

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: P956998

Luminaire Tested: **GALN-SB9C-727-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956998
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-SB9C-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 615mA 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: 48287 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 449.8
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



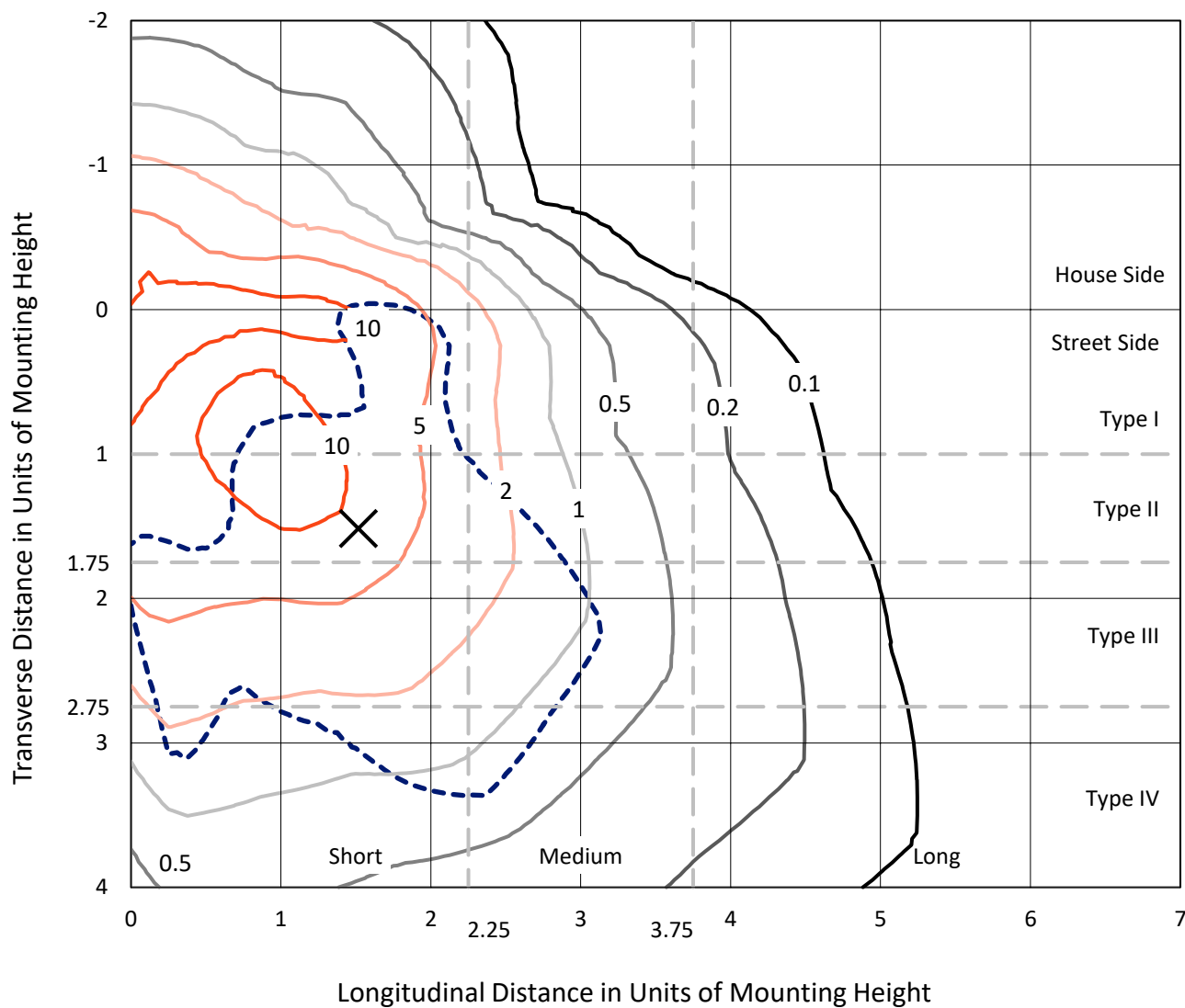
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Iso-Footcandle Lines of Horizontal Illumination

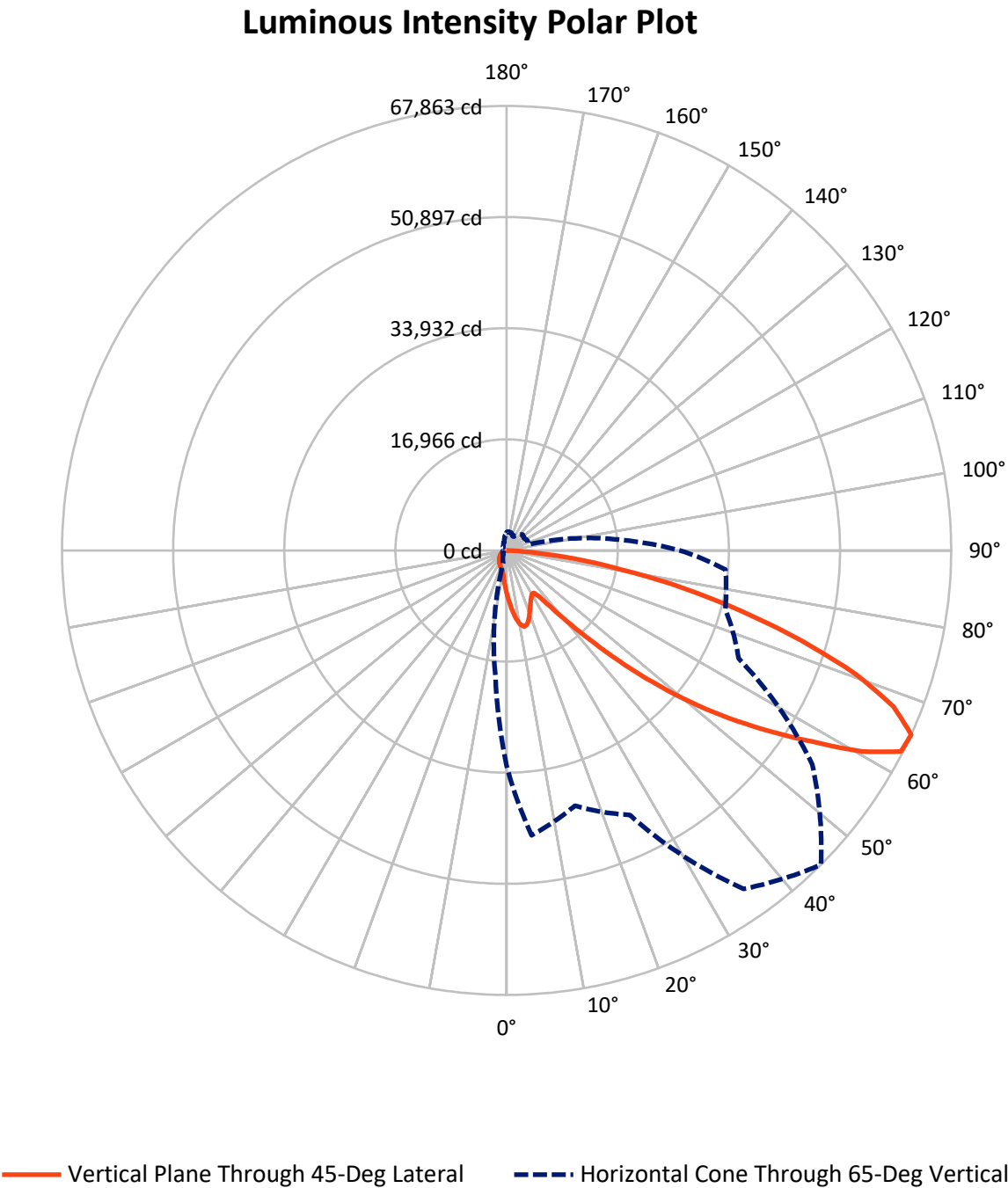
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 fc
Type IV - Short - N/A

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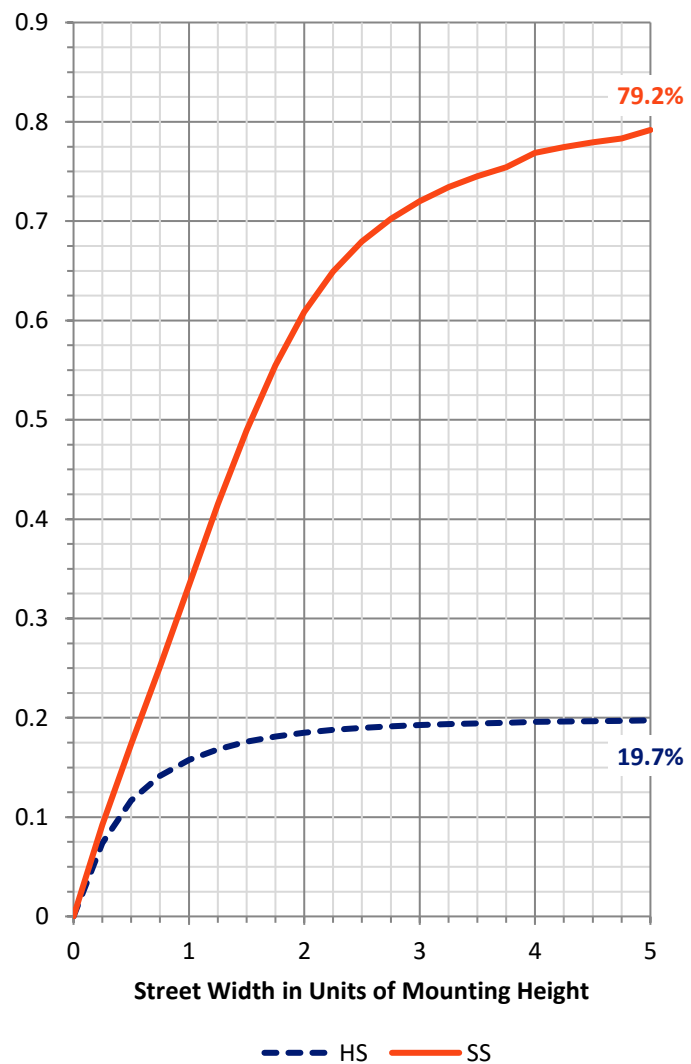
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9598.0	0.0	9598.0
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	38689.0	0.0	38689.0
	% Fixture	80.1	0.0	80.1
Total	Lumens	48287.0	0.0	48287.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	658.3	1.4
10°-20°	1973.3	4.1
20°-30°	2907.1	6.0
30°-40°	3734.8	7.7
40°-50°	6040.4	12.5
50°-60°	10592.3	21.9
60°-70°	13253.9	27.4
70°-80°	7745.0	16.0
80°-90°	1381.8	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°	48287.0	100.0
0°-180°	48287.0	100.0

Coefficient of Utilization



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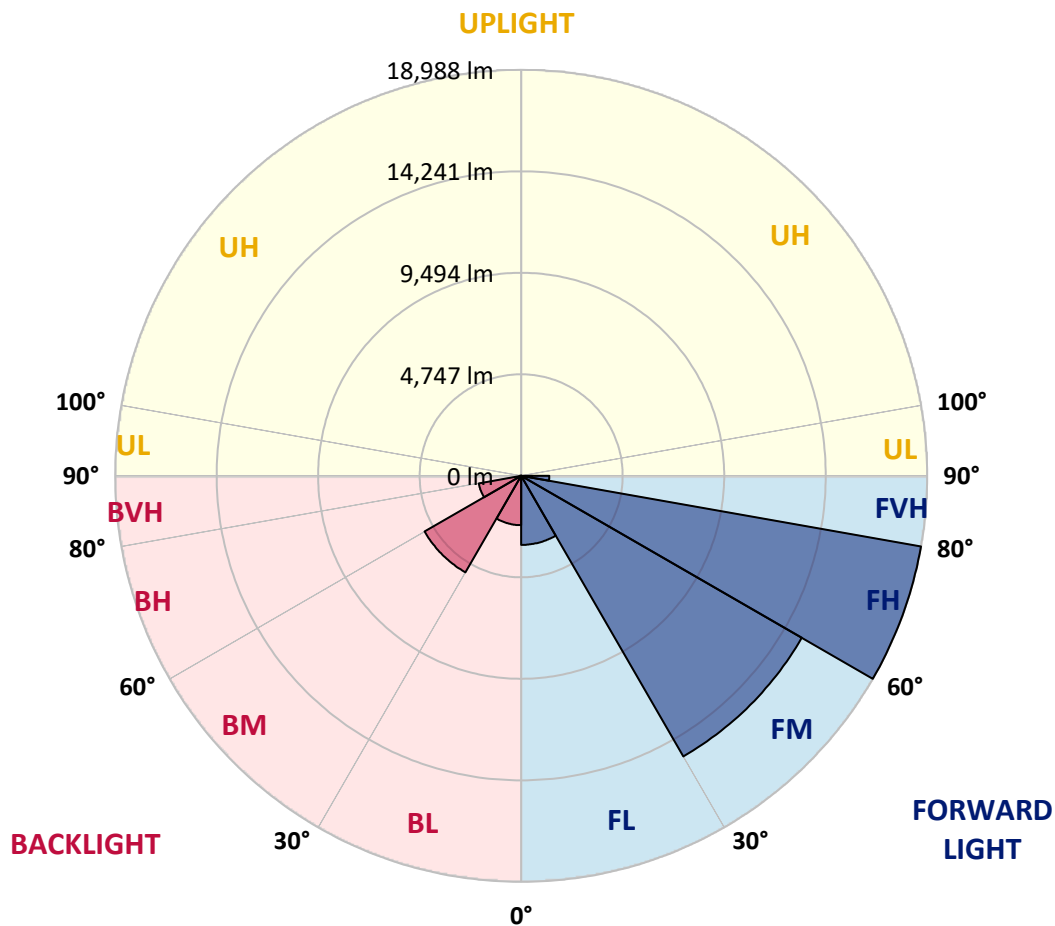
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3231.0	6.7			
FM	(30°-60°)	15153.0	31.4			
FH	(60°-80°)	18987.9	39.3			G5
FVH	(80°-90°)	1317.1	2.7			G5
BL	(0°-30°)	2307.8	4.8	B3/2500		
BM	(30°-60°)	5214.5	10.8	B4/8500		
BH	(60°-80°)	2010.9	4.2	B3/2500		G3/2500
BVH	(80°-90°)	64.8	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6686.2	6686.2	6686.2	6686.2	6686.2	6686.2	6686.2	6686.2	6686.2	6686.2	6686.2
2.5°	7491.2	7547.8	7674.2	7740.7	7843.8	7850.5	7850.5	7760.7	7757.3	7574.4	7554.4
5°	8372.7	8505.8	8805.2	9114.5	9181.1	9197.7	9164.4	8984.8	8851.7	8495.8	8419.3
7.5°	9247.6	9503.7	9959.5	10371.9	10505.0	10505.0	10425.2	10132.4	9859.7	9344.1	9151.1
10°	9972.8	10295.4	10914.1	11376.5	11529.5	11496.3	11333.3	10964.0	10588.2	9962.8	9710.0
12.5°	10451.8	10814.4	11493.0	11865.5	12021.9	11935.4	11749.1	11389.8	10994.0	10335.3	10049.3
15°	10691.3	11070.5	11659.3	11855.5	11812.3	11722.5	11699.2	11526.2	11226.8	10611.4	10298.8
17.5°	10794.4	11147.0	11556.2	11433.1	11067.2	10997.3	11230.2	11449.7	11376.5	10850.9	10558.2
20°	10890.9	11186.9	11310.0	10764.5	10125.8	10062.6	10508.3	11133.7	11453.0	11073.8	10804.4
22.5°	11023.9	11206.9	10954.1	10059.2	9370.7	9224.3	9716.6	10658.0	11476.3	11356.6	11087.1
25°	11206.9	11256.8	10561.5	9390.6	8698.7	8552.4	9011.4	10129.1	11436.4	11662.6	11433.1
27.5°	11426.4	11323.3	10185.7	8831.8	8163.2	8026.8	8485.8	9620.2	11323.3	11968.6	11805.6
30°	11712.5	11409.8	9813.1	8399.3	7780.6	7680.8	8123.2	9181.1	11183.6	12357.8	12268.0
32.5°	12001.9	11446.4	9467.1	8146.5	7694.1	7730.7	8093.3	8944.9	11030.6	12730.4	12773.6
35°	12314.6	11562.8	9297.5	8396.0	8416.0	8735.3	8885.0	9164.4	11007.3	13236.0	13405.7
37.5°	12740.4	11822.3	9500.4	9636.8	10328.7	10990.7	10867.6	10238.9	11276.7	13991.1	14307.1
40°	13352.5	12278.0	10385.2	11749.1	13169.5	14243.9	13774.9	12191.5	12101.7	15078.9	15551.2
42.5°	14243.9	13003.2	11955.3	14330.4	16738.8	18508.5	17251.1	14709.6	13545.4	16632.3	17234.4
45°	15561.2	14177.4	13854.7	17054.8	21139.7	23927.3	21312.7	17394.1	15567.9	18984.2	19456.5
47.5°	17387.5	15903.9	15634.4	19925.6	26488.7	30094.6	25816.7	19882.3	17869.8	22190.9	22300.7
50°	19812.5	18229.1	17320.9	23065.7	32353.2	36381.6	30317.4	22284.0	20507.7	26109.5	25983.1
52.5°	23012.5	21472.4	19286.9	26056.2	38384.1	42535.6	34838.1	24393.0	23780.9	30656.7	30397.3
55°	27376.8	26352.3	21974.7	28910.3	44411.7	48726.1	39182.5	26382.2	28105.3	36058.9	34488.8
57.5°	32792.3	33524.2	25850.0	32220.2	49830.5	55106.3	43546.8	29163.2	33720.4	42099.8	36863.9
60°	36285.1	43061.2	33271.4	37113.4	55987.8	62321.4	49527.8	34452.2	39621.6	44265.3	36411.5
62.5°	35440.2	46094.9	42159.7	43360.5	61649.5	67567.3	55389.0	39764.6	40732.6	41075.2	32925.4
65°	32848.9	43646.6	40346.8	44574.7	63083.2	67863.3	56955.8	39079.4	34552.0	33534.1	26465.4
67.5°	29282.9	40742.6	36039.0	41354.7	60491.9	63725.2	54038.5	34568.7	26701.6	25164.7	19200.4
70°	25434.2	37529.2	33211.5	37742.1	55552.0	56513.4	49078.7	30403.9	19639.5	16994.9	12321.2
72.5°	21781.7	34182.8	31275.5	34039.8	48962.3	46973.1	42622.1	26721.5	14300.5	12258.0	8758.6
75°	18046.1	29246.3	28517.8	29642.2	40296.9	37000.3	35413.6	22124.4	11223.5	8868.4	6044.2
77.5°	13924.6	22852.8	24529.4	23737.7	28364.8	27483.3	27450.0	16625.7	8199.7	5917.8	3788.8
80°	9530.3	15927.1	19163.8	16745.4	18408.7	17959.6	20674.0	11153.7	5947.7	3562.6	2109.0
82.5°	5601.8	9696.7	13339.1	8106.6	10179.0	10448.4	12311.3	5425.5	3499.4	821.6	459.1
85°	2272.0	3828.8	5215.9	3173.5	4909.9	4141.5	4673.7	1523.5	974.7	20.0	0.0
87.5°	572.2	1224.1	858.2	355.9	568.8	522.3	412.5	186.3	39.9	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°	6686.2	6686.2	6686.2	6686.2	6686.2	6686.2	6686.2	6686.2	6686.2	6686.2	6686.2
2.5°	7424.7	7348.2	7158.6	6969.0	6815.9	6609.7	6473.3	6310.3	6154.0	6014.3	5987.6
5°	8209.7	7956.9	7611.0	7294.9	6972.3	6659.6	6350.2	6024.2	5724.9	5541.9	5425.5
7.5°	8848.4	8402.7	7943.6	7541.1	7151.9	6786.0	6376.8	5981.0	5512.0	5262.5	5036.3
10°	9324.1	8738.6	8136.5	7674.2	7281.6	6925.7	6579.8	6180.6	5615.1	5302.4	4963.1
12.5°	9636.8	8941.6	8236.3	7707.4	7268.3	6992.2	6839.2	6682.9	6120.7	5754.8	5262.5
15°	9853.0	9084.6	8306.2	7630.9	7092.0	6889.1	7042.1	7221.8	6862.5	6440.0	5798.0
17.5°	10089.2	9270.9	8336.1	7424.7	6749.4	6662.9	7058.8	7474.6	7457.9	7038.8	6410.1
20°	10338.7	9433.9	8316.2	7092.0	6333.6	6410.1	6915.7	7398.1	7601.0	7374.8	6815.9
22.5°	10594.8	9590.2	8239.7	6659.6	5944.4	6183.9	6689.5	7112.0	7351.5	7281.6	6855.9
25°	10917.5	9809.8	8126.6	6193.9	5621.7	5954.4	6426.7	6769.4	6935.7	6932.4	6639.6
27.5°	11303.3	10102.5	8066.7	5818.0	5392.2	5694.9	6114.1	6420.1	6536.5	6536.5	6303.7
30°	11752.4	10448.4	8000.2	5571.8	5259.1	5425.5	5751.5	6050.8	6167.3	6167.3	5971.0
32.5°	12251.4	10781.1	7840.5	5422.1	5159.4	5162.7	5368.9	5641.7	5781.4	5801.4	5661.7
35°	12850.2	11137.0	7491.2	5302.4	5042.9	4906.5	5006.3	5232.5	5398.9	5442.1	5355.6
37.5°	13635.2	11572.8	6992.2	5126.1	4863.3	4637.1	4660.4	4833.4	5016.3	5082.8	5026.3
40°	14689.7	12085.1	6473.3	4873.3	4610.5	4341.0	4331.1	4457.5	4637.1	4710.3	4680.3
42.5°	16083.5	12700.5	5977.7	4630.4	4304.5	4028.4	4011.7	4111.5	4267.9	4344.4	4331.1
45°	17866.5	13455.6	5551.9	4440.8	4005.1	3732.3	3725.6	3808.8	3945.2	4025.0	4008.4
47.5°	20344.7	14210.7	5262.5	4341.0	3768.9	3489.5	3502.8	3576.0	3699.0	3755.6	3732.3
50°	23574.7	14440.2	5116.1	4341.0	3642.5	3273.2	3339.8	3399.7	3492.8	3526.1	3496.1
52.5°	26675.0	13681.8	4983.1	4367.7	3659.1	3090.3	3233.3	3276.6	3356.4	3369.7	3326.5
55°	28195.2	11762.4	4800.1	4374.3	3762.2	2933.9	3146.8	3226.7	3256.6	3253.3	3180.1
57.5°	27672.9	9510.4	4490.7	4347.7	3832.1	2834.2	3040.4	3193.4	3213.4	3183.4	3047.0
60°	25840.0	7002.2	4254.6	4151.4	3805.5	2804.2	2877.4	3120.2	3150.2	3110.2	2887.4
62.5°	22766.4	4860.0	4071.6	3719.0	3689.1	2794.2	2621.3	2960.6	3033.7	2977.2	2651.2
65°	17923.0	3432.9	3506.1	3259.9	3436.2	2741.0	2355.1	2767.6	2867.4	2780.9	2321.9
67.5°	12128.3	2478.2	2840.8	2953.9	3027.1	2621.3	2162.2	2548.1	2681.1	2568.0	1939.3
70°	6549.8	1739.7	1876.1	2488.2	2571.4	2415.0	1989.2	2325.2	2478.2	2355.1	1580.1
72.5°	3868.7	1250.8	1314.0	1999.2	2142.2	2125.6	1796.3	2065.7	2252.0	2105.7	1284.0
75°	2132.3	844.9	938.1	1450.3	1739.7	1639.9	1543.5	1749.7	1939.3	1796.3	991.3
77.5°	954.7	505.6	652.0	951.4	1367.2	1124.3	1194.2	1363.9	1540.2	1390.5	662.0
80°	369.2	282.7	432.4	518.9	994.6	622.0	768.4	1004.6	1131.0	1011.2	402.5
82.5°	46.6	126.4	186.3	202.9	578.8	329.3	445.7	632.0	622.0	538.9	202.9
85°	0.0	23.3	26.6	13.3	249.5	119.8	146.4	206.2	192.9	146.4	16.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	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°	6686.2	6686.2	6686.2	6686.2	6686.2	6686.2	6686.2	6686.2	6686.2	6686.2	6686.2
2.5°	5824.6	5704.9	5645.0	5595.1	5641.7	5668.3	5668.3	5781.4	5847.9	5874.5	6060.8
5°	5132.7	4909.9	4760.2	4670.4	4700.3	4733.6	4770.2	4913.2	5009.7	5072.9	5362.3
7.5°	4587.2	4247.9	4038.3	3928.6	3945.2	3968.5	3998.4	4138.1	4234.6	4317.8	4640.4
10°	4317.8	3838.7	3562.6	3429.6	3406.3	3393.0	3383.0	3466.2	3539.4	3605.9	3925.2
12.5°	4331.1	3662.4	3326.5	3163.5	3093.6	3013.8	2950.6	2963.9	3010.5	3093.6	3296.5
15°	4500.7	3605.9	3203.4	3000.5	2884.0	2790.9	2714.4	2697.8	2714.4	2727.7	2854.1
17.5°	4730.2	3599.2	3096.9	2844.1	2724.4	2647.9	2578.0	2554.7	2558.1	2574.7	2608.0
20°	4913.2	3579.3	2977.2	2694.4	2588.0	2521.5	2451.6	2428.3	2435.0	2438.3	2474.9
22.5°	5009.7	3549.3	2844.1	2544.7	2454.9	2388.4	2325.2	2321.9	2321.9	2341.8	2368.4
25°	5009.7	3486.1	2724.4	2401.7	2321.9	2262.0	2185.5	2198.8	2205.4	2232.1	2272.0
27.5°	4889.9	3366.4	2627.9	2278.6	2195.5	2135.6	2065.7	2082.4	2092.3	2122.3	2172.2
30°	4736.9	3223.3	2518.1	2162.2	2065.7	2022.5	1962.6	1969.3	1982.6	2015.8	2072.4
32.5°	4573.9	3053.7	2428.3	2045.8	1949.3	1916.0	1849.5	1859.5	1872.8	1909.4	1972.6
35°	4394.3	2854.1	2321.9	1939.3	1842.9	1816.3	1739.7	1746.4	1766.4	1806.3	1869.5
37.5°	4204.7	2691.1	2215.4	1836.2	1736.4	1709.8	1630.0	1636.6	1659.9	1706.5	1766.4
40°	4018.4	2531.4	2102.3	1726.4	1626.6	1603.4	1516.9	1523.5	1550.1	1600.0	1663.2
42.5°	3815.5	2408.4	1956.0	1613.3	1506.9	1483.6	1403.8	1413.7	1443.7	1493.6	1556.8
45°	3572.6	2328.5	1793.0	1506.9	1387.1	1363.9	1290.7	1310.6	1343.9	1393.8	1460.3
47.5°	3323.1	2295.3	1656.6	1393.8	1264.1	1244.1	1184.2	1217.5	1254.1	1294.0	1367.2
50°	3083.6	2252.0	1516.9	1287.3	1157.6	1137.7	1097.7	1141.0	1177.6	1214.2	1284.0
52.5°	2810.9	2158.9	1390.5	1194.2	1067.8	1061.1	1041.2	1081.1	1114.4	1147.6	1207.5
55°	2528.1	2009.2	1280.7	1111.0	991.3	997.9	988.0	1021.2	1047.8	1077.8	1131.0
57.5°	2282.0	1819.6	1194.2	1021.2	924.8	944.7	931.4	948.0	964.7	1001.3	1044.5
60°	2032.5	1593.4	1097.7	914.8	858.2	881.5	844.9	841.6	848.2	858.2	938.1
62.5°	1696.5	1357.2	978.0	821.6	785.0	795.0	725.2	671.9	671.9	681.9	801.7
65°	1363.9	1137.7	844.9	715.2	685.3	678.6	578.8	505.6	499.0	528.9	632.0
67.5°	1121.0	944.7	711.9	595.4	575.5	582.1	508.9	435.8	429.1	462.4	538.9
70°	928.1	761.8	568.8	459.1	479.0	508.9	435.8	365.9	355.9	385.9	459.1
72.5°	738.5	595.4	435.8	339.3	395.8	432.4	355.9	289.4	282.7	309.4	379.2
75°	542.2	425.8	296.1	246.2	306.0	339.3	259.5	206.2	196.3	219.5	289.4
77.5°	336.0	239.5	186.3	146.4	209.6	226.2	136.4	119.8	116.4	133.1	183.0
80°	156.3	103.1	89.8	49.9	76.5	89.8	56.5	63.2	66.5	79.8	113.1
82.5°	43.2	16.6	3.3	0.0	0.0	26.6	13.3	26.6	33.3	49.9	73.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	16.6	29.9	53.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.3	26.6
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°	6686.2	6686.2	6686.2	6686.2	6686.2	6686.2	6686.2	6686.2
2.5°	6200.5	6333.6	6546.5	6766.0	6982.3	7201.8	7414.7	7491.2
5°	5625.1	5931.1	6353.6	6806.0	7271.7	7744.0	8176.5	8372.7
7.5°	4983.1	5422.1	6057.5	6766.0	7507.8	8249.6	8931.6	9247.6
10°	4297.8	4853.3	5578.5	6536.5	7601.0	8625.5	9563.6	9972.8
12.5°	3645.8	4227.9	5029.6	6177.3	7527.8	8841.8	9969.4	10451.8
15°	3100.3	3615.9	4480.8	5751.5	7291.6	8855.1	10162.4	10691.3
17.5°	2691.1	3027.1	3921.9	5279.1	6982.3	8732.0	10228.9	10794.4
20°	2488.2	2581.3	3196.7	4673.7	6692.9	8615.6	10295.4	10890.9
22.5°	2368.4	2391.7	2614.6	3892.0	6346.9	8579.0	10411.9	11023.9
25°	2272.0	2278.6	2338.5	3083.6	5818.0	8555.7	10591.5	11206.9
27.5°	2175.5	2175.5	2208.8	2484.9	5099.5	8455.9	10824.3	11426.4
30°	2079.0	2079.0	2102.3	2198.8	4257.9	8259.6	11103.8	11712.5
32.5°	1979.2	1979.2	1999.2	2069.1	3399.7	8013.5	11359.9	12001.9
35°	1879.5	1872.8	1899.4	1972.6	2704.4	7700.8	11616.0	12314.6
37.5°	1773.0	1769.7	1796.3	1879.5	2335.2	7338.2	11809.0	12740.4
40°	1659.9	1659.9	1689.8	1779.7	2228.7	6882.5	12115.0	13352.5
42.5°	1556.8	1550.1	1583.4	1693.2	2148.9	6446.7	12663.9	14243.9
45°	1457.0	1443.7	1473.6	1610.0	2009.2	6293.7	13688.4	15561.2
47.5°	1363.9	1330.6	1357.2	1510.2	1882.8	6865.8	15365.0	17387.5
50°	1287.3	1224.1	1247.4	1410.4	1786.3	8106.6	17540.5	19812.5
52.5°	1207.5	1124.3	1137.7	1287.3	1699.8	9287.5	19898.9	23012.5
55°	1124.3	1031.2	1037.9	1164.3	1576.7	9463.8	22200.9	27376.8
57.5°	1031.2	944.7	944.7	1051.2	1486.9	8203.1	23970.5	32792.3
60°	928.1	871.5	854.9	961.3	1566.8	5788.1	24176.8	36285.1
62.5°	815.0	785.0	761.8	874.9	1626.6	3429.6	22516.9	35440.2
65°	685.3	678.6	662.0	961.3	1370.5	2025.8	19330.1	32848.9
67.5°	575.5	565.5	565.5	1007.9	1041.2	1274.0	15102.2	29282.9
70°	495.6	459.1	459.1	761.8	632.0	881.5	10544.9	25434.2
72.5°	415.8	375.9	349.3	608.7	472.4	645.3	6589.7	21781.7
75°	332.6	302.7	269.4	402.5	352.6	489.0	3828.8	18046.1
77.5°	239.5	226.2	189.6	296.1	256.1	352.6	2278.6	13924.6
80°	123.1	126.4	119.8	169.6	173.0	239.5	1297.3	9530.3
82.5°	73.2	56.5	63.2	83.2	99.8	136.4	489.0	5601.8
85°	46.6	29.9	29.9	39.9	49.9	53.2	149.7	2272.0
87.5°	23.3	10.0	13.3	20.0	16.6	13.3	6.7	572.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)