

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: P951645

Luminaire Tested: **GALN-SB5D-727-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951645
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-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 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: 36388 lumens
Efficiency: N/A
Efficacy: 99.7 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

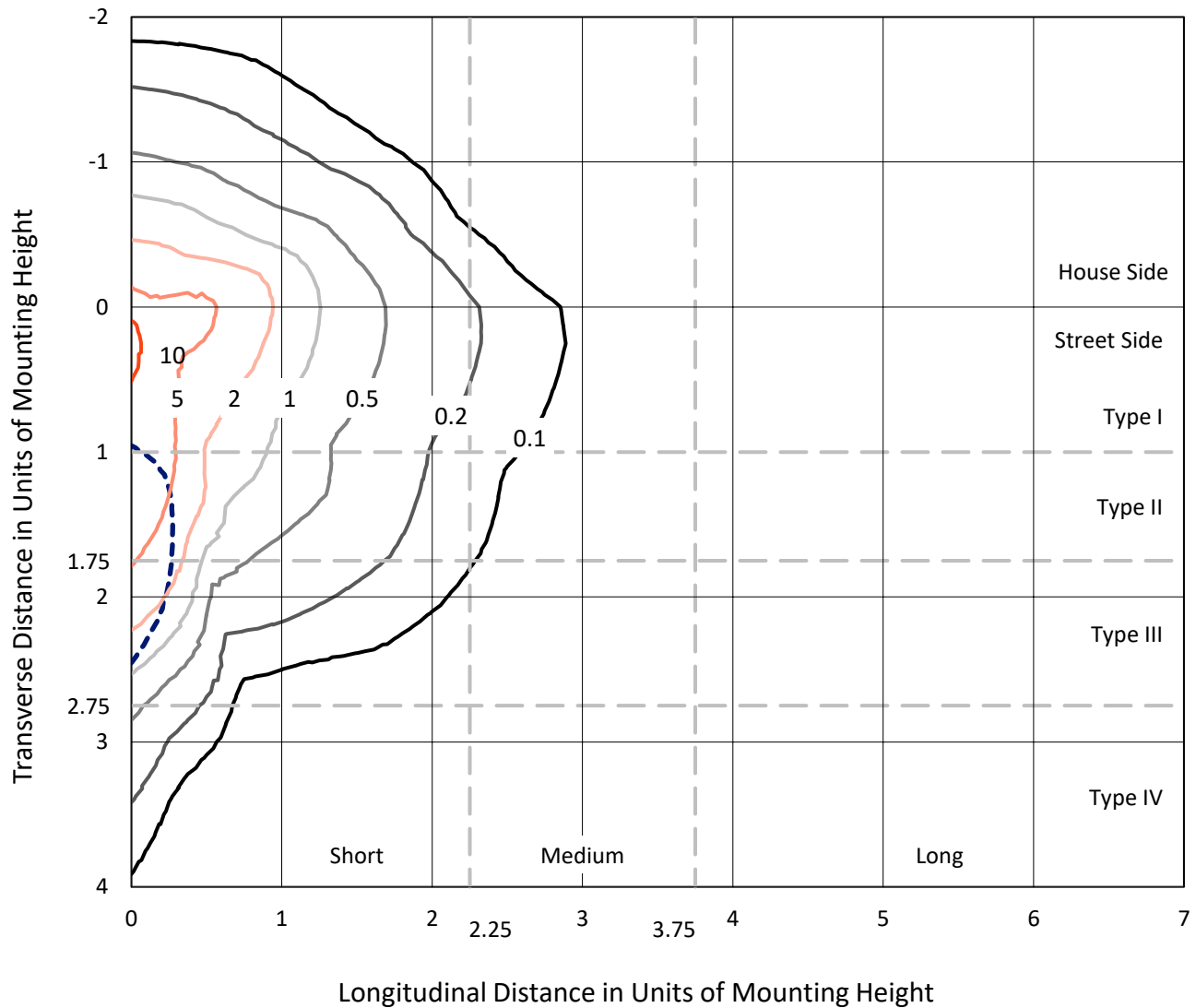


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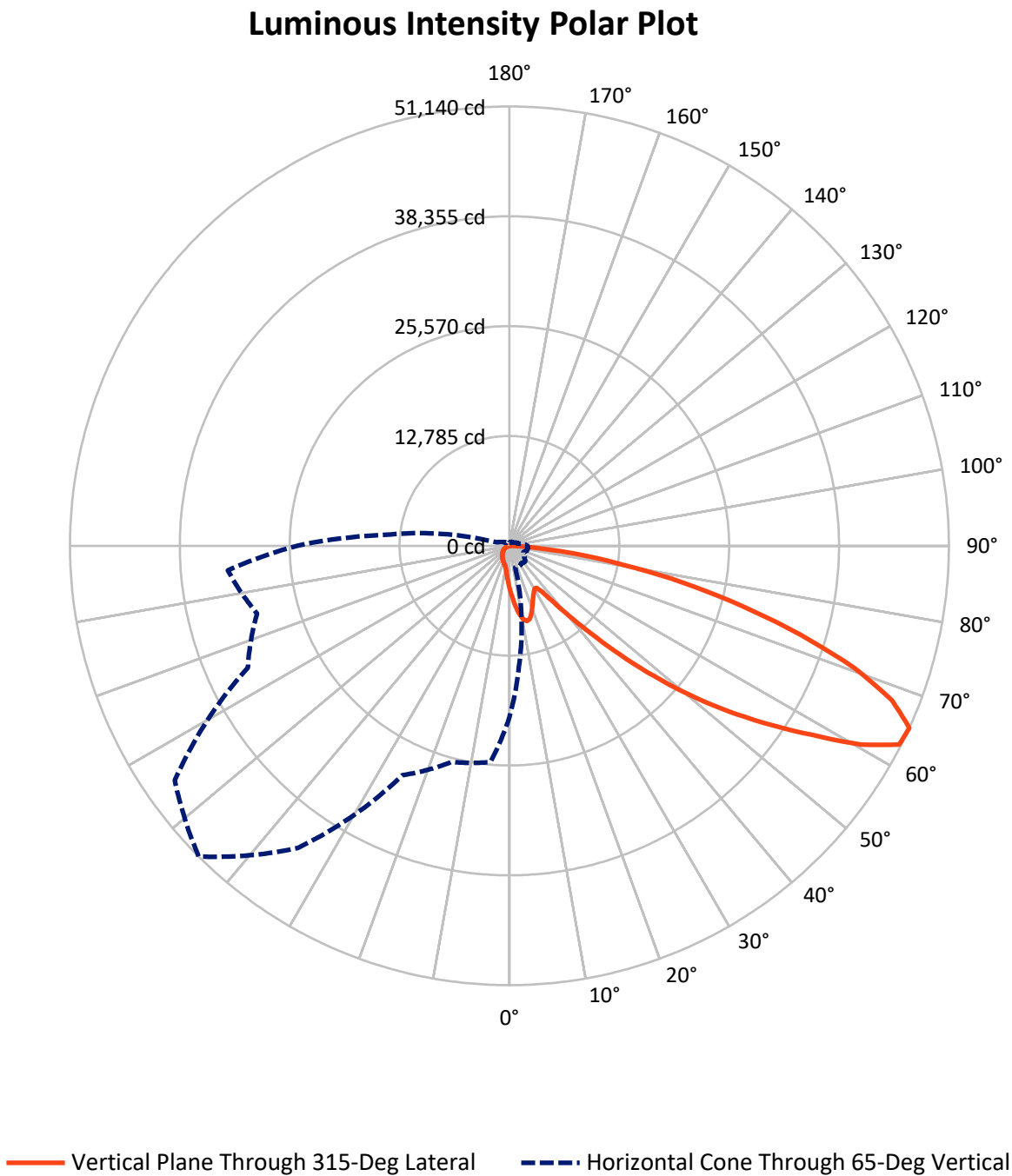
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
Type IV - Short - N/A

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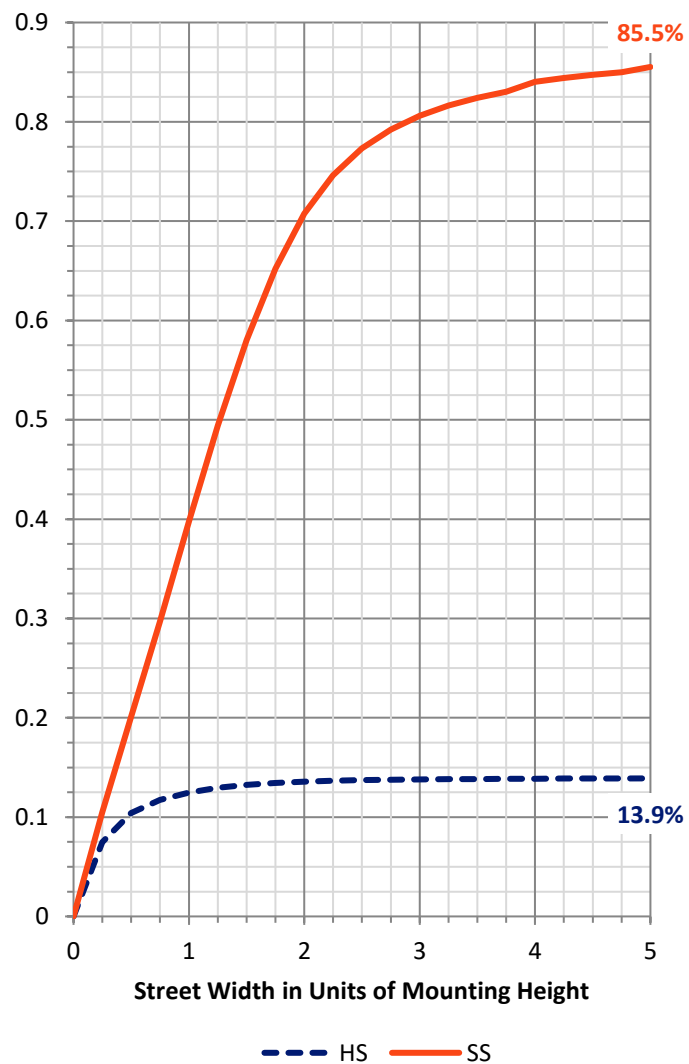
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5095.9	0.0	5095.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	31292.1	0.0	31292.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	36388.0	0.0	36388.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.1	1.4
10°-20°	1487.1	4.1
20°-30°	2190.7	6.0
30°-40°	2814.5	7.7
40°-50°	4551.9	12.5
50°-60°	7982.2	21.9
60°-70°	9987.9	27.4
70°-80°	5836.4	16.0
80°-90°	1041.3	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°	36388.0	100.0
0°-180°	36388.0	100.0

Coefficient of Utilization



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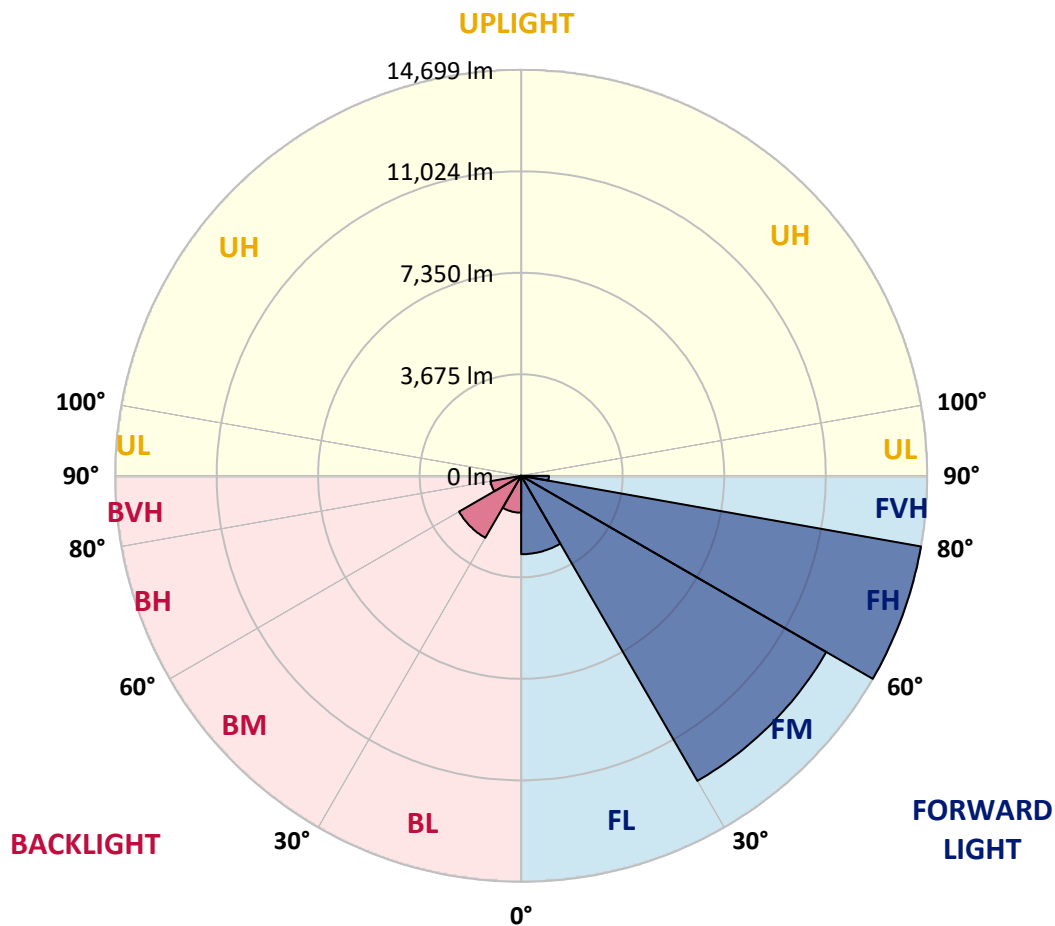
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2838.1	7.8			
FM	(30°-60°)	12753.6	35.0			
FH	(60°-80°)	14699.1	40.4			G5
FVH	(80°-90°)	1001.3	2.8			G5
BL	(0°-30°)	1335.7	3.7	B3/2500		
BM	(30°-60°)	2594.9	7.1	B3/5000		
BH	(60°-80°)	1125.2	3.1	B3/2500		G3/2500
BVH	(80°-90°)	40.0	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°	5038.6	5038.6	5038.6	5038.6	5038.6	5038.6	5038.6	5038.6	5038.6	5038.6	5038.6
2.5°	5692.8	5595.1	5537.4	5394.5	5251.6	5136.3	4980.9	4878.1	4755.3	4637.5	4532.2
5°	6344.6	6186.7	5996.2	5735.5	5497.3	5254.2	5018.5	4785.4	4539.7	4314.1	4176.3
7.5°	6896.1	6668.0	6332.1	5986.1	5682.8	5389.5	5113.8	4805.4	4507.1	4153.7	3965.7
10°	7317.2	7026.4	6585.2	6131.5	5783.1	5487.3	5219.1	4958.4	4657.5	4231.4	3995.8
12.5°	7572.9	7262.1	6738.2	6206.7	5808.1	5477.3	5269.2	5153.9	5036.1	4612.4	4336.7
15°	7760.9	7425.0	6845.9	6259.4	5750.5	5344.4	5191.5	5306.8	5442.2	5171.4	4853.1
17.5°	7956.4	7603.0	6986.3	6281.9	5595.1	5086.2	5021.0	5319.3	5632.7	5620.1	5304.3
20°	8141.9	7791.0	7109.2	6266.9	5344.4	4772.9	4830.5	5211.5	5575.0	5727.9	5557.5
22.5°	8355.0	7984.0	7227.0	6209.2	5018.5	4479.6	4660.1	5041.1	5359.4	5539.9	5487.3
25°	8615.7	8227.2	7392.4	6124.0	4667.6	4236.4	4487.1	4843.0	5101.2	5226.6	5224.1
27.5°	8896.5	8517.9	7613.0	6078.9	4384.3	4063.4	4291.6	4607.4	4838.0	4925.8	4925.8
30°	9244.9	8856.4	7873.7	6028.7	4198.8	3963.2	4088.5	4334.2	4559.8	4647.5	4647.5
32.5°	9625.9	9232.4	8124.4	5908.4	4086.0	3888.0	3890.5	4045.9	4251.5	4356.7	4371.8
35°	10102.2	9683.6	8392.6	5645.2	3995.8	3800.2	3697.5	3772.7	3943.1	4068.5	4101.0
37.5°	10781.5	10275.2	8721.0	5269.2	3862.9	3664.9	3494.4	3512.0	3642.3	3780.2	3830.3
40°	11719.1	11069.8	9107.0	4878.1	3672.4	3474.4	3271.3	3263.8	3359.0	3494.4	3549.6
42.5°	12987.5	12120.2	9570.8	4504.6	3489.4	3243.7	3035.7	3023.1	3098.3	3216.2	3273.8
45°	14662.0	13463.8	10139.8	4183.8	3346.5	3018.1	2812.6	2807.6	2870.2	2973.0	3033.2
47.5°	16805.3	15331.3	10708.8	3965.7	3271.3	2840.2	2629.6	2639.6	2694.8	2787.5	2830.1
50°	19580.2	17765.4	10881.8	3855.4	3271.3	2744.9	2466.6	2516.8	2561.9	2632.1	2657.2
52.5°	22906.7	20101.7	10310.3	3755.1	3291.4	2757.4	2328.8	2436.6	2469.2	2529.3	2539.3
55°	25990.0	21247.2	8863.9	3617.2	3296.4	2835.1	2211.0	2371.4	2431.6	2454.1	2451.6
57.5°	27779.8	20853.7	7166.8	3384.1	3276.3	2887.8	2135.8	2291.2	2406.5	2421.5	2399.0
60°	27438.9	19472.5	5276.7	3206.1	3128.4	2867.7	2113.2	2168.3	2351.3	2373.9	2343.8
62.5°	24811.8	17156.2	3662.4	3068.3	2802.5	2780.0	2105.7	1975.3	2231.0	2286.2	2243.5
65°	19943.7	13506.4	2587.0	2642.1	2456.6	2589.5	2065.6	1774.8	2085.6	2160.8	2095.6
67.5°	14469.0	9139.6	1867.5	2140.8	2226.0	2281.1	1975.3	1629.4	1920.2	2020.4	1935.2
70°	9285.0	4935.8	1311.0	1413.8	1875.1	1937.7	1819.9	1499.0	1752.2	1867.5	1774.8
72.5°	6600.3	2915.4	942.5	990.2	1506.6	1614.3	1601.8	1353.6	1556.7	1697.1	1586.8
75°	4554.8	1606.8	636.7	706.9	1092.9	1311.0	1235.8	1163.1	1318.6	1461.4	1353.6
77.5°	2855.2	719.4	381.0	491.3	716.9	1030.3	847.3	899.9	1027.8	1160.6	1047.8
80°	1589.3	278.2	213.1	325.9	391.1	749.5	468.8	579.1	757.0	852.3	762.1
82.5°	345.9	35.1	95.3	140.4	152.9	436.2	248.2	335.9	476.3	468.8	406.1
85°	0.0	0.0	17.5	20.1	10.0	188.0	90.2	110.3	155.4	145.4	110.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	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°	5038.6	5038.6	5038.6	5038.6	5038.6	5038.6	5038.6	5038.6	5038.6	5038.6	5038.6
2.5°	4512.2	4389.3	4299.1	4254.0	4216.4	4251.5	4271.5	4271.5	4356.7	4406.9	4426.9
5°	4088.5	3867.9	3700.0	3587.2	3519.5	3542.0	3567.1	3594.7	3702.5	3775.2	3822.8
7.5°	3795.2	3456.8	3201.1	3043.2	2960.5	2973.0	2990.6	3013.1	3118.4	3191.1	3253.8
10°	3740.1	3253.8	2892.8	2684.7	2584.5	2566.9	2556.9	2549.4	2612.0	2667.2	2717.3
12.5°	3965.7	3263.8	2759.9	2506.8	2383.9	2331.3	2271.1	2223.5	2233.5	2268.6	2331.3
15°	4369.3	3391.6	2717.3	2414.0	2261.1	2173.4	2103.2	2045.5	2033.0	2045.5	2055.5
17.5°	4830.5	3564.6	2712.3	2333.8	2143.3	2053.0	1995.4	1942.7	1925.2	1927.7	1940.2
20°	5136.3	3702.5	2697.3	2243.5	2030.5	1950.3	1900.1	1847.5	1829.9	1834.9	1837.5
22.5°	5166.4	3775.2	2674.7	2143.3	1917.7	1850.0	1799.8	1752.2	1749.7	1749.7	1764.8
25°	5003.5	3775.2	2627.1	2053.0	1809.9	1749.7	1704.6	1646.9	1657.0	1662.0	1682.0
27.5°	4750.3	3684.9	2536.8	1980.3	1717.1	1654.5	1609.3	1556.7	1569.2	1576.7	1599.3
30°	4499.6	3569.6	2429.0	1897.6	1629.4	1556.7	1524.1	1479.0	1484.0	1494.0	1519.1
32.5°	4266.5	3446.8	2301.2	1829.9	1541.7	1469.0	1443.9	1393.8	1401.3	1411.3	1438.9
35°	4035.9	3311.4	2150.8	1749.7	1461.4	1388.7	1368.7	1311.0	1316.0	1331.1	1361.2
37.5°	3787.7	3168.5	2028.0	1669.5	1383.7	1308.5	1288.5	1228.3	1233.3	1250.9	1286.0
40°	3527.0	3028.2	1907.6	1584.3	1301.0	1225.8	1208.3	1143.1	1148.1	1168.1	1205.7
42.5°	3263.8	2875.2	1814.9	1474.0	1215.8	1135.6	1118.0	1057.8	1065.4	1087.9	1125.5
45°	3020.6	2692.3	1754.7	1351.1	1135.6	1045.3	1027.8	972.6	987.7	1012.7	1050.3
47.5°	2812.6	2504.2	1729.7	1248.4	1050.3	952.6	937.5	892.4	917.5	945.0	975.1
50°	2634.6	2323.8	1697.1	1143.1	970.1	872.4	857.3	827.2	859.8	887.4	915.0
52.5°	2506.8	2118.2	1626.9	1047.8	899.9	804.7	799.7	784.6	814.7	839.8	864.8
55°	2396.5	1905.1	1514.1	965.1	837.3	747.0	752.0	744.5	769.6	789.6	812.2
57.5°	2296.2	1719.6	1371.2	899.9	769.6	696.9	711.9	701.9	714.4	727.0	754.5
60°	2175.9	1531.6	1200.7	827.2	689.4	646.7	664.3	636.7	634.2	639.2	646.7
62.5°	1997.9	1278.4	1022.8	737.0	619.2	591.6	599.1	546.5	506.4	506.4	513.9
65°	1749.7	1027.8	857.3	636.7	539.0	516.4	511.4	436.2	381.0	376.0	398.6
67.5°	1461.4	844.8	711.9	536.4	448.7	433.7	438.7	383.5	328.4	323.4	348.4
70°	1190.7	699.4	574.0	428.7	345.9	361.0	383.5	328.4	275.7	268.2	290.8
72.5°	967.6	556.5	448.7	328.4	255.7	298.3	325.9	268.2	218.1	213.1	233.1
75°	747.0	408.6	320.9	223.1	185.5	230.6	255.7	195.5	155.4	147.9	165.4
77.5°	498.8	253.2	180.5	140.4	110.3	157.9	170.5	102.8	90.2	87.7	100.3
80°	303.3	117.8	77.7	67.7	37.6	57.7	67.7	42.6	47.6	50.1	60.2
82.5°	152.9	32.6	12.5	2.5	0.0	0.0	20.1	10.0	20.1	25.1	37.6
85°	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	12.5	22.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	5038.6	5038.6	5038.6	5038.6	5038.6	5038.6	5038.6	5038.6	5038.6	5038.6	5038.6
2.5°	4567.3	4672.6	4772.9	4933.3	5098.7	5261.7	5427.1	5587.6	5645.2	5687.8	5783.1
5°	4040.9	4238.9	4469.5	4787.9	5128.8	5479.8	5835.7	6161.6	6309.5	6409.8	6635.4
7.5°	3496.9	3755.1	4086.0	4564.8	5098.7	5657.7	6216.7	6730.6	6968.8	7161.8	7505.2
10°	2958.0	3238.7	3657.4	4203.8	4925.8	5727.9	6500.0	7206.9	7515.2	7758.4	8224.7
12.5°	2484.2	2747.4	3186.1	3790.2	4655.0	5672.8	6662.9	7512.7	7876.2	8149.5	8660.8
15°	2150.8	2336.3	2724.8	3376.6	4334.2	5494.8	6673.0	7658.1	8056.7	8342.5	8786.2
17.5°	1965.3	2028.0	2281.1	2955.5	3978.2	5261.7	6580.2	7708.3	8134.4	8400.1	8708.5
20°	1865.0	1875.1	1945.2	2409.0	3522.0	5043.6	6492.5	7758.4	8207.1	8430.2	8523.0
22.5°	1784.8	1784.8	1802.4	1970.3	2932.9	4782.9	6464.9	7846.1	8307.4	8445.3	8254.7
25°	1712.1	1712.1	1717.1	1762.2	2323.8	4384.3	6447.4	7981.5	8445.3	8482.9	7958.9
27.5°	1636.9	1639.4	1639.4	1664.5	1872.5	3842.9	6372.2	8157.0	8610.7	8533.0	7675.7
30°	1561.7	1566.7	1566.7	1584.3	1657.0	3208.6	6224.3	8367.5	8826.3	8598.2	7394.9
32.5°	1486.5	1491.5	1491.5	1506.6	1559.2	2561.9	6038.8	8560.6	9044.4	8625.7	7134.2
35°	1408.8	1416.3	1411.3	1431.4	1486.5	2038.0	5803.1	8753.6	9280.0	8713.5	7006.4
37.5°	1331.1	1336.1	1333.6	1353.6	1416.3	1759.7	5529.9	8899.0	9600.9	8909.0	7159.3
40°	1253.4	1250.9	1250.9	1273.4	1341.1	1679.5	5186.5	9129.6	10062.1	9252.4	7826.1
42.5°	1173.2	1173.2	1168.1	1193.2	1275.9	1619.4	4858.1	9543.2	10733.9	9798.9	9009.3
45°	1100.5	1098.0	1087.9	1110.5	1213.3	1514.1	4742.8	10315.3	11726.6	10683.8	10440.6
47.5°	1030.3	1027.8	1002.7	1022.8	1138.1	1418.8	5173.9	11578.7	13102.8	11984.8	11781.7
50°	967.6	970.1	922.5	940.0	1062.9	1346.1	6109.0	13218.1	14930.2	13737.0	13052.7
52.5°	910.0	910.0	847.3	857.3	970.1	1281.0	6998.9	14995.4	17341.7	16181.1	14534.2
55°	852.3	847.3	777.1	782.1	877.4	1188.2	7131.7	16730.1	20630.6	19858.5	16559.6
57.5°	787.1	777.1	711.9	711.9	792.1	1120.5	6181.7	18063.7	24711.6	25263.1	19480.0
60°	706.9	699.4	656.8	644.2	724.5	1180.7	4361.8	18219.1	27343.7	32449.9	25072.5
62.5°	604.1	614.2	591.6	574.0	659.3	1225.8	2584.5	16968.2	26706.9	34736.1	31770.6
65°	476.3	516.4	511.4	498.8	724.5	1032.8	1526.6	14566.7	24754.2	32891.1	30404.4
67.5°	406.1	433.7	426.1	426.1	759.5	784.6	960.1	11380.7	22066.9	30702.7	27158.2
70°	345.9	373.5	345.9	345.9	574.0	476.3	664.3	7946.4	19166.6	28281.2	25027.4
72.5°	285.8	313.3	283.3	263.2	458.7	356.0	486.3	4965.9	16414.2	25759.4	23568.5
75°	218.1	250.7	228.1	203.0	303.3	265.7	368.5	2885.3	13599.1	22039.4	21490.4
77.5°	137.9	180.5	170.5	142.9	223.1	193.0	265.7	1717.1	10493.3	17221.4	18484.8
80°	85.2	92.7	95.3	90.2	127.8	130.4	180.5	977.6	7181.8	12002.3	14441.4
82.5°	55.1	55.1	42.6	47.6	62.7	75.2	102.8	368.5	4221.4	7307.2	10052.1
85°	40.1	35.1	22.6	22.6	30.1	37.6	40.1	112.8	1712.1	2885.3	3930.6
87.5°	20.1	17.5	7.5	10.0	15.0	12.5	10.0	5.0	431.2	922.5	646.7
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°	5038.6	5038.6	5038.6	5038.6	5038.6	5038.6	5038.6	5038.6
2.5°	5833.2	5910.9	5915.9	5915.9	5848.3	5845.7	5707.9	5692.8
5°	6868.5	6918.6	6931.2	6906.1	6770.7	6670.5	6402.2	6344.6
7.5°	7816.1	7916.3	7916.3	7856.2	7635.6	7430.0	7041.5	6896.1
10°	8573.1	8688.4	8663.3	8540.5	8262.3	7979.0	7507.7	7317.2
12.5°	8941.6	9059.4	8994.2	8853.9	8583.1	8284.8	7788.5	7572.9
15°	8934.1	8901.5	8833.8	8816.3	8685.9	8460.3	7996.5	7760.9
17.5°	8615.7	8340.0	8287.3	8462.8	8628.2	8573.1	8177.0	7956.4
20°	8111.9	7630.6	7582.9	7918.8	8390.1	8630.8	8345.0	8141.9
22.5°	7580.4	7061.5	6951.2	7322.2	8031.6	8648.3	8558.1	8355.0
25°	7076.6	6555.2	6444.9	6790.8	7633.1	8618.2	8788.7	8615.7
27.5°	6655.4	6151.6	6048.8	6394.7	7249.5	8533.0	9019.3	8896.5
30°	6329.6	5863.3	5788.1	6121.5	6918.6	8427.7	9312.6	9244.9
32.5°	6139.0	5798.1	5825.7	6098.9	6740.7	8312.4	9593.3	9625.9
35°	6327.0	6342.1	6582.7	6695.5	6906.1	8294.8	9974.4	10102.2
37.5°	7262.1	7783.5	8282.3	8189.6	7715.8	8497.9	10543.4	10781.5
40°	8853.9	9924.2	10733.9	10380.5	9187.3	9119.6	11363.1	11719.1
42.5°	10799.1	12614.0	13947.6	13000.0	11084.9	10207.5	12533.8	12987.5
45°	12852.1	15930.4	18031.1	16060.8	13107.8	11731.6	14306.0	14662.0
47.5°	15015.5	19961.3	22678.6	19454.9	14982.9	13466.3	16722.5	16805.3
50°	17381.8	24380.7	27416.4	22846.5	16792.7	15454.1	19675.5	19580.2
52.5°	19635.4	28925.4	32053.9	26253.2	18382.0	17920.8	23102.2	22906.7
55°	21786.2	33467.7	36718.9	29527.0	19881.1	21179.6	27173.2	25990.0
57.5°	24280.4	37551.2	41526.9	32815.9	21976.7	25411.0	31725.5	27779.8
60°	27967.8	42191.2	46964.0	37323.0	25962.4	29857.9	33357.4	27438.9
62.5°	32675.5	46457.7	50917.2	41739.9	29965.7	30695.2	30953.4	24811.8
65°	33590.5	47538.1	51140.3	42920.6	29449.3	26037.6	25270.6	19943.7
67.5°	31164.0	45585.3	48021.9	40722.2	26050.2	20121.7	18963.6	14469.0
70°	28441.6	41862.8	42587.2	36984.6	22911.7	14799.9	12807.0	9285.0
72.5°	25651.6	36896.9	35397.9	32119.0	20136.7	10776.5	9237.4	6600.3
75°	22337.7	30366.8	27882.6	26686.9	16672.4	8457.8	6683.0	4554.8
77.5°	17888.2	21375.1	20710.8	20685.7	12528.8	6179.1	4459.5	2855.2
80°	12619.0	13872.4	13534.0	15579.5	8405.1	4482.1	2684.7	1589.3
82.5°	6109.0	7670.7	7873.7	9277.5	4088.5	2637.1	619.2	345.9
85°	2391.4	3700.0	3120.9	3522.0	1148.1	734.5	15.0	0.0
87.5°	268.2	428.7	393.6	310.8	140.4	30.1	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)