

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: P957334

Luminaire Tested: **GALN-SB9D-722-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957334
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-SB9D-722-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2200K, 900mA 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: 58436 lumens
Efficiency: N/A
Efficacy: 88.8 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): 658
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



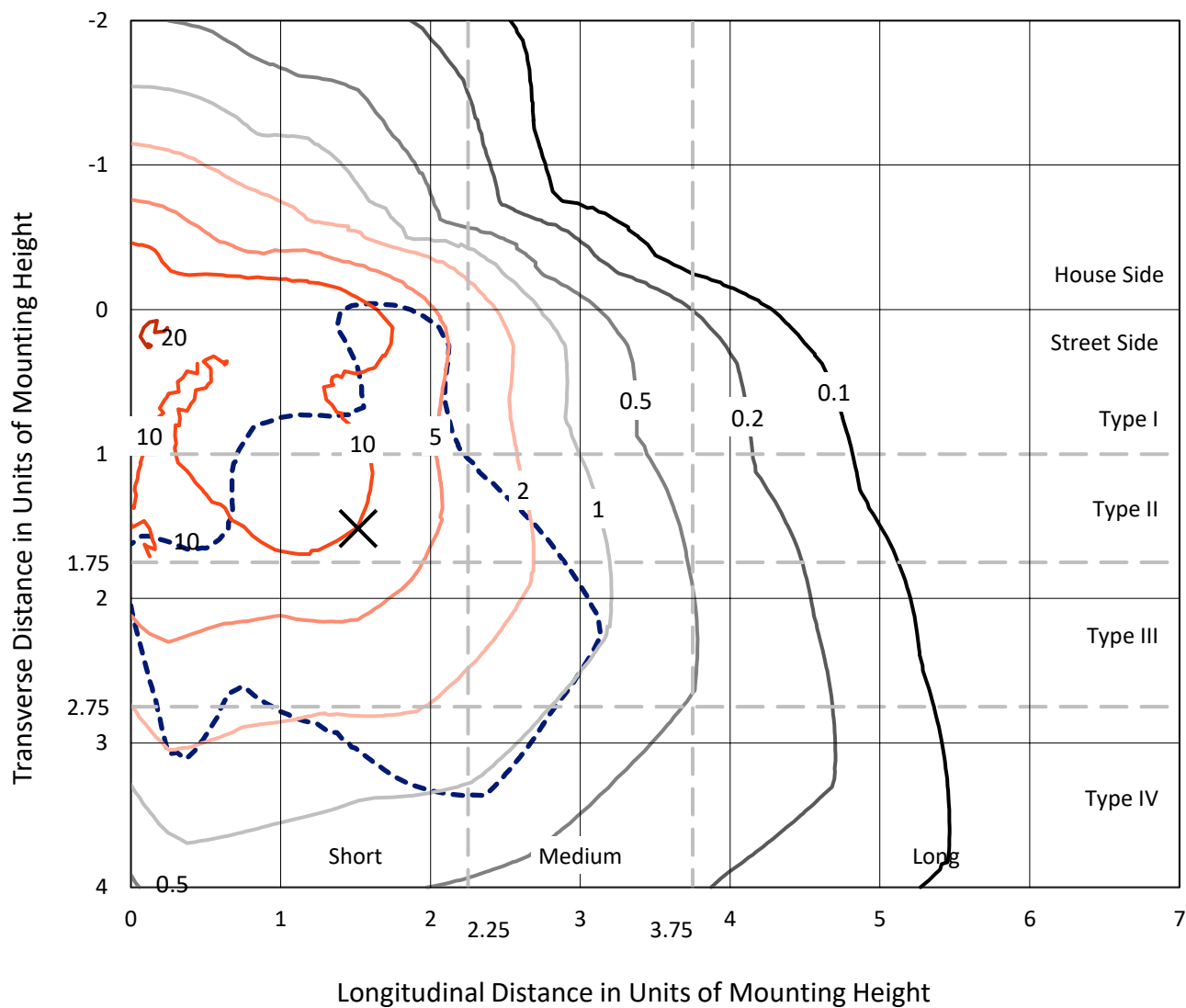
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Iso-Footcandle Lines of Horizontal Illumination

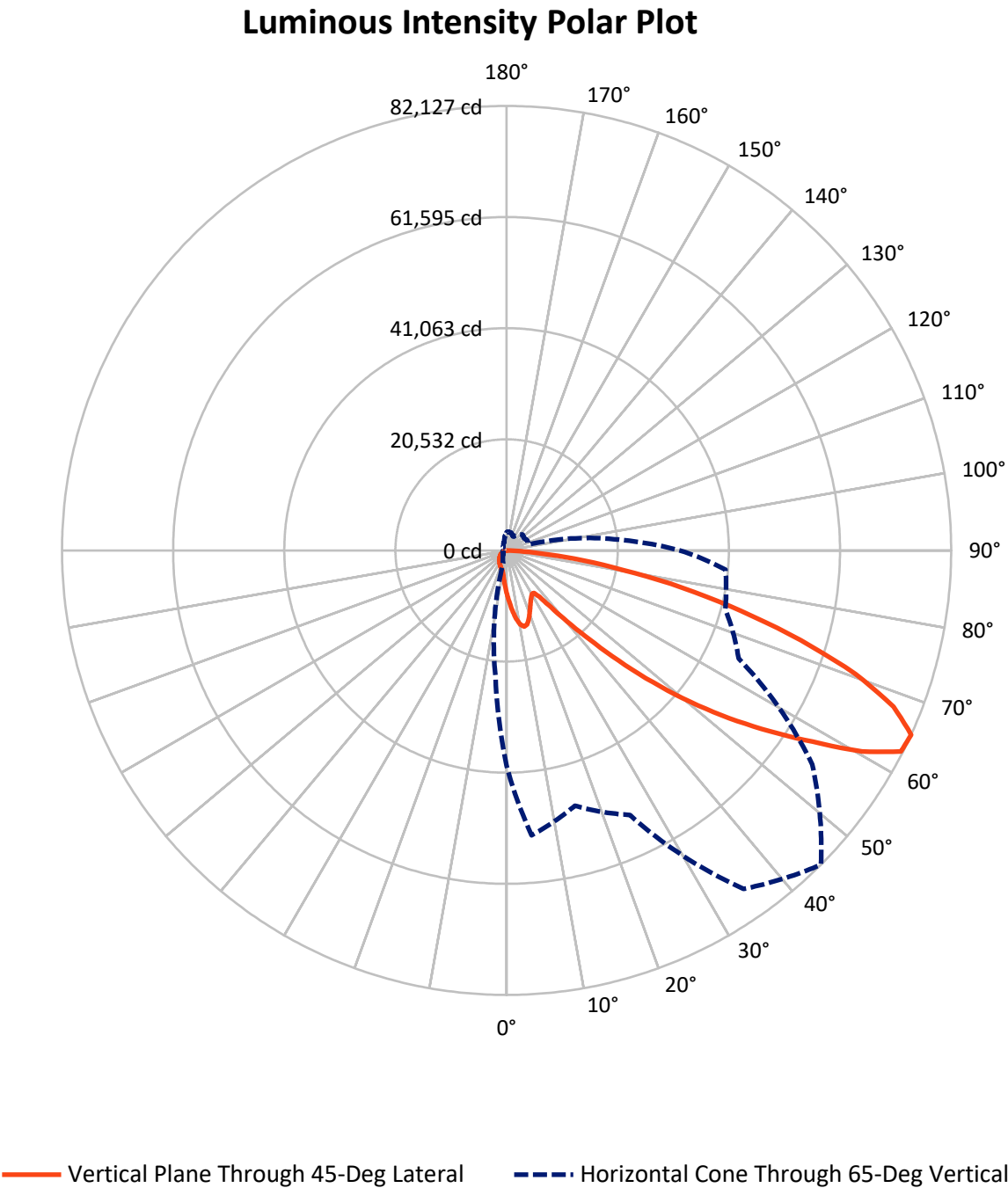
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.3 fc
Type IV - Short - N/A

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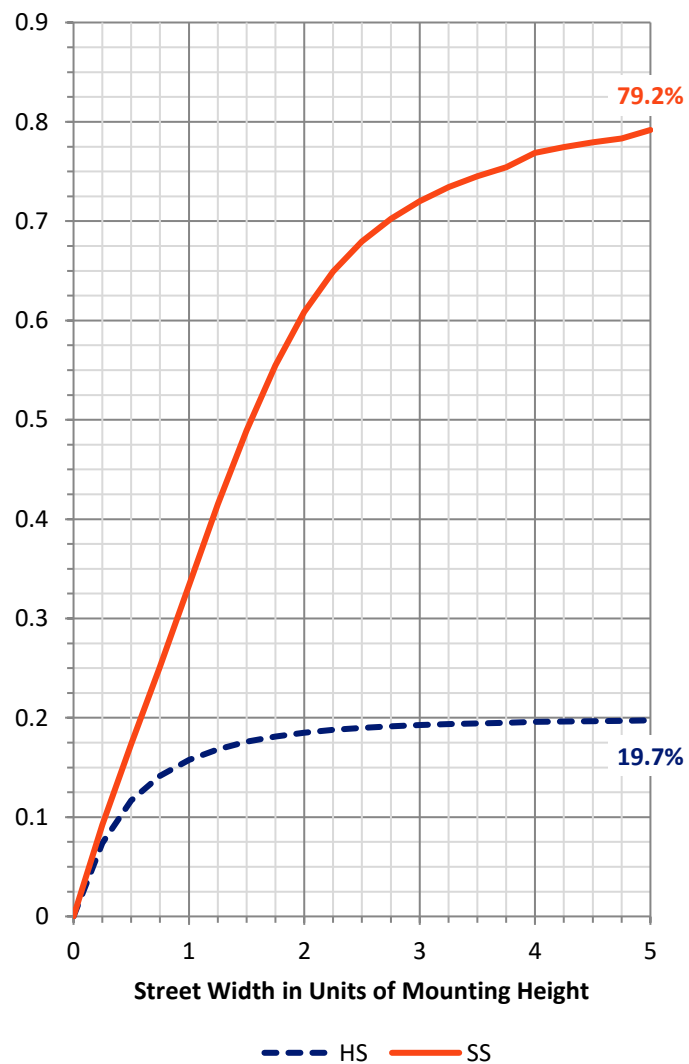
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11615.3	0.0	11615.3
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	46820.7	0.0	46820.7
	% Fixture	80.1	0.0	80.1
Total	Lumens	58436.0	0.0	58436.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	796.6	1.4
10°-20°	2388.1	4.1
20°-30°	3518.1	6.0
30°-40°	4519.8	7.7
40°-50°	7309.9	12.5
50°-60°	12818.7	21.9
60°-70°	16039.6	27.4
70°-80°	9372.8	16.0
80°-90°	1672.3	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°	58436.0	100.0
0°-180°	58436.0	100.0

Coefficient of Utilization



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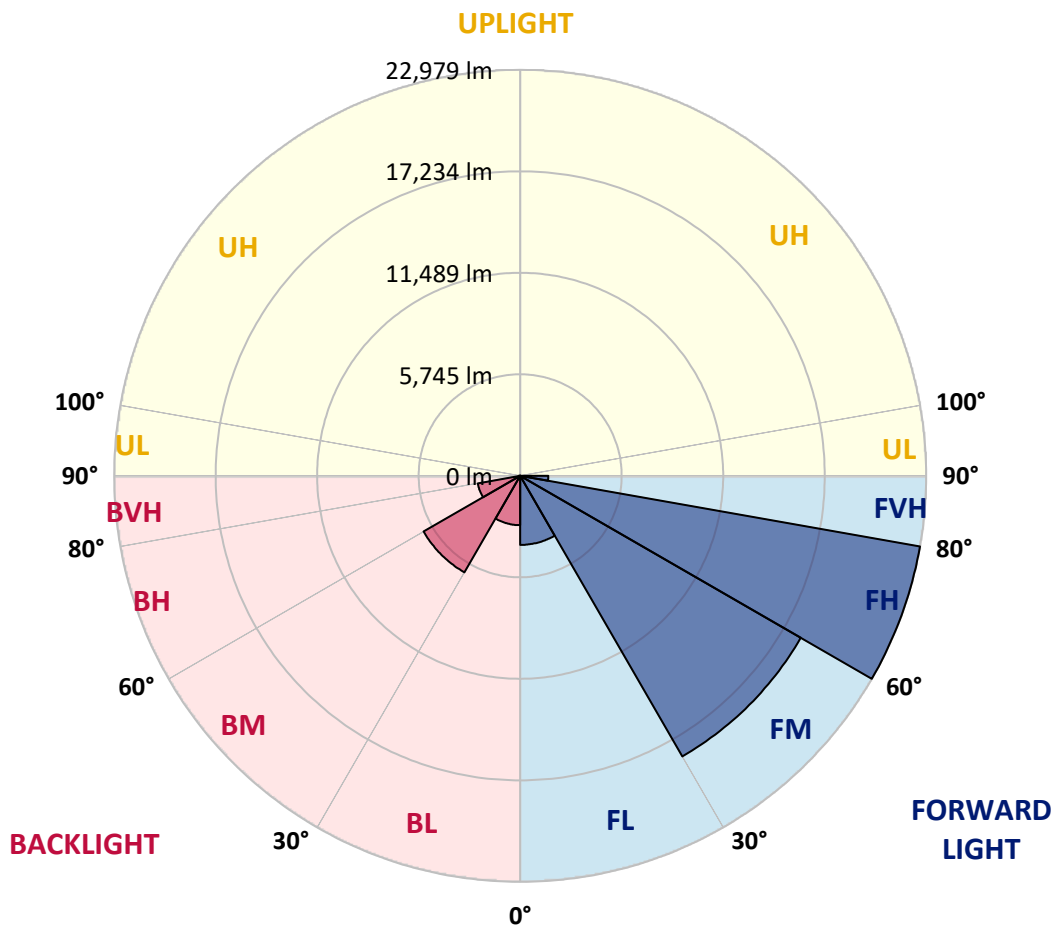
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3910.0	6.7			
FM	(30°-60°)	18337.9	31.4			
FH	(60°-80°)	22978.9	39.3			G5
FVH	(80°-90°)	1593.9	2.7			G5
BL	(0°-30°)	2792.8	4.8	B4/5000		
BM	(30°-60°)	6310.5	10.8	B4/8500		
BH	(60°-80°)	2433.6	4.2	B3/2500		G3/2500
BVH	(80°-90°)	78.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5
2.5°	9065.7	9134.2	9287.1	9367.6	9492.4	9500.5	9500.5	9391.8	9387.8	9166.4	9142.2
5°	10132.5	10293.5	10655.8	11030.2	11110.7	11130.9	11090.6	10873.2	10712.2	10281.5	10188.9
7.5°	11191.3	11501.2	12052.7	12551.9	12712.9	12712.9	12616.3	12262.1	11932.0	11308.0	11074.5
10°	12068.8	12459.3	13208.1	13767.7	13952.8	13912.6	13715.3	13268.5	12813.6	12056.8	11750.8
12.5°	12648.5	13087.3	13908.6	14359.4	14548.6	14444.0	14218.5	13783.8	13304.7	12507.6	12161.4
15°	12938.4	13397.3	14109.8	14347.3	14295.0	14186.3	14158.1	13948.8	13586.5	12841.8	12463.4
17.5°	13063.2	13489.9	13985.0	13836.1	13393.3	13308.7	13590.5	13856.2	13767.7	13131.6	12777.3
20°	13179.9	13538.2	13687.1	13026.9	12254.0	12177.5	12717.0	13473.8	13860.2	13401.3	13075.2
22.5°	13340.9	13562.3	13256.4	12173.5	11340.2	11163.1	11758.9	12898.1	13888.4	13743.5	13417.4
25°	13562.3	13622.7	12781.4	11364.4	10527.0	10349.9	10905.4	12258.0	13840.1	14113.9	13836.1
27.5°	13828.0	13703.2	12326.5	10688.0	9878.9	9713.8	10269.4	11642.1	13703.2	14484.2	14287.0
30°	14174.2	13807.9	11875.6	10164.7	9415.9	9295.2	9830.6	11110.7	13534.2	14955.2	14846.5
32.5°	14524.5	13852.2	11456.9	9858.8	9311.3	9355.6	9794.4	10824.9	13349.0	15406.1	15458.4
35°	14902.9	13993.1	11251.6	10160.7	10184.8	10571.3	10752.5	11090.6	13320.8	16018.0	16223.3
37.5°	15418.2	14307.1	11497.2	11662.2	12499.6	13300.7	13151.7	12390.9	13646.9	16931.8	17314.2
40°	16158.9	14858.6	12568.0	14218.5	15937.5	17237.7	16670.1	14753.9	14645.2	18248.2	18819.8
42.5°	17237.7	15736.2	14468.1	17342.4	20257.0	22398.6	20876.9	17801.3	16392.4	20128.1	20856.8
45°	18831.9	17157.2	16766.7	20639.4	25582.9	28956.4	25792.2	21050.0	18839.9	22974.3	23545.9
47.5°	21042.0	19246.5	18920.5	24113.5	32056.1	36419.9	31242.9	24061.2	21625.7	26855.0	26987.8
50°	23976.7	22060.5	20961.5	27913.7	39153.3	44028.3	36689.6	26967.7	24818.0	31597.2	31444.2
52.5°	27849.3	25985.4	23340.6	31532.8	46451.7	51475.7	42160.4	29519.9	28779.2	37100.2	36786.2
55°	33130.9	31891.0	26593.3	34986.7	53746.2	58967.4	47417.9	31927.3	34012.5	43637.8	41737.7
57.5°	39684.7	40570.3	31283.2	38992.3	60303.9	66688.6	52699.5	35292.7	40807.8	50948.4	44612.0
60°	43911.6	52111.8	40264.4	44914.0	67755.4	75420.2	59937.6	41693.4	47949.3	53569.1	44064.5
62.5°	42889.1	55783.2	51020.8	52474.1	74607.0	81768.6	67030.8	48122.4	49293.8	49708.5	39845.7
65°	39753.1	52820.3	48826.9	53943.4	76342.0	82126.9	68926.8	47293.1	41814.2	40582.4	32027.9
67.5°	35437.6	49305.9	43613.7	50046.6	73206.1	77119.0	65396.4	41834.3	32313.7	30453.9	23235.9
70°	30780.0	45417.2	40191.9	45674.8	67228.0	68391.4	59394.1	36794.3	23767.3	20566.9	14910.9
72.5°	26359.8	41367.4	37849.0	41194.3	59253.2	56845.9	51580.4	32337.9	17306.2	14834.4	10599.5
75°	21839.0	35393.3	34511.7	35872.4	48766.5	44777.1	42856.9	26774.5	13582.5	10732.3	7314.6
77.5°	16851.3	27656.1	29685.0	28726.9	34326.5	33259.8	33219.5	20120.1	9923.2	7161.6	4585.2
80°	11533.4	19274.7	23191.7	20265.0	22277.8	21734.4	25019.3	13497.9	7197.8	4311.4	2552.2
82.5°	6779.2	11734.7	16142.8	9810.5	12318.4	12644.5	14898.9	6565.8	4235.0	994.3	555.5
85°	2749.5	4633.5	6312.2	3840.5	5941.8	5011.9	5656.0	1843.7	1179.5	24.2	0.0
87.5°	692.4	1481.4	1038.6	430.7	688.4	632.0	499.2	225.4	48.3	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5
2.5°	8985.2	8892.6	8663.2	8433.7	8248.5	7998.9	7833.9	7636.6	7447.4	7278.3	7246.1
5°	9935.3	9629.3	9210.6	8828.2	8437.7	8059.3	7684.9	7290.4	6928.1	6706.7	6565.8
7.5°	10708.2	10168.7	9613.2	9126.1	8655.1	8212.3	7717.1	7238.1	6670.5	6368.5	6094.8
10°	11283.8	10575.3	9846.7	9287.1	8812.1	8381.4	7962.7	7479.6	6795.3	6416.9	6006.2
12.5°	11662.2	10820.9	9967.5	9327.4	8796.0	8461.9	8276.7	8087.5	7407.2	6964.3	6368.5
15°	11923.9	10994.0	10052.0	9234.8	8582.6	8337.1	8522.3	8739.6	8304.9	7793.6	7016.7
17.5°	12209.7	11219.4	10088.2	8985.2	8168.0	8063.3	8542.4	9045.6	9025.5	8518.2	7757.4
20°	12511.7	11416.7	10064.1	8582.6	7664.8	7757.4	8369.3	8953.0	9198.6	8924.8	8248.5
22.5°	12821.6	11605.9	9971.5	8059.3	7193.8	7483.6	8095.5	8606.8	8896.6	8812.1	8296.8
25°	13212.1	11871.6	9834.6	7495.7	6803.3	7205.9	7777.5	8192.2	8393.4	8389.4	8035.2
27.5°	13679.1	12225.8	9762.2	7040.8	6525.5	6891.9	7399.1	7769.5	7910.4	7910.4	7628.6
30°	14222.6	12644.5	9681.6	6742.9	6364.5	6565.8	6960.3	7322.6	7463.5	7463.5	7226.0
32.5°	14826.4	13047.1	9488.4	6561.8	6243.8	6247.8	6497.4	6827.5	6996.5	7020.7	6851.6
35°	15551.0	13477.8	9065.7	6416.9	6102.9	5937.8	6058.6	6332.3	6533.6	6585.9	6481.3
37.5°	16501.1	14005.2	8461.9	6203.5	5885.5	5611.7	5639.9	5849.2	6070.6	6151.2	6082.7
40°	17777.2	14625.1	7833.9	5897.5	5579.5	5253.4	5241.4	5394.3	5611.7	5700.3	5664.1
42.5°	19463.9	15369.9	7234.1	5603.7	5209.2	4875.0	4854.9	4975.7	5164.9	5257.5	5241.4
45°	21621.7	16283.7	6718.8	5374.2	4846.9	4516.8	4508.7	4609.3	4774.4	4871.0	4850.9
47.5°	24620.8	17197.5	6368.5	5253.4	4561.0	4222.9	4239.0	4327.6	4476.5	4544.9	4516.8
50°	28529.6	17475.3	6191.4	5253.4	4408.1	3961.2	4041.7	4114.2	4226.9	4267.2	4230.9
52.5°	32281.5	16557.4	6030.4	5285.7	4428.2	3739.8	3912.9	3965.2	4061.9	4078.0	4025.6
55°	34121.2	14234.6	5809.0	5293.7	4553.0	3550.6	3808.2	3904.9	3941.1	3937.1	3848.5
57.5°	33489.2	11509.3	5434.6	5261.5	4637.5	3429.8	3679.4	3864.6	3888.8	3852.5	3687.5
60°	31271.1	8474.0	5148.8	5024.0	4605.3	3393.6	3482.2	3776.0	3812.3	3764.0	3494.2
62.5°	27551.4	5881.4	4927.4	4500.7	4464.4	3381.5	3172.2	3582.8	3671.4	3602.9	3208.4
65°	21690.1	4154.5	4243.0	3945.1	4158.5	3317.1	2850.1	3349.3	3470.1	3365.4	2809.9
67.5°	14677.4	2999.1	3437.9	3574.8	3663.3	3172.2	2616.7	3083.6	3244.7	3107.8	2346.9
70°	7926.5	2105.4	2270.5	3011.2	3111.8	2922.6	2407.3	2813.9	2999.1	2850.1	1912.2
72.5°	4681.8	1513.6	1590.1	2419.4	2592.5	2572.4	2173.8	2499.9	2725.4	2548.2	1553.9
75°	2580.4	1022.5	1135.2	1755.2	2105.4	1984.6	1867.9	2117.5	2346.9	2173.8	1199.6
77.5°	1155.4	611.9	789.0	1151.3	1654.5	1360.7	1445.2	1650.5	1863.9	1682.7	801.1
80°	446.8	342.2	523.3	628.0	1203.7	752.8	929.9	1215.7	1368.7	1223.8	487.1
82.5°	56.4	153.0	225.4	245.6	700.5	398.5	539.4	764.9	752.8	652.2	245.6
85°	0.0	28.2	32.2	16.1	301.9	144.9	177.1	249.6	233.5	177.1	20.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	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°	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5
2.5°	7048.9	6904.0	6831.5	6771.1	6827.5	6859.7	6859.7	6996.5	7077.1	7109.3	7334.7
5°	6211.5	5941.8	5760.7	5652.0	5688.2	5728.5	5772.8	5945.9	6062.6	6139.1	6489.3
7.5°	5551.3	5140.7	4887.1	4754.3	4774.4	4802.6	4838.8	5007.9	5124.6	5225.3	5615.8
10°	5225.3	4645.6	4311.4	4150.4	4122.2	4106.1	4094.1	4194.7	4283.3	4363.8	4750.2
12.5°	5241.4	4432.2	4025.6	3828.4	3743.8	3647.2	3570.7	3586.8	3643.2	3743.8	3989.4
15°	5446.7	4363.8	3876.7	3631.1	3490.2	3377.5	3284.9	3264.8	3284.9	3301.0	3454.0
17.5°	5724.4	4355.7	3747.9	3441.9	3297.0	3204.4	3119.9	3091.7	3095.7	3115.8	3156.1
20°	5945.9	4331.6	3602.9	3260.8	3131.9	3051.4	2966.9	2938.7	2946.8	2950.8	2995.1
22.5°	6062.6	4295.3	3441.9	3079.6	2970.9	2890.4	2813.9	2809.9	2809.9	2834.0	2866.2
25°	6062.6	4218.9	3297.0	2906.5	2809.9	2737.4	2644.8	2660.9	2669.0	2701.2	2749.5
27.5°	5917.7	4073.9	3180.2	2757.6	2656.9	2584.5	2499.9	2520.0	2532.1	2568.4	2628.7
30°	5732.5	3900.8	3047.4	2616.7	2499.9	2447.6	2375.1	2383.2	2399.3	2439.5	2508.0
32.5°	5535.2	3695.5	2938.7	2475.8	2359.0	2318.8	2238.3	2250.3	2266.4	2310.7	2387.2
35°	5317.9	3454.0	2809.9	2346.9	2230.2	2198.0	2105.4	2113.5	2137.6	2185.9	2262.4
37.5°	5088.4	3256.7	2681.1	2222.1	2101.4	2069.2	1972.6	1980.6	2008.8	2065.1	2137.6
40°	4863.0	3063.5	2544.2	2089.3	1968.5	1940.4	1835.7	1843.7	1875.9	1936.3	2012.8
42.5°	4617.4	2914.6	2367.1	1952.4	1823.6	1795.4	1698.8	1710.9	1747.1	1807.5	1884.0
45°	4323.5	2817.9	2169.8	1823.6	1678.7	1650.5	1561.9	1586.1	1626.4	1686.7	1767.3
47.5°	4021.6	2777.7	2004.8	1686.7	1529.7	1505.6	1433.1	1473.4	1517.7	1566.0	1654.5
50°	3731.8	2725.4	1835.7	1557.9	1400.9	1376.8	1328.5	1380.8	1425.1	1469.4	1553.9
52.5°	3401.7	2612.6	1682.7	1445.2	1292.2	1284.2	1260.0	1308.3	1348.6	1388.8	1461.3
55°	3059.5	2431.5	1549.9	1344.6	1199.6	1207.7	1195.6	1235.9	1268.1	1304.3	1368.7
57.5°	2761.6	2202.0	1445.2	1235.9	1119.1	1143.3	1127.2	1147.3	1167.4	1211.7	1264.0
60°	2459.7	1928.3	1328.5	1107.0	1038.6	1066.8	1022.5	1018.5	1026.5	1038.6	1135.2
62.5°	2053.1	1642.5	1183.5	994.3	950.0	962.1	877.6	813.2	813.2	825.3	970.2
65°	1650.5	1376.8	1022.5	865.5	829.3	821.2	700.5	611.9	603.8	640.1	764.9
67.5°	1356.6	1143.3	861.5	720.6	696.4	704.5	615.9	527.4	519.3	559.6	652.2
70°	1123.2	921.9	688.4	555.5	579.7	615.9	527.4	442.8	430.7	467.0	555.5
72.5°	893.7	720.6	527.4	410.6	479.0	523.3	430.7	350.2	342.2	374.4	458.9
75°	656.2	515.3	358.3	297.9	370.4	410.6	314.0	249.6	237.5	265.7	350.2
77.5°	406.6	289.8	225.4	177.1	253.6	273.7	165.1	144.9	140.9	161.0	221.4
80°	189.2	124.8	108.7	60.4	92.6	108.7	68.4	76.5	80.5	96.6	136.9
82.5°	52.3	20.1	4.0	0.0	0.0	32.2	16.1	32.2	40.3	60.4	88.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	20.1	36.2	64.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.1	32.2
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°	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5	8091.5
2.5°	7503.8	7664.8	7922.4	8188.1	8449.8	8715.5	8973.1	9065.7
5°	6807.3	7177.7	7689.0	8236.4	8800.0	9371.7	9895.0	10132.5
7.5°	6030.4	6561.8	7330.7	8188.1	9085.8	9983.6	10808.8	11191.3
10°	5201.1	5873.4	6751.0	7910.4	9198.6	10438.5	11573.7	12068.8
12.5°	4412.1	5116.6	6086.8	7475.6	9110.0	10700.1	12064.8	12648.5
15°	3751.9	4375.9	5422.5	6960.3	8824.2	10716.2	12298.3	12938.4
17.5°	3256.7	3663.3	4746.2	6388.7	8449.8	10567.3	12378.8	13063.2
20°	3011.2	3123.9	3868.6	5656.0	8099.6	10426.4	12459.3	13179.9
22.5°	2866.2	2894.4	3164.1	4710.0	7680.9	10382.1	12600.2	13340.9
25°	2749.5	2757.6	2830.0	3731.8	7040.8	10353.9	12817.6	13562.3
27.5°	2632.8	2632.8	2673.0	3007.1	6171.3	10233.2	13099.4	13828.0
30°	2516.0	2516.0	2544.2	2660.9	5152.8	9995.6	13437.6	14174.2
32.5°	2395.2	2395.2	2419.4	2503.9	4114.2	9697.7	13747.5	14524.5
35°	2274.5	2266.4	2298.6	2387.2	3272.8	9319.3	14057.5	14902.9
37.5°	2145.7	2141.6	2173.8	2274.5	2826.0	8880.5	14291.0	15418.2
40°	2008.8	2008.8	2045.0	2153.7	2697.2	8329.0	14661.3	16158.9
42.5°	1884.0	1875.9	1916.2	2049.0	2600.6	7801.7	15325.6	17237.7
45°	1763.2	1747.1	1783.4	1948.4	2431.5	7616.5	16565.5	18831.9
47.5°	1650.5	1610.3	1642.5	1827.6	2278.5	8308.9	18594.4	21042.0
50°	1557.9	1481.4	1509.6	1706.9	2161.8	9810.5	21227.1	23976.7
52.5°	1461.3	1360.7	1376.8	1557.9	2057.1	11239.6	24081.3	27849.3
55°	1360.7	1247.9	1256.0	1409.0	1908.1	11452.9	26867.1	33130.9
57.5°	1247.9	1143.3	1143.3	1272.1	1799.5	9927.2	29008.7	39684.7
60°	1123.2	1054.7	1034.6	1163.4	1896.1	7004.6	29258.3	43911.6
62.5°	986.3	950.0	921.9	1058.7	1968.5	4150.4	27249.5	42889.1
65°	829.3	821.2	801.1	1163.4	1658.6	2451.6	23392.9	39753.1
67.5°	696.4	684.4	684.4	1219.8	1260.0	1541.8	18276.4	35437.6
70°	599.8	555.5	555.5	921.9	764.9	1066.8	12761.2	30780.0
72.5°	503.2	454.9	422.7	736.7	571.6	781.0	7974.8	26359.8
75°	402.6	366.3	326.1	487.1	426.7	591.8	4633.5	21839.0
77.5°	289.8	273.7	229.5	358.3	310.0	426.7	2757.6	16851.3
80°	148.9	153.0	144.9	205.3	209.3	289.8	1570.0	11533.4
82.5°	88.6	68.4	76.5	100.6	120.8	165.1	591.8	6779.2
85°	56.4	36.2	36.2	48.3	60.4	64.4	181.2	2749.5
87.5°	28.2	12.1	16.1	24.2	20.1	16.1	8.1	692.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)