

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: P953785

Luminaire Tested: **GALN-SB7B-727-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953785
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-SB7B-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28348 lumens
Efficiency: N/A
Efficacy: 110.4 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): 256.7
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



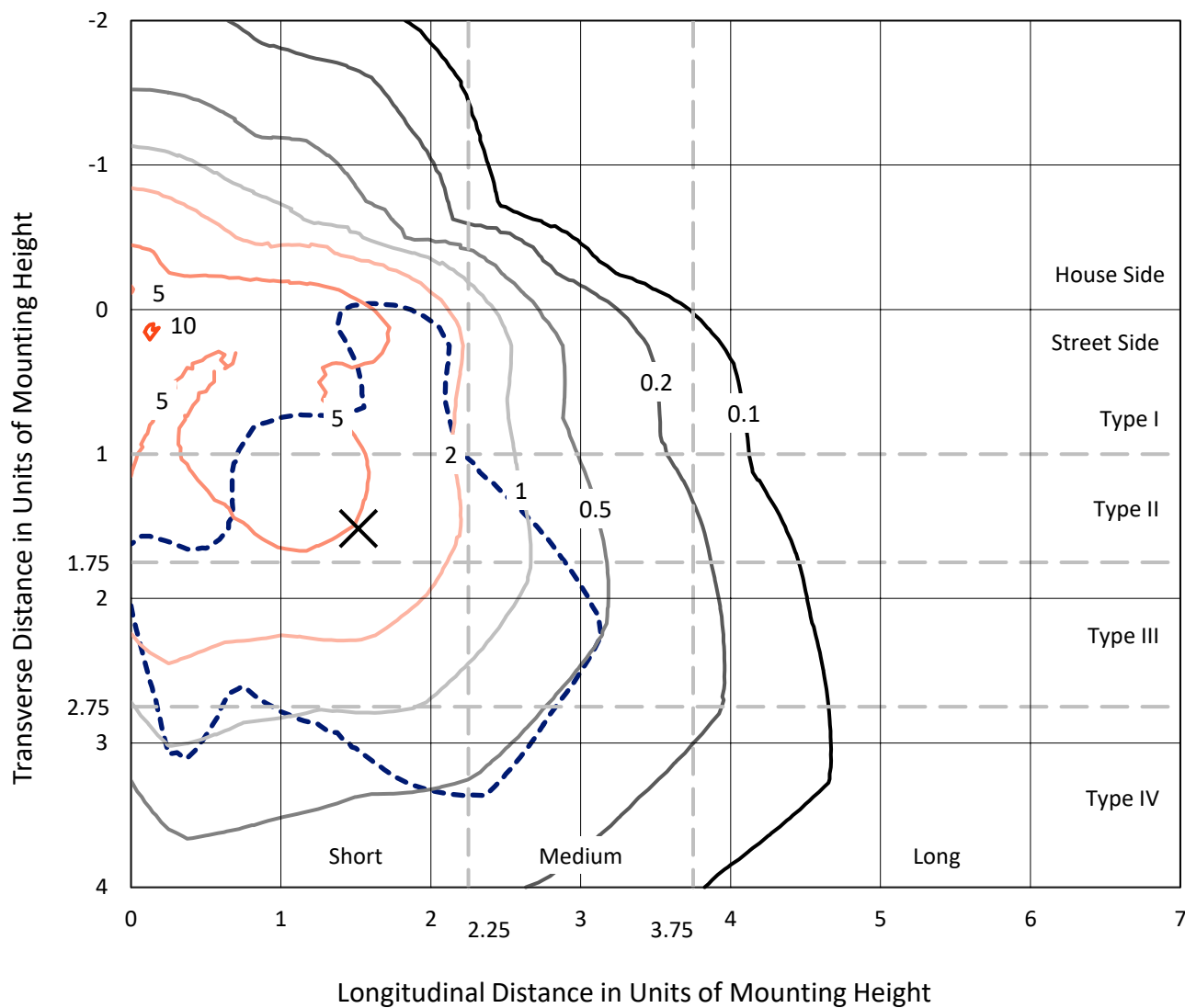
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

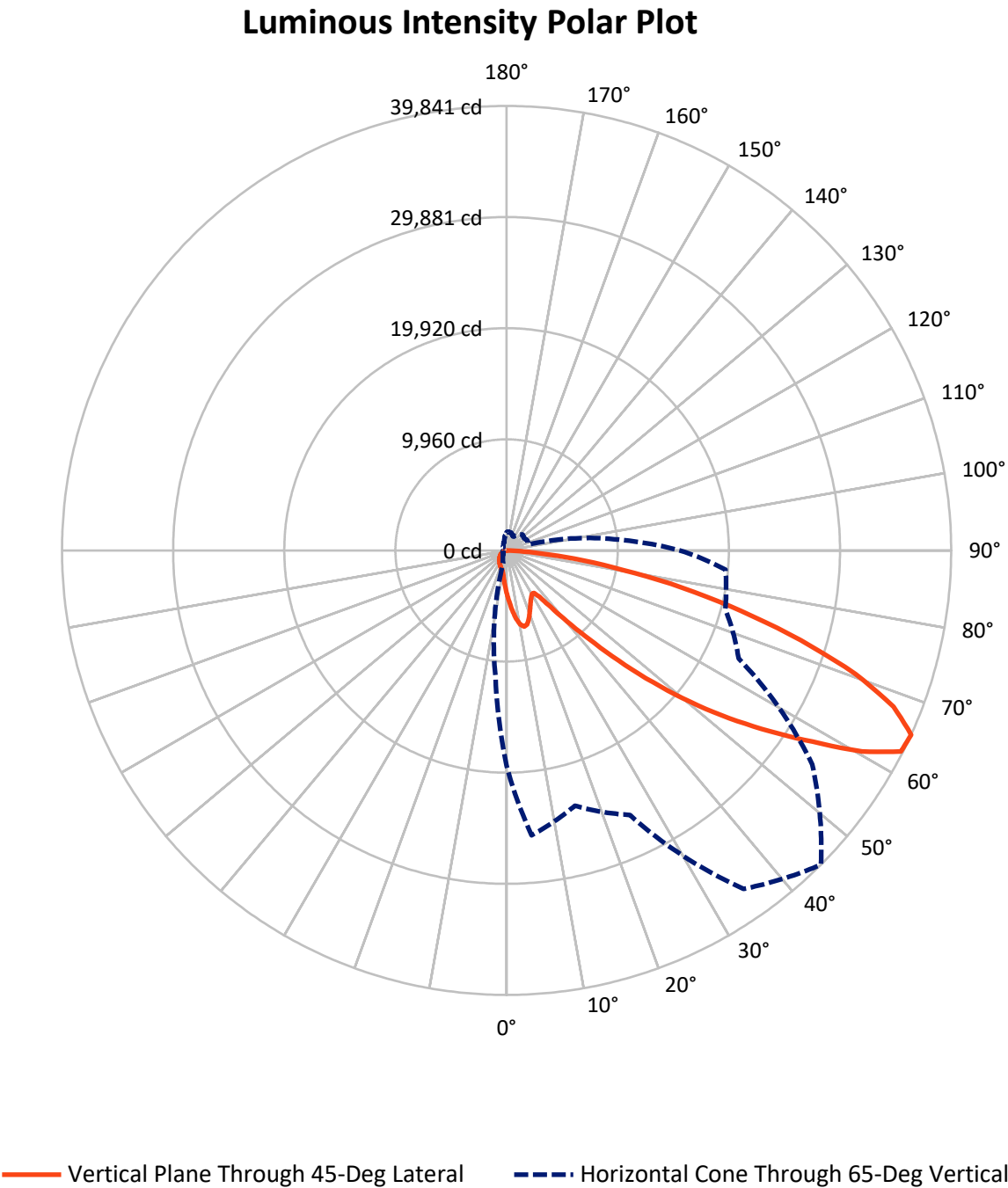
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc

Type IV - Short - N/A

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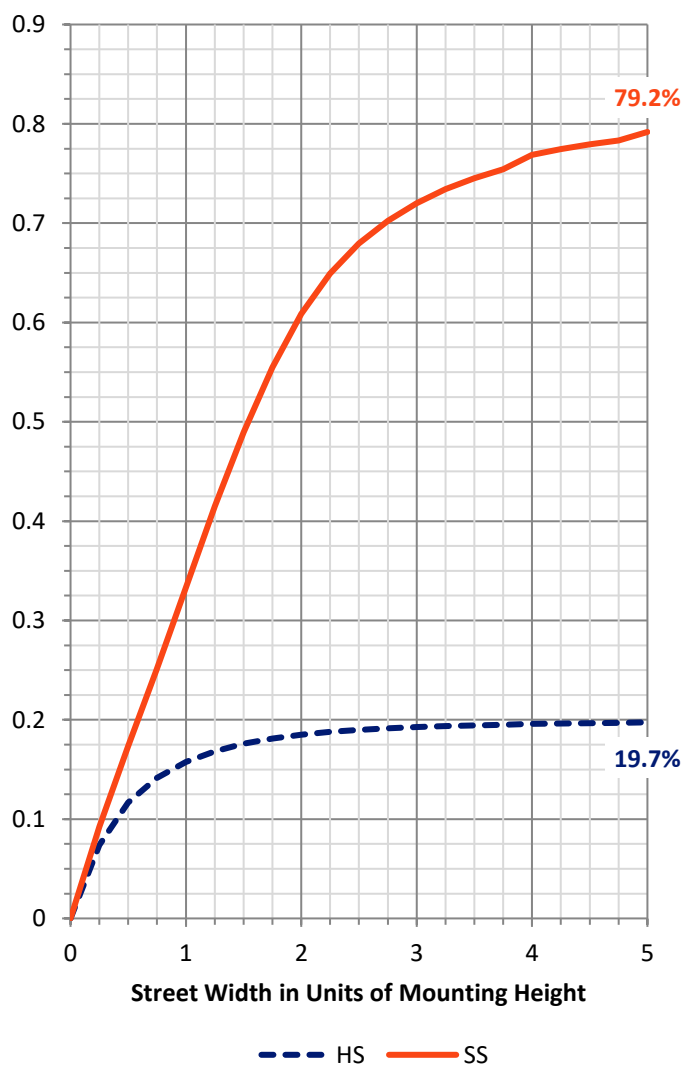
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5634.7	0.0	5634.7
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	22713.3	0.0	22713.3
	% Fixture	80.1	0.0	80.1
Total	Lumens	28348.0	0.0	28348.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.5	1.4
10°-20°	1158.5	4.1
20°-30°	1706.7	6.0
30°-40°	2192.6	7.7
40°-50°	3546.1	12.5
50°-60°	6218.5	21.9
60°-70°	7781.0	27.4
70°-80°	4546.9	16.0
80°-90°	811.2	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°	28348.0	100.0
0°-180°	28348.0	100.0

Coefficient of Utilization



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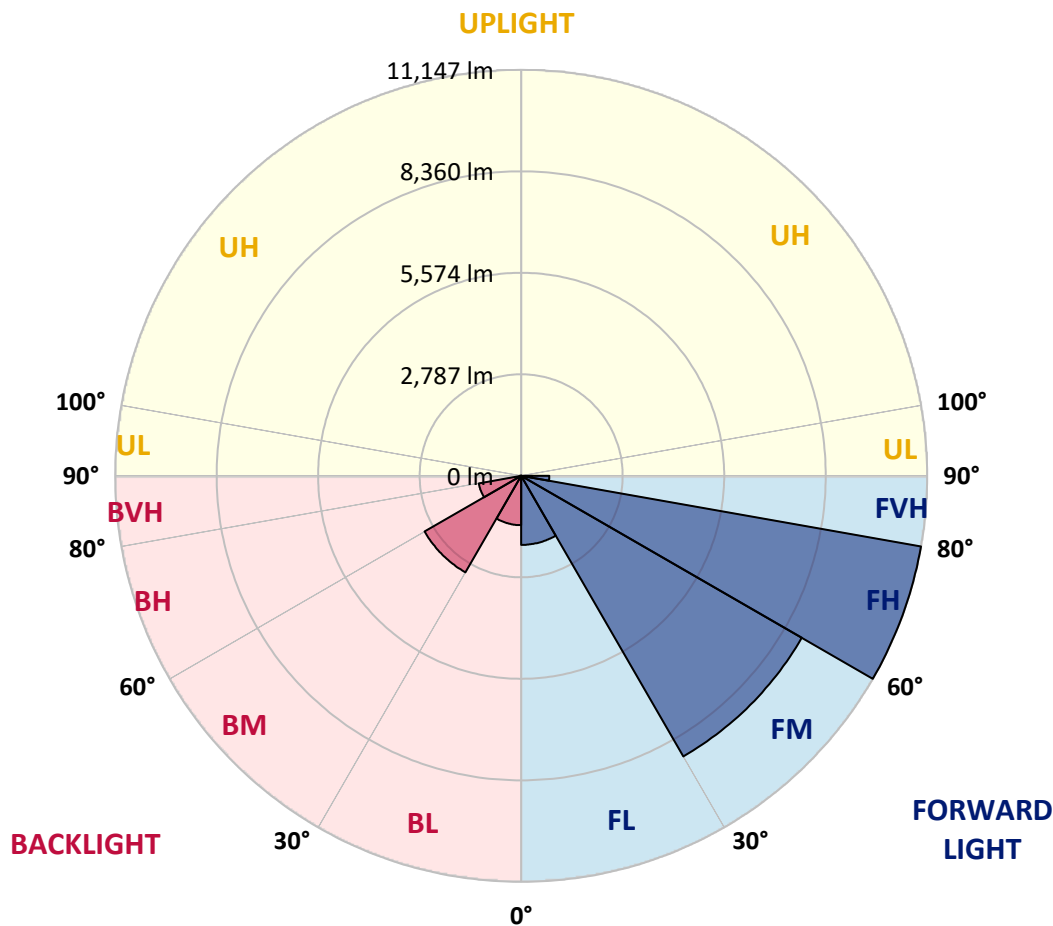
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1896.8	6.7			
FM	(30°-60°)	8895.9	31.4			
FH	(60°-80°)	11147.3	39.3			G4/12000
FVH	(80°-90°)	773.2	2.7			G5
BL	(0°-30°)	1354.8	4.8	B3/2500		
BM	(30°-60°)	3061.3	10.8	B3/5000		
BH	(60°-80°)	1180.6	4.2	B3/2500		G3/2500
BVH	(80°-90°)	38.0	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°	3925.3	3925.3	3925.3	3925.3	3925.3	3925.3	3925.3	3925.3	3925.3	3925.3	3925.3
2.5°	4397.9	4431.1	4505.3	4544.4	4604.9	4608.8	4608.8	4556.1	4554.1	4446.7	4435.0
5°	4915.4	4993.5	5169.3	5350.9	5390.0	5399.7	5380.2	5274.7	5196.6	4987.7	4942.7
7.5°	5429.0	5579.4	5846.9	6089.1	6167.2	6167.2	6120.3	5948.5	5788.3	5485.6	5372.4
10°	5854.7	6044.2	6407.4	6678.9	6768.7	6749.2	6653.5	6436.7	6216.0	5848.9	5700.5
12.5°	6136.0	6348.8	6747.2	6965.9	7057.7	7006.9	6897.6	6686.7	6454.3	6067.6	5899.7
15°	6276.6	6499.2	6844.8	6960.1	6934.7	6882.0	6868.3	6766.7	6591.0	6229.7	6046.1
17.5°	6337.1	6544.1	6784.3	6712.1	6497.2	6456.2	6592.9	6721.8	6678.9	6370.3	6198.4
20°	6393.7	6567.5	6639.8	6319.5	5944.6	5907.5	6169.2	6536.3	6723.8	6501.1	6343.0
22.5°	6471.8	6579.3	6430.8	5905.5	5501.3	5415.3	5704.4	6257.0	6737.4	6667.1	6509.0
25°	6579.3	6608.5	6200.4	5513.0	5106.8	5020.9	5290.4	5946.5	6714.0	6846.8	6712.1
27.5°	6708.1	6647.6	5979.7	5184.9	4792.4	4712.3	4981.8	5647.7	6647.6	7026.5	6930.8
30°	6876.1	6698.4	5761.0	4931.0	4567.8	4509.2	4768.9	5390.0	6565.6	7255.0	7202.2
32.5°	7046.0	6719.9	5557.9	4782.6	4517.0	4538.5	4751.4	5251.3	6475.8	7473.7	7499.1
35°	7229.6	6788.2	5458.3	4929.1	4940.8	5128.3	5216.1	5380.2	6462.1	7770.5	7870.1
37.5°	7479.5	6940.5	5577.4	5657.5	6063.7	6452.3	6380.1	6011.0	6620.3	8213.8	8399.3
40°	7838.9	7208.1	6096.9	6897.6	7731.5	8362.2	8086.9	7157.3	7104.6	8852.4	9129.7
42.5°	8362.2	7633.8	7018.7	8413.0	9826.9	10865.8	10127.6	8635.6	7952.1	9764.4	10117.9
45°	9135.6	8323.2	8133.7	10012.4	12410.6	14047.1	12512.1	10211.6	9139.5	11145.1	11422.4
47.5°	10207.7	9336.7	9178.5	11697.8	15550.8	17667.7	15156.3	11672.4	10490.9	13027.7	13092.1
50°	11631.4	10701.8	10168.7	13541.3	18993.7	21358.7	17798.6	13082.4	12039.5	15328.2	15254.0
52.5°	13510.0	12605.8	11322.8	15296.9	22534.3	24971.5	20452.5	14320.5	13961.1	17997.8	17845.4
55°	16072.2	15470.7	12900.7	16972.5	26072.9	28605.8	23003.0	15488.3	16499.9	21169.2	20247.5
57.5°	19251.5	19681.1	15175.8	18915.6	29254.2	32351.4	25565.2	17120.9	19796.4	24715.7	21641.8
60°	21302.0	25280.0	19532.7	21788.3	32868.9	36587.2	29076.4	20226.0	23260.8	25987.0	21376.2
62.5°	20806.0	27061.1	24750.8	25455.8	36192.7	39666.9	32517.4	23344.7	23913.0	24114.2	19329.6
65°	19284.7	25623.8	23686.5	26168.6	37034.4	39840.7	33437.2	22942.4	20284.6	19687.0	15537.1
67.5°	17191.2	23918.9	21157.5	24278.2	35513.1	37411.3	31724.6	20294.3	15675.8	14773.5	11272.0
70°	14931.7	22032.4	19497.6	22157.4	32613.1	33177.5	28812.8	17849.3	11529.8	9977.3	7233.5
72.5°	12787.5	20067.8	18361.0	19983.8	28744.5	27576.6	25022.3	15687.5	8395.4	7196.4	5141.9
75°	10594.4	17169.7	16742.0	17402.1	23657.2	21721.9	20790.4	12988.6	6589.0	5206.4	3548.4
77.5°	8174.8	13416.3	14400.5	13935.8	16652.2	16134.7	16115.2	9760.5	4813.9	3474.2	2224.3
80°	5595.0	9350.4	11250.5	9830.8	10807.2	10543.6	12137.2	6548.0	3491.8	2091.5	1238.1
82.5°	3288.7	5692.6	7831.1	4759.2	5975.8	6134.0	7227.6	3185.1	2054.4	482.4	269.5
85°	1333.8	2247.8	3062.1	1863.0	2882.5	2431.3	2743.8	894.4	572.2	11.7	0.0
87.5°	335.9	718.7	503.8	209.0	333.9	306.6	242.2	109.4	23.4	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	0.0

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	3925.3	3925.3	3925.3	3925.3	3925.3	3925.3	3925.3	3925.3	3925.3	3925.3	3925.3
2.5°	4358.8	4313.9	4202.6	4091.3	4001.5	3880.4	3800.3	3704.6	3612.8	3530.8	3515.2
5°	4819.7	4671.3	4468.2	4282.7	4093.2	3909.7	3728.0	3536.7	3360.9	3253.5	3185.1
7.5°	5194.7	4933.0	4663.5	4427.2	4198.7	3983.9	3743.7	3511.3	3235.9	3089.5	2956.7
10°	5473.9	5130.2	4776.7	4505.3	4274.9	4065.9	3862.8	3628.5	3296.5	3112.9	2913.7
12.5°	5657.5	5249.3	4835.3	4524.8	4267.0	4105.0	4015.1	3923.3	3593.3	3378.5	3089.5
15°	5784.4	5333.3	4876.3	4479.9	4163.5	4044.4	4134.2	4239.7	4028.8	3780.8	3403.9
17.5°	5923.1	5442.7	4893.9	4358.8	3962.4	3911.6	4144.0	4388.1	4378.4	4132.3	3763.2
20°	6069.6	5538.4	4882.2	4163.5	3718.3	3763.2	4060.0	4343.2	4462.3	4329.5	4001.5
22.5°	6219.9	5630.2	4837.3	3909.7	3489.8	3630.4	3927.2	4175.3	4315.9	4274.9	4024.9
25°	6409.4	5759.0	4770.9	3636.3	3300.4	3495.7	3773.0	3974.1	4071.8	4069.8	3898.0
27.5°	6635.9	5930.9	4735.7	3415.6	3165.6	3343.3	3589.4	3769.1	3837.4	3837.4	3700.7
30°	6899.5	6134.0	4696.7	3271.1	3087.5	3185.1	3376.5	3552.3	3620.6	3620.6	3505.4
32.5°	7192.5	6329.3	4602.9	3183.2	3028.9	3030.9	3152.0	3312.1	3394.1	3405.8	3323.8
35°	7544.0	6538.2	4397.9	3112.9	2960.6	2880.5	2939.1	3071.9	3169.5	3194.9	3144.1
37.5°	8004.9	6794.1	4105.0	3009.4	2855.1	2722.3	2736.0	2837.5	2944.9	2984.0	2950.8
40°	8623.9	7094.8	3800.3	2861.0	2706.7	2548.5	2542.7	2616.9	2722.3	2765.3	2747.7
42.5°	9442.2	7456.1	3509.3	2718.4	2527.0	2364.9	2355.2	2413.8	2505.5	2550.5	2542.7
45°	10488.9	7899.4	3259.4	2607.1	2351.3	2191.1	2187.2	2236.0	2316.1	2363.0	2353.2
47.5°	11943.8	8342.7	3089.5	2548.5	2212.6	2048.6	2056.4	2099.3	2171.6	2204.8	2191.1
50°	13840.1	8477.5	3003.5	2548.5	2138.4	1921.6	1960.7	1995.8	2050.5	2070.1	2052.5
52.5°	15660.2	8032.2	2925.4	2564.1	2148.2	1814.2	1898.2	1923.6	1970.5	1978.3	1952.9
55°	16552.6	6905.4	2818.0	2568.0	2208.7	1722.4	1847.4	1894.3	1911.9	1909.9	1867.0
57.5°	16246.0	5583.3	2636.4	2552.4	2249.7	1663.9	1784.9	1874.8	1886.5	1868.9	1788.8
60°	15170.0	4110.8	2497.7	2437.2	2234.1	1646.3	1689.2	1831.8	1849.4	1825.9	1695.1
62.5°	13365.5	2853.2	2390.3	2183.3	2165.7	1640.4	1538.9	1738.1	1781.0	1747.8	1556.4
65°	10522.1	2015.4	2058.3	1913.8	2017.3	1609.2	1382.6	1624.8	1683.4	1632.6	1363.1
67.5°	7120.2	1454.9	1667.8	1734.2	1777.1	1538.9	1269.4	1495.9	1574.0	1507.6	1138.5
70°	3845.2	1021.4	1101.4	1460.8	1509.6	1417.8	1167.8	1365.1	1454.9	1382.6	927.6
72.5°	2271.2	734.3	771.4	1173.7	1257.7	1247.9	1054.6	1212.7	1322.1	1236.2	753.8
75°	1251.8	496.0	550.7	851.5	1021.4	962.8	906.1	1027.2	1138.5	1054.6	582.0
77.5°	560.5	296.8	382.8	558.5	802.6	660.1	701.1	800.7	904.2	816.3	388.6
80°	216.8	166.0	253.9	304.6	583.9	365.2	451.1	589.8	664.0	593.7	236.3
82.5°	27.3	74.2	109.4	119.1	339.8	193.3	261.7	371.0	365.2	316.4	119.1
85°	0.0	13.7	15.6	7.8	146.5	70.3	85.9	121.1	113.3	85.9	9.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	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	0.0

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CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	3925.3	3925.3	3925.3	3925.3	3925.3	3925.3	3925.3	3925.3	3925.3	3925.3	3925.3
2.5°	3419.5	3349.2	3314.0	3284.7	3312.1	3327.7	3327.7	3394.1	3433.2	3448.8	3558.1
5°	3013.3	2882.5	2794.6	2741.8	2759.4	2778.9	2800.4	2884.4	2941.0	2978.1	3148.0
7.5°	2693.0	2493.8	2370.8	2306.4	2316.1	2329.8	2347.4	2429.4	2486.0	2534.8	2724.3
10°	2534.8	2253.6	2091.5	2013.4	1999.8	1991.9	1986.1	2034.9	2077.9	2116.9	2304.4
12.5°	2542.7	2150.1	1952.9	1857.2	1816.2	1769.3	1732.2	1740.0	1767.4	1816.2	1935.3
15°	2642.2	2116.9	1880.6	1761.5	1693.1	1638.5	1593.6	1583.8	1593.6	1601.4	1675.6
17.5°	2777.0	2113.0	1818.1	1669.7	1599.4	1554.5	1513.5	1499.8	1501.8	1511.5	1531.1
20°	2884.4	2101.3	1747.8	1581.8	1519.3	1480.3	1439.3	1425.6	1429.5	1431.5	1452.9
22.5°	2941.0	2083.7	1669.7	1494.0	1441.2	1402.2	1365.1	1363.1	1363.1	1374.8	1390.5
25°	2941.0	2046.6	1599.4	1410.0	1363.1	1328.0	1283.0	1290.9	1294.8	1310.4	1333.8
27.5°	2870.7	1976.3	1542.8	1337.7	1288.9	1253.7	1212.7	1222.5	1228.4	1245.9	1275.2
30°	2780.9	1892.3	1478.3	1269.4	1212.7	1187.4	1152.2	1156.1	1163.9	1183.4	1216.6
32.5°	2685.2	1792.7	1425.6	1201.0	1144.4	1124.9	1085.8	1091.7	1099.5	1121.0	1158.1
35°	2579.8	1675.6	1363.1	1138.5	1081.9	1066.3	1021.4	1025.3	1037.0	1060.4	1097.5
37.5°	2468.4	1579.9	1300.6	1078.0	1019.4	1003.8	956.9	960.8	974.5	1001.8	1037.0
40°	2359.1	1486.1	1234.2	1013.5	955.0	941.3	890.5	894.4	910.0	939.3	976.4
42.5°	2240.0	1413.9	1148.3	947.1	884.7	871.0	824.1	830.0	847.6	876.8	913.9
45°	2097.4	1367.0	1052.6	884.7	814.4	800.7	757.7	769.4	789.0	818.3	857.3
47.5°	1950.9	1347.5	972.5	818.3	742.1	730.4	695.2	714.8	736.2	759.7	802.6
50°	1810.3	1322.1	890.5	755.8	679.6	667.9	644.5	669.8	691.3	712.8	753.8
52.5°	1650.2	1267.4	816.3	701.1	626.9	623.0	611.3	634.7	654.2	673.7	708.9
55°	1484.2	1179.5	751.9	652.3	582.0	585.9	580.0	599.5	615.2	632.7	664.0
57.5°	1339.7	1068.2	701.1	599.5	542.9	554.6	546.8	556.6	566.3	587.8	613.2
60°	1193.2	935.4	644.5	537.0	503.8	517.5	496.0	494.1	498.0	503.8	550.7
62.5°	996.0	796.8	574.1	482.4	460.9	466.7	425.7	394.5	394.5	400.3	470.6
65°	800.7	667.9	496.0	419.9	402.3	398.4	339.8	296.8	292.9	310.5	371.0
67.5°	658.1	554.6	417.9	349.6	337.8	341.8	298.8	255.8	251.9	271.5	316.4
70°	544.9	447.2	333.9	269.5	281.2	298.8	255.8	214.8	209.0	226.5	269.5
72.5°	433.5	349.6	255.8	199.2	232.4	253.9	209.0	169.9	166.0	181.6	222.6
75°	318.3	250.0	173.8	144.5	179.7	199.2	152.3	121.1	115.2	128.9	169.9
77.5°	197.2	140.6	109.4	85.9	123.0	132.8	80.1	70.3	68.4	78.1	107.4
80°	91.8	60.5	52.7	29.3	44.9	52.7	33.2	37.1	39.1	46.9	66.4
82.5°	25.4	9.8	2.0	0.0	0.0	15.6	7.8	15.6	19.5	29.3	43.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	9.8	17.6	31.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8	15.6
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3925.3	3925.3	3925.3	3925.3	3925.3	3925.3	3925.3	3925.3
2.5°	3640.2	3718.3	3843.3	3972.2	4099.1	4228.0	4353.0	4397.9
5°	3302.3	3482.0	3730.0	3995.6	4269.0	4546.3	4800.2	4915.4
7.5°	2925.4	3183.2	3556.2	3972.2	4407.7	4843.1	5243.5	5429.0
10°	2523.1	2849.3	3275.0	3837.4	4462.3	5063.8	5614.5	5854.7
12.5°	2140.4	2482.1	2952.8	3626.5	4419.4	5190.8	5852.8	6136.0
15°	1820.1	2122.8	2630.5	3376.5	4280.7	5198.6	5966.1	6276.6
17.5°	1579.9	1777.1	2302.4	3099.2	4099.1	5126.3	6005.1	6337.1
20°	1460.8	1515.4	1876.7	2743.8	3929.2	5058.0	6044.2	6393.7
22.5°	1390.5	1404.1	1535.0	2284.9	3726.1	5036.5	6112.5	6471.8
25°	1333.8	1337.7	1372.9	1810.3	3415.6	5022.8	6218.0	6579.3
27.5°	1277.2	1277.2	1296.7	1458.8	2993.8	4964.2	6354.7	6708.1
30°	1220.6	1220.6	1234.2	1290.9	2499.7	4849.0	6518.7	6876.1
32.5°	1162.0	1162.0	1173.7	1214.7	1995.8	4704.5	6669.1	7046.0
35°	1103.4	1099.5	1115.1	1158.1	1587.7	4520.9	6819.5	7229.6
37.5°	1040.9	1038.9	1054.6	1103.4	1370.9	4308.1	6932.7	7479.5
40°	974.5	974.5	992.1	1044.8	1308.4	4040.5	7112.4	7838.9
42.5°	913.9	910.0	929.6	994.0	1261.6	3784.7	7434.6	8362.2
45°	855.4	847.6	865.1	945.2	1179.5	3694.9	8036.1	9135.6
47.5°	800.7	781.2	796.8	886.6	1105.3	4030.7	9020.4	10207.7
50°	755.8	718.7	732.3	828.0	1048.7	4759.2	10297.5	11631.4
52.5°	708.9	660.1	667.9	755.8	997.9	5452.4	11682.1	13510.0
55°	660.1	605.4	609.3	683.5	925.7	5555.9	13033.5	16072.2
57.5°	605.4	554.6	554.6	617.1	872.9	4815.8	14072.5	19251.5
60°	544.9	511.7	501.9	564.4	919.8	3398.0	14193.5	21302.0
62.5°	478.5	460.9	447.2	513.6	955.0	2013.4	13219.1	20806.0
65°	402.3	398.4	388.6	564.4	804.6	1189.3	11348.2	19284.7
67.5°	337.8	332.0	332.0	591.7	611.3	748.0	8866.1	17191.2
70°	291.0	269.5	269.5	447.2	371.0	517.5	6190.6	14931.7
72.5°	244.1	220.7	205.1	357.4	277.3	378.9	3868.7	12787.5
75°	195.3	177.7	158.2	236.3	207.0	287.1	2247.8	10594.4
77.5°	140.6	132.8	111.3	173.8	150.4	207.0	1337.7	8174.8
80°	72.3	74.2	70.3	99.6	101.5	140.6	761.6	5595.0
82.5°	43.0	33.2	37.1	48.8	58.6	80.1	287.1	3288.7
85°	27.3	17.6	17.6	23.4	29.3	31.2	87.9	1333.8
87.5°	13.7	5.9	7.8	11.7	9.8	7.8	3.9	335.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)