

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: P952357

Luminaire Tested: **GALN-SB6B-727-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952357
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-SB6B-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 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: 24172 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 220.4
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



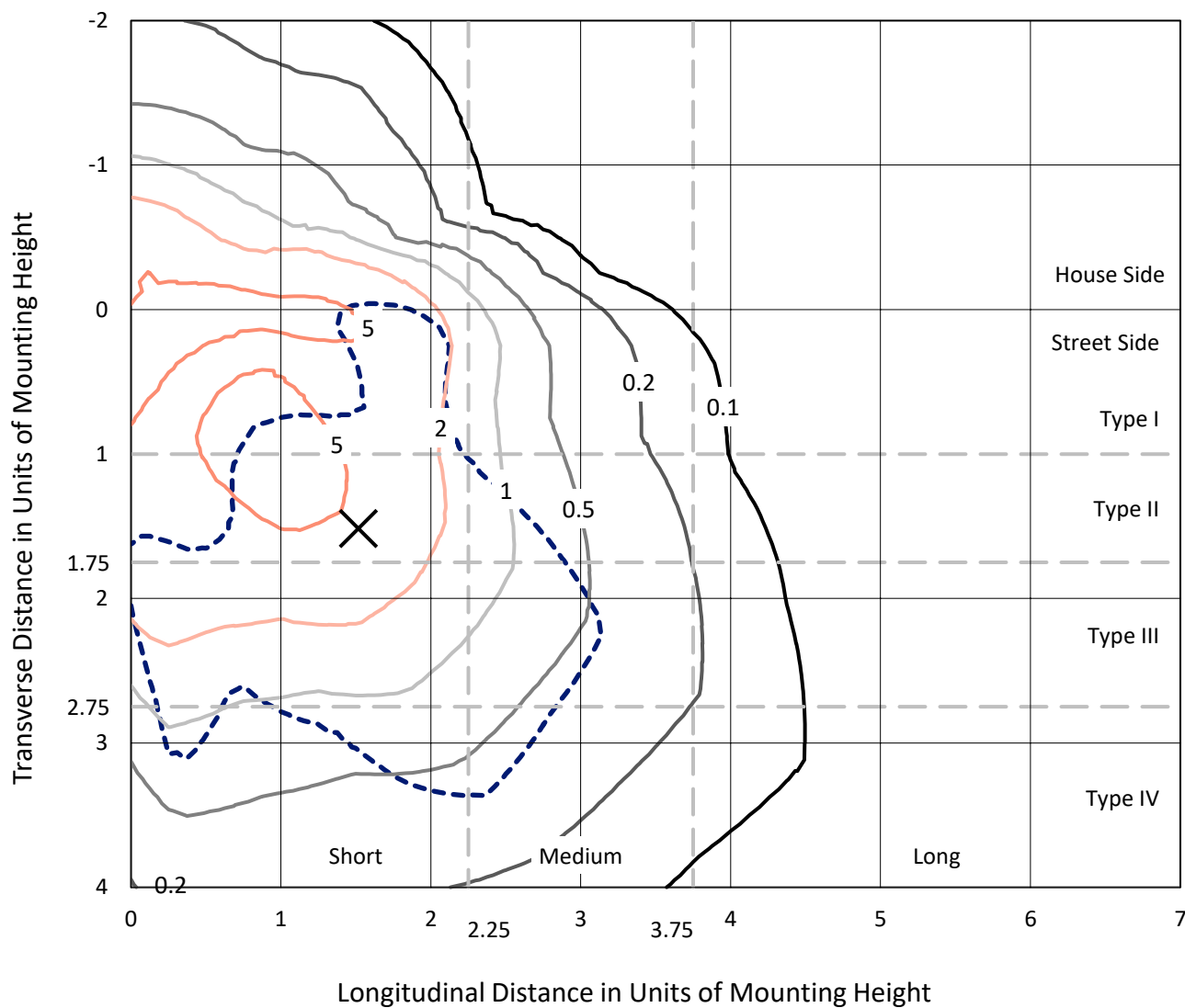
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Iso-Footcandle Lines of Horizontal Illumination

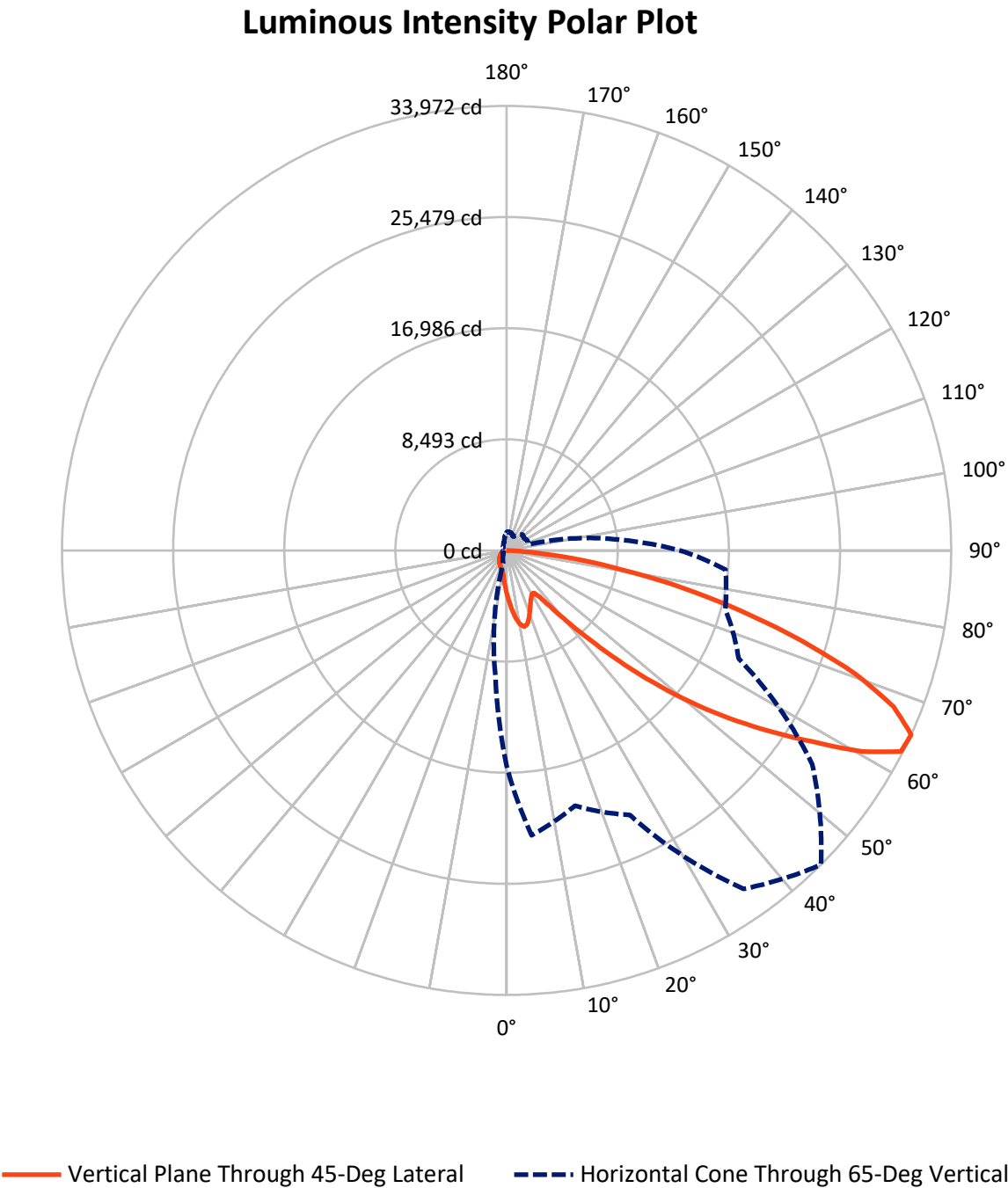
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Short - N/A

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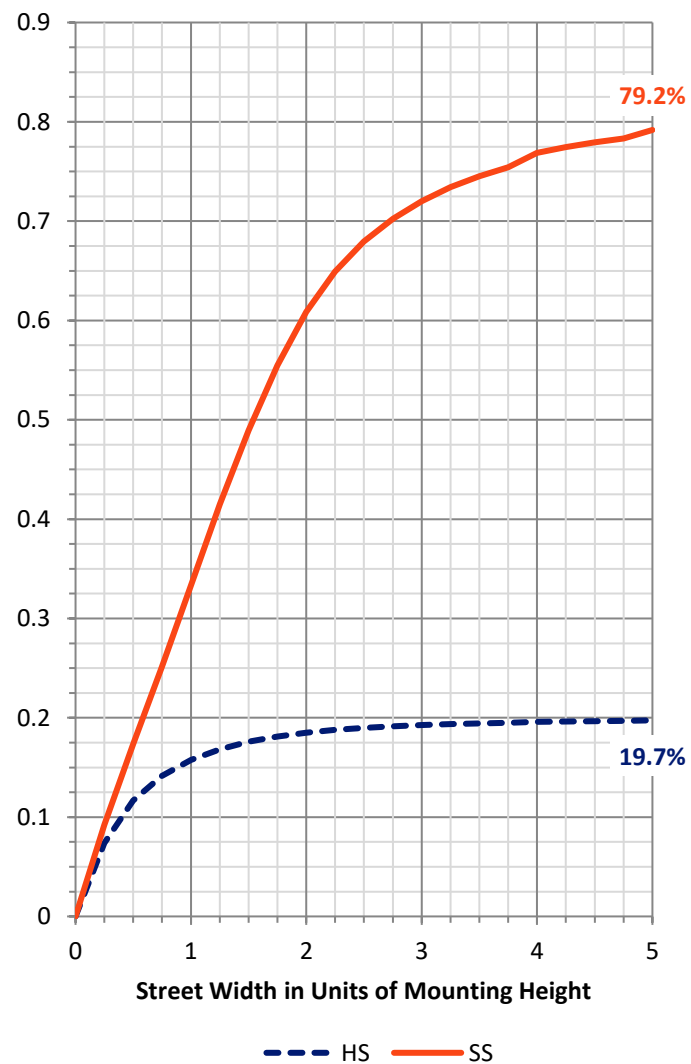
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4804.7	0.0	4804.7
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	19367.3	0.0	19367.3
	% Fixture	80.1	0.0	80.1
Total	Lumens	24172.0	0.0	24172.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.5	1.4
10°-20°	987.8	4.1
20°-30°	1455.3	6.0
30°-40°	1869.6	7.7
40°-50°	3023.7	12.5
50°-60°	5302.4	21.9
60°-70°	6634.8	27.4
70°-80°	3877.1	16.0
80°-90°	691.7	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°	24172.0	100.0
0°-180°	24172.0	100.0

Coefficient of Utilization



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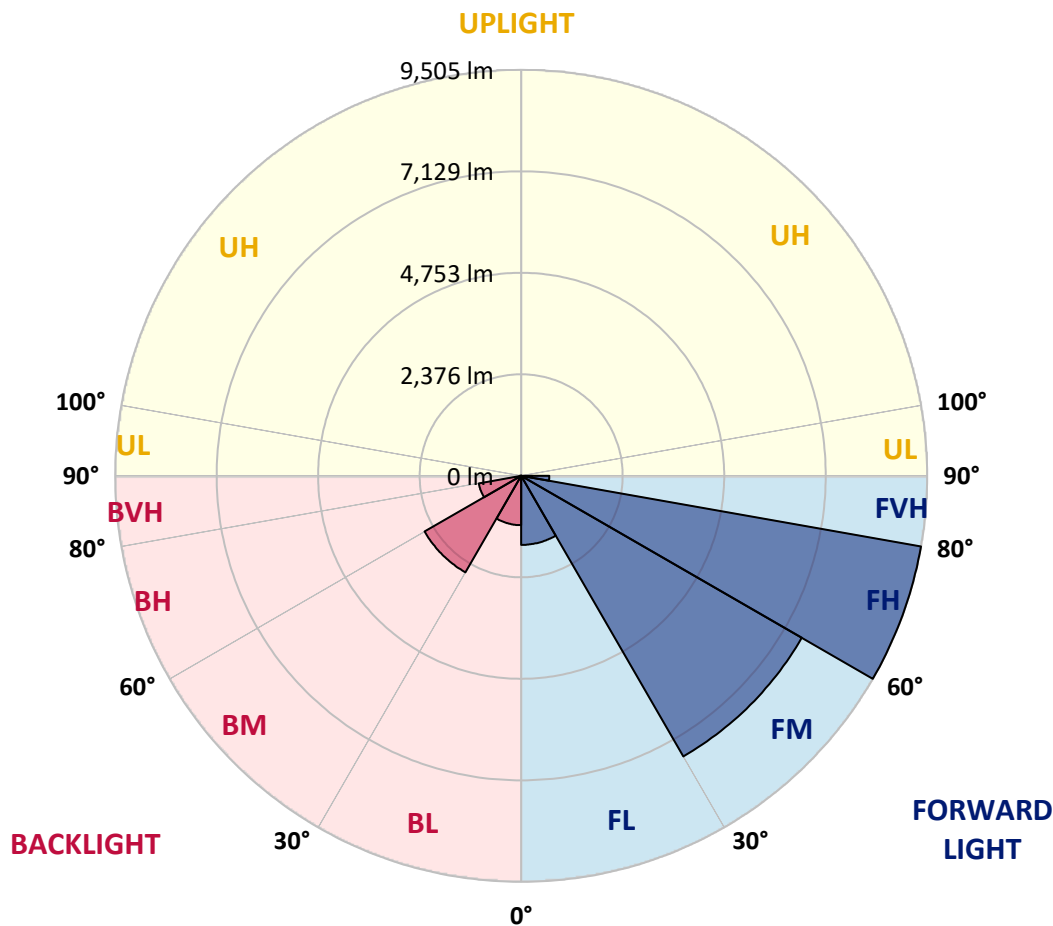
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1617.4	6.7			
FM	(30°-60°)	7585.5	31.4			
FH	(60°-80°)	9505.2	39.3			G4/12000
FVH	(80°-90°)	659.3	2.7			G4/750
BL	(0°-30°)	1155.2	4.8	B3/2500		
BM	(30°-60°)	2610.3	10.8	B3/5000		
BH	(60°-80°)	1006.7	4.2	B3/2500		G3/2500
BVH	(80°-90°)	32.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	3347.0	3347.0	3347.0	3347.0	3347.0	3347.0	3347.0	3347.0	3347.0	3347.0	3347.0
2.5°	3750.0	3778.3	3841.6	3874.9	3926.5	3929.9	3929.9	3884.9	3883.2	3791.7	3781.7
5°	4191.3	4257.9	4407.8	4562.6	4595.9	4604.3	4587.6	4497.7	4431.1	4252.9	4214.6
7.5°	4629.3	4757.5	4985.6	5192.1	5258.7	5258.7	5218.7	5072.2	4935.6	4677.5	4581.0
10°	4992.3	5153.8	5463.5	5695.0	5771.6	5754.9	5673.3	5488.5	5300.3	4987.3	4860.7
12.5°	5232.1	5413.6	5753.3	5939.8	6018.0	5974.7	5881.5	5701.6	5503.5	5173.8	5030.6
15°	5351.9	5541.8	5836.5	5934.8	5913.1	5868.2	5856.5	5769.9	5620.0	5312.0	5155.5
17.5°	5403.6	5580.1	5784.9	5723.3	5540.1	5505.1	5621.7	5731.6	5695.0	5431.9	5285.3
20°	5451.9	5600.1	5661.7	5388.6	5068.9	5037.2	5260.4	5573.4	5733.3	5543.4	5408.6
22.5°	5518.5	5610.1	5483.5	5035.6	4690.9	4617.6	4864.0	5335.3	5744.9	5685.0	5550.1
25°	5610.1	5635.0	5287.0	4700.9	4354.5	4281.2	4511.0	5070.5	5725.0	5838.2	5723.3
27.5°	5720.0	5668.3	5098.8	4421.1	4086.4	4018.1	4247.9	4815.8	5668.3	5991.4	5909.8
30°	5863.2	5711.6	4912.3	4204.6	3894.9	3844.9	4066.4	4595.9	5598.4	6186.2	6141.3
32.5°	6008.0	5729.9	4739.2	4078.1	3851.6	3869.9	4051.4	4477.7	5521.8	6372.7	6394.4
35°	6164.6	5788.2	4654.2	4203.0	4213.0	4372.8	4447.7	4587.6	5510.1	6625.8	6710.7
37.5°	6377.7	5918.1	4755.8	4824.1	5170.4	5501.8	5440.2	5125.5	5645.0	7003.8	7162.0
40°	6684.1	6146.2	5198.7	5881.5	6592.5	7130.4	6895.6	6103.0	6058.0	7548.3	7784.8
42.5°	7130.4	6509.3	5984.7	7173.7	8379.3	9265.2	8635.7	7363.5	6780.7	8326.0	8627.4
45°	7789.8	7097.1	6935.6	8537.5	10582.3	11977.8	10668.9	8707.3	7793.1	9503.3	9739.7
47.5°	8704.0	7961.3	7826.4	9974.5	13260.0	15065.0	12923.6	9952.9	8945.4	11108.5	11163.5
50°	9917.9	9125.3	8670.7	11546.5	16195.7	18212.3	15176.6	11155.2	10265.9	13070.1	13006.9
52.5°	11519.8	10748.9	9654.8	13043.5	19214.7	21292.9	17439.6	12210.9	11904.5	15346.5	15216.6
55°	13704.6	13191.7	11000.3	14472.2	22232.1	24391.8	19614.4	13206.7	14069.3	18050.7	17264.8
57.5°	16415.5	16781.9	12940.3	16129.1	24944.7	27585.7	21799.1	14598.8	16880.1	21074.7	18453.7
60°	18164.0	21556.0	16655.3	18578.6	28027.0	31197.5	24793.1	17246.5	19834.2	22158.8	18227.3
62.5°	17741.0	23074.7	21104.7	21705.9	30861.1	33823.5	27727.2	19905.8	20390.4	20561.9	16482.1
65°	16443.8	21849.1	20197.2	22313.7	31578.8	33971.7	28511.5	19562.7	17296.4	16786.9	13248.3
67.5°	14658.7	20395.3	18040.8	20701.7	30281.6	31900.2	27051.1	17304.7	13366.5	12597.2	9611.5
70°	12732.1	18786.8	16625.3	18893.3	27808.8	28290.1	24568.3	15219.9	9831.3	8507.5	6167.9
72.5°	10903.7	17111.6	15656.2	17040.0	24510.1	23514.3	21336.2	13376.5	7158.7	6136.3	4384.5
75°	9033.7	14640.4	14275.7	14838.6	20172.2	18522.0	17727.7	11075.2	5618.4	4439.4	3025.7
77.5°	6970.5	11439.9	12279.2	11882.9	14199.1	13757.9	13741.2	8322.7	4104.7	2962.4	1896.7
80°	4770.8	7973.0	9593.2	8382.6	9215.2	8990.4	10349.2	5583.4	2977.4	1783.4	1055.7
82.5°	2804.2	4854.1	6677.4	4058.1	5095.5	5230.4	6162.9	2715.9	1751.8	411.3	229.8
85°	1137.3	1916.6	2611.0	1588.6	2457.8	2073.2	2339.6	762.7	487.9	10.0	0.0
87.5°	286.4	612.8	429.6	178.2	284.7	261.4	206.5	93.3	20.0	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°	3347.0	3347.0	3347.0	3347.0	3347.0	3347.0	3347.0	3347.0	3347.0	3347.0	3347.0
2.5°	3716.7	3678.4	3583.5	3488.6	3412.0	3308.7	3240.5	3158.9	3080.6	3010.7	2997.4
5°	4109.7	3983.2	3810.0	3651.8	3490.3	3333.7	3178.9	3015.7	2865.8	2774.2	2715.9
7.5°	4429.4	4206.3	3976.5	3775.0	3580.2	3397.0	3192.2	2994.0	2759.2	2634.3	2521.1
10°	4667.6	4374.5	4073.1	3841.6	3645.1	3466.9	3293.8	3093.9	2810.9	2654.3	2484.5
12.5°	4824.1	4476.1	4123.0	3858.3	3638.5	3500.2	3423.6	3345.4	3064.0	2880.8	2634.3
15°	4932.3	4547.7	4158.0	3820.0	3550.2	3448.6	3525.2	3615.1	3435.3	3223.8	2902.4
17.5°	5050.5	4640.9	4173.0	3716.7	3378.7	3335.4	3533.6	3741.7	3733.4	3523.6	3208.8
20°	5175.4	4722.5	4163.0	3550.2	3170.5	3208.8	3461.9	3703.4	3805.0	3691.7	3412.0
22.5°	5303.7	4800.8	4124.7	3333.7	2975.7	3095.6	3348.7	3560.2	3680.1	3645.1	3432.0
25°	5465.2	4910.7	4068.1	3100.6	2814.2	2980.7	3217.2	3388.7	3471.9	3470.3	3323.7
27.5°	5658.3	5057.2	4038.1	2912.4	2699.3	2850.8	3060.6	3213.8	3272.1	3272.1	3155.6
30°	5883.1	5230.4	4004.8	2789.2	2632.7	2715.9	2879.1	3029.0	3087.3	3087.3	2989.0
32.5°	6132.9	5396.9	3924.9	2714.3	2582.7	2584.4	2687.6	2824.2	2894.1	2904.1	2834.2
35°	6432.7	5575.1	3750.0	2654.3	2524.4	2456.2	2506.1	2619.4	2702.6	2724.3	2681.0
37.5°	6825.6	5793.2	3500.2	2566.1	2434.5	2321.3	2332.9	2419.5	2511.1	2544.4	2516.1
40°	7353.5	6049.7	3240.5	2439.5	2308.0	2173.1	2168.1	2231.4	2321.3	2357.9	2342.9
42.5°	8051.2	6357.7	2992.4	2318.0	2154.8	2016.6	2008.2	2058.2	2136.4	2174.7	2168.1
45°	8943.8	6735.7	2779.2	2223.0	2004.9	1868.4	1865.0	1906.7	1974.9	2014.9	2006.6
47.5°	10184.4	7113.7	2634.3	2173.1	1886.7	1746.8	1753.5	1790.1	1851.7	1880.0	1868.4
50°	11801.3	7228.6	2561.1	2173.1	1823.4	1638.6	1671.9	1701.8	1748.5	1765.1	1750.1
52.5°	13353.2	6849.0	2494.5	2186.4	1831.7	1547.0	1618.6	1640.2	1680.2	1686.8	1665.2
55°	14114.2	5888.1	2402.9	2189.7	1883.3	1468.7	1575.3	1615.2	1630.2	1628.6	1591.9
57.5°	13852.8	4760.8	2248.0	2176.4	1918.3	1418.7	1522.0	1598.6	1608.6	1593.6	1525.3
60°	12935.3	3505.2	2129.8	2078.2	1905.0	1403.8	1440.4	1562.0	1576.9	1557.0	1445.4
62.5°	11396.6	2432.9	2038.2	1861.7	1846.7	1398.8	1312.2	1482.0	1518.7	1490.4	1327.2
65°	8972.1	1718.5	1755.1	1631.9	1720.1	1372.1	1179.0	1385.4	1435.4	1392.1	1162.3
67.5°	6071.3	1240.6	1422.1	1478.7	1515.3	1312.2	1082.4	1275.5	1342.1	1285.5	970.8
70°	3278.8	870.9	939.2	1245.6	1287.2	1208.9	995.8	1164.0	1240.6	1179.0	791.0
72.5°	1936.6	626.1	657.8	1000.8	1072.4	1064.1	899.2	1034.1	1127.3	1054.1	642.8
75°	1067.4	423.0	469.6	726.0	870.9	820.9	772.7	875.9	970.8	899.2	496.2
77.5°	477.9	253.1	326.4	476.2	684.4	562.8	597.8	682.7	771.0	696.1	331.4
80°	184.8	141.5	216.5	259.8	497.9	311.4	384.7	502.9	566.2	506.2	201.5
82.5°	23.3	63.3	93.3	101.6	289.7	164.9	223.1	316.4	311.4	269.8	101.6
85°	0.0	11.7	13.3	6.7	124.9	59.9	73.3	103.2	96.6	73.3	8.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	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°	3347.0	3347.0	3347.0	3347.0	3347.0	3347.0	3347.0	3347.0	3347.0	3347.0	3347.0
2.5°	2915.8	2855.8	2825.8	2800.9	2824.2	2837.5	2837.5	2894.1	2927.4	2940.7	3034.0
5°	2569.4	2457.8	2382.9	2337.9	2352.9	2369.6	2387.9	2459.5	2507.8	2539.4	2684.3
7.5°	2296.3	2126.5	2021.6	1966.6	1974.9	1986.6	2001.6	2071.5	2119.8	2161.4	2323.0
10°	2161.4	1921.6	1783.4	1716.8	1705.2	1698.5	1693.5	1735.1	1771.8	1805.1	1964.9
12.5°	2168.1	1833.4	1665.2	1583.6	1548.6	1508.7	1477.0	1483.7	1507.0	1548.6	1650.2
15°	2253.0	1805.1	1603.6	1502.0	1443.7	1397.1	1358.8	1350.5	1358.8	1365.5	1428.7
17.5°	2367.9	1801.7	1550.3	1423.7	1363.8	1325.5	1290.5	1278.9	1280.5	1288.9	1305.5
20°	2459.5	1791.8	1490.4	1348.8	1295.5	1262.2	1227.3	1215.6	1218.9	1220.6	1238.9
22.5°	2507.8	1776.8	1423.7	1273.9	1228.9	1195.6	1164.0	1162.3	1162.3	1172.3	1185.6
25°	2507.8	1745.1	1363.8	1202.3	1162.3	1132.3	1094.0	1100.7	1104.0	1117.3	1137.3
27.5°	2447.8	1685.2	1315.5	1140.7	1099.0	1069.1	1034.1	1042.4	1047.4	1062.4	1087.4
30°	2371.2	1613.6	1260.6	1082.4	1034.1	1012.4	982.5	985.8	992.5	1009.1	1037.4
32.5°	2289.6	1528.7	1215.6	1024.1	975.8	959.2	925.9	930.8	937.5	955.8	987.5
35°	2199.7	1428.7	1162.3	970.8	922.5	909.2	870.9	874.2	884.2	904.2	935.8
37.5°	2104.8	1347.1	1109.0	919.2	869.2	855.9	815.9	819.3	830.9	854.2	884.2
40°	2011.6	1267.2	1052.4	864.2	814.3	802.6	759.3	762.7	776.0	801.0	832.6
42.5°	1910.0	1205.6	979.1	807.6	754.3	742.7	702.7	707.7	722.7	747.7	779.3
45°	1788.4	1165.6	897.5	754.3	694.4	682.7	646.1	656.1	672.7	697.7	731.0
47.5°	1663.5	1149.0	829.3	697.7	632.8	622.8	592.8	609.5	627.8	647.8	684.4
50°	1543.6	1127.3	759.3	644.4	579.5	569.5	549.5	571.2	589.5	607.8	642.8
52.5°	1407.1	1080.7	696.1	597.8	534.5	531.2	521.2	541.2	557.8	574.5	604.5
55°	1265.6	1005.8	641.1	556.2	496.2	499.6	494.6	511.2	524.5	539.5	566.2
57.5°	1142.3	910.9	597.8	511.2	462.9	472.9	466.3	474.6	482.9	501.2	522.9
60°	1017.4	797.6	549.5	457.9	429.6	441.3	423.0	421.3	424.6	429.6	469.6
62.5°	849.3	679.4	489.6	411.3	393.0	398.0	363.0	336.4	336.4	341.4	401.3
65°	682.7	569.5	423.0	358.0	343.0	339.7	289.7	253.1	249.8	264.8	316.4
67.5°	561.2	472.9	356.4	298.1	288.1	291.4	254.8	218.1	214.8	231.5	269.8
70°	464.6	381.3	284.7	229.8	239.8	254.8	218.1	183.2	178.2	193.2	229.8
72.5°	369.7	298.1	218.1	169.9	198.2	216.5	178.2	144.9	141.5	154.9	189.8
75°	271.4	213.1	148.2	123.2	153.2	169.9	129.9	103.2	98.2	109.9	144.9
77.5°	168.2	119.9	93.3	73.3	104.9	113.2	68.3	59.9	58.3	66.6	91.6
80°	78.3	51.6	45.0	25.0	38.3	45.0	28.3	31.6	33.3	40.0	56.6
82.5°	21.6	8.3	1.7	0.0	0.0	13.3	6.7	13.3	16.7	25.0	36.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	8.3	15.0	26.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	13.3
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°	3347.0	3347.0	3347.0	3347.0	3347.0	3347.0	3347.0	3347.0
2.5°	3103.9	3170.5	3277.1	3387.0	3495.3	3605.2	3711.7	3750.0
5°	2815.9	2969.0	3180.5	3407.0	3640.1	3876.6	4093.1	4191.3
7.5°	2494.5	2714.3	3032.3	3387.0	3758.4	4129.7	4471.1	4629.3
10°	2151.4	2429.5	2792.5	3272.1	3805.0	4317.9	4787.4	4992.3
12.5°	1825.1	2116.5	2517.8	3092.3	3768.3	4426.1	4990.6	5232.1
15°	1552.0	1810.1	2243.0	2879.1	3650.1	4432.8	5087.2	5351.9
17.5°	1347.1	1515.3	1963.3	2642.7	3495.3	4371.1	5120.5	5403.6
20°	1245.6	1292.2	1600.3	2339.6	3350.4	4312.9	5153.8	5451.9
22.5°	1185.6	1197.3	1308.8	1948.3	3177.2	4294.5	5212.1	5518.5
25°	1137.3	1140.7	1170.6	1543.6	2912.4	4282.9	5302.0	5610.1
27.5°	1089.0	1089.0	1105.7	1243.9	2552.7	4232.9	5418.6	5720.0
30°	1040.7	1040.7	1052.4	1100.7	2131.5	4134.7	5558.4	5863.2
32.5°	990.8	990.8	1000.8	1035.8	1701.8	4011.5	5686.7	6008.0
35°	940.8	937.5	950.8	987.5	1353.8	3854.9	5814.9	6164.6
37.5°	887.6	885.9	899.2	940.8	1169.0	3673.4	5911.5	6377.7
40°	830.9	830.9	845.9	890.9	1115.7	3445.3	6064.7	6684.1
42.5°	779.3	776.0	792.6	847.6	1075.7	3227.2	6339.4	7130.4
45°	729.4	722.7	737.7	806.0	1005.8	3150.6	6852.3	7789.8
47.5°	682.7	666.1	679.4	756.0	942.5	3437.0	7691.6	8704.0
50°	644.4	612.8	624.4	706.0	894.2	4058.1	8780.6	9917.9
52.5°	604.5	562.8	569.5	644.4	850.9	4649.2	9961.2	11519.8
55°	562.8	516.2	519.5	582.8	789.3	4737.5	11113.5	13704.6
57.5°	516.2	472.9	472.9	526.2	744.3	4106.4	11999.4	16415.5
60°	464.6	436.3	428.0	481.2	784.3	2897.4	12102.7	18164.0
62.5°	408.0	393.0	381.3	437.9	814.3	1716.8	11271.7	17741.0
65°	343.0	339.7	331.4	481.2	686.1	1014.1	9676.5	16443.8
67.5°	288.1	283.1	283.1	504.6	521.2	637.8	7560.0	14658.7
70°	248.1	229.8	229.8	381.3	316.4	441.3	5278.7	12732.1
72.5°	208.1	188.2	174.8	304.7	236.5	323.0	3298.8	10903.7
75°	166.5	151.5	134.9	201.5	176.5	244.8	1916.6	9033.7
77.5°	119.9	113.2	94.9	148.2	128.2	176.5	1140.7	6970.5
80°	61.6	63.3	59.9	84.9	86.6	119.9	649.4	4770.8
82.5°	36.6	28.3	31.6	41.6	50.0	68.3	244.8	2804.2
85°	23.3	15.0	15.0	20.0	25.0	26.6	74.9	1137.3
87.5°	11.7	5.0	6.7	10.0	8.3	6.7	3.3	286.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)