

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: P953428

Luminaire Tested: **GALN-SB7A-727-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953428
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-SB7A-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 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: 22583 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 199.1
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



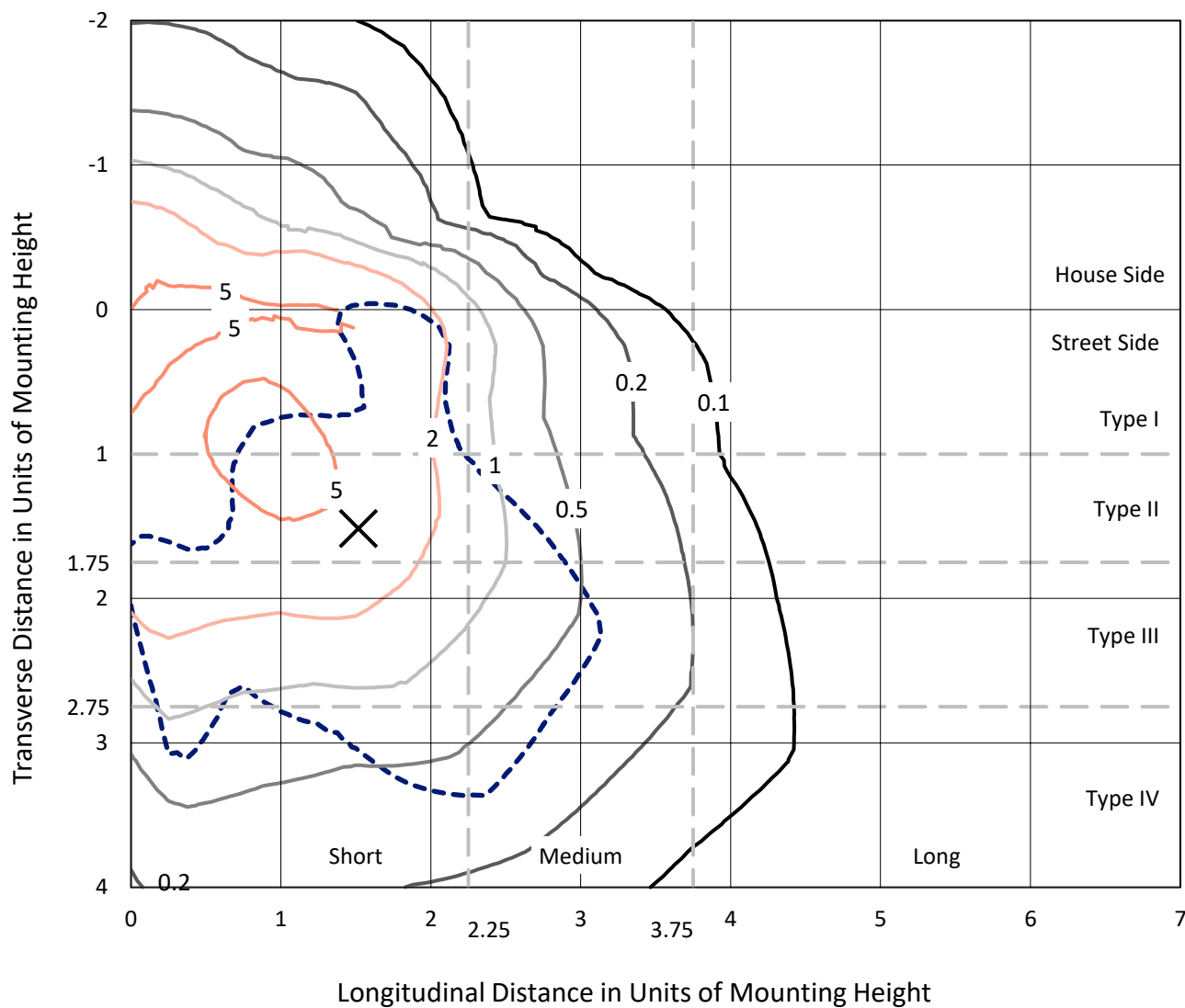
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Iso-Footcandle Lines of Horizontal Illumination

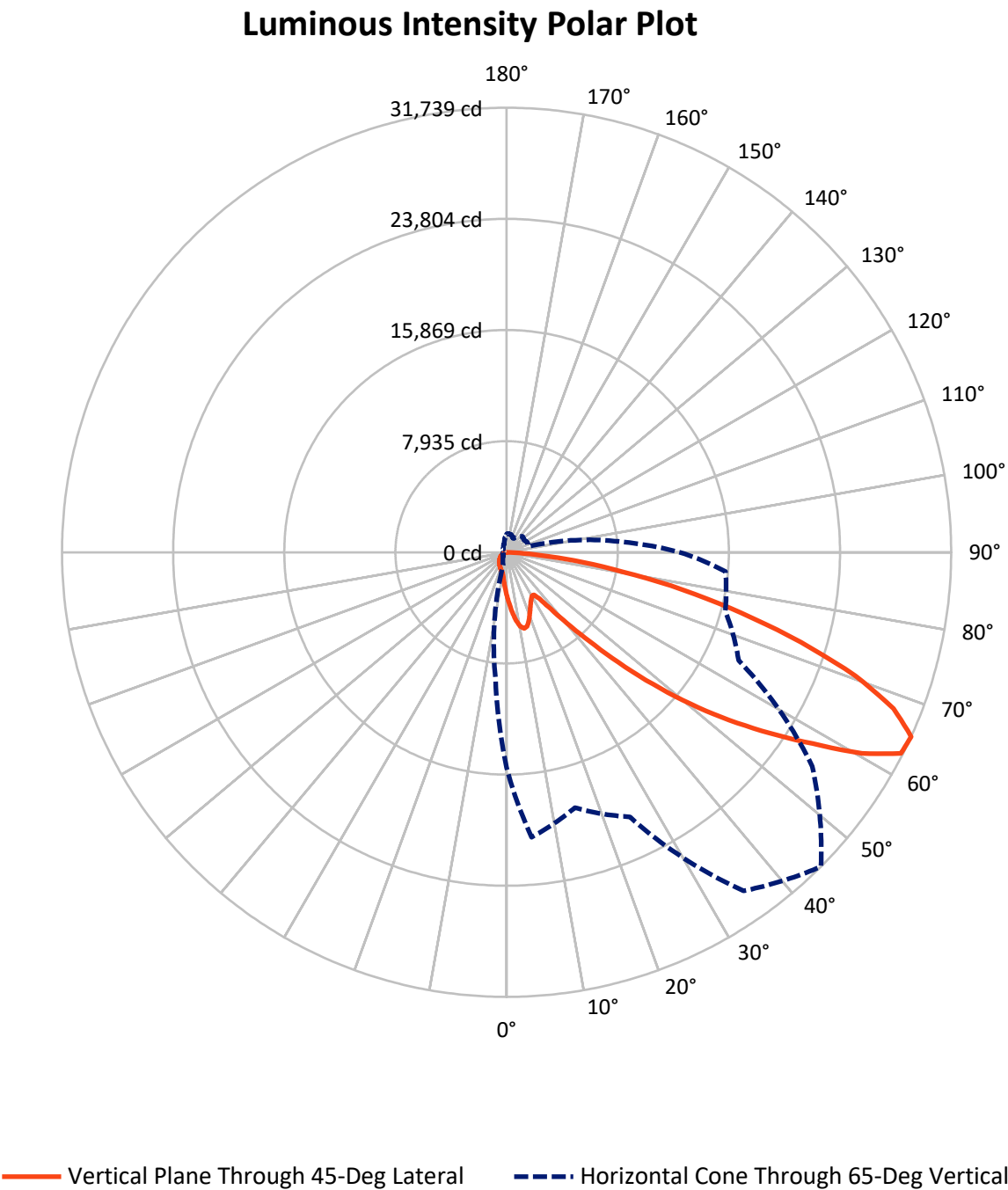
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Short - N/A

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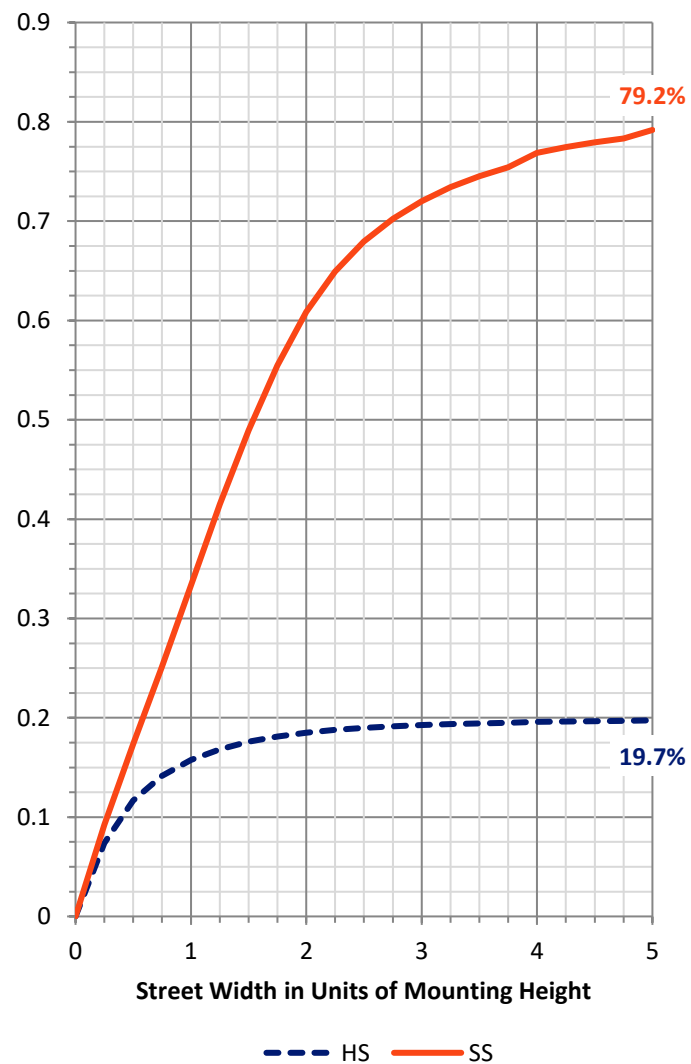
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4488.8	0.0	4488.8
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	18094.2	0.0	18094.2
	% Fixture	80.1	0.0	80.1
Total	Lumens	22583.0	0.0	22583.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.9	1.4
10°-20°	922.9	4.1
20°-30°	1359.6	6.0
30°-40°	1746.7	7.7
40°-50°	2825.0	12.5
50°-60°	4953.9	21.9
60°-70°	6198.6	27.4
70°-80°	3622.2	16.0
80°-90°	646.3	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°	22583.0	100.0
0°-180°	22583.0	100.0

Coefficient of Utilization



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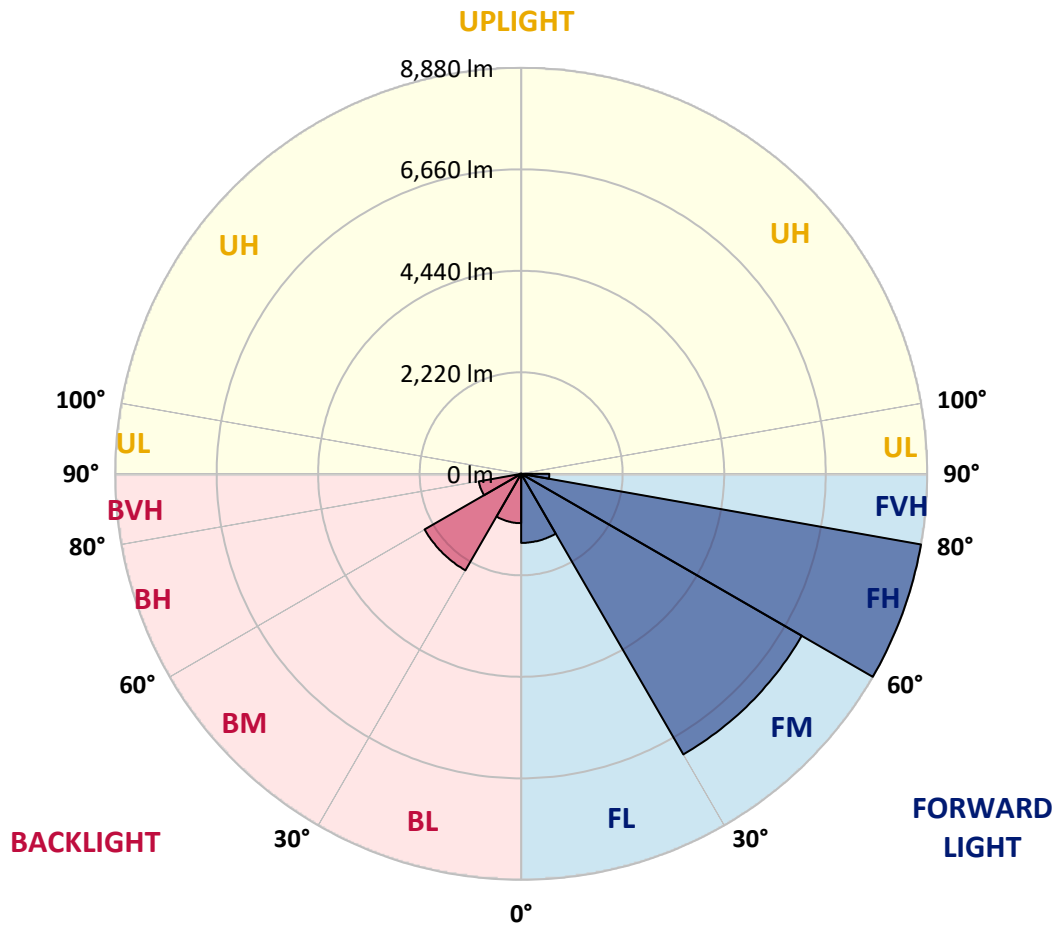
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1511.1	6.7			
FM	(30°-60°)	7086.8	31.4			
FH	(60°-80°)	8880.3	39.3			G4/12000
FVH	(80°-90°)	616.0	2.7			G4/750
BL	(0°-30°)	1079.3	4.8	B3/2500		
BM	(30°-60°)	2438.7	10.8	B2/2500		
BH	(60°-80°)	940.5	4.2	B2/1000		G2/1000
BVH	(80°-90°)	30.3	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3127.0	3127.0	3127.0	3127.0	3127.0	3127.0	3127.0	3127.0	3127.0	3127.0	3127.0
2.5°	3503.5	3530.0	3589.1	3620.2	3668.4	3671.5	3671.5	3629.5	3628.0	3542.4	3533.1
5°	3915.8	3978.0	4118.0	4262.7	4293.8	4301.6	4286.0	4202.0	4139.8	3973.3	3937.6
7.5°	4324.9	4444.7	4657.9	4850.8	4913.0	4913.0	4875.7	4738.8	4611.2	4370.1	4279.8
10°	4664.1	4815.0	5104.4	5320.6	5392.2	5376.6	5300.4	5127.7	4951.9	4659.4	4541.2
12.5°	4888.1	5057.7	5375.1	5549.3	5622.4	5582.0	5494.8	5326.8	5141.7	4833.7	4699.9
15°	5000.1	5177.5	5452.8	5544.6	5524.4	5482.4	5471.5	5390.6	5250.6	4962.8	4816.5
17.5°	5048.4	5213.3	5404.6	5347.1	5175.9	5143.3	5252.2	5354.8	5320.6	5074.8	4937.9
20°	5093.5	5231.9	5289.5	5034.4	4735.7	4706.1	4914.6	5207.0	5356.4	5179.0	5053.0
22.5°	5155.7	5241.3	5123.0	4704.5	4382.5	4314.0	4544.3	4984.6	5367.3	5311.3	5185.3
25°	5241.3	5264.6	4939.5	4391.8	4068.2	3999.8	4214.5	4737.2	5348.6	5454.4	5347.1
27.5°	5343.9	5295.7	4763.7	4130.5	3817.8	3754.0	3968.7	4499.2	5295.7	5597.5	5521.3
30°	5477.7	5336.2	4589.4	3928.2	3638.9	3592.2	3799.1	4293.8	5230.4	5779.5	5737.5
32.5°	5613.1	5353.3	4427.6	3810.0	3598.4	3615.5	3785.1	4183.4	5158.8	5953.8	5974.0
35°	5759.3	5407.7	4348.3	3926.7	3936.0	4085.4	4155.4	4286.0	5147.9	6190.3	6269.6
37.5°	5958.5	5529.1	4443.2	4507.0	4830.6	5140.1	5082.6	4788.5	5273.9	6543.4	6691.2
40°	6244.7	5742.2	4857.0	5494.8	6159.1	6661.6	6442.3	5701.8	5659.8	7052.1	7273.1
42.5°	6661.6	6081.4	5591.3	6702.1	7828.4	8656.1	8068.0	6879.5	6334.9	7778.7	8060.3
45°	7277.7	6630.5	6479.6	7976.2	9886.7	11190.4	9967.6	8134.9	7280.8	8878.6	9099.5
47.5°	8131.8	7438.0	7311.9	9318.8	12388.3	14074.7	12074.0	9298.6	8357.4	10378.3	10429.6
50°	9265.9	8525.4	8100.7	10787.5	15131.1	17015.0	14178.9	10421.9	9591.1	12210.9	12151.8
52.5°	10762.6	10042.3	9020.1	12186.1	17951.6	19893.2	16293.2	11408.2	11121.9	14337.6	14216.3
55°	12803.7	12324.5	10277.2	13520.9	20770.6	22788.4	18325.0	12338.5	13144.4	16864.1	16129.8
57.5°	15336.4	15678.7	12089.6	15068.8	23304.9	25772.3	20366.1	13639.1	15770.5	19689.4	17240.6
60°	16969.9	20139.0	15560.4	17357.3	26184.5	29146.7	23163.3	16112.7	18530.3	20702.1	17029.1
62.5°	16574.8	21557.8	19717.4	20279.0	28832.4	31600.0	25904.5	18597.2	19049.9	19210.2	15398.6
65°	15362.9	20412.8	18869.5	20846.8	29502.9	31738.5	26637.3	18276.7	16159.4	15683.3	12377.4
67.5°	13695.1	19054.6	16854.8	19340.9	28291.0	29803.2	25272.9	16167.2	12487.9	11769.1	8979.7
70°	11895.1	17551.8	15532.4	17651.3	25980.7	26430.3	22953.3	14219.4	9185.0	7948.2	5762.4
72.5°	10186.9	15986.7	14627.0	15919.8	22898.8	21968.5	19933.6	12497.2	6688.1	5732.9	4096.2
75°	8439.9	13678.0	13337.3	13863.1	18846.1	17304.4	16562.3	10347.2	5249.0	4147.6	2826.8
77.5°	6512.3	10687.9	11472.0	11101.7	13265.7	12853.5	12837.9	7775.6	3834.9	2767.6	1772.0
80°	4457.2	7448.8	8962.6	7831.6	8609.4	8399.4	9668.9	5216.4	2781.7	1666.2	986.3
82.5°	2619.9	4535.0	6238.5	3791.3	4760.5	4886.6	5757.8	2537.4	1636.6	384.3	214.7
85°	1062.6	1790.6	2439.4	1484.2	2296.3	1936.9	2185.8	712.5	455.8	9.3	0.0
87.5°	267.6	572.5	401.4	166.5	266.0	244.3	192.9	87.1	18.7	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	3127.0	3127.0	3127.0	3127.0	3127.0	3127.0	3127.0	3127.0	3127.0	3127.0	3127.0
2.5°	3472.4	3436.6	3347.9	3259.3	3187.7	3091.2	3027.5	2951.2	2878.1	2812.8	2800.3
5°	3839.5	3721.3	3559.5	3411.7	3260.8	3114.6	2969.9	2817.4	2677.4	2591.9	2537.4
7.5°	4138.2	3929.8	3715.1	3526.8	3344.8	3173.7	2982.3	2797.2	2577.8	2461.2	2355.4
10°	4360.7	4086.9	3805.3	3589.1	3405.5	3239.0	3077.2	2890.6	2626.1	2479.8	2321.2
12.5°	4507.0	4181.8	3852.0	3604.6	3399.3	3270.2	3198.6	3125.5	2862.5	2691.4	2461.2
15°	4608.1	4248.7	3884.7	3568.9	3316.8	3221.9	3293.5	3377.5	3209.5	3011.9	2711.6
17.5°	4718.5	4335.8	3898.7	3472.4	3156.6	3116.1	3301.3	3495.7	3488.0	3291.9	2997.9
20°	4835.2	4412.1	3889.3	3316.8	2962.1	2997.9	3234.4	3459.9	3554.8	3449.1	3187.7
22.5°	4955.0	4485.2	3853.6	3114.6	2780.1	2892.1	3128.6	3326.2	3438.2	3405.5	3206.4
25°	5105.9	4587.9	3800.7	2896.8	2629.2	2784.8	3005.7	3165.9	3243.7	3242.1	3105.2
27.5°	5286.4	4724.8	3772.7	2721.0	2521.8	2663.4	2859.4	3002.6	3057.0	3057.0	2948.1
30°	5496.4	4886.6	3741.5	2605.9	2459.6	2537.4	2689.9	2829.9	2884.3	2884.3	2792.5
32.5°	5729.8	5042.1	3666.9	2535.8	2412.9	2414.5	2511.0	2638.5	2703.9	2713.2	2647.9
35°	6009.8	5208.6	3503.5	2479.8	2358.5	2294.7	2341.4	2447.2	2525.0	2545.2	2504.7
37.5°	6376.9	5412.4	3270.2	2397.4	2274.5	2168.7	2179.6	2260.5	2346.0	2377.2	2350.7
40°	6870.1	5652.0	3027.5	2279.1	2156.2	2030.2	2025.6	2084.7	2168.7	2202.9	2188.9
42.5°	7522.0	5939.8	2795.7	2165.6	2013.1	1884.0	1876.2	1922.9	1996.0	2031.8	2025.6
45°	8355.8	6292.9	2596.5	2076.9	1873.1	1745.5	1742.4	1781.3	1845.1	1882.4	1874.7
47.5°	9514.9	6646.1	2461.2	2030.2	1762.6	1632.0	1638.2	1672.4	1730.0	1756.4	1745.5
50°	11025.5	6753.4	2392.7	2030.2	1703.5	1530.8	1562.0	1590.0	1633.5	1649.1	1635.1
52.5°	12475.4	6398.7	2330.5	2042.7	1711.3	1445.3	1512.2	1532.4	1569.7	1576.0	1555.7
55°	13186.4	5501.1	2244.9	2045.8	1759.5	1372.2	1471.7	1509.1	1523.1	1521.5	1487.3
57.5°	12942.1	4447.8	2100.2	2033.3	1792.2	1325.5	1421.9	1493.5	1502.8	1488.8	1425.1
60°	12084.9	3274.8	1989.8	1941.6	1779.8	1311.5	1345.7	1459.3	1473.3	1454.6	1350.4
62.5°	10647.4	2272.9	1904.2	1739.3	1725.3	1306.8	1225.9	1384.6	1418.8	1392.4	1239.9
65°	8382.3	1605.5	1639.7	1524.6	1607.1	1281.9	1101.5	1294.4	1341.0	1300.6	1085.9
67.5°	5672.2	1159.0	1328.6	1381.5	1415.7	1225.9	1011.2	1191.7	1253.9	1201.0	907.0
70°	3063.2	813.6	877.4	1163.7	1202.6	1129.5	930.3	1087.5	1159.0	1101.5	739.0
72.5°	1809.3	585.0	614.5	935.0	1001.9	994.1	840.1	966.1	1053.2	984.8	600.5
75°	997.2	395.2	438.7	678.3	813.6	767.0	721.9	818.3	907.0	840.1	463.6
77.5°	446.5	236.5	304.9	444.9	639.4	525.8	558.5	637.9	720.3	650.3	309.6
80°	172.7	132.2	202.2	242.7	465.2	290.9	359.4	469.8	528.9	472.9	188.2
82.5°	21.8	59.1	87.1	94.9	270.7	154.0	208.5	295.6	290.9	252.0	94.9
85°	0.0	10.9	12.4	6.2	116.7	56.0	68.5	96.5	90.2	68.5	7.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	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°	3127.0	3127.0	3127.0	3127.0	3127.0	3127.0	3127.0	3127.0	3127.0	3127.0	3127.0
2.5°	2724.1	2668.1	2640.1	2616.7	2638.5	2651.0	2651.0	2703.9	2735.0	2747.4	2834.5
5°	2400.5	2296.3	2226.3	2184.2	2198.3	2213.8	2230.9	2297.8	2342.9	2372.5	2507.8
7.5°	2145.4	1986.7	1888.7	1837.3	1845.1	1856.0	1870.0	1935.3	1980.4	2019.3	2170.2
10°	2019.3	1795.3	1666.2	1604.0	1593.1	1586.8	1582.2	1621.1	1655.3	1686.4	1835.8
12.5°	2025.6	1712.9	1555.7	1479.5	1446.8	1409.5	1379.9	1386.2	1407.9	1446.8	1541.7
15°	2104.9	1686.4	1498.2	1403.3	1348.8	1305.3	1269.5	1261.7	1269.5	1275.7	1334.8
17.5°	2212.3	1683.3	1448.4	1330.2	1274.1	1238.4	1205.7	1194.8	1196.4	1204.1	1219.7
20°	2297.8	1674.0	1392.4	1260.1	1210.4	1179.2	1146.6	1135.7	1138.8	1140.4	1157.5
22.5°	2342.9	1660.0	1330.2	1190.1	1148.1	1117.0	1087.5	1085.9	1085.9	1095.2	1107.7
25°	2342.9	1630.4	1274.1	1123.2	1085.9	1057.9	1022.1	1028.3	1031.5	1043.9	1062.6
27.5°	2286.9	1574.4	1229.0	1065.7	1026.8	998.8	966.1	973.9	978.6	992.6	1015.9
30°	2215.4	1507.5	1177.7	1011.2	966.1	945.9	917.9	921.0	927.2	942.8	969.2
32.5°	2139.1	1428.2	1135.7	956.8	911.7	896.1	865.0	869.7	875.9	893.0	922.5
35°	2055.1	1334.8	1085.9	907.0	861.9	849.4	813.6	816.8	826.1	844.8	874.3
37.5°	1966.4	1258.6	1036.1	858.8	812.1	799.6	762.3	765.4	776.3	798.1	826.1
40°	1879.3	1183.9	983.2	807.4	760.8	749.9	709.4	712.5	725.0	748.3	777.9
42.5°	1784.4	1126.4	914.8	754.5	704.7	693.9	656.5	661.2	675.2	698.5	728.1
45°	1670.9	1089.0	838.5	704.7	648.7	637.9	603.6	613.0	628.5	651.9	683.0
47.5°	1554.2	1073.5	774.8	651.9	591.2	581.8	553.8	569.4	586.5	605.2	639.4
50°	1442.2	1053.2	709.4	602.1	541.4	532.1	513.4	533.6	550.7	567.8	600.5
52.5°	1314.6	1009.7	650.3	558.5	499.4	496.3	486.9	505.6	521.2	536.7	564.7
55°	1182.4	939.7	599.0	519.6	463.6	466.7	462.1	477.6	490.1	504.1	528.9
57.5°	1067.2	851.0	558.5	477.6	432.5	441.8	435.6	443.4	451.2	468.3	488.5
60°	950.6	745.2	513.4	427.8	401.4	412.3	395.2	393.6	396.7	401.4	438.7
62.5°	793.4	634.7	457.4	384.3	367.2	371.8	339.1	314.3	314.3	318.9	374.9
65°	637.9	532.1	395.2	334.5	320.5	317.4	270.7	236.5	233.4	247.4	295.6
67.5°	524.3	441.8	332.9	278.5	269.1	272.3	238.0	203.8	200.7	216.2	252.0
70°	434.0	356.3	266.0	214.7	224.0	238.0	203.8	171.1	166.5	180.5	214.7
72.5°	345.4	278.5	203.8	158.7	185.1	202.2	166.5	135.3	132.2	144.7	177.4
75°	253.6	199.1	138.5	115.1	143.1	158.7	121.3	96.5	91.8	102.7	135.3
77.5°	157.1	112.0	87.1	68.5	98.0	105.8	63.8	56.0	54.5	62.2	85.6
80°	73.1	48.2	42.0	23.3	35.8	42.0	26.4	29.6	31.1	37.3	52.9
82.5°	20.2	7.8	1.6	0.0	0.0	12.4	6.2	12.4	15.6	23.3	34.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	7.8	14.0	24.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	12.4
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°	3127.0	3127.0	3127.0	3127.0	3127.0	3127.0	3127.0	3127.0
2.5°	2899.9	2962.1	3061.7	3164.4	3265.5	3368.2	3467.7	3503.5
5°	2630.7	2773.9	2971.4	3183.0	3400.8	3621.7	3824.0	3915.8
7.5°	2330.5	2535.8	2833.0	3164.4	3511.3	3858.2	4177.1	4324.9
10°	2010.0	2269.8	2609.0	3057.0	3554.8	4034.0	4472.7	4664.1
12.5°	1705.1	1977.3	2352.3	2889.0	3520.6	4135.1	4662.5	4888.1
15°	1449.9	1691.1	2095.6	2689.9	3410.2	4141.4	4752.8	5000.1
17.5°	1258.6	1415.7	1834.2	2468.9	3265.5	4083.8	4783.9	5048.4
20°	1163.7	1207.2	1495.1	2185.8	3130.1	4029.3	4815.0	5093.5
22.5°	1107.7	1118.6	1222.8	1820.2	2968.3	4012.2	4869.4	5155.7
25°	1062.6	1065.7	1093.7	1442.2	2721.0	4001.3	4953.5	5241.3
27.5°	1017.4	1017.4	1033.0	1162.1	2384.9	3954.7	5062.4	5343.9
30°	972.3	972.3	983.2	1028.3	1991.3	3862.9	5193.0	5477.7
32.5°	925.7	925.7	935.0	967.7	1590.0	3747.8	5312.8	5613.1
35°	879.0	875.9	888.3	922.5	1264.8	3601.5	5432.6	5759.3
37.5°	829.2	827.6	840.1	879.0	1092.1	3431.9	5522.9	5958.5
40°	776.3	776.3	790.3	832.3	1042.3	3218.8	5666.0	6244.7
42.5°	728.1	725.0	740.5	791.9	1005.0	3015.0	5922.7	6661.6
45°	681.4	675.2	689.2	753.0	939.7	2943.4	6401.8	7277.7
47.5°	637.9	622.3	634.7	706.3	880.5	3211.0	7185.9	8131.8
50°	602.1	572.5	583.4	659.6	835.4	3791.3	8203.4	9265.9
52.5°	564.7	525.8	532.1	602.1	795.0	4343.6	9306.4	10762.6
55°	525.8	482.3	485.4	544.5	737.4	4426.1	10383.0	12803.7
57.5°	482.3	441.8	441.8	491.6	695.4	3836.4	11210.6	15336.4
60°	434.0	407.6	399.8	449.6	732.8	2707.0	11307.1	16969.9
62.5°	381.2	367.2	356.3	409.2	760.8	1604.0	10530.8	16574.8
65°	320.5	317.4	309.6	449.6	641.0	947.4	9040.4	15362.9
67.5°	269.1	264.5	264.5	471.4	486.9	595.8	7063.0	13695.1
70°	231.8	214.7	214.7	356.3	295.6	412.3	4931.7	11895.1
72.5°	194.5	175.8	163.4	284.7	220.9	301.8	3081.9	10186.9
75°	155.6	141.6	126.0	188.2	164.9	228.7	1790.6	8439.9
77.5°	112.0	105.8	88.7	138.5	119.8	164.9	1065.7	6512.3
80°	57.6	59.1	56.0	79.3	80.9	112.0	606.7	4457.2
82.5°	34.2	26.4	29.6	38.9	46.7	63.8	228.7	2619.9
85°	21.8	14.0	14.0	18.7	23.3	24.9	70.0	1062.6
87.5°	10.9	4.7	6.2	9.3	7.8	6.2	3.1	267.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)