

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: P949501

Luminaire Tested: **GALN-SB4B-727-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949501
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-SB4B-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 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: 15976 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 147
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



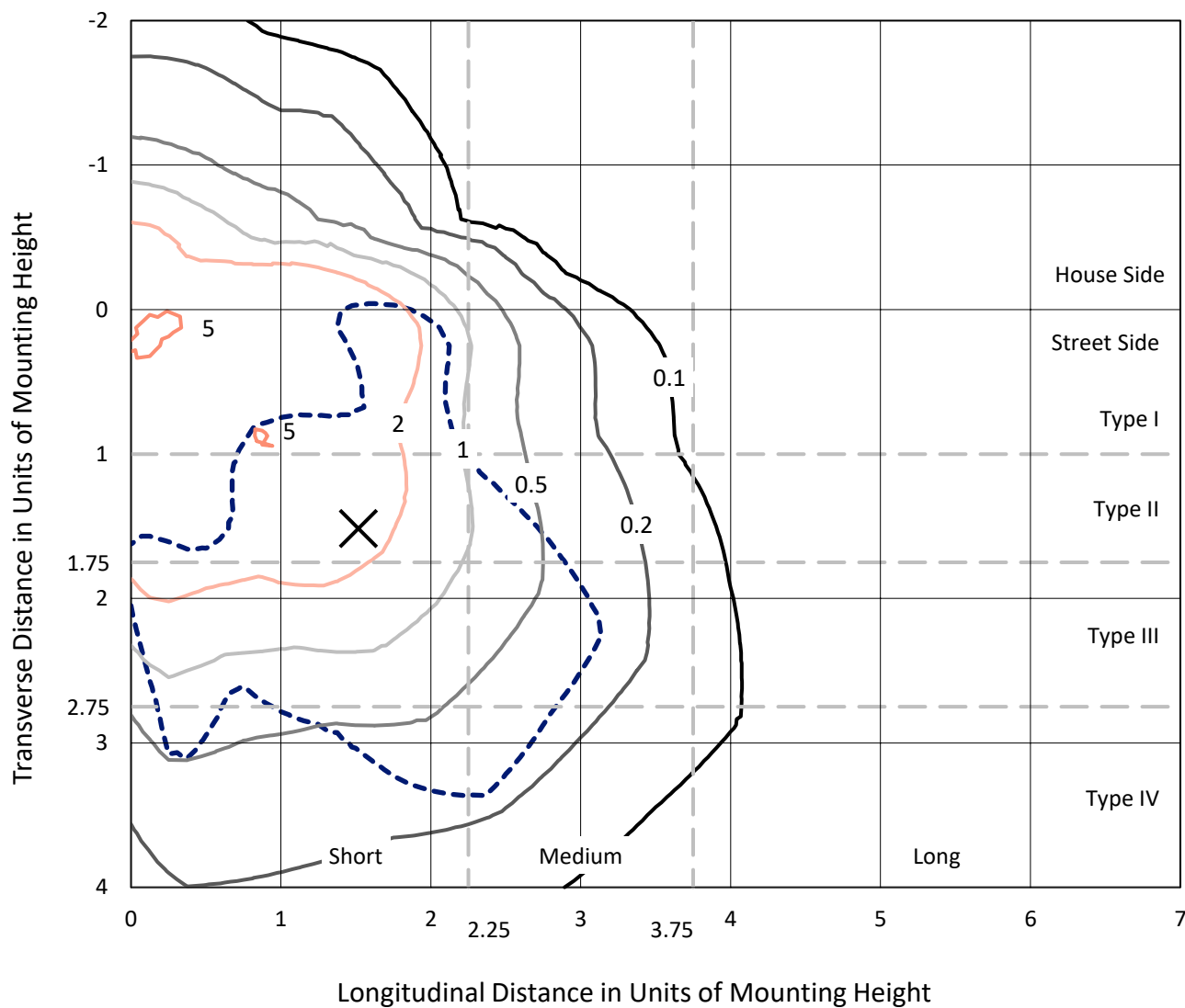
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

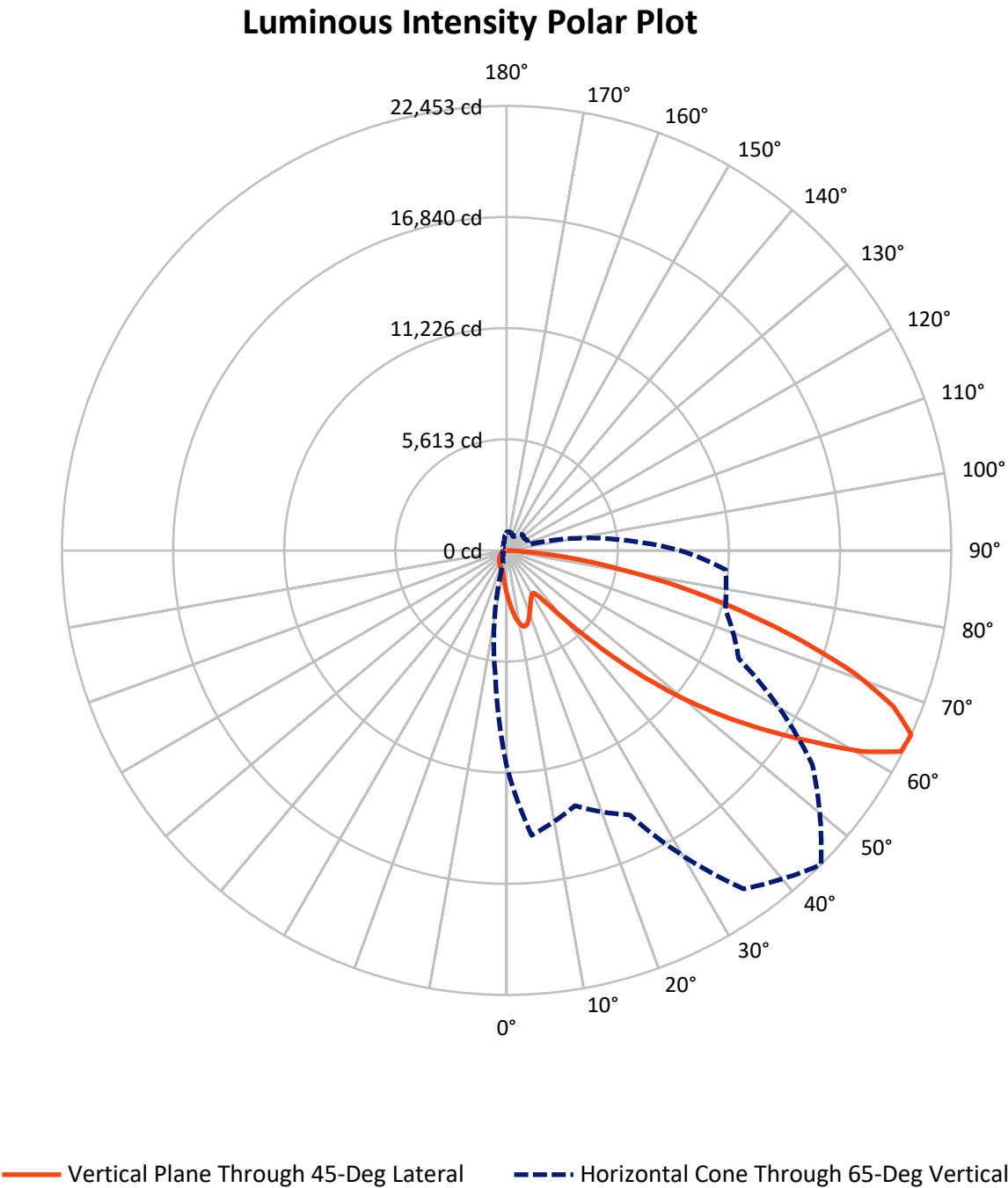
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc

Type IV - Short - N/A

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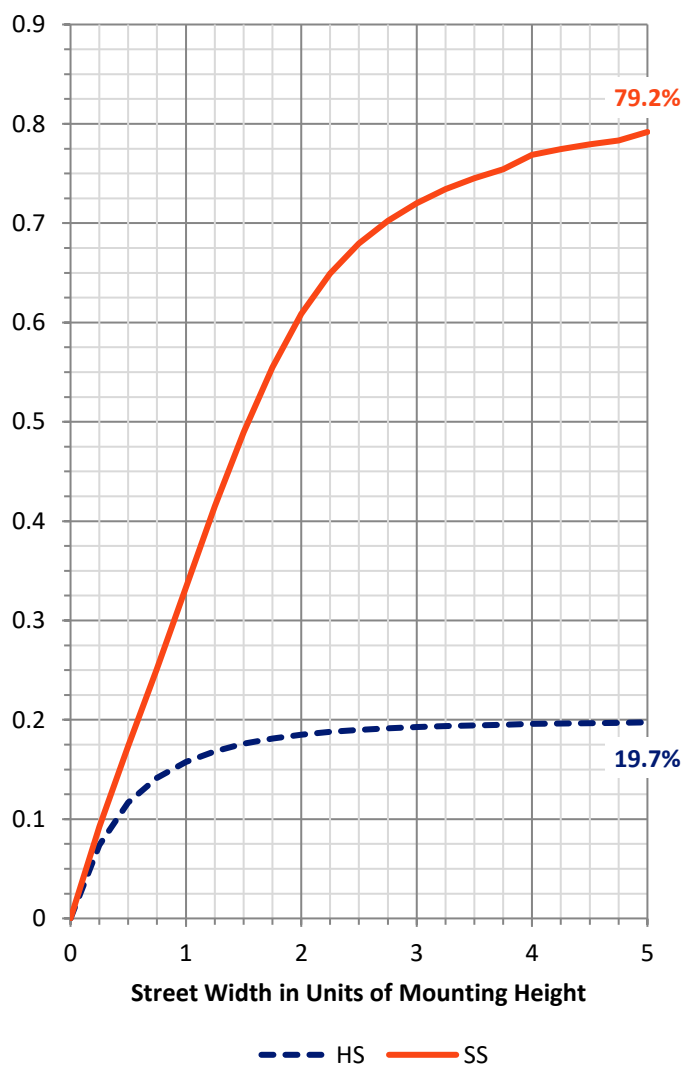
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3175.5	0.0	3175.5
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	12800.5	0.0	12800.5
	% Fixture	80.1	0.0	80.1
Total	Lumens	15976.0	0.0	15976.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.8	1.4
10°-20°	652.9	4.1
20°-30°	961.8	6.0
30°-40°	1235.7	7.7
40°-50°	1998.5	12.5
50°-60°	3504.5	21.9
60°-70°	4385.1	27.4
70°-80°	2562.5	16.0
80°-90°	457.2	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°	15976.0	100.0
0°-180°	15976.0	100.0

Coefficient of Utilization



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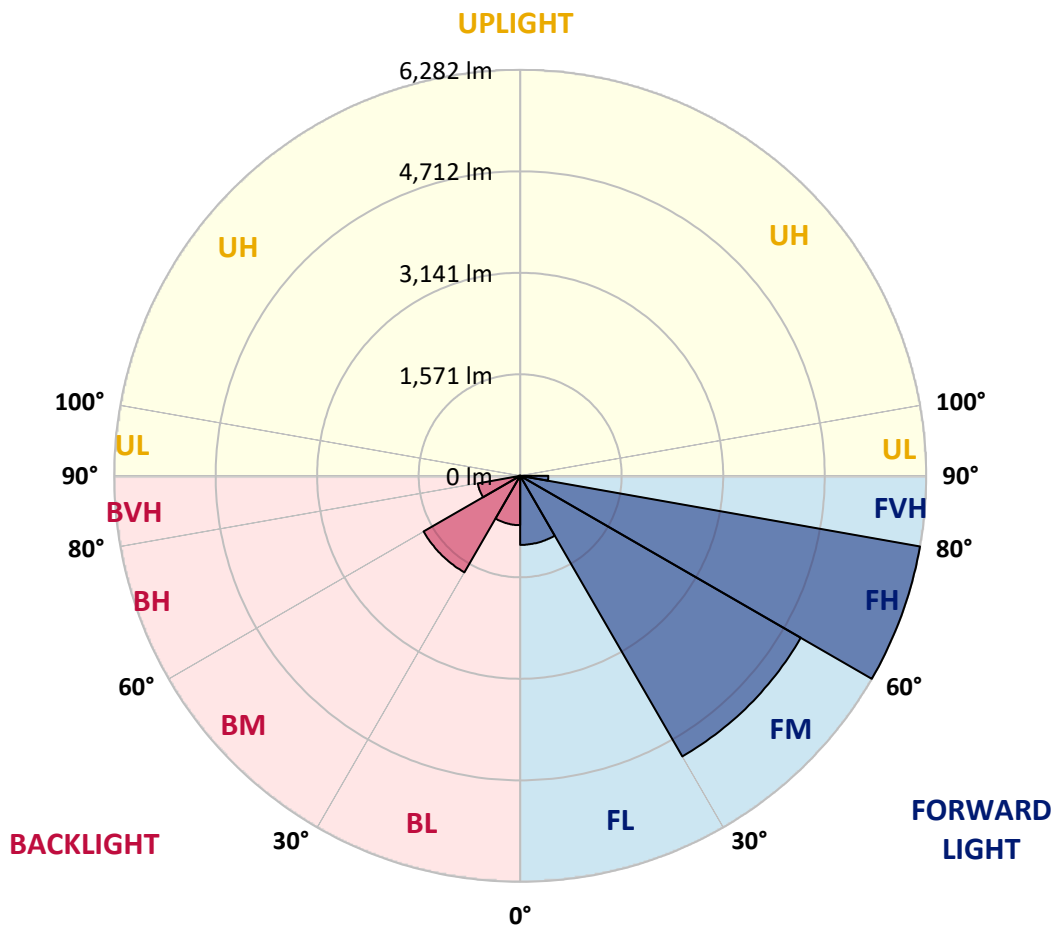
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1069.0	6.7			
FM	(30°-60°)	5013.5	31.4			
FH	(60°-80°)	6282.3	39.3			G3/7500
FVH	(80°-90°)	435.8	2.7			G3/500
BL	(0°-30°)	763.5	4.8	B2/1000		
BM	(30°-60°)	1725.2	10.8	B2/2500		
BH	(60°-80°)	665.3	4.2	B2/1000		G2/1000
BVH	(80°-90°)	21.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2212.2	2212.2	2212.2	2212.2	2212.2	2212.2	2212.2	2212.2	2212.2	2212.2	2212.2
2.5°	2478.5	2497.2	2539.0	2561.0	2595.2	2597.4	2597.4	2567.7	2566.6	2506.0	2499.4
5°	2770.2	2814.2	2913.2	3015.6	3037.6	3043.1	3032.1	2972.7	2928.6	2810.9	2785.6
7.5°	3059.6	3144.4	3295.1	3431.6	3475.6	3475.6	3449.2	3352.4	3262.1	3091.5	3027.7
10°	3299.5	3406.3	3611.0	3764.0	3814.6	3803.6	3749.7	3627.5	3503.1	3296.2	3212.6
12.5°	3458.0	3578.0	3802.5	3925.8	3977.5	3948.9	3887.2	3768.4	3637.4	3419.5	3324.9
15°	3537.3	3662.7	3857.5	3922.5	3908.2	3878.4	3870.7	3813.5	3714.5	3510.8	3407.4
17.5°	3571.4	3688.0	3823.4	3782.7	3661.6	3638.5	3715.6	3788.2	3764.0	3590.1	3493.2
20°	3603.3	3701.2	3742.0	3561.5	3350.2	3329.3	3476.7	3683.6	3789.3	3663.8	3574.7
22.5°	3647.3	3707.9	3624.2	3328.2	3100.3	3051.9	3214.8	3526.3	3797.0	3757.4	3668.2
25°	3707.9	3724.4	3494.3	3106.9	2878.0	2829.6	2981.5	3351.3	3783.8	3858.6	3782.7
27.5°	3780.5	3746.4	3370.0	2922.0	2700.8	2655.7	2807.6	3182.9	3746.4	3959.9	3906.0
30°	3875.1	3775.0	3246.7	2779.0	2574.3	2541.2	2687.6	3037.6	3700.1	4088.7	4058.9
32.5°	3970.9	3787.1	3132.2	2695.3	2545.6	2557.7	2677.7	2959.5	3649.5	4211.9	4226.2
35°	4074.3	3825.6	3076.1	2777.9	2784.5	2890.1	2939.6	3032.1	3641.8	4379.2	4435.3
37.5°	4215.2	3911.5	3143.3	3188.4	3417.3	3636.3	3595.6	3387.6	3731.0	4629.0	4733.6
40°	4417.7	4062.2	3436.0	3887.2	4357.2	4712.7	4557.5	4033.6	4003.9	4988.9	5145.2
42.5°	4712.7	4302.2	3955.5	4741.3	5538.1	6123.6	5707.6	4866.8	4481.6	5502.9	5702.1
45°	5148.5	4690.7	4583.9	5642.7	6994.2	7916.5	7051.4	5754.9	5150.7	6281.0	6437.3
47.5°	5752.7	5261.9	5172.7	6592.5	8763.9	9956.9	8541.6	6578.2	5912.3	7342.0	7378.3
50°	6555.1	6031.2	5730.7	7631.4	10704.2	12037.0	10030.7	7372.8	6785.1	8638.4	8596.6
52.5°	7613.8	7104.2	6381.2	8620.8	12699.6	14073.1	11526.4	8070.5	7868.0	10142.9	10057.1
55°	9057.8	8718.8	7270.4	9565.1	14693.8	16121.3	12963.7	8728.7	9298.8	11930.3	11410.8
57.5°	10849.5	11091.6	8552.6	10660.2	16486.7	18232.2	14407.7	9648.8	11156.6	13928.9	12196.6
60°	12005.1	14247.0	11008.0	12279.2	18523.9	20619.4	16386.5	11398.7	13109.0	14645.4	12046.9
62.5°	11725.6	15250.7	13948.7	14346.1	20397.0	22355.0	18325.7	13156.3	13476.6	13590.0	10893.5
65°	10868.2	14440.7	13348.9	14747.8	20871.4	22452.9	18844.1	12929.6	11431.7	11094.9	8756.2
67.5°	9688.4	13479.9	11923.7	13682.4	20014.0	21083.8	17878.9	11437.2	8834.4	8325.9	6352.5
70°	8415.0	12416.7	10988.2	12487.2	18379.7	18697.7	16238.0	10059.3	6497.8	5622.9	4076.5
72.5°	7206.6	11309.6	10347.6	11262.2	16199.4	15541.3	14101.7	8841.0	4731.4	4055.6	2897.8
75°	5970.6	9676.3	9435.3	9807.3	13332.4	12241.7	11716.8	7320.0	3713.4	2934.1	1999.8
77.5°	4607.0	7561.0	8115.7	7853.7	9384.6	9093.0	9082.0	5500.7	2712.9	1957.9	1253.6
80°	3153.2	5269.6	6340.4	5540.3	6090.6	5942.0	6840.1	3690.2	1967.8	1178.7	697.8
82.5°	1853.4	3208.2	4413.3	2682.1	3367.8	3456.9	4073.2	1795.0	1157.8	271.8	151.9
85°	751.7	1266.8	1725.7	1050.0	1624.5	1370.2	1546.3	504.1	322.5	6.6	0.0
87.5°	189.3	405.0	283.9	117.8	188.2	172.8	136.5	61.6	13.2	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°	2212.2	2212.2	2212.2	2212.2	2212.2	2212.2	2212.2	2212.2	2212.2	2212.2	2212.2
2.5°	2456.5	2431.2	2368.4	2305.7	2255.1	2186.9	2141.7	2087.8	2036.1	1989.8	1981.0
5°	2716.2	2632.6	2518.1	2413.6	2306.8	2203.4	2101.0	1993.1	1894.1	1833.6	1795.0
7.5°	2927.5	2780.1	2628.2	2495.0	2366.2	2245.2	2109.8	1978.8	1823.7	1741.1	1666.3
10°	3084.9	2891.2	2692.0	2539.0	2409.2	2291.4	2176.9	2044.9	1857.8	1754.3	1642.1
12.5°	3188.4	2958.4	2725.0	2550.0	2404.8	2313.4	2262.8	2211.1	2025.1	1904.0	1741.1
15°	3259.9	3005.7	2748.1	2524.7	2346.4	2279.3	2329.9	2389.4	2270.5	2130.7	1918.3
17.5°	3338.1	3067.3	2758.1	2456.5	2233.1	2204.5	2335.4	2473.0	2467.5	2328.8	2120.8
20°	3420.6	3121.2	2751.4	2346.4	2095.5	2120.8	2288.1	2447.7	2514.8	2440.0	2255.1
22.5°	3505.3	3173.0	2726.1	2203.4	1966.7	2046.0	2213.3	2353.0	2432.3	2409.2	2268.3
25°	3612.1	3245.6	2688.7	2049.3	1860.0	1970.0	2126.3	2239.7	2294.7	2293.6	2196.8
27.5°	3739.8	3342.5	2668.9	1924.9	1784.0	1884.2	2022.9	2124.1	2162.6	2162.6	2085.6
30°	3888.3	3456.9	2646.9	1843.5	1740.0	1795.0	1902.9	2002.0	2040.5	2040.5	1975.5
32.5°	4053.4	3567.0	2594.1	1793.9	1707.0	1708.1	1776.3	1866.6	1912.8	1919.4	1873.2
35°	4251.5	3684.7	2478.5	1754.3	1668.5	1623.4	1656.4	1731.2	1786.2	1800.5	1771.9
37.5°	4511.3	3828.9	2313.4	1696.0	1609.0	1534.2	1541.9	1599.1	1659.7	1681.7	1663.0
40°	4860.2	3998.4	2141.7	1612.3	1525.4	1436.3	1433.0	1474.8	1534.2	1558.4	1548.5
42.5°	5321.3	4202.0	1977.7	1532.0	1424.1	1332.8	1327.3	1360.3	1412.0	1437.4	1433.0
45°	5911.2	4451.8	1836.9	1469.3	1325.1	1234.9	1232.6	1260.2	1305.3	1331.7	1326.2
47.5°	6731.1	4701.7	1741.1	1436.3	1247.0	1154.5	1158.9	1183.1	1223.8	1242.6	1234.9
50°	7799.8	4777.6	1692.7	1436.3	1205.1	1083.0	1105.0	1124.8	1155.6	1166.6	1156.7
52.5°	8825.5	4526.7	1648.7	1445.1	1210.6	1022.4	1069.8	1084.1	1110.5	1114.9	1100.6
55°	9328.5	3891.6	1588.1	1447.3	1244.8	970.7	1041.1	1067.6	1077.5	1076.4	1052.2
57.5°	9155.7	3146.6	1485.8	1438.5	1267.9	937.7	1005.9	1056.6	1063.2	1053.3	1008.1
60°	8549.3	2316.7	1407.6	1373.5	1259.1	927.8	952.0	1032.3	1042.2	1029.0	955.3
62.5°	7532.4	1607.9	1347.1	1230.4	1220.5	924.5	867.3	979.5	1003.7	985.0	877.2
65°	5929.9	1135.8	1160.0	1078.6	1136.9	906.9	779.2	915.7	948.7	920.1	768.2
67.5°	4012.7	819.9	939.9	977.3	1001.5	867.3	715.4	843.0	887.1	849.6	641.6
70°	2167.0	575.6	620.7	823.2	850.7	799.0	658.1	769.3	819.9	779.2	522.8
72.5°	1280.0	413.8	434.7	661.4	708.8	703.3	594.3	683.5	745.1	696.7	424.8
75°	705.5	279.5	310.4	479.9	575.6	542.6	510.7	578.9	641.6	594.3	328.0
77.5°	315.9	167.3	215.7	314.8	452.3	372.0	395.1	451.2	509.6	460.0	219.0
80°	122.2	93.5	143.1	171.7	329.1	205.8	254.2	332.4	374.2	334.6	133.2
82.5°	15.4	41.8	61.6	67.1	191.5	109.0	147.5	209.1	205.8	178.3	67.1
85°	0.0	7.7	8.8	4.4	82.5	39.6	48.4	68.2	63.8	48.4	5.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	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°	2212.2	2212.2	2212.2	2212.2	2212.2	2212.2	2212.2	2212.2	2212.2	2212.2	2212.2
2.5°	1927.1	1887.5	1867.7	1851.2	1866.6	1875.4	1875.4	1912.8	1934.8	1943.6	2005.3
5°	1698.2	1624.5	1574.9	1545.2	1555.1	1566.1	1578.2	1625.6	1657.5	1678.4	1774.1
7.5°	1517.7	1405.4	1336.1	1299.8	1305.3	1313.0	1322.9	1369.1	1401.0	1428.6	1535.3
10°	1428.6	1270.1	1178.7	1134.7	1127.0	1122.6	1119.3	1146.8	1171.0	1193.0	1298.7
12.5°	1433.0	1211.7	1100.6	1046.7	1023.5	997.1	976.2	980.6	996.0	1023.5	1090.7
15°	1489.1	1193.0	1059.9	992.7	954.2	923.4	898.1	892.6	898.1	902.5	944.3
17.5°	1565.0	1190.8	1024.6	941.0	901.4	876.1	852.9	845.2	846.3	851.8	862.9
20°	1625.6	1184.2	985.0	891.5	856.3	834.2	811.1	803.4	805.6	806.7	818.8
22.5°	1657.5	1174.3	941.0	841.9	812.2	790.2	769.3	768.2	768.2	774.8	783.6
25°	1657.5	1153.4	901.4	794.6	768.2	748.4	723.1	727.5	729.7	738.5	751.7
27.5°	1617.9	1113.8	869.5	753.9	726.4	706.6	683.5	689.0	692.3	702.2	718.7
30°	1567.2	1066.5	833.1	715.4	683.5	669.2	649.3	651.5	655.9	667.0	685.7
32.5°	1513.3	1010.3	803.4	676.9	644.9	633.9	611.9	615.2	619.6	631.7	652.6
35°	1453.9	944.3	768.2	641.6	609.7	600.9	575.6	577.8	584.4	597.6	618.5
37.5°	1391.1	890.4	733.0	607.5	574.5	565.7	539.3	541.5	549.2	564.6	584.4
40°	1329.5	837.5	695.6	571.2	538.2	530.5	501.9	504.1	512.9	529.4	550.3
42.5°	1262.4	796.8	647.1	533.8	498.6	490.9	464.4	467.7	477.7	494.2	515.1
45°	1182.0	770.4	593.2	498.6	458.9	451.2	427.0	433.6	444.6	461.1	483.2
47.5°	1099.5	759.4	548.1	461.1	418.2	411.6	391.8	402.8	414.9	428.1	452.3
50°	1020.2	745.1	501.9	425.9	383.0	376.4	363.2	377.5	389.6	401.7	424.8
52.5°	930.0	714.3	460.0	395.1	353.3	351.1	344.5	357.7	368.7	379.7	399.5
55°	836.4	664.8	423.7	367.6	328.0	330.2	326.9	337.9	346.7	356.6	374.2
57.5°	755.0	602.0	395.1	337.9	306.0	312.6	308.2	313.7	319.2	331.3	345.6
60°	672.5	527.2	363.2	302.7	283.9	291.7	279.5	278.4	280.6	283.9	310.4
62.5°	561.3	449.0	323.6	271.8	259.7	263.0	239.9	222.3	222.3	225.6	265.2
65°	451.2	376.4	279.5	236.6	226.7	224.5	191.5	167.3	165.1	175.0	209.1
67.5°	370.9	312.6	235.5	197.0	190.4	192.6	168.4	144.2	142.0	153.0	178.3
70°	307.1	252.0	188.2	151.9	158.5	168.4	144.2	121.1	117.8	127.7	151.9
72.5°	244.3	197.0	144.2	112.3	131.0	143.1	117.8	95.8	93.5	102.4	125.5
75°	179.4	140.9	98.0	81.4	101.3	112.3	85.8	68.2	64.9	72.6	95.8
77.5°	111.2	79.2	61.6	48.4	69.3	74.8	45.1	39.6	38.5	44.0	60.5
80°	51.7	34.1	29.7	16.5	25.3	29.7	18.7	20.9	22.0	26.4	37.4
82.5°	14.3	5.5	1.1	0.0	0.0	8.8	4.4	8.8	11.0	16.5	24.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	5.5	9.9	17.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	8.8
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2212.2	2212.2	2212.2	2212.2	2212.2	2212.2	2212.2	2212.2
2.5°	2051.5	2095.5	2165.9	2238.6	2310.1	2382.8	2453.2	2478.5
5°	1861.1	1962.3	2102.1	2251.8	2405.9	2562.1	2705.2	2770.2
7.5°	1648.7	1793.9	2004.2	2238.6	2484.0	2729.4	2955.1	3059.6
10°	1421.9	1605.7	1845.7	2162.6	2514.8	2853.8	3164.2	3299.5
12.5°	1206.2	1398.8	1664.1	2043.8	2490.6	2925.3	3298.4	3458.0
15°	1025.7	1196.3	1482.5	1902.9	2412.5	2929.7	3362.3	3537.3
17.5°	890.4	1001.5	1297.6	1746.6	2310.1	2889.0	3384.3	3571.4
20°	823.2	854.0	1057.7	1546.3	2214.4	2850.5	3406.3	3603.3
22.5°	783.6	791.3	865.1	1287.7	2099.9	2838.4	3444.8	3647.3
25°	751.7	753.9	773.7	1020.2	1924.9	2830.7	3504.2	3707.9
27.5°	719.8	719.8	730.8	822.1	1687.2	2797.7	3581.3	3780.5
30°	687.9	687.9	695.6	727.5	1408.7	2732.7	3673.7	3875.1
32.5°	654.8	654.8	661.4	684.6	1124.8	2651.3	3758.5	3970.9
35°	621.8	619.6	628.4	652.6	894.8	2547.8	3843.2	4074.3
37.5°	586.6	585.5	594.3	621.8	772.6	2427.9	3907.1	4215.2
40°	549.2	549.2	559.1	588.8	737.4	2277.1	4008.3	4417.7
42.5°	515.1	512.9	523.9	560.2	711.0	2132.9	4189.9	4712.7
45°	482.1	477.7	487.6	532.7	664.8	2082.3	4528.9	5148.5
47.5°	451.2	440.2	449.0	499.7	622.9	2271.6	5083.6	5752.7
50°	425.9	405.0	412.7	466.6	591.0	2682.1	5803.4	6555.1
52.5°	399.5	372.0	376.4	425.9	562.4	3072.8	6583.7	7613.8
55°	372.0	341.2	343.4	385.2	521.7	3131.1	7345.3	9057.8
57.5°	341.2	312.6	312.6	347.8	492.0	2714.0	7930.8	10849.5
60°	307.1	288.4	282.8	318.1	518.4	1915.0	7999.0	12005.1
62.5°	269.6	259.7	252.0	289.5	538.2	1134.7	7449.8	11725.6
65°	226.7	224.5	219.0	318.1	453.4	670.3	6395.5	10868.2
67.5°	190.4	187.1	187.1	333.5	344.5	421.5	4996.6	9688.4
70°	164.0	151.9	151.9	252.0	209.1	291.7	3488.8	8415.0
72.5°	137.6	124.4	115.6	201.4	156.3	213.5	2180.2	7206.6
75°	110.1	100.2	89.1	133.2	116.7	161.8	1266.8	5970.6
77.5°	79.2	74.8	62.7	98.0	84.7	116.7	753.9	4607.0
80°	40.7	41.8	39.6	56.1	57.2	79.2	429.2	3153.2
82.5°	24.2	18.7	20.9	27.5	33.0	45.1	161.8	1853.4
85°	15.4	9.9	9.9	13.2	16.5	17.6	49.5	751.7
87.5°	7.7	3.3	4.4	6.6	5.5	4.4	2.2	189.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)