

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: P952000

Luminaire Tested: **GALN-SB6A-727-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952000
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-SB6A-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 350mA 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: 19256 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 170.9
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



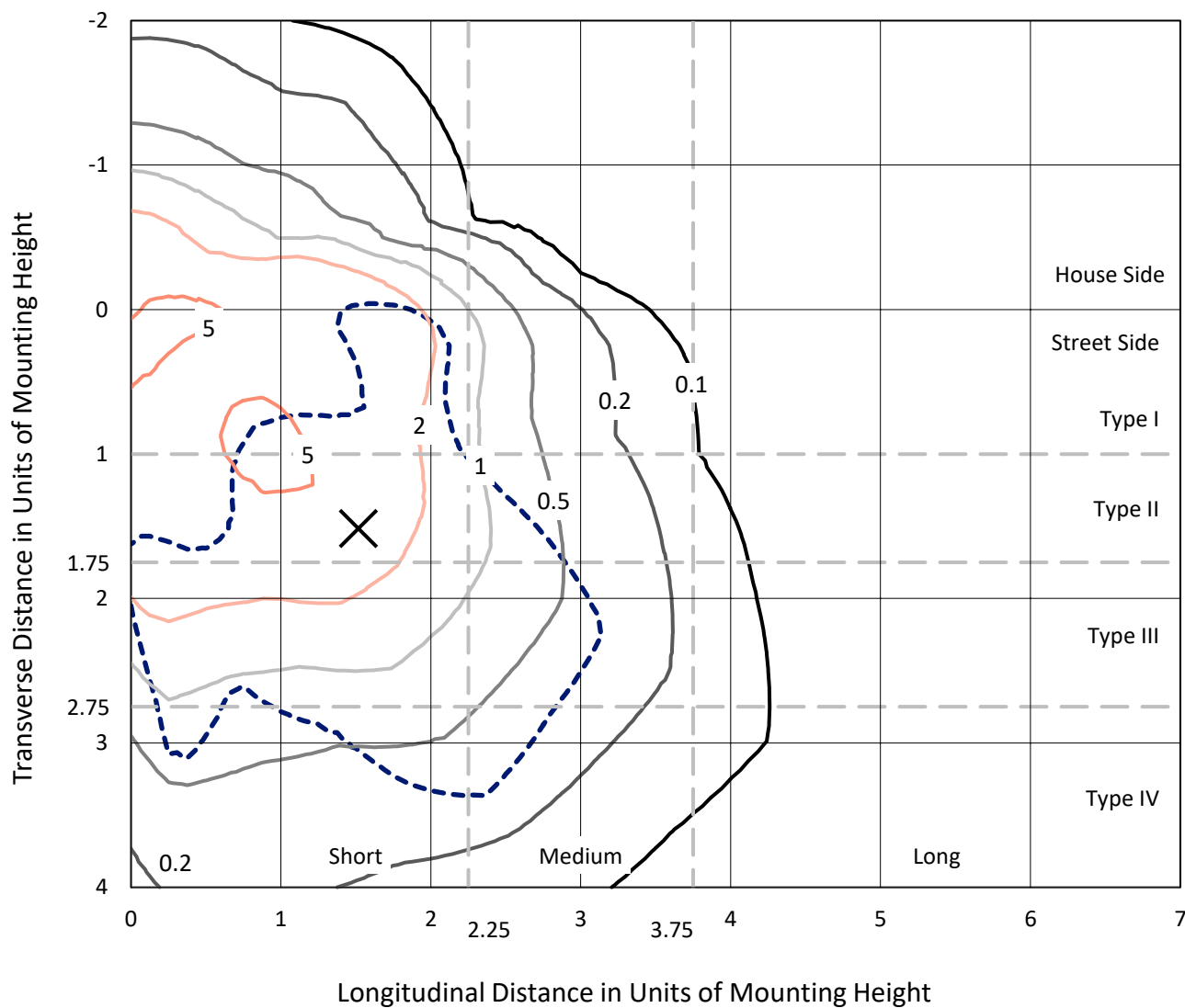
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Iso-Footcandle Lines of Horizontal Illumination

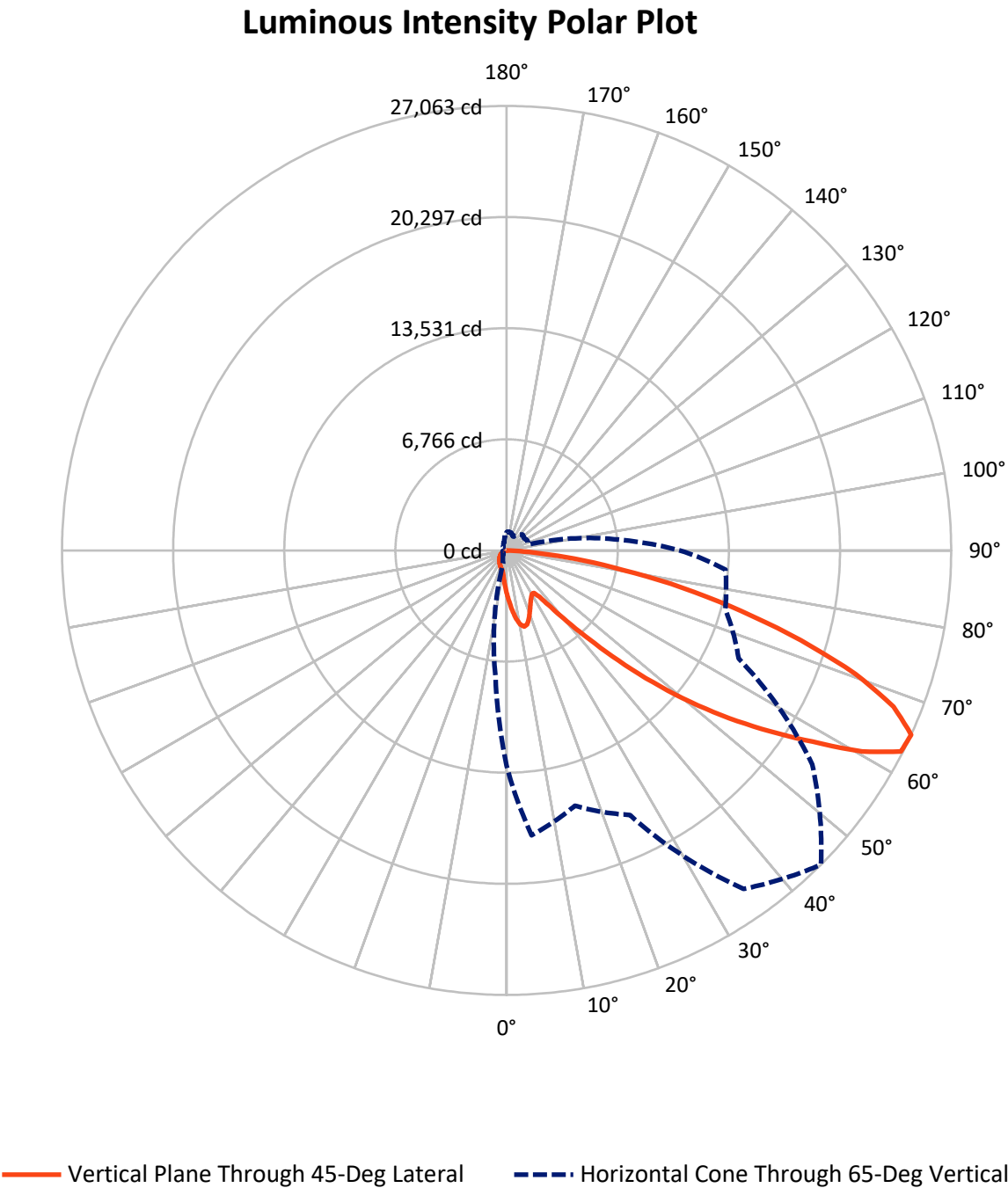
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
Type IV - Short - N/A

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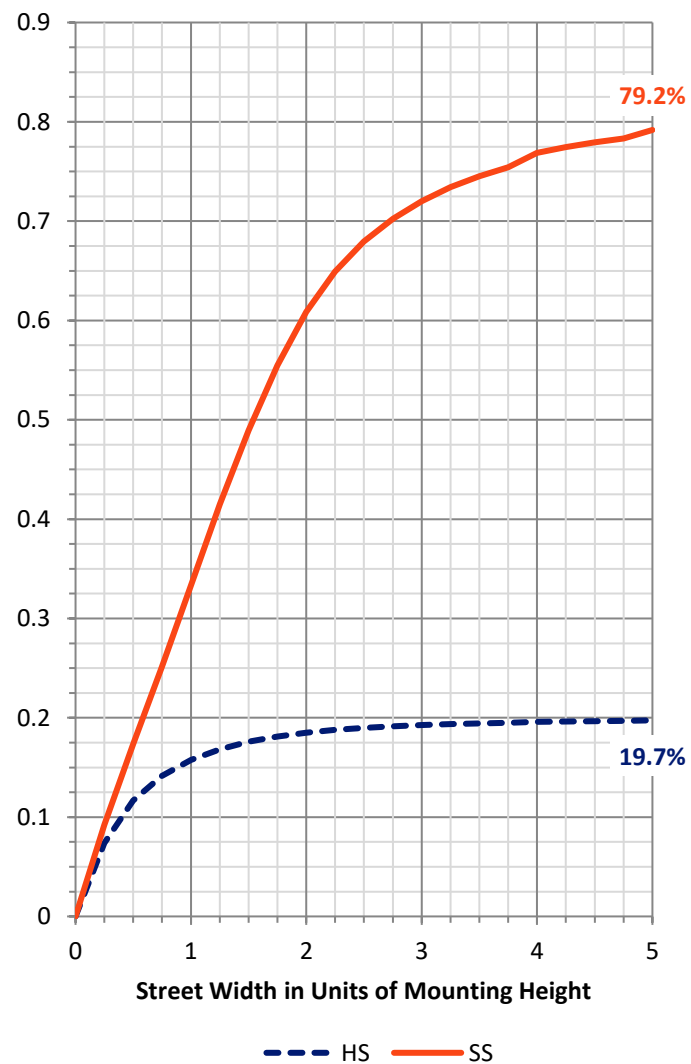
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3827.5	0.0	3827.5
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	15428.5	0.0	15428.5
	% Fixture	80.1	0.0	80.1
Total	Lumens	19256.0	0.0	19256.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.5	1.4
10°-20°	786.9	4.1
20°-30°	1159.3	6.0
30°-40°	1489.4	7.7
40°-50°	2408.8	12.5
50°-60°	4224.0	21.9
60°-70°	5285.4	27.4
70°-80°	3088.6	16.0
80°-90°	551.0	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°	19256.0	100.0
0°-180°	19256.0	100.0

Coefficient of Utilization



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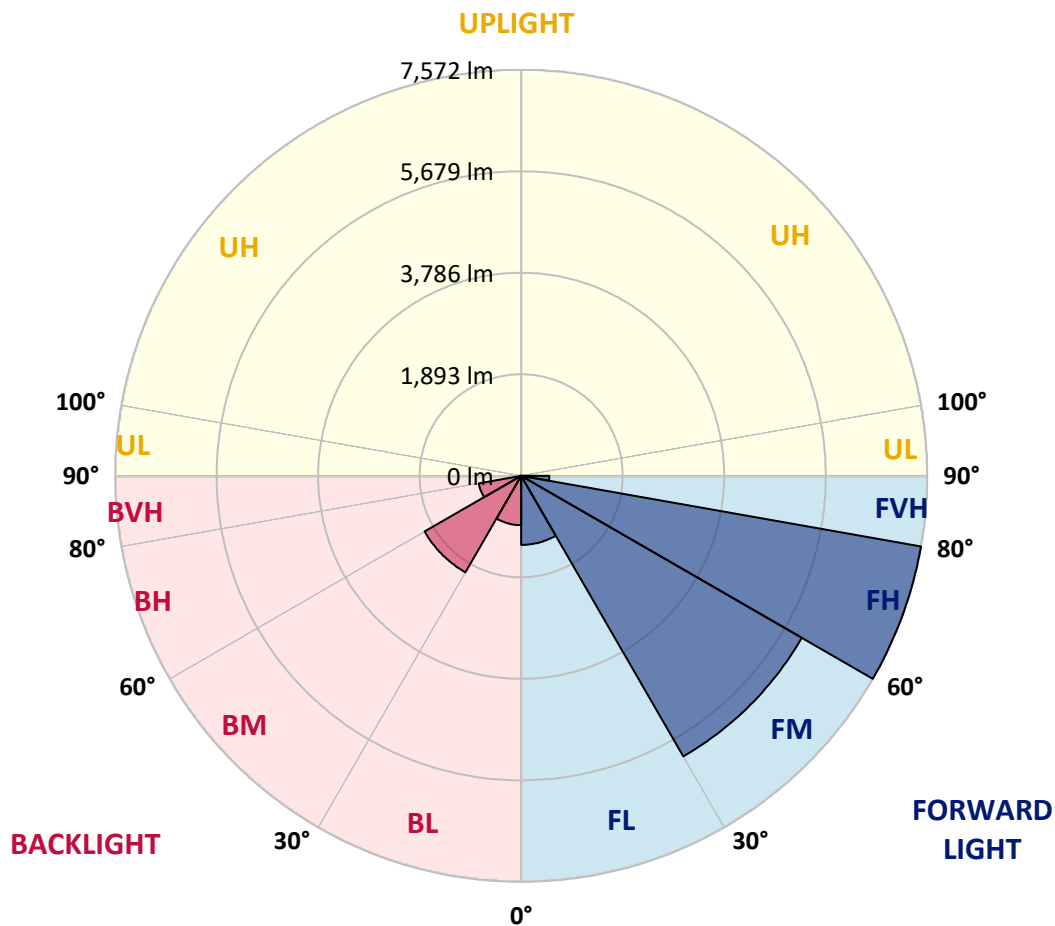
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1288.5	6.7			
FM	(30°-60°)	6042.8	31.4			
FH	(60°-80°)	7572.1	39.3			G4/12000
FVH	(80°-90°)	525.2	2.7			G4/750
BL	(0°-30°)	920.3	4.8	B2/1000		
BM	(30°-60°)	2079.5	10.8	B2/2500		
BH	(60°-80°)	801.9	4.2	B2/1000		G2/1000
BVH	(80°-90°)	25.8	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3
2.5°	2987.4	3009.9	3060.3	3086.9	3128.0	3130.6	3130.6	3094.8	3093.5	3020.5	3012.6
5°	3338.9	3392.0	3511.3	3634.7	3661.2	3667.9	3654.6	3583.0	3529.9	3388.0	3357.5
7.5°	3687.8	3789.9	3971.7	4136.1	4189.2	4189.2	4157.4	4040.6	3931.9	3726.2	3649.3
10°	3977.0	4105.6	4352.4	4536.8	4597.8	4584.5	4519.5	4372.3	4222.4	3973.0	3872.2
12.5°	4168.0	4312.6	4583.2	4731.8	4794.1	4759.6	4685.3	4542.1	4384.2	4121.6	4007.5
15°	4263.5	4414.7	4649.5	4727.8	4710.5	4674.7	4665.4	4596.5	4477.1	4231.7	4107.0
17.5°	4304.6	4445.2	4608.4	4559.3	4413.4	4385.5	4478.4	4565.9	4536.8	4327.2	4210.4
20°	4343.1	4461.1	4510.2	4292.7	4038.0	4012.8	4190.5	4439.9	4567.3	4416.0	4308.6
22.5°	4396.1	4469.1	4368.3	4011.4	3736.9	3678.5	3874.8	4250.2	4576.6	4528.8	4421.3
25°	4469.1	4489.0	4211.8	3744.8	3468.9	3410.5	3593.6	4039.3	4560.6	4650.8	4559.3
27.5°	4556.7	4515.5	4061.9	3522.0	3255.3	3200.9	3384.0	3836.3	4515.5	4772.9	4707.9
30°	4670.7	4550.0	3913.3	3349.5	3102.8	3063.0	3239.4	3661.2	4459.8	4928.1	4892.3
32.5°	4786.1	4564.6	3775.3	3248.7	3068.3	3082.9	3227.5	3567.1	4398.8	5076.7	5093.9
35°	4910.8	4611.0	3707.7	3348.2	3356.1	3483.5	3543.2	3654.6	4389.5	5278.3	5345.9
37.5°	5080.6	4714.5	3788.6	3843.0	4118.9	4382.9	4333.8	4083.1	4497.0	5579.4	5705.4
40°	5324.7	4896.2	4141.4	4685.3	5251.8	5680.2	5493.2	4861.8	4825.9	6013.2	6201.6
42.5°	5680.2	5185.4	4767.6	5714.7	6675.1	7380.9	6879.4	5865.9	5401.7	6632.7	6872.8
45°	6205.5	5653.7	5525.0	6801.2	8430.1	9541.8	8499.1	6936.5	6208.2	7570.5	7758.9
47.5°	6933.8	6342.2	6234.7	7946.0	10563.2	12001.2	10295.3	7928.7	7126.2	8849.3	8893.1
50°	7900.9	7269.4	6907.3	9198.2	12901.9	14508.3	12090.1	8886.5	8178.1	10412.0	10361.6
52.5°	9177.0	8562.8	7691.3	10390.8	15306.9	16962.4	13892.8	9727.5	9483.4	12225.4	12121.9
55°	10917.4	10508.8	8763.1	11528.9	17710.6	19431.1	15625.3	10520.8	11207.9	14379.7	13753.5
57.5°	13077.0	13368.8	10308.5	12848.8	19871.5	21975.4	17365.7	11629.8	13447.1	16788.7	14700.7
60°	14469.9	17172.0	13268.0	14800.2	22326.9	24852.7	19750.8	13738.9	15800.4	17652.2	14520.3
62.5°	14132.9	18381.8	16812.5	17291.4	24584.7	26944.6	22088.2	15857.4	16243.4	16380.1	13130.1
65°	13099.6	17405.5	16089.6	17775.6	25156.5	27062.7	22713.0	15584.2	13778.7	13372.8	10553.9
67.5°	11677.5	16247.4	14371.7	16491.5	24123.1	25412.5	21549.6	13785.4	10648.1	10035.3	7656.8
70°	10142.7	14966.0	13244.1	15050.9	22153.2	22536.5	19571.7	12124.6	7831.9	6777.3	4913.5
72.5°	8686.2	13631.5	12472.1	13574.5	19525.3	18732.0	16996.9	10656.1	5702.8	4888.3	3492.8
75°	7196.5	11662.9	11372.4	11820.8	16069.7	14755.1	14122.3	8822.8	4475.7	3536.5	2410.3
77.5°	5552.9	9113.3	9781.9	9466.2	11311.4	10959.9	10946.6	6630.0	3269.9	2359.9	1510.9
80°	3800.5	6351.5	7642.2	6677.8	7341.1	7162.0	8244.4	4447.9	2371.8	1420.7	841.0
82.5°	2233.9	3866.9	5319.4	3232.8	4059.2	4166.7	4909.5	2163.6	1395.5	327.7	183.1
85°	906.0	1526.8	2080.0	1265.5	1958.0	1651.5	1863.8	607.6	388.7	8.0	0.0
87.5°	228.2	488.2	342.2	141.9	226.8	208.3	164.5	74.3	15.9	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3
2.5°	2960.8	2930.3	2854.7	2779.1	2718.1	2635.8	2581.4	2516.4	2454.1	2398.4	2387.8
5°	3273.9	3173.1	3035.1	2909.1	2780.4	2655.7	2532.4	2402.4	2283.0	2210.0	2163.6
7.5°	3528.6	3350.8	3167.8	3007.3	2852.1	2706.1	2543.0	2385.1	2198.1	2098.6	2008.4
10°	3718.3	3484.8	3244.7	3060.3	2903.8	2761.9	2623.9	2464.7	2239.2	2114.5	1979.2
12.5°	3843.0	3565.7	3284.5	3073.6	2898.5	2788.4	2727.4	2665.0	2440.8	2294.9	2098.6
15°	3929.2	3622.8	3312.4	3043.1	2828.2	2747.3	2808.3	2879.9	2736.6	2568.2	2312.2
17.5°	4023.4	3697.1	3324.3	2960.8	2691.5	2657.1	2814.9	2980.7	2974.1	2807.0	2556.2
20°	4122.9	3762.1	3316.3	2828.2	2525.7	2556.2	2757.9	2950.2	3031.1	2940.9	2718.1
22.5°	4225.0	3824.4	3285.8	2655.7	2370.5	2466.0	2667.7	2836.1	2931.6	2903.8	2734.0
25°	4353.7	3912.0	3240.7	2470.0	2241.8	2374.5	2562.9	2699.5	2765.8	2764.5	2647.8
27.5°	4507.6	4028.7	3216.9	2320.1	2150.3	2271.0	2438.2	2560.2	2606.6	2606.6	2513.8
30°	4686.7	4166.7	3190.3	2221.9	2097.3	2163.6	2293.6	2413.0	2459.4	2459.4	2381.1
32.5°	4885.6	4299.3	3126.6	2162.3	2057.5	2058.8	2141.0	2249.8	2305.5	2313.5	2257.8
35°	5124.4	4441.2	2987.4	2114.5	2011.0	1956.6	1996.4	2086.6	2153.0	2170.2	2135.7
37.5°	5437.5	4615.0	2788.4	2044.2	1939.4	1849.2	1858.5	1927.5	2000.4	2026.9	2004.4
40°	5858.0	4819.3	2581.4	1943.4	1838.6	1731.1	1727.2	1777.6	1849.2	1878.4	1866.4
42.5°	6413.8	5064.7	2383.8	1846.5	1716.5	1606.4	1599.8	1639.6	1701.9	1732.5	1727.2
45°	7124.8	5365.8	2214.0	1770.9	1597.2	1488.4	1485.7	1518.9	1573.3	1605.1	1598.5
47.5°	8113.1	5667.0	2098.6	1731.1	1503.0	1391.5	1396.8	1426.0	1475.1	1497.7	1488.4
50°	9401.2	5758.5	2040.2	1731.1	1452.6	1305.3	1331.8	1355.7	1392.9	1406.1	1394.2
52.5°	10637.5	5456.0	1987.2	1741.7	1459.2	1232.4	1289.4	1306.6	1338.5	1343.8	1326.5
55°	11243.7	4690.6	1914.2	1744.4	1500.3	1170.0	1254.9	1286.7	1298.7	1297.4	1268.2
57.5°	11035.5	3792.6	1790.8	1733.8	1528.2	1130.2	1212.5	1273.5	1281.4	1269.5	1215.1
60°	10304.5	2792.4	1696.6	1655.5	1517.6	1118.3	1147.5	1244.3	1256.2	1240.3	1151.4
62.5°	9078.8	1938.1	1623.7	1483.1	1471.1	1114.3	1045.3	1180.6	1209.8	1187.3	1057.3
65°	7147.4	1369.0	1398.2	1300.0	1370.3	1093.1	939.2	1103.7	1143.5	1109.0	925.9
67.5°	4836.6	988.3	1132.9	1178.0	1207.1	1045.3	862.2	1016.1	1069.2	1024.1	773.4
70°	2612.0	693.8	748.2	992.2	1025.4	963.1	793.3	927.2	988.3	939.2	630.1
72.5°	1542.8	498.8	524.0	797.2	854.3	847.7	716.3	823.8	898.1	839.7	512.0
75°	850.3	336.9	374.1	578.4	693.8	654.0	615.5	697.8	773.4	716.3	395.3
77.5°	380.7	201.6	260.0	379.4	545.2	448.4	476.2	543.9	614.2	554.5	264.0
80°	147.2	112.8	172.4	206.9	396.6	248.1	306.4	400.6	451.0	403.3	160.5
82.5°	18.6	50.4	74.3	80.9	230.8	131.3	177.8	252.0	248.1	214.9	80.9
85°	0.0	9.3	10.6	5.3	99.5	47.8	58.4	82.2	76.9	58.4	6.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	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°	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3
2.5°	2322.8	2275.0	2251.1	2231.2	2249.8	2260.4	2260.4	2305.5	2332.1	2342.7	2417.0
5°	2046.8	1958.0	1898.3	1862.5	1874.4	1887.7	1902.3	1959.3	1997.8	2023.0	2138.4
7.5°	1829.3	1694.0	1610.4	1566.6	1573.3	1582.6	1594.5	1650.2	1688.7	1721.8	1850.5
10°	1721.8	1530.8	1420.7	1367.7	1358.4	1353.1	1349.1	1382.3	1411.4	1438.0	1565.3
12.5°	1727.2	1460.5	1326.5	1261.5	1233.7	1201.8	1176.6	1181.9	1200.5	1233.7	1314.6
15°	1794.8	1438.0	1277.5	1196.5	1150.1	1113.0	1082.5	1075.8	1082.5	1087.8	1138.2
17.5°	1886.3	1435.3	1235.0	1134.2	1086.4	1055.9	1028.1	1018.8	1020.1	1026.7	1040.0
20°	1959.3	1427.4	1187.3	1074.5	1032.0	1005.5	977.7	968.4	971.0	972.4	986.9
22.5°	1997.8	1415.4	1134.2	1014.8	979.0	952.5	927.2	925.9	925.9	933.9	944.5
25°	1997.8	1390.2	1086.4	957.8	925.9	902.0	871.5	876.8	879.5	890.1	906.0
27.5°	1950.0	1342.5	1048.0	908.7	875.5	851.6	823.8	830.4	834.4	846.3	866.2
30°	1889.0	1285.4	1004.2	862.2	823.8	806.5	782.7	785.3	790.6	803.9	826.4
32.5°	1824.0	1217.8	968.4	815.8	777.4	764.1	737.6	741.5	746.8	761.4	786.6
35°	1752.4	1138.2	925.9	773.4	734.9	724.3	693.8	696.4	704.4	720.3	745.5
37.5°	1676.7	1073.2	883.5	732.2	692.5	681.8	650.0	652.7	661.9	680.5	704.4
40°	1602.5	1009.5	838.4	688.5	648.7	639.4	604.9	607.6	618.2	638.1	663.3
42.5°	1521.5	960.4	780.0	643.4	600.9	591.6	559.8	563.8	575.7	595.6	620.8
45°	1424.7	928.6	715.0	600.9	553.2	543.9	514.7	522.7	535.9	555.8	582.3
47.5°	1325.2	915.3	660.6	555.8	504.1	496.1	472.2	485.5	500.1	516.0	545.2
50°	1229.7	898.1	604.9	513.4	461.6	453.7	437.8	455.0	469.6	484.2	512.0
52.5°	1120.9	860.9	554.5	476.2	425.8	423.2	415.2	431.1	444.4	457.7	481.5
55°	1008.2	801.2	510.7	443.1	395.3	398.0	394.0	407.2	417.9	429.8	451.0
57.5°	910.0	725.6	476.2	407.2	368.8	376.7	371.4	378.1	384.7	399.3	416.5
60°	810.5	635.4	437.8	364.8	342.2	351.5	336.9	335.6	338.3	342.2	374.1
62.5°	676.5	541.2	390.0	327.7	313.1	317.0	289.2	268.0	268.0	271.9	319.7
65°	543.9	453.7	336.9	285.2	273.3	270.6	230.8	201.6	199.0	210.9	252.0
67.5°	447.0	376.7	283.9	237.5	229.5	232.1	203.0	173.8	171.1	184.4	214.9
70°	370.1	303.8	226.8	183.1	191.0	203.0	173.8	145.9	141.9	153.9	183.1
72.5°	294.5	237.5	173.8	135.3	157.9	172.4	141.9	115.4	112.8	123.4	151.2
75°	216.2	169.8	118.1	98.2	122.0	135.3	103.5	82.2	78.3	87.6	115.4
77.5°	134.0	95.5	74.3	58.4	83.6	90.2	54.4	47.8	46.4	53.1	73.0
80°	62.3	41.1	35.8	19.9	30.5	35.8	22.6	25.2	26.5	31.8	45.1
82.5°	17.2	6.6	1.3	0.0	0.0	10.6	5.3	10.6	13.3	19.9	29.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	6.6	11.9	21.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	10.6
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°	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3	2666.3
2.5°	2472.7	2525.7	2610.6	2698.2	2784.4	2872.0	2956.9	2987.4
5°	2243.2	2365.2	2533.7	2714.1	2899.8	3088.2	3260.6	3338.9
7.5°	1987.2	2162.3	2415.6	2698.2	2994.0	3289.8	3561.8	3687.8
10°	1713.9	1935.4	2224.6	2606.6	3031.1	3439.7	3813.8	3977.0
12.5°	1453.9	1686.0	2005.7	2463.4	3002.0	3525.9	3975.6	4168.0
15°	1236.3	1441.9	1786.8	2293.6	2907.8	3531.2	4052.6	4263.5
17.5°	1073.2	1207.1	1564.0	2105.2	2784.4	3482.2	4079.1	4304.6
20°	992.2	1029.4	1274.8	1863.8	2669.0	3435.7	4105.6	4343.1
22.5°	944.5	953.8	1042.7	1552.0	2531.0	3421.1	4152.1	4396.1
25°	906.0	908.7	932.6	1229.7	2320.1	3411.9	4223.7	4469.1
27.5°	867.6	867.6	880.8	990.9	2033.6	3372.1	4316.6	4556.7
30°	829.1	829.1	838.4	876.8	1698.0	3293.8	4428.0	4670.7
32.5°	789.3	789.3	797.2	825.1	1355.7	3195.6	4530.1	4786.1
35°	749.5	746.8	757.5	786.6	1078.5	3070.9	4632.3	4910.8
37.5°	707.0	705.7	716.3	749.5	931.2	2926.3	4709.2	5080.6
40°	661.9	661.9	673.9	709.7	888.8	2744.6	4831.2	5324.7
42.5°	620.8	618.2	631.4	675.2	856.9	2570.8	5050.1	5680.2
45°	581.0	575.7	587.7	642.0	801.2	2509.8	5458.7	6205.5
47.5°	543.9	530.6	541.2	602.2	750.8	2738.0	6127.3	6933.8
50°	513.4	488.2	497.5	562.5	712.4	3232.8	6994.8	7900.9
52.5°	481.5	448.4	453.7	513.4	677.9	3703.7	7935.3	9177.0
55°	448.4	411.2	413.9	464.3	628.8	3774.0	8853.3	10917.4
57.5°	411.2	376.7	376.7	419.2	593.0	3271.2	9559.0	13077.0
60°	370.1	347.6	340.9	383.4	624.8	2308.2	9641.3	14469.9
62.5°	325.0	313.1	303.8	348.9	648.7	1367.7	8979.3	14132.9
65°	273.3	270.6	264.0	383.4	546.5	807.9	7708.5	13099.6
67.5°	229.5	225.5	225.5	401.9	415.2	508.1	6022.5	11677.5
70°	197.7	183.1	183.1	303.8	252.0	351.5	4205.1	10142.7
72.5°	165.8	149.9	139.3	242.8	188.4	257.3	2627.9	8686.2
75°	132.7	120.7	107.4	160.5	140.6	195.0	1526.8	7196.5
77.5°	95.5	90.2	75.6	118.1	102.1	140.6	908.7	5552.9
80°	49.1	50.4	47.8	67.7	69.0	95.5	517.3	3800.5
82.5°	29.2	22.6	25.2	33.2	39.8	54.4	195.0	2233.9
85°	18.6	11.9	11.9	15.9	19.9	21.2	59.7	906.0
87.5°	9.3	4.0	5.3	8.0	6.6	5.3	2.7	228.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)