

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: P941264

Luminaire Tested: **GALN-SB4D-722-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941264
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4D-722-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24602 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 293.6
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

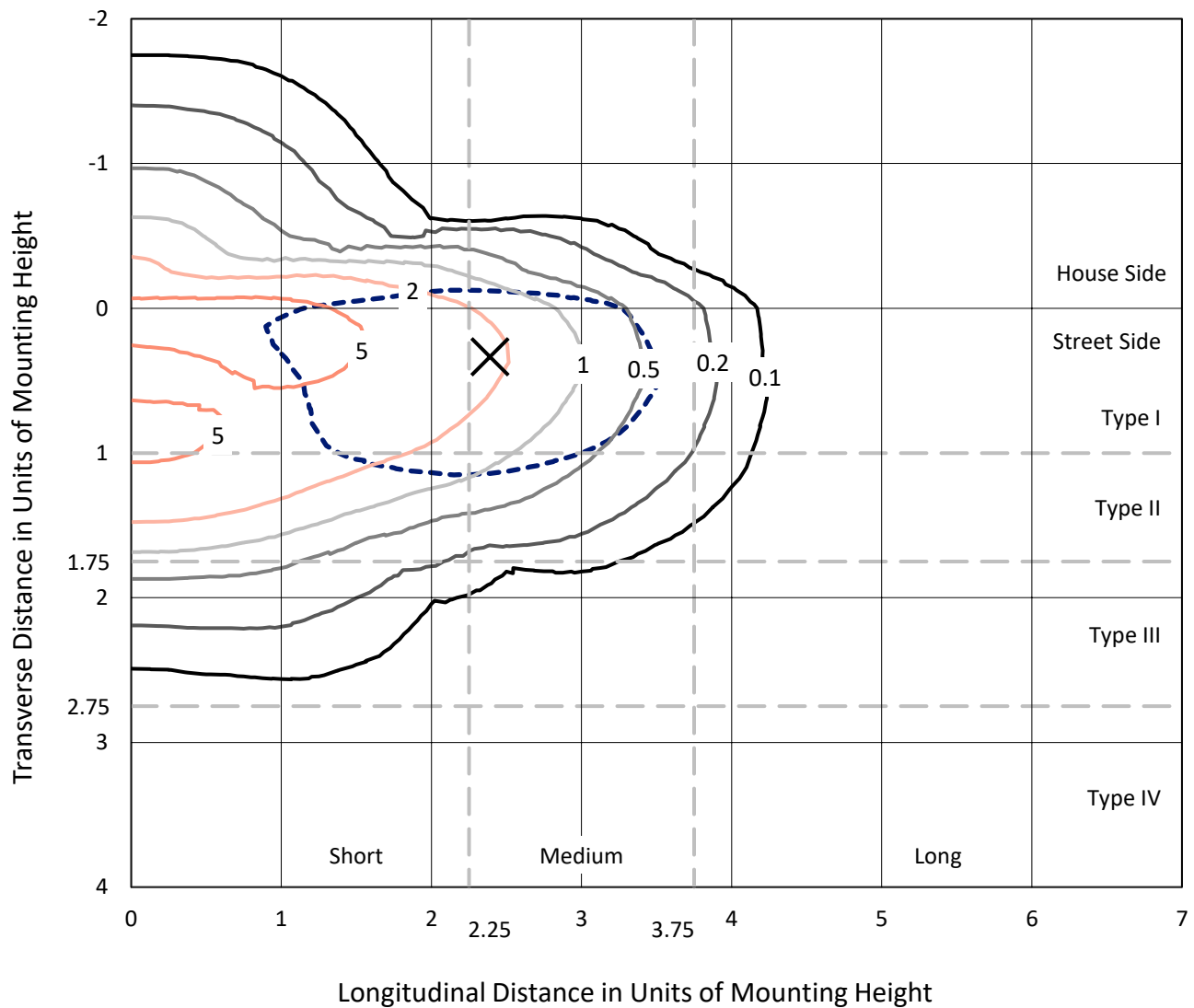


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

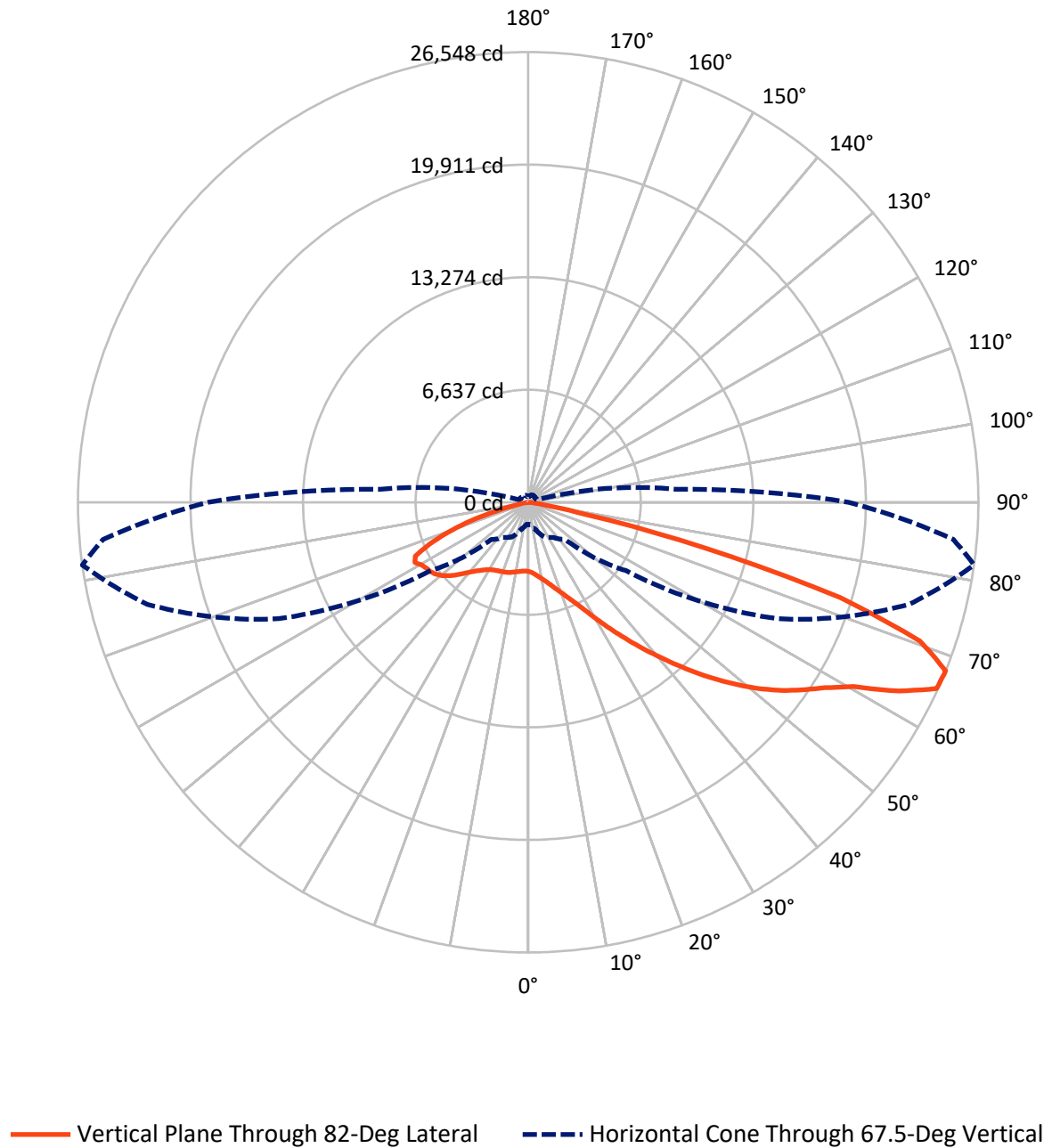


Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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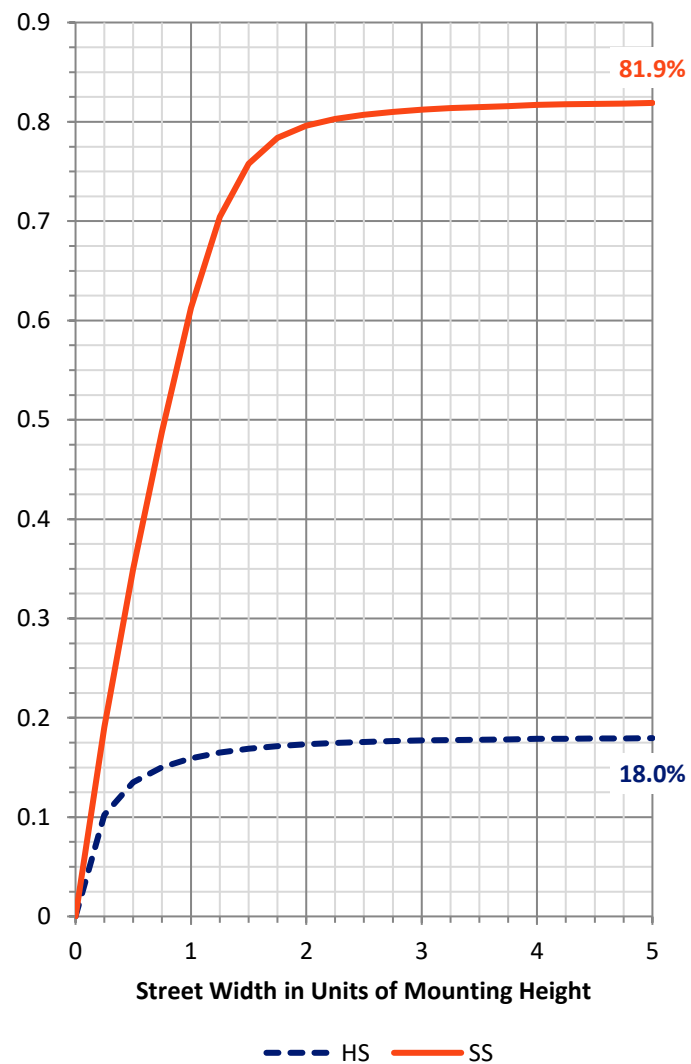
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4456.4	0.0	4456.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	20145.6	0.0	20145.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	24602.0	0.0	24602.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.1	1.5
10°-20°	943.6	3.8
20°-30°	1511.3	6.1
30°-40°	2672.5	10.9
40°-50°	4682.5	19.0
50°-60°	6245.1	25.4
60°-70°	5813.9	23.6
70°-80°	2231.4	9.1
80°-90°	138.6	0.6
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°	24602.0	100.0
0°-180°	24602.0	100.0

Coefficient of Utilization



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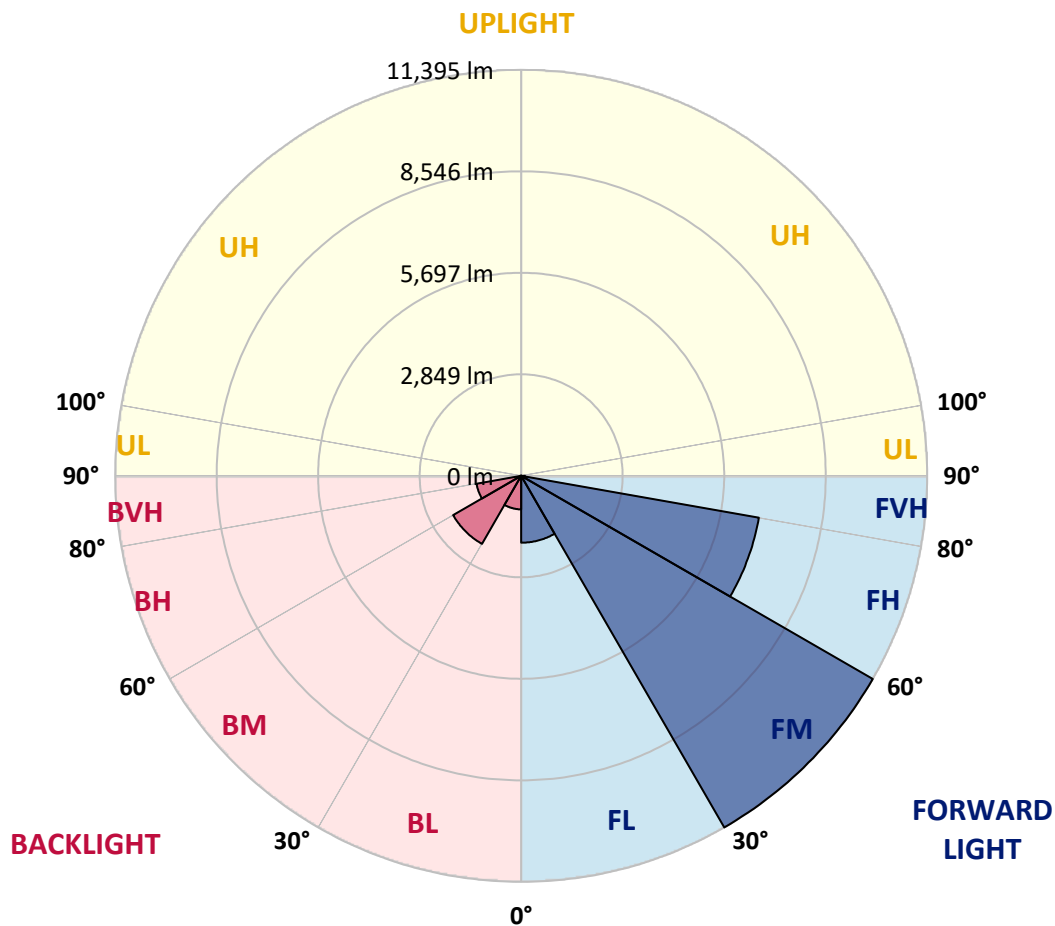
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1876.9	7.6			
FM	(30°-60°)	11394.6	46.3			
FH	(60°-80°)	6773.3	27.5			G3/7500
FVH	(80°-90°)	100.8	0.4			G2/225
BL	(0°-30°)	941.2	3.8	B2/1000		
BM	(30°-60°)	2205.5	9.0	B2/2500		
BH	(60°-80°)	1272.0	5.2	B3/2500		G3/2500
BVH	(80°-90°)	37.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4075.7	4075.7	4075.7	4075.7	4075.7	4075.7	4075.7	4075.7	4075.7	4075.7	4075.7
2.5°	4307.8	4332.6	4318.4	4311.3	4298.9	4281.2	4267.0	4222.7	4176.7	4146.6	4135.9
5°	4394.5	4419.3	4417.6	4424.7	4433.5	4438.8	4435.3	4385.7	4320.2	4268.8	4238.7
7.5°	4320.2	4348.5	4371.5	4406.9	4468.9	4534.5	4566.4	4555.7	4488.4	4417.6	4380.4
10°	4109.4	4139.5	4194.4	4277.6	4408.7	4550.4	4669.1	4724.0	4681.5	4603.6	4552.2
12.5°	3723.2	3753.3	3861.4	4042.1	4261.7	4507.9	4734.6	4881.7	4892.3	4814.3	4754.1
15°	3289.3	3319.4	3434.5	3661.2	3996.0	4391.0	4770.1	5048.2	5142.0	5074.7	5002.1
17.5°	3020.0	3046.6	3133.4	3315.8	3664.8	4157.2	4757.7	5225.3	5439.6	5386.5	5299.7
20°	2938.6	2961.6	3002.3	3129.9	3420.3	3914.5	4676.2	5391.8	5760.2	5730.1	5632.7
22.5°	3025.3	3046.6	3059.0	3115.7	3298.1	3755.1	4573.4	5561.8	6132.2	6135.7	6017.0
25°	3225.5	3246.8	3232.6	3268.0	3347.7	3705.5	4534.5	5762.0	6599.8	6638.8	6504.1
27.5°	3555.0	3556.7	3523.1	3521.3	3533.7	3779.9	4575.2	5976.3	7189.6	7262.3	7095.8
30°	4215.7	4189.1	4059.8	3919.8	3856.1	4003.1	4688.6	6229.6	7885.7	8015.0	7806.0
32.5°	5234.1	5195.2	4957.8	4623.0	4286.5	4362.7	4892.3	6518.3	8643.9	8877.7	8622.6
35°	6339.4	6328.8	6080.8	5583.1	4995.0	4874.6	5223.5	6897.4	9471.0	9843.0	9540.1
37.5°	7366.8	7361.4	7219.7	6633.4	5917.9	5588.4	5754.9	7393.3	10356.7	10895.2	10537.4
40°	8305.5	8321.5	8179.8	7655.5	6934.6	6504.1	6477.6	8006.2	11341.5	12041.2	11616.1
42.5°	9116.8	9134.5	8991.0	8603.1	7938.9	7517.3	7365.0	8757.2	12303.3	13272.2	12769.2
45°	9667.7	9777.5	9756.2	9446.2	8969.8	8532.3	8431.3	9699.5	13399.7	14577.6	13987.8
47.5°	9823.5	9924.5	10083.9	10126.4	9835.9	9405.5	9526.0	10834.9	14508.6	15884.9	15213.5
50°	9439.2	9533.0	9864.3	10305.3	10507.2	10374.4	10590.5	12051.8	15644.0	17188.5	16416.2
52.5°	8681.1	8776.7	9194.7	9892.6	10716.3	11134.3	11658.6	13251.0	16743.9	18423.1	17555.2
55°	7584.6	7685.6	8222.3	9012.3	10317.7	11447.8	12549.5	14448.3	17751.8	19533.7	18582.5
57.5°	6093.2	6167.6	6725.6	7830.8	9315.2	11136.0	13206.7	15755.5	18701.2	20624.8	19601.0
60°	3971.2	4036.8	4685.0	5917.9	7653.7	10094.5	13337.8	17213.3	19962.3	22043.6	20973.7
62.5°	2641.0	2685.3	3069.6	3974.8	5390.0	8094.8	12570.8	18377.0	21811.6	24512.8	23327.8
65°	1812.0	1856.3	2240.7	2871.2	3482.3	5354.6	10365.5	18222.9	23487.2	26473.6	25072.5
67.5°	1293.0	1330.2	1656.1	2251.3	2520.5	3110.4	7026.7	16253.3	23246.3	26548.0	25166.4
70°	926.4	947.6	1216.9	1753.6	2003.3	1868.7	3907.4	12430.9	20353.8	24514.5	23249.8
72.5°	648.3	655.4	844.9	1335.5	1613.6	1363.9	1859.8	8287.8	15394.2	19241.4	18024.6
75°	439.3	448.1	568.6	979.5	1294.8	1041.5	984.8	4444.1	9037.1	10650.7	9547.2
77.5°	269.2	272.8	366.7	669.5	968.9	793.5	634.1	1882.9	3496.5	3432.7	2926.2
80°	152.3	152.3	233.8	416.3	660.7	511.9	444.6	800.6	1107.1	972.4	857.3
82.5°	85.0	86.8	170.0	258.6	437.5	302.9	244.4	370.2	478.2	423.3	368.4
85°	35.4	39.0	104.5	122.2	209.0	150.6	99.2	155.9	177.1	157.6	115.1
87.5°	3.5	5.3	31.9	23.0	24.8	30.1	14.2	30.1	24.8	24.8	17.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4075.7	4075.7	4075.7	4075.7	4075.7	4075.7	4075.7	4075.7	4075.7	4075.7	4075.7
2.5°	4102.3	4075.7	4008.4	3930.5	3827.7	3778.1	3710.8	3664.8	3625.8	3629.4	3593.9
5°	4182.0	4114.7	3964.1	3776.4	3542.6	3376.1	3198.9	3076.7	2977.5	2956.3	2908.4
7.5°	4291.8	4185.5	3921.6	3583.3	3188.3	2889.0	2621.5	2449.7	2327.5	2288.5	2249.5
10°	4433.5	4279.4	3866.7	3340.6	2772.1	2391.2	2104.3	1969.7	1886.4	1858.1	1836.8
12.5°	4598.2	4387.5	3794.1	3044.8	2343.4	1976.8	1794.3	1727.0	1700.4	1691.6	1686.3
15°	4805.5	4522.1	3684.3	2694.1	1980.3	1723.5	1645.5	1636.7	1640.2	1636.7	1634.9
17.5°	5051.7	4669.1	3505.4	2332.8	1735.9	1594.2	1565.8	1572.9	1581.8	1580.0	1576.4
20°	5320.9	4814.3	3276.9	2012.2	1569.4	1502.0	1486.1	1493.2	1500.3	1496.7	1495.0
22.5°	5627.4	4970.2	3023.6	1762.4	1457.8	1417.0	1399.3	1401.1	1401.1	1394.0	1390.5
25°	5994.0	5142.0	2757.9	1585.3	1372.7	1340.9	1319.6	1312.5	1301.9	1280.6	1277.1
27.5°	6431.5	5324.5	2502.8	1461.3	1305.4	1275.3	1250.5	1232.8	1206.2	1170.8	1167.3
30°	6923.9	5545.9	2286.7	1383.4	1252.3	1222.2	1193.8	1167.3	1128.3	1084.0	1080.5
32.5°	7503.1	5783.2	2129.1	1332.0	1204.5	1172.6	1138.9	1107.1	1064.5	1020.3	1022.0
35°	8193.9	6070.2	2037.0	1296.6	1167.3	1124.8	1087.6	1052.1	1020.3	981.3	977.7
37.5°	8943.2	6374.8	2008.6	1278.9	1142.5	1076.9	1034.4	1009.6	1006.1	983.1	981.3
40°	9763.3	6736.2	2029.9	1268.2	1115.9	1030.9	984.8	979.5	988.4	947.6	949.4
42.5°	10631.2	7164.8	2065.3	1255.8	1078.7	984.8	940.6	940.6	933.5	876.8	876.8
45°	11570.0	7659.0	2100.7	1225.7	1034.4	938.8	905.1	892.7	862.6	807.7	805.9
47.5°	12515.9	8162.1	2127.3	1170.8	981.3	899.8	869.7	841.4	797.1	747.5	745.7
50°	13413.9	8613.7	2099.0	1089.3	921.1	862.6	830.7	791.8	743.9	710.3	705.0
52.5°	14216.3	9005.2	1978.5	993.7	857.3	823.6	795.3	754.6	715.6	680.2	676.6
55°	14914.2	9322.3	1766.0	903.4	800.6	790.0	761.7	710.3	657.1	627.0	623.5
57.5°	15583.7	9563.1	1500.3	829.0	749.3	752.8	710.3	664.2	614.6	582.8	579.2
60°	16474.7	9885.5	1231.0	759.9	694.3	705.0	658.9	625.3	563.3	522.5	517.2
62.5°	17898.8	10386.8	977.7	674.9	630.6	634.1	614.6	573.9	499.5	451.7	448.1
65°	19028.9	10202.6	770.5	582.8	558.0	563.3	563.3	519.0	439.3	384.4	379.1
67.5°	18901.3	8736.0	614.6	492.4	488.9	492.4	504.8	467.6	389.7	345.4	338.3
70°	17411.7	6948.7	492.4	409.2	425.1	416.3	451.7	426.9	350.7	306.4	301.1
72.5°	14207.4	5005.6	375.5	338.3	325.9	340.1	407.4	384.4	292.3	242.7	237.4
75°	8302.0	2671.1	279.9	267.5	235.6	283.4	361.3	327.7	223.2	178.9	173.6
77.5°	2703.0	931.7	205.5	196.6	175.4	228.5	308.2	276.3	182.4	141.7	136.4
80°	724.5	281.6	139.9	129.3	113.4	170.0	244.4	219.6	131.1	92.1	90.3
82.5°	290.5	118.7	81.5	72.6	62.0	116.9	193.1	177.1	97.4	58.5	58.5
85°	93.9	39.0	30.1	23.0	28.3	72.6	115.1	120.4	69.1	30.1	23.0
87.5°	12.4	5.3	5.3	7.1	5.3	12.4	35.4	33.7	19.5	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

(END OF REPORT)