

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: P954858

Luminaire Tested: **GALN-SB8A-727-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954858
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-SB8A-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25677 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 227.1
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

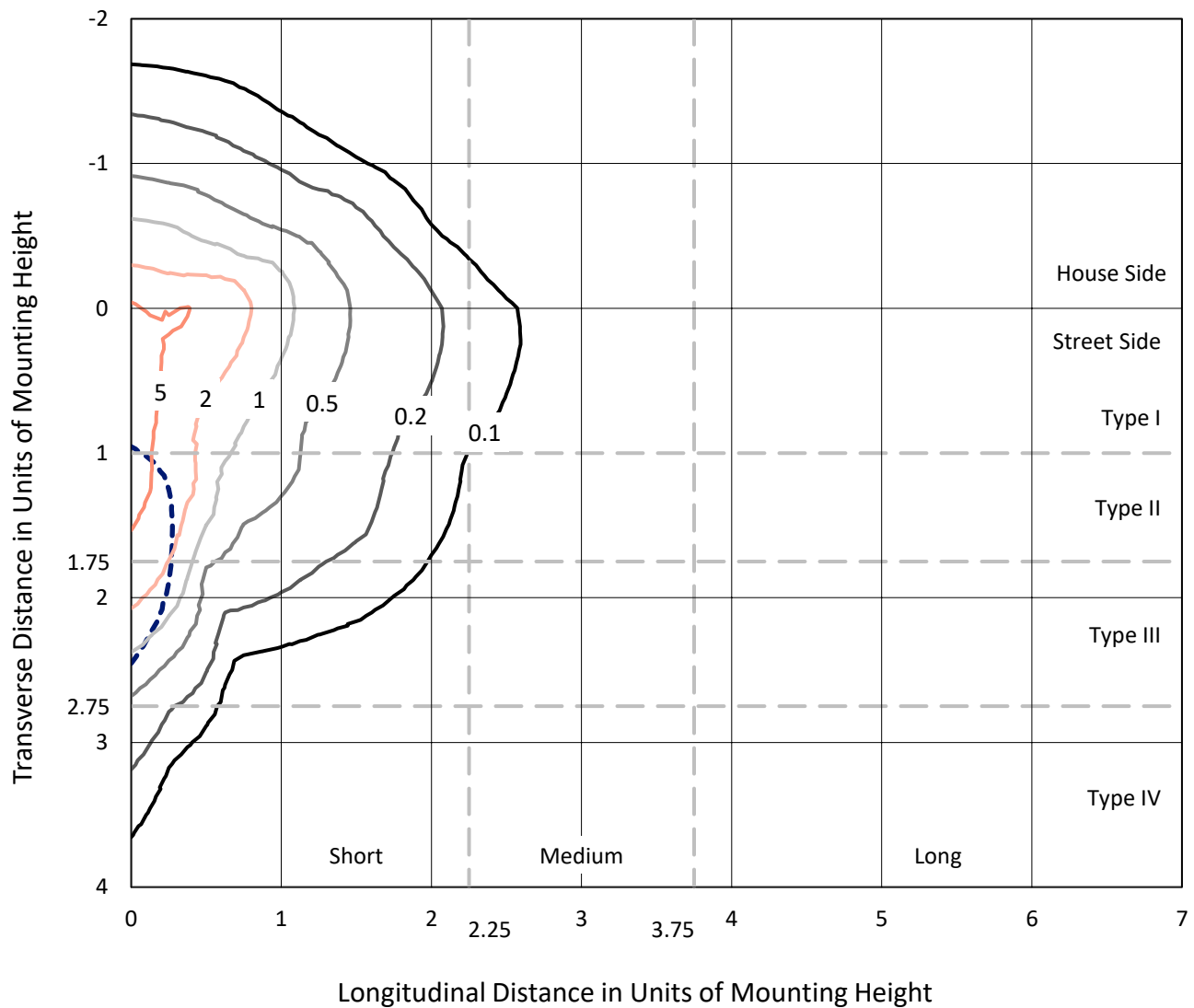


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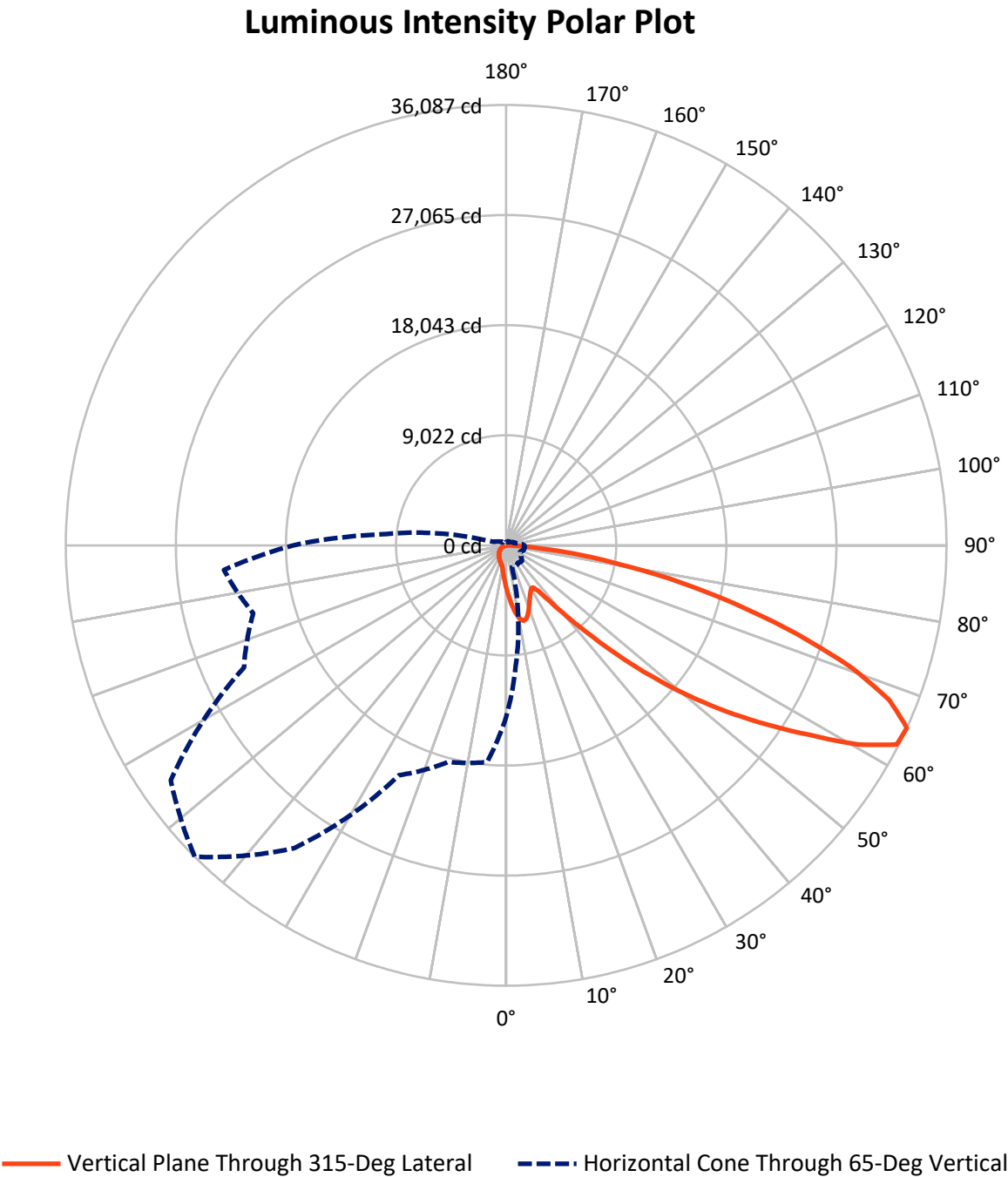
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
Type IV - Short - N/A

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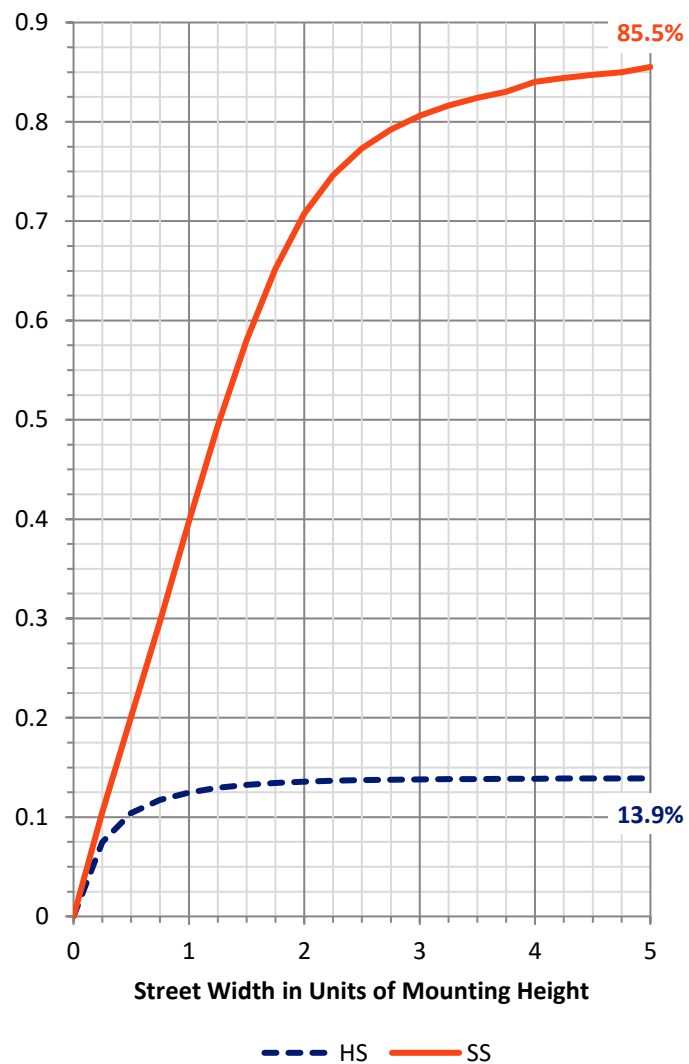
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3595.9	0.0	3595.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	22081.1	0.0	22081.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	25677.0	0.0	25677.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.0	1.4
10°-20°	1049.3	4.1
20°-30°	1545.9	6.0
30°-40°	1986.0	7.7
40°-50°	3212.0	12.5
50°-60°	5632.6	21.9
60°-70°	7047.9	27.4
70°-80°	4118.5	16.0
80°-90°	734.8	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°	25677.0	100.0
0°-180°	25677.0	100.0

Coefficient of Utilization



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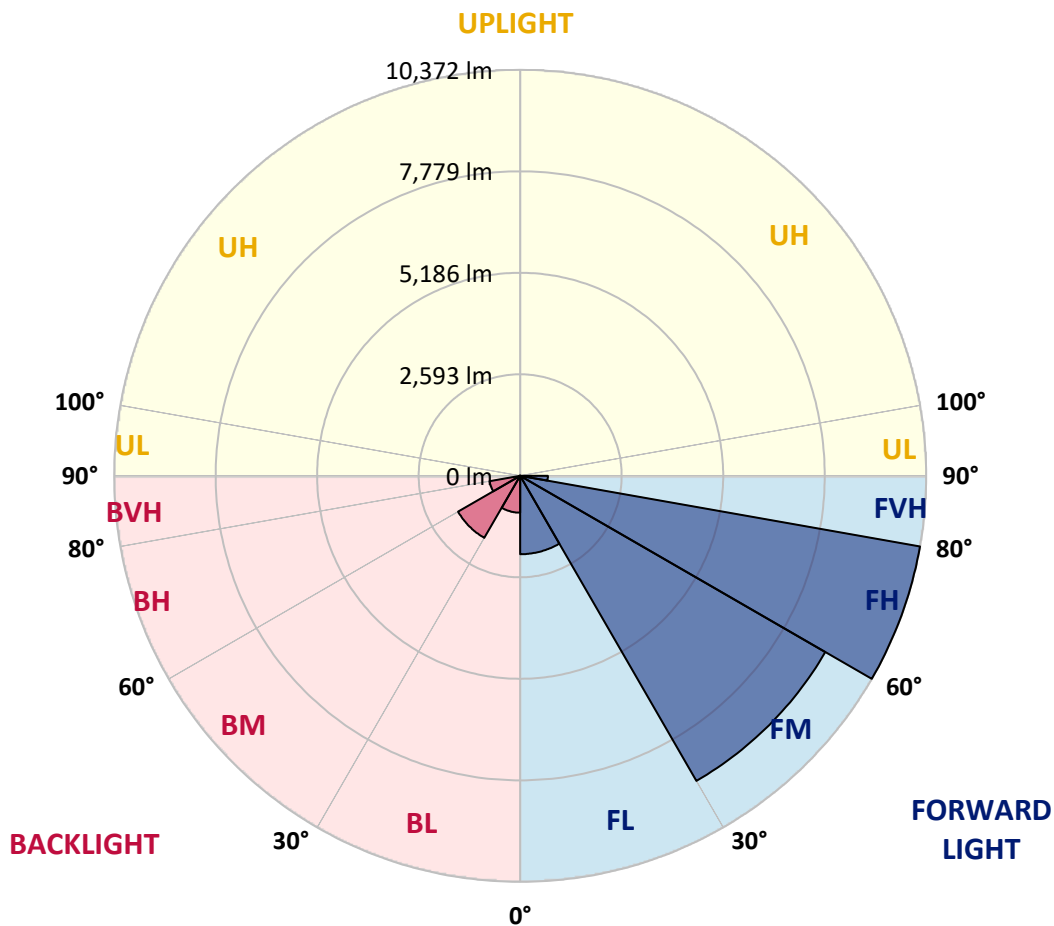
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2002.7	7.8			
FM	(30°-60°)	8999.5	35.0			
FH	(60°-80°)	10372.3	40.4			G4/12000
FVH	(80°-90°)	706.6	2.8			G4/750
BL	(0°-30°)	942.5	3.7	B2/1000		
BM	(30°-60°)	1831.1	7.1	B2/2500		
BH	(60°-80°)	794.0	3.1	B2/1000		G2/1000
BVH	(80°-90°)	28.2	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°	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4
2.5°	4017.1	3948.1	3907.4	3806.6	3705.8	3624.4	3514.8	3442.2	3355.6	3272.4	3198.1
5°	4477.0	4365.6	4231.2	4047.2	3879.1	3707.6	3541.3	3376.8	3203.4	3044.2	2946.9
7.5°	4866.2	4705.2	4468.2	4224.1	4010.0	3803.1	3608.5	3390.9	3180.4	2931.0	2798.4
10°	5163.4	4958.2	4646.8	4326.7	4080.8	3872.1	3682.8	3498.8	3286.6	2985.9	2819.6
12.5°	5343.8	5124.4	4754.7	4379.7	4098.5	3865.0	3718.2	3636.8	3553.7	3254.7	3060.2
15°	5476.4	5239.4	4830.8	4416.9	4057.8	3771.2	3663.3	3744.7	3840.2	3649.2	3424.5
17.5°	5614.4	5365.0	4929.9	4432.8	3948.1	3589.1	3543.1	3753.6	3974.7	3965.8	3742.9
20°	5745.3	5497.7	5016.5	4422.2	3771.2	3367.9	3408.6	3677.5	3934.0	4041.9	3921.6
22.5°	5895.7	5633.9	5099.7	4381.5	3541.3	3161.0	3288.3	3557.2	3781.9	3909.2	3872.1
25°	6079.6	5805.5	5216.4	4321.4	3293.6	2989.4	3166.3	3417.5	3599.7	3688.1	3686.3
27.5°	6277.7	6010.6	5372.1	4289.5	3093.8	2867.3	3028.3	3251.2	3413.9	3475.8	3475.8
30°	6523.6	6249.4	5556.0	4254.1	2962.9	2796.6	2885.0	3058.4	3217.6	3279.5	3279.5
32.5°	6792.5	6514.8	5732.9	4169.2	2883.3	2743.5	2745.3	2855.0	3000.0	3074.3	3084.9
35°	7128.6	6833.2	5922.2	3983.5	2819.6	2681.6	2609.1	2662.2	2782.4	2870.9	2893.9
37.5°	7607.9	7250.6	6153.9	3718.2	2725.8	2586.1	2465.8	2478.2	2570.2	2667.5	2702.8
40°	8269.5	7811.4	6426.3	3442.2	2591.4	2451.7	2308.4	2303.1	2370.3	2465.8	2504.7
42.5°	9164.6	8552.5	6753.6	3178.7	2462.3	2288.9	2142.1	2133.3	2186.3	2269.5	2310.2
45°	10346.2	9500.6	7155.1	2952.3	2361.5	2129.7	1984.7	1981.1	2025.4	2097.9	2140.3
47.5°	11858.6	10818.5	7556.6	2798.4	2308.4	2004.1	1855.6	1862.6	1901.5	1967.0	1997.1
50°	13816.7	12536.0	7678.7	2720.5	2308.4	1936.9	1740.6	1776.0	1807.8	1857.3	1875.0
52.5°	16164.0	14184.6	7275.4	2649.8	2322.5	1945.8	1643.3	1719.3	1742.3	1784.8	1791.9
55°	18339.7	14993.0	6254.7	2552.5	2326.1	2000.6	1560.1	1673.4	1715.8	1731.7	1730.0
57.5°	19602.7	14715.3	5057.2	2388.0	2311.9	2037.7	1507.1	1616.8	1698.1	1708.7	1692.8
60°	19362.1	13740.6	3723.5	2262.4	2207.6	2023.6	1491.2	1530.1	1659.2	1675.1	1653.9
62.5°	17508.3	12106.2	2584.3	2165.1	1977.6	1961.7	1485.9	1393.9	1574.3	1613.2	1583.1
65°	14073.2	9530.7	1825.5	1864.4	1733.5	1827.3	1457.6	1252.4	1471.7	1524.8	1478.8
67.5°	10210.0	6449.3	1317.8	1510.6	1570.8	1609.7	1393.9	1149.8	1355.0	1425.7	1365.6
70°	6551.9	3482.9	925.1	997.6	1323.1	1367.3	1284.2	1057.8	1236.4	1317.8	1252.4
72.5°	4657.5	2057.2	665.1	698.7	1063.1	1139.2	1130.3	955.2	1098.5	1197.5	1119.7
75°	3214.0	1133.9	449.3	498.8	771.2	925.1	872.1	820.8	930.4	1031.3	955.2
77.5°	2014.8	507.7	268.9	346.7	505.9	727.0	597.9	635.0	725.2	819.0	739.4
80°	1121.5	196.3	150.4	230.0	275.9	528.9	330.8	408.6	534.2	601.4	537.7
82.5°	244.1	24.8	67.2	99.1	107.9	307.8	175.1	237.0	336.1	330.8	286.6
85°	0.0	0.0	12.4	14.2	7.1	132.7	63.7	77.8	109.7	102.6	77.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	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°	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4
2.5°	3184.0	3097.3	3033.6	3001.8	2975.3	3000.0	3014.2	3014.2	3074.3	3109.7	3123.8
5°	2885.0	2729.4	2610.9	2531.3	2483.5	2499.4	2517.1	2536.6	2612.6	2663.9	2697.5
7.5°	2678.1	2439.3	2258.9	2147.4	2089.0	2097.9	2110.3	2126.2	2200.5	2251.8	2296.0
10°	2639.2	2296.0	2041.3	1894.5	1823.7	1811.3	1804.3	1798.9	1843.2	1882.1	1917.5
12.5°	2798.4	2303.1	1947.5	1768.9	1682.2	1645.1	1602.6	1569.0	1576.1	1600.8	1645.1
15°	3083.2	2393.3	1917.5	1703.4	1595.5	1533.6	1484.1	1443.4	1434.6	1443.4	1450.5
17.5°	3408.6	2515.3	1913.9	1646.8	1512.4	1448.7	1408.0	1370.9	1358.5	1360.3	1369.1
20°	3624.4	2612.6	1903.3	1583.1	1432.8	1376.2	1340.8	1303.7	1291.3	1294.8	1296.6
22.5°	3645.7	2663.9	1887.4	1512.4	1353.2	1305.4	1270.1	1236.4	1234.7	1234.7	1245.3
25°	3530.7	2663.9	1853.8	1448.7	1277.1	1234.7	1202.8	1162.2	1169.2	1172.8	1186.9
27.5°	3352.0	2600.2	1790.1	1397.4	1211.7	1167.5	1135.6	1098.5	1107.3	1112.6	1128.5
30°	3175.1	2518.9	1714.0	1339.0	1149.8	1098.5	1075.5	1043.6	1047.2	1054.3	1071.9
32.5°	3010.6	2432.2	1623.8	1291.3	1087.9	1036.6	1018.9	983.5	988.8	995.9	1015.3
35°	2847.9	2336.7	1517.7	1234.7	1031.3	980.0	965.8	925.1	928.7	939.3	960.5
37.5°	2672.8	2235.9	1431.0	1178.1	976.4	923.4	909.2	866.7	870.3	882.7	907.4
40°	2488.8	2136.8	1346.1	1117.9	918.0	865.0	852.6	806.6	810.1	824.3	850.8
42.5°	2303.1	2028.9	1280.7	1040.1	857.9	801.3	788.9	746.5	751.8	767.7	794.2
45°	2131.5	1899.8	1238.2	953.4	801.3	737.6	725.2	686.3	696.9	714.6	741.2
47.5°	1984.7	1767.1	1220.5	880.9	741.2	672.2	661.6	629.7	647.4	666.9	688.1
50°	1859.1	1639.7	1197.5	806.6	684.6	615.6	605.0	583.7	606.7	626.2	645.6
52.5°	1768.9	1494.7	1148.0	739.4	635.0	567.8	564.3	553.7	574.9	592.6	610.3
55°	1691.0	1344.3	1068.4	681.0	590.8	527.1	530.7	525.4	543.0	557.2	573.1
57.5°	1620.3	1213.4	967.6	635.0	543.0	491.7	502.4	495.3	504.1	513.0	532.4
60°	1535.4	1080.8	847.3	583.7	486.4	456.4	468.8	449.3	447.5	451.1	456.4
62.5°	1409.8	902.1	721.7	520.0	436.9	417.5	422.8	385.6	357.3	357.3	362.6
65°	1234.7	725.2	605.0	449.3	380.3	364.4	360.9	307.8	268.9	265.3	281.3
67.5°	1031.3	596.1	502.4	378.5	316.6	306.0	309.6	270.6	231.7	228.2	245.9
70°	840.2	493.5	405.1	302.5	244.1	254.7	270.6	231.7	194.6	189.3	205.2
72.5°	682.8	392.7	316.6	231.7	180.4	210.5	230.0	189.3	153.9	150.4	164.5
75°	527.1	288.3	226.4	157.4	130.9	162.7	180.4	138.0	109.7	104.4	116.7
77.5°	352.0	178.7	127.4	99.1	77.8	111.4	120.3	72.5	63.7	61.9	70.8
80°	214.0	83.1	54.8	47.8	26.5	40.7	47.8	30.1	33.6	35.4	42.5
82.5°	107.9	23.0	8.8	1.8	0.0	0.0	14.2	7.1	14.2	17.7	26.5
85°	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	8.8	15.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1
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°	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4
2.5°	3222.9	3297.2	3367.9	3481.2	3597.9	3712.9	3829.6	3942.8	3983.5	4013.6	4080.8
5°	2851.4	2991.2	3153.9	3378.6	3619.1	3866.8	4117.9	4347.9	4452.3	4523.0	4682.2
7.5°	2467.6	2649.8	2883.3	3221.1	3597.9	3992.4	4386.8	4749.4	4917.5	5053.7	5296.0
10°	2087.3	2285.4	2580.8	2966.4	3475.8	4041.9	4586.7	5085.5	5303.1	5474.7	5803.7
12.5°	1753.0	1938.7	2248.2	2674.5	3284.8	4003.0	4701.7	5301.3	5557.8	5750.6	6111.5
15°	1517.7	1648.6	1922.8	2382.7	3058.4	3877.4	4708.8	5403.9	5685.2	5886.8	6199.9
17.5°	1386.8	1431.0	1609.7	2085.5	2807.2	3712.9	4643.3	5439.3	5740.0	5927.5	6145.1
20°	1316.0	1323.1	1372.6	1699.9	2485.3	3559.0	4581.4	5474.7	5791.3	5948.7	6014.2
22.5°	1259.4	1259.4	1271.8	1390.3	2069.6	3375.0	4561.9	5536.6	5862.1	5959.3	5824.9
25°	1208.1	1208.1	1211.7	1243.5	1639.7	3093.8	4549.6	5632.1	5959.3	5985.9	5616.2
27.5°	1155.1	1156.8	1156.8	1174.5	1321.4	2711.7	4496.5	5755.9	6076.1	6021.3	5416.3
30°	1102.0	1105.5	1105.5	1117.9	1169.2	2264.2	4392.1	5904.5	6228.2	6067.2	5218.2
32.5°	1048.9	1052.5	1052.5	1063.1	1100.2	1807.8	4261.2	6040.7	6382.1	6086.7	5034.2
35°	994.1	999.4	995.9	1010.0	1048.9	1438.1	4095.0	6176.9	6548.4	6148.6	4944.0
37.5°	939.3	942.8	941.0	955.2	999.4	1241.8	3902.1	6279.5	6774.8	6286.6	5051.9
40°	884.4	882.7	882.7	898.6	946.3	1185.1	3659.8	6442.3	7100.3	6528.9	5522.4
42.5°	827.8	827.8	824.3	842.0	900.4	1142.7	3428.1	6734.1	7574.3	6914.5	6357.3
45°	776.5	774.8	767.7	783.6	856.1	1068.4	3346.7	7278.9	8274.8	7539.0	7367.4
47.5°	727.0	725.2	707.6	721.7	803.1	1001.2	3651.0	8170.4	9245.9	8457.0	8313.7
50°	682.8	684.6	650.9	663.3	750.0	949.9	4310.8	9327.3	10535.4	9693.4	9210.5
52.5°	642.1	642.1	597.9	605.0	684.6	903.9	4938.7	10581.4	12237.1	11418.1	10255.9
55°	601.4	597.9	548.4	551.9	619.1	838.4	5032.5	11805.5	14557.9	14013.0	11685.2
57.5°	555.4	548.4	502.4	502.4	559.0	790.7	4362.1	12746.5	17437.6	17826.7	13745.9
60°	498.8	493.5	463.4	454.6	511.2	833.1	3077.8	12856.2	19294.9	22898.1	17692.3
62.5°	426.3	433.4	417.5	405.1	465.2	865.0	1823.7	11973.5	18845.6	24511.3	22418.7
65°	336.1	364.4	360.9	352.0	511.2	728.8	1077.2	10278.9	17467.7	23209.4	21454.7
67.5°	286.6	306.0	300.7	300.7	536.0	553.7	677.5	8030.7	15571.4	21665.2	19164.0
70°	244.1	263.6	244.1	244.1	405.1	336.1	468.8	5607.3	13524.8	19956.5	17660.5
72.5°	201.7	221.1	199.9	185.7	323.7	251.2	343.2	3504.1	11582.6	18177.0	16631.0
75°	153.9	176.9	161.0	143.3	214.0	187.5	260.0	2036.0	9596.2	15552.0	15164.6
77.5°	97.3	127.4	120.3	100.8	157.4	136.2	187.5	1211.7	7404.5	12152.2	13043.7
80°	60.1	65.4	67.2	63.7	90.2	92.0	127.4	689.9	5067.8	8469.4	10190.5
82.5°	38.9	38.9	30.1	33.6	44.2	53.1	72.5	260.0	2978.8	5156.3	7093.2
85°	28.3	24.8	15.9	15.9	21.2	26.5	28.3	79.6	1208.1	2036.0	2773.6
87.5°	14.2	12.4	5.3	7.1	10.6	8.8	7.1	3.5	304.2	650.9	456.4
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°	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4	3555.4
2.5°	4116.2	4171.0	4174.5	4174.5	4126.8	4125.0	4027.7	4017.1
5°	4846.7	4882.1	4890.9	4873.3	4777.7	4707.0	4517.7	4477.0
7.5°	5515.4	5586.1	5586.1	5543.7	5388.0	5243.0	4968.8	4866.2
10°	6049.6	6130.9	6113.2	6026.6	5830.2	5630.3	5297.8	5163.4
12.5°	6309.6	6392.7	6346.7	6247.7	6056.6	5846.1	5495.9	5343.8
15°	6304.3	6281.3	6233.5	6221.1	6129.2	5970.0	5642.7	5476.4
17.5°	6079.6	5885.1	5847.9	5971.7	6088.5	6049.6	5770.1	5614.4
20°	5724.1	5384.5	5350.9	5587.9	5920.4	6090.2	5888.6	5745.3
22.5°	5349.1	4982.9	4905.1	5166.9	5667.5	6102.6	6038.9	5895.7
25°	4993.5	4625.6	4547.8	4791.9	5386.2	6081.4	6201.7	6079.6
27.5°	4696.4	4340.8	4268.3	4512.4	5115.6	6021.3	6364.4	6277.7
30°	4466.4	4137.4	4084.3	4319.6	4882.1	5947.0	6571.4	6523.6
32.5°	4332.0	4091.4	4110.9	4303.7	4756.5	5865.6	6769.5	6792.5
35°	4464.6	4475.3	4645.1	4724.7	4873.3	5853.2	7038.4	7128.6
37.5°	5124.4	5492.4	5844.4	5778.9	5444.6	5996.5	7439.9	7607.9
40°	6247.7	7003.0	7574.3	7324.9	6482.9	6435.2	8018.3	8269.5
42.5°	7620.3	8901.0	9842.0	9173.4	7822.0	7202.9	8844.4	9164.6
45°	9069.0	11241.2	12723.5	11333.2	9249.5	8278.3	10095.0	10346.2
47.5°	10595.6	14085.6	16003.0	13728.3	10572.6	9502.4	11800.2	11858.6
50°	12265.4	17204.1	19346.2	16121.5	11849.7	10905.1	13883.9	13816.7
52.5°	13855.6	20411.1	22618.6	18525.4	12971.2	12645.7	16302.0	16164.0
55°	15373.3	23616.3	25910.5	20835.6	14029.0	14945.2	19174.6	18339.7
57.5°	17133.3	26497.8	29303.2	23156.4	15507.7	17931.1	22386.9	19602.7
60°	19735.4	29772.0	33139.9	26336.8	18320.3	21069.1	23538.4	19362.1
62.5°	23057.3	32782.6	35929.4	29453.6	21145.2	21659.9	21842.1	17508.3
65°	23703.0	33545.0	36086.9	30286.7	20780.8	18373.3	17832.0	14073.2
67.5°	21990.7	32167.0	33886.4	28735.4	18382.2	14198.8	13381.6	10210.0
70°	20069.7	29540.2	30051.5	26098.0	16167.5	10443.5	9037.2	6551.9
72.5°	18100.9	26036.1	24978.3	22664.6	14209.4	7604.4	6518.3	4657.5
75°	15762.5	21428.2	19675.2	18831.5	11764.8	5968.2	4715.8	3214.0
77.5°	12622.7	15083.2	14614.5	14596.8	8840.8	4360.3	3146.8	2014.8
80°	8904.5	9789.0	9550.2	10993.6	5931.0	3162.8	1894.5	1121.5
82.5°	4310.8	5412.8	5556.0	6546.6	2885.0	1860.9	436.9	244.1
85°	1687.5	2610.9	2202.3	2485.3	810.1	518.3	10.6	0.0
87.5°	189.3	302.5	277.7	219.3	99.1	21.2	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)