-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2200K, 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: 45626 lumens
Efficiency: N/A
Efficacy: 89.0 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): 512.8
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

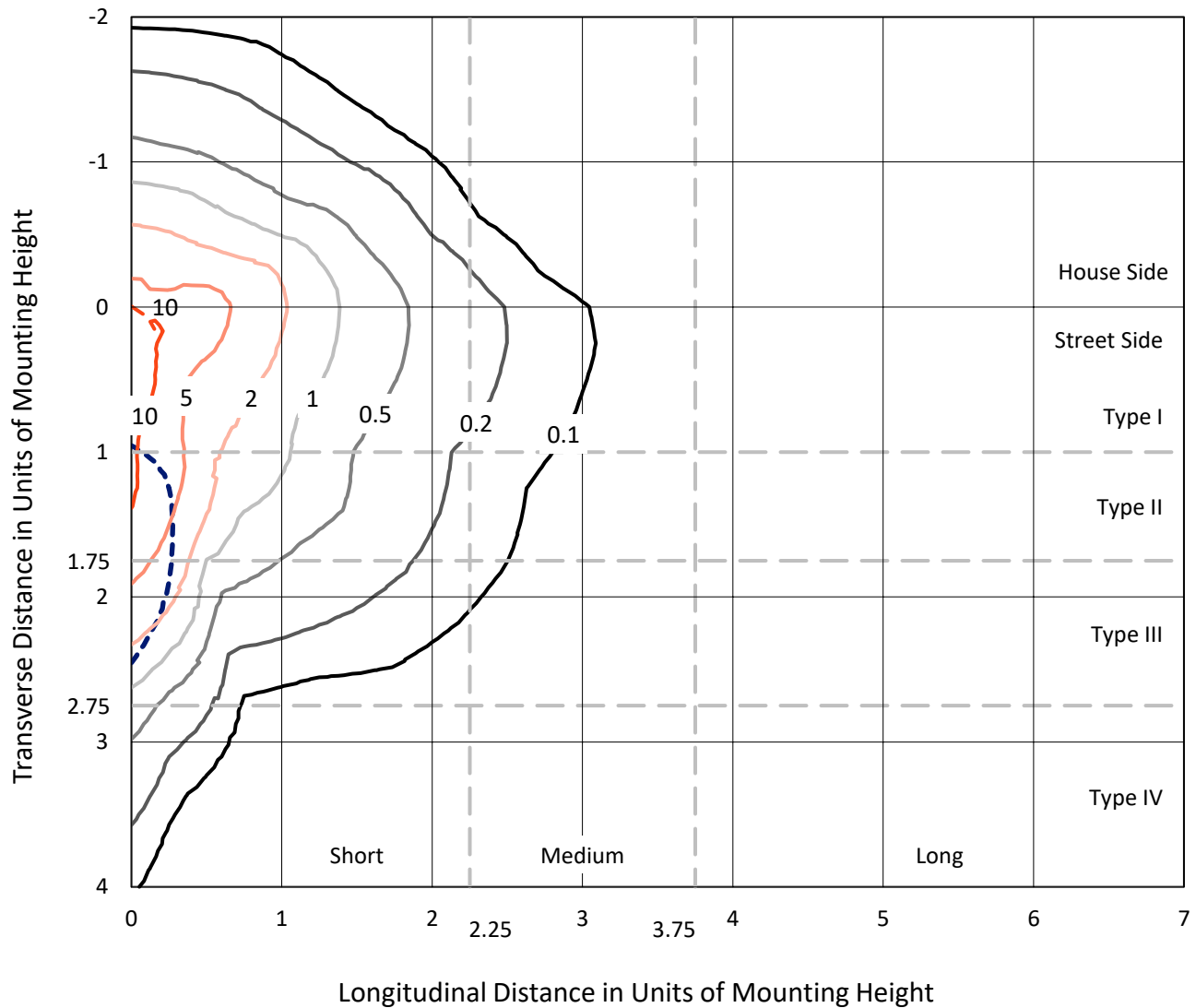


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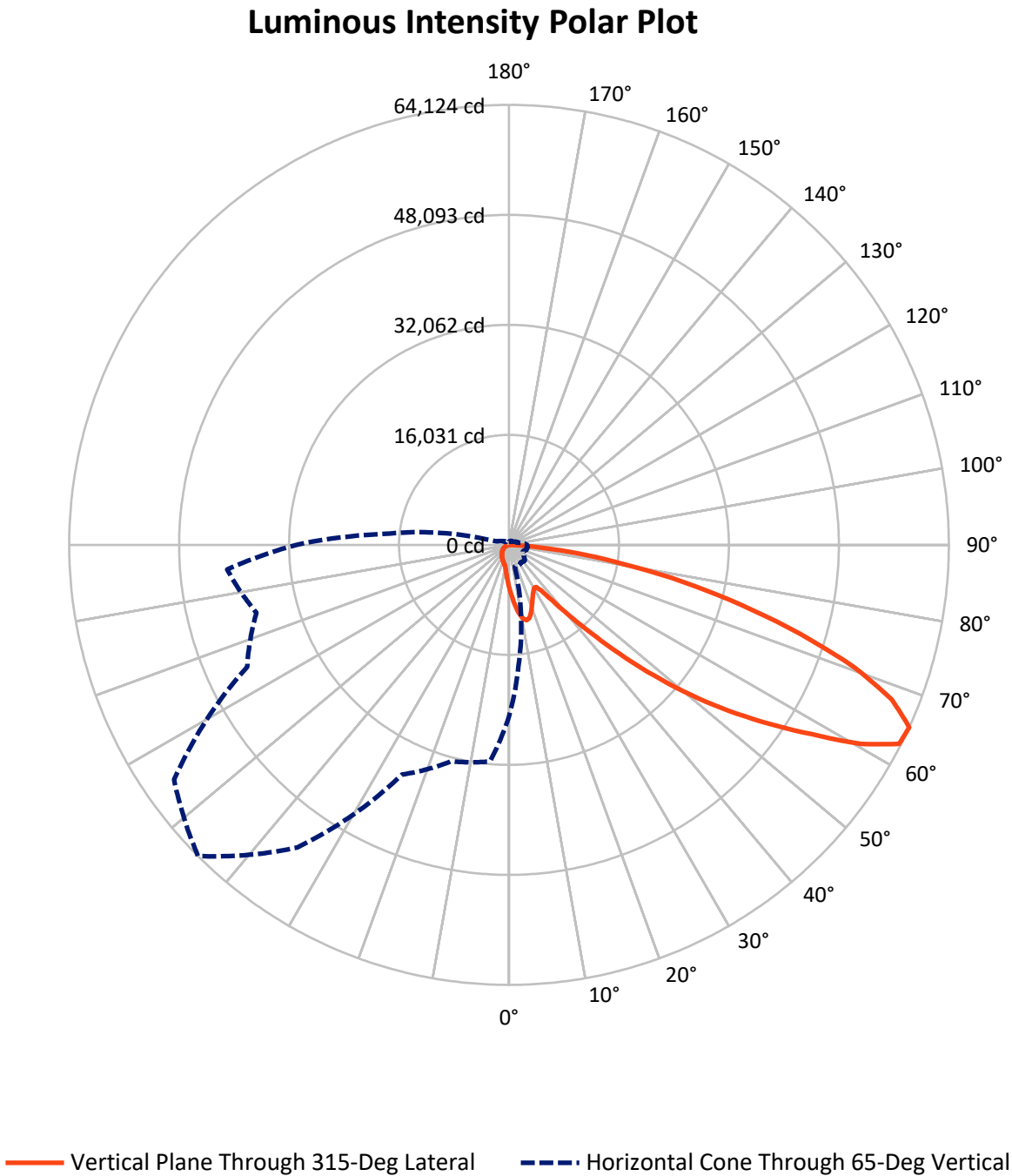
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
Type IV - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6389.6	0.0	6389.6
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	39236.4	0.0	39236.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	45626.0	0.0	45626.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	622.0	1.4
10°-20°	1864.6	4.1
20°-30°	2746.9	6.0
30°-40°	3529.0	7.7
40°-50°	5707.5	12.5
50°-60°	10008.6	21.9
60°-70°	12523.5	27.4
70°-80°	7318.2	16.0
80°-90°	1305.7	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°	45626.0	100.0
0°-180°	45626.0	100.0

Coefficient of Utilization



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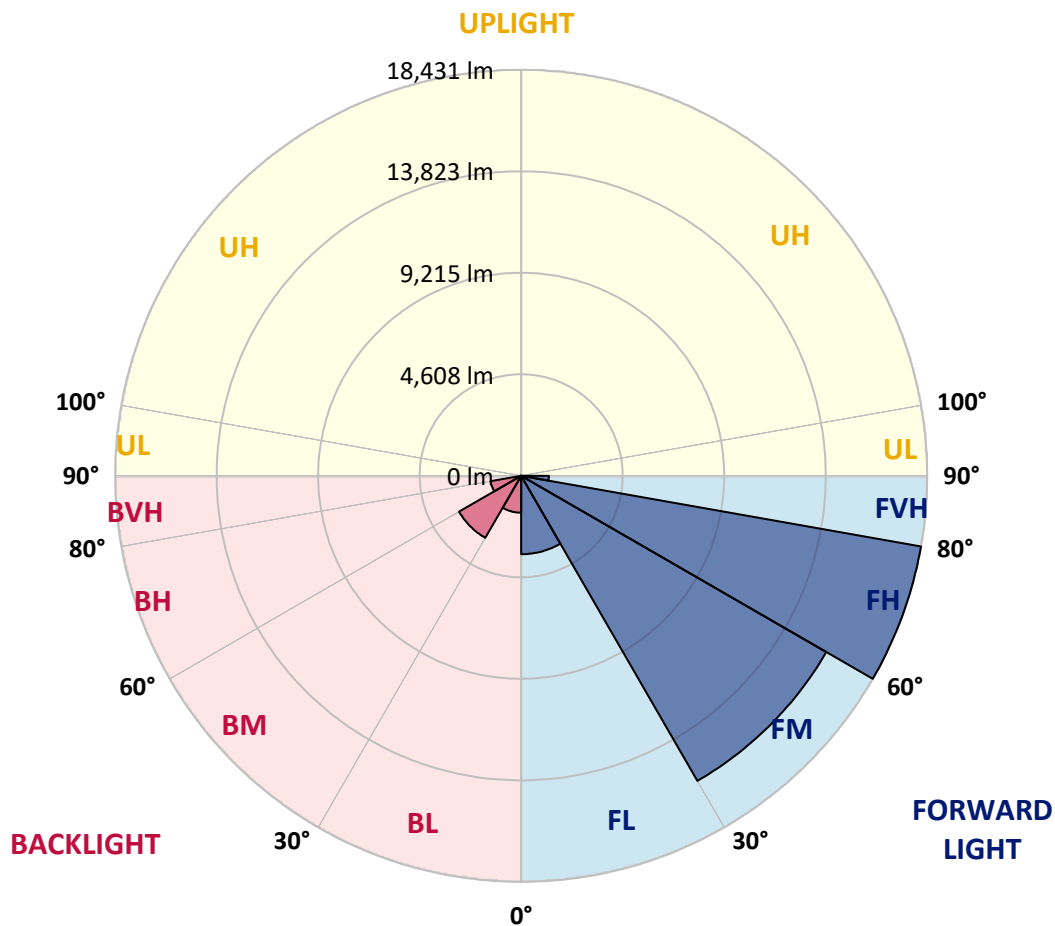
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3558.7	7.8			
FM	(30°-60°)	15991.4	35.0			
FH	(60°-80°)	18430.8	40.4			G5
FVH	(80°-90°)	1255.5	2.8			G5
BL	(0°-30°)	1674.8	3.7	B3/2500		
BM	(30°-60°)	3253.7	7.1	B3/5000		
BH	(60°-80°)	1410.9	3.1	B3/2500		G3/2500
BVH	(80°-90°)	50.2	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°	6317.7	6317.7	6317.7	6317.7	6317.7	6317.7	6317.7	6317.7	6317.7	6317.7	6317.7
2.5°	7138.1	7015.5	6943.2	6764.1	6584.9	6440.3	6245.4	6116.6	5962.6	5814.8	5682.8
5°	7955.3	7757.3	7518.4	7191.5	6892.9	6588.1	6292.6	6000.3	5692.3	5409.4	5236.5
7.5°	8646.8	8360.8	7939.6	7505.9	7125.5	6757.8	6412.0	6025.4	5651.4	5208.2	4972.5
10°	9174.9	8810.3	8257.1	7688.2	7251.3	6880.4	6544.0	6217.2	5840.0	5305.6	5010.2
12.5°	9495.5	9105.7	8448.8	7782.5	7282.7	6867.8	6606.9	6462.3	6314.6	5783.4	5437.7
15°	9731.2	9310.0	8584.0	7848.5	7210.4	6701.2	6509.5	6654.1	6823.8	6484.3	6085.1
17.5°	9976.4	9533.2	8760.0	7876.7	7015.5	6377.5	6295.7	6669.8	7062.7	7047.0	6650.9
20°	10209.0	9768.9	8914.0	7857.9	6701.2	5984.6	6056.9	6534.6	6990.4	7182.1	6968.4
22.5°	10476.1	10010.9	9061.7	7785.6	6292.6	5616.8	5843.1	6320.9	6720.1	6946.4	6880.4
25°	10803.0	10315.8	9269.2	7678.7	5852.6	5311.9	5626.2	6072.6	6396.3	6553.5	6550.3
27.5°	11155.1	10680.4	9545.8	7622.2	5497.4	5095.1	5381.1	5777.1	6066.3	6176.3	6176.3
30°	11592.0	11104.8	9872.6	7559.3	5264.8	4969.3	5126.5	5434.5	5717.4	5827.4	5827.4
32.5°	12069.7	11576.2	10187.0	7408.4	5123.3	4875.0	4878.2	5073.1	5330.8	5462.8	5481.7
35°	12666.9	12142.0	10523.3	7078.4	5010.2	4765.0	4636.2	4730.4	4944.2	5101.3	5142.2
37.5°	13518.7	12883.8	10935.0	6606.9	4843.6	4595.3	4381.6	4403.6	4567.0	4739.9	4802.7
40°	14694.2	13880.2	11419.1	6116.6	4604.7	4356.4	4101.8	4092.4	4211.8	4381.6	4450.7
42.5°	16284.7	15197.2	12000.6	5648.2	4375.3	4067.2	3806.4	3790.6	3884.9	4032.7	4105.0
45°	18384.3	16881.9	12714.1	5245.9	4196.1	3784.4	3526.6	3520.3	3598.9	3727.8	3803.2
47.5°	21071.7	19223.5	13427.6	4972.5	4101.8	3561.2	3297.2	3309.7	3378.9	3495.2	3548.6
50°	24551.2	22275.5	13644.4	4834.2	4101.8	3441.8	3092.9	3155.7	3212.3	3300.3	3331.7
52.5°	28722.1	25205.0	12927.8	4708.4	4127.0	3457.5	2920.0	3055.1	3096.0	3171.4	3184.0
55°	32588.2	26641.4	11114.2	4535.6	4133.2	3554.9	2772.3	2973.4	3048.9	3077.1	3074.0
57.5°	34832.4	26147.9	8986.3	4243.3	4108.1	3620.9	2678.0	2872.8	3017.4	3036.3	3008.0
60°	34405.0	24416.0	6616.3	4020.1	3922.7	3595.8	2649.7	2718.8	2948.3	2976.6	2938.8
62.5°	31110.9	21511.8	4592.1	3847.2	3514.0	3485.8	2640.3	2476.8	2797.4	2866.6	2813.1
65°	25006.9	16935.3	3243.7	3312.9	3080.3	3246.9	2590.0	2225.4	2615.1	2709.4	2627.7
67.5°	18142.3	11459.9	2341.7	2684.3	2791.1	2860.3	2476.8	2043.1	2407.7	2533.4	2426.5
70°	11642.2	6188.9	1643.9	1772.7	2351.1	2429.7	2281.9	1879.6	2197.1	2341.7	2225.4
72.5°	8275.9	3655.5	1181.8	1241.5	1889.0	2024.2	2008.5	1697.3	1951.9	2127.9	1989.6
75°	5711.1	2014.8	798.4	886.4	1370.4	1643.9	1549.6	1458.4	1653.3	1832.5	1697.3
77.5°	3580.1	902.1	477.8	616.1	898.9	1291.8	1062.4	1128.4	1288.7	1455.3	1313.8
80°	1992.8	348.9	267.2	408.6	490.3	939.8	587.8	726.1	949.2	1068.7	955.5
82.5°	433.8	44.0	119.4	176.0	191.7	546.9	311.2	421.2	597.2	587.8	509.2
85°	0.0	0.0	22.0	25.1	12.6	235.7	113.2	138.3	194.9	182.3	138.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	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°	6317.7	6317.7	6317.7	6317.7	6317.7	6317.7	6317.7	6317.7	6317.7	6317.7	6317.7
2.5°	5657.7	5503.7	5390.5	5333.9	5286.8	5330.8	5355.9	5355.9	5462.8	5525.7	5550.8
5°	5126.5	4849.9	4639.3	4497.9	4413.0	4441.3	4472.7	4507.3	4642.4	4733.6	4793.3
7.5°	4758.7	4334.4	4013.8	3815.8	3712.1	3727.8	3749.8	3778.1	3910.1	4001.2	4079.8
10°	4689.6	4079.8	3627.2	3366.3	3240.6	3218.6	3206.0	3196.6	3275.2	3344.3	3407.2
12.5°	4972.5	4092.4	3460.6	3143.2	2989.1	2923.1	2847.7	2788.0	2800.6	2844.6	2923.1
15°	5478.5	4252.7	3407.2	3026.9	2835.1	2725.1	2637.1	2564.8	2549.1	2564.8	2577.4
17.5°	6056.9	4469.6	3400.9	2926.3	2687.4	2574.2	2502.0	2435.9	2413.9	2417.1	2432.8
20°	6440.3	4642.4	3382.0	2813.1	2546.0	2445.4	2382.5	2316.5	2294.5	2300.8	2303.9
22.5°	6478.0	4733.6	3353.7	2687.4	2404.5	2319.6	2256.8	2197.1	2193.9	2193.9	2212.8
25°	6273.7	4733.6	3294.0	2574.2	2269.4	2193.9	2137.3	2065.1	2077.6	2083.9	2109.1
27.5°	5956.3	4620.4	3180.9	2483.1	2153.1	2074.5	2017.9	1951.9	1967.6	1977.0	2005.3
30°	5642.0	4475.9	3045.7	2379.4	2043.1	1951.9	1911.0	1854.5	1860.7	1873.3	1904.8
32.5°	5349.6	4321.8	2885.4	2294.5	1933.0	1841.9	1810.5	1747.6	1757.0	1769.6	1804.2
35°	5060.5	4152.1	2696.8	2193.9	1832.5	1741.3	1716.2	1643.9	1650.2	1669.0	1706.7
37.5°	4749.3	3972.9	2542.8	2093.3	1735.0	1640.7	1615.6	1540.1	1546.4	1568.4	1612.4
40°	4422.4	3796.9	2391.9	1986.5	1631.3	1537.0	1515.0	1433.3	1439.6	1464.7	1511.9
42.5°	4092.4	3605.2	2275.6	1848.2	1524.4	1423.8	1401.8	1326.4	1335.8	1364.1	1411.3
45°	3787.5	3375.7	2200.2	1694.2	1423.8	1310.7	1288.7	1219.5	1238.4	1269.8	1317.0
47.5°	3526.6	3140.0	2168.8	1565.3	1317.0	1194.4	1175.5	1119.0	1150.4	1185.0	1222.7
50°	3303.5	2913.7	2127.9	1433.3	1216.4	1093.8	1075.0	1037.2	1078.1	1112.7	1147.3
52.5°	3143.2	2656.0	2039.9	1313.8	1128.4	1009.0	1002.7	983.8	1021.5	1053.0	1084.4
55°	3004.9	2388.8	1898.5	1210.1	1049.8	936.7	942.9	933.5	964.9	990.1	1018.4
57.5°	2879.1	2156.2	1719.3	1128.4	964.9	873.8	892.7	880.1	895.8	911.5	946.1
60°	2728.3	1920.5	1505.6	1037.2	864.4	810.9	832.9	798.4	795.2	801.5	810.9
62.5°	2505.1	1603.0	1282.4	924.1	776.4	741.8	751.2	685.2	634.9	634.9	644.3
65°	2193.9	1288.7	1075.0	798.4	675.8	647.5	641.2	546.9	477.8	471.5	499.8
67.5°	1832.5	1059.2	892.7	672.6	562.6	543.8	550.1	480.9	411.8	405.5	436.9
70°	1493.0	876.9	719.8	537.5	433.8	452.6	480.9	411.8	345.7	336.3	364.6
72.5°	1213.3	697.8	562.6	411.8	320.6	374.0	408.6	336.3	273.5	267.2	292.3
75°	936.7	512.3	402.3	279.7	232.6	289.2	320.6	245.2	194.9	185.4	207.4
77.5°	625.5	317.5	226.3	176.0	138.3	198.0	213.7	128.9	113.2	110.0	125.7
80°	380.3	147.7	97.4	84.9	47.1	72.3	84.9	53.4	59.7	62.9	75.4
82.5°	191.7	40.9	15.7	3.1	0.0	0.0	25.1	12.6	25.1	31.4	47.1
85°	15.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	15.7	28.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.6
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°	6317.7	6317.7	6317.7	6317.7	6317.7	6317.7	6317.7	6317.7	6317.7	6317.7	6317.7
2.5°	5726.8	5858.8	5984.6	6185.7	6393.2	6597.5	6804.9	7006.1	7078.4	7131.8	7251.3
5°	5066.8	5315.1	5604.2	6003.4	6430.9	6870.9	7317.3	7725.9	7911.3	8037.0	8319.9
7.5°	4384.7	4708.4	5123.3	5723.7	6393.2	7094.1	7795.0	8439.4	8738.0	8980.0	9410.6
10°	3708.9	4061.0	4585.9	5271.1	6176.3	7182.1	8150.2	9036.6	9423.2	9728.1	10312.7
12.5°	3114.9	3444.9	3994.9	4752.5	5836.8	7113.0	8354.5	9420.0	9875.8	10218.4	10859.6
15°	2696.8	2929.4	3416.6	4233.8	5434.5	6889.8	8367.1	9602.3	10102.1	10460.4	11016.8
17.5°	2464.2	2542.8	2860.3	3705.8	4988.2	6597.5	8250.8	9665.2	10199.5	10532.7	10919.3
20°	2338.5	2351.1	2439.1	3020.6	4416.1	6324.0	8140.8	9728.1	10290.7	10570.4	10686.7
22.5°	2237.9	2237.9	2259.9	2470.5	3677.5	5997.1	8106.2	9838.1	10416.4	10589.3	10350.4
25°	2146.8	2146.8	2153.1	2209.6	2913.7	5497.4	8084.2	10007.8	10589.3	10636.4	9979.5
27.5°	2052.5	2055.6	2055.6	2087.1	2347.9	4818.5	7989.9	10227.8	10796.7	10699.3	9624.3
30°	1958.2	1964.5	1964.5	1986.5	2077.6	4023.2	7804.5	10491.9	11067.0	10781.0	9272.3
32.5°	1863.9	1870.2	1870.2	1889.0	1955.0	3212.3	7571.9	10733.9	11340.5	10815.6	8945.4
35°	1766.5	1775.9	1769.6	1794.7	1863.9	2555.4	7276.4	10975.9	11636.0	10925.6	8785.1
37.5°	1669.0	1675.3	1672.2	1697.3	1775.9	2206.5	6933.8	11158.2	12038.3	11170.8	8976.9
40°	1571.6	1568.4	1568.4	1596.7	1681.6	2105.9	6503.2	11447.4	12616.6	11601.4	9812.9
42.5°	1471.0	1471.0	1464.7	1496.1	1599.9	2030.5	6091.4	11966.0	13459.0	12286.6	11296.5
45°	1379.8	1376.7	1364.1	1392.4	1521.3	1898.5	5946.8	12934.1	14703.7	13396.1	13091.2
47.5°	1291.8	1288.7	1257.3	1282.4	1427.0	1779.0	6487.5	14518.2	16429.3	15027.4	14772.8
50°	1213.3	1216.4	1156.7	1178.7	1332.7	1687.9	7659.9	16573.9	18720.6	17224.5	16366.4
52.5°	1141.0	1141.0	1062.4	1075.0	1216.4	1606.2	8775.7	18802.4	21744.3	20289.1	18224.0
55°	1068.7	1062.4	974.4	980.7	1100.1	1489.9	8942.3	20977.4	25868.2	24900.1	20763.7
57.5°	987.0	974.4	892.7	892.7	993.2	1405.0	7751.0	22649.6	30985.2	31676.7	24425.5
60°	886.4	876.9	823.5	807.8	908.4	1480.4	5469.1	22844.4	34285.5	40688.1	31437.8
62.5°	757.5	770.1	741.8	719.8	826.6	1537.0	3240.6	21276.0	33487.2	43554.7	39836.3
65°	597.2	647.5	641.2	625.5	908.4	1295.0	1914.2	18264.9	31038.7	41241.3	38123.3
67.5°	509.2	543.8	534.3	534.3	952.4	983.8	1203.8	14269.9	27669.2	38497.4	34052.9
70°	433.8	468.3	433.8	433.8	719.8	597.2	832.9	9963.8	24032.6	35461.1	31381.3
72.5°	358.3	392.9	355.2	330.0	575.2	446.3	609.8	6226.6	20581.4	32299.1	29551.9
75°	273.5	314.3	286.0	254.6	380.3	333.2	462.0	3617.8	17051.6	27634.6	26946.3
77.5°	172.9	226.3	213.7	179.2	279.7	242.0	333.2	2153.1	13157.2	21593.5	23177.6
80°	106.9	116.3	119.4	113.2	160.3	163.4	226.3	1225.8	9005.1	15049.4	18107.7
82.5°	69.1	69.1	53.4	59.7	78.6	94.3	128.9	462.0	5293.1	9162.3	12604.1
85°	50.3	44.0	28.3	28.3	37.7	47.1	50.3	141.4	2146.8	3617.8	4928.5
87.5°	25.1	22.0	9.4	12.6	18.9	15.7	12.6	6.3	540.6	1156.7	810.9
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°	6317.7	6317.7	6317.7	6317.7	6317.7	6317.7	6317.7	6317.7
2.5°	7314.1	7411.6	7417.8	7417.8	7333.0	7329.8	7157.0	7138.1
5°	8612.2	8675.1	8690.8	8659.4	8489.7	8363.9	8027.6	7955.3
7.5°	9800.4	9926.1	9926.1	9850.6	9574.0	9316.3	8829.1	8646.8
10°	10749.6	10894.2	10862.7	10708.7	10359.8	10004.7	9413.7	9174.9
12.5°	11211.6	11359.4	11277.6	11101.6	10762.2	10388.1	9765.8	9495.5
15°	11202.2	11161.3	11076.5	11054.5	10891.0	10608.1	10026.7	9731.2
17.5°	10803.0	10457.3	10391.3	10611.3	10818.7	10749.6	10253.0	9976.4
20°	10171.2	9567.8	9508.0	9929.2	10520.1	10821.9	10463.6	10209.0
22.5°	9504.9	8854.3	8716.0	9181.2	10070.7	10843.9	10730.7	10476.1
25°	8873.1	8219.3	8081.1	8514.8	9570.9	10806.2	11019.9	10803.0
27.5°	8345.1	7713.3	7584.4	8018.2	9090.0	10699.3	11309.1	11155.1
30°	7936.5	7351.8	7257.5	7675.6	8675.1	10567.3	11676.8	11592.0
32.5°	7697.6	7270.1	7304.7	7647.3	8451.9	10422.7	12028.9	12069.7
35°	7933.3	7952.2	8253.9	8395.4	8659.4	10400.7	12506.6	12666.9
37.5°	9105.7	9759.5	10385.0	10268.7	9674.6	10655.3	13220.1	13518.7
40°	11101.6	12443.7	13459.0	13015.8	11519.7	11434.8	14247.9	14694.2
42.5°	13540.7	15816.4	17488.5	16300.4	13899.0	12798.9	15715.8	16284.7
45°	16115.0	19974.7	22608.7	20138.2	16435.6	14710.0	17938.0	18384.3
47.5°	18827.5	25028.9	28436.1	24394.0	18786.6	16885.0	20968.0	21071.7
50°	21794.6	30570.3	34376.7	28646.7	21056.0	19377.5	24670.6	24551.2
52.5°	24620.3	36268.9	40191.5	32918.3	23048.8	22470.4	28967.3	28722.1
55°	27317.2	41964.3	46040.9	37023.2	24928.4	26556.5	34071.8	32588.2
57.5°	30444.6	47084.5	52069.5	41147.0	27556.0	31862.2	39779.8	34832.4
60°	35068.2	52902.4	58887.0	46798.4	32553.7	37438.1	41826.0	34405.0
62.5°	40971.0	58252.1	63843.8	52336.7	37573.3	38487.9	38811.7	31110.9
65°	42118.3	59606.8	64123.5	53817.1	36925.8	32647.9	31686.1	25006.9
67.5°	39075.7	57158.3	60213.4	51060.5	32663.7	25230.1	23778.0	18142.3
70°	35662.2	52490.7	53399.1	46374.1	28728.4	18557.2	16058.4	11642.2
72.5°	32163.9	46264.1	44384.5	40273.2	25249.0	13512.4	11582.5	8275.9
75°	28008.7	38076.2	34961.3	33462.0	20905.1	10605.0	8379.7	5711.1
77.5°	22429.6	26801.7	25968.7	25937.3	15709.5	7747.9	5591.7	3580.1
80°	15822.6	17394.2	16969.9	19534.7	10539.0	5620.0	3366.3	1992.8
82.5°	7659.9	9618.1	9872.6	11632.8	5126.5	3306.6	776.4	433.8
85°	2998.6	4639.3	3913.2	4416.1	1439.6	920.9	18.9	0.0
87.5°	336.3	537.5	493.5	389.8	176.0	37.7	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)