

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: P954863

Luminaire Tested: **GALN-SB8A-727-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954863
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
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-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34095 lumens
Efficiency: N/A
Efficacy: 150.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - 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

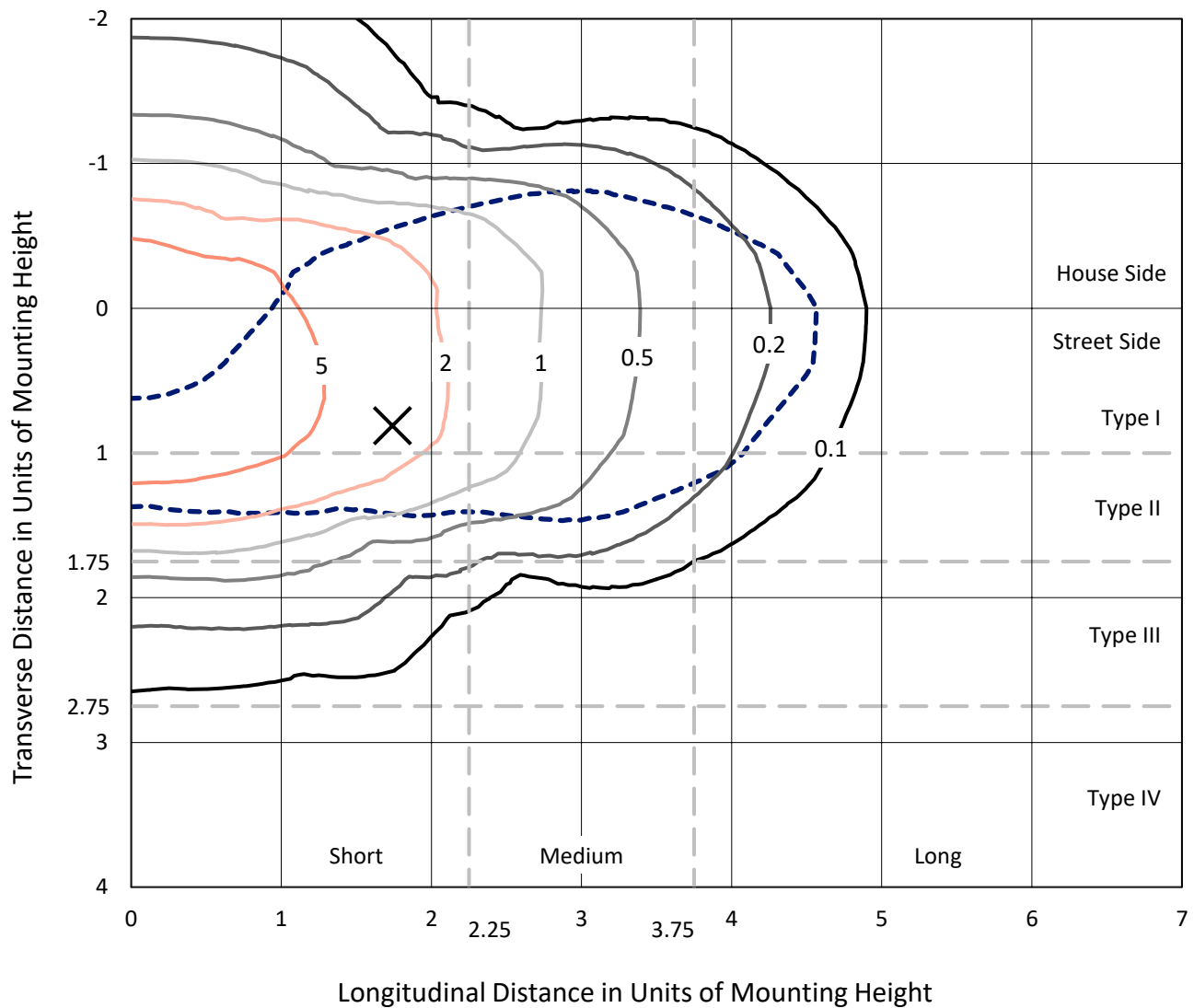


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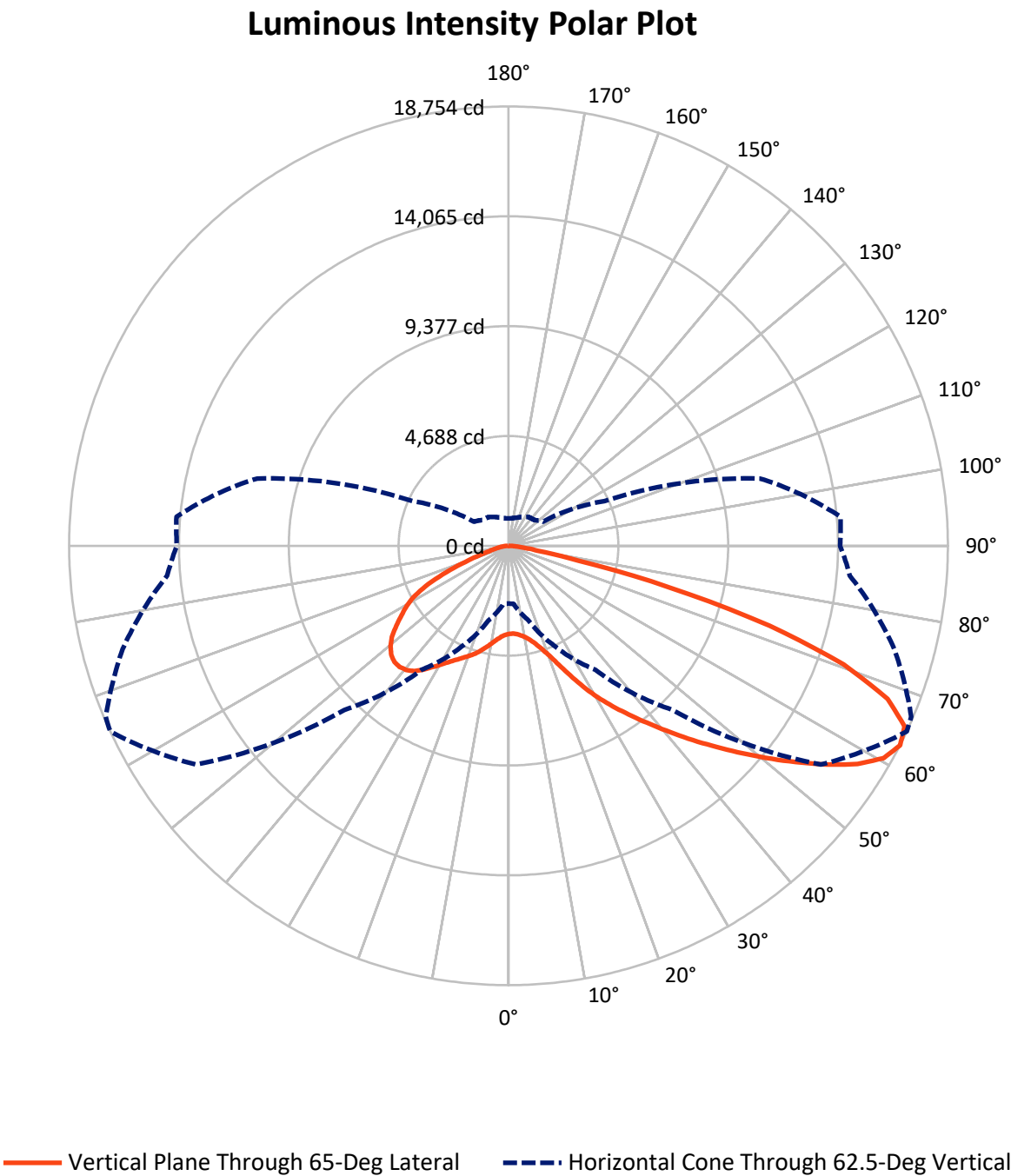
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - N/A

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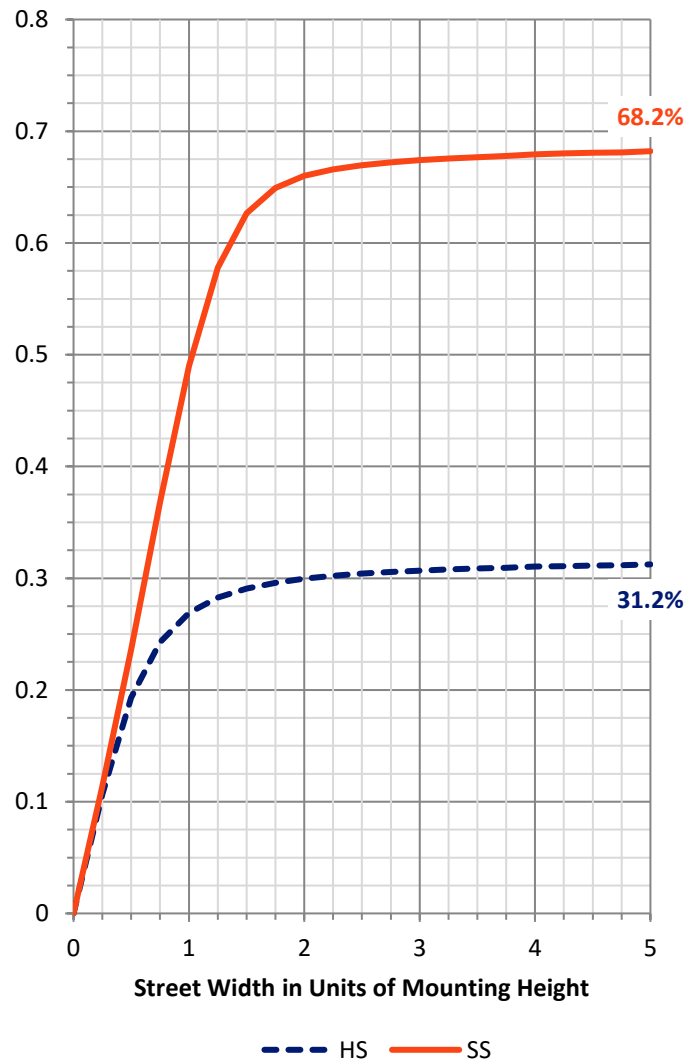
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10758.9	0.0	10758.9
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	23336.1	0.0	23336.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	34095.0	0.0	34095.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.6	1.1
10°-20°	1270.2	3.7
20°-30°	2575.5	7.6
30°-40°	4456.9	13.1
40°-50°	6744.7	19.8
50°-60°	7907.7	23.2
60°-70°	6629.7	19.4
70°-80°	3660.1	10.7
80°-90°	475.4	1.4
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°	34095.0	100.0
0°-180°	34095.0	100.0

Coefficient of Utilization



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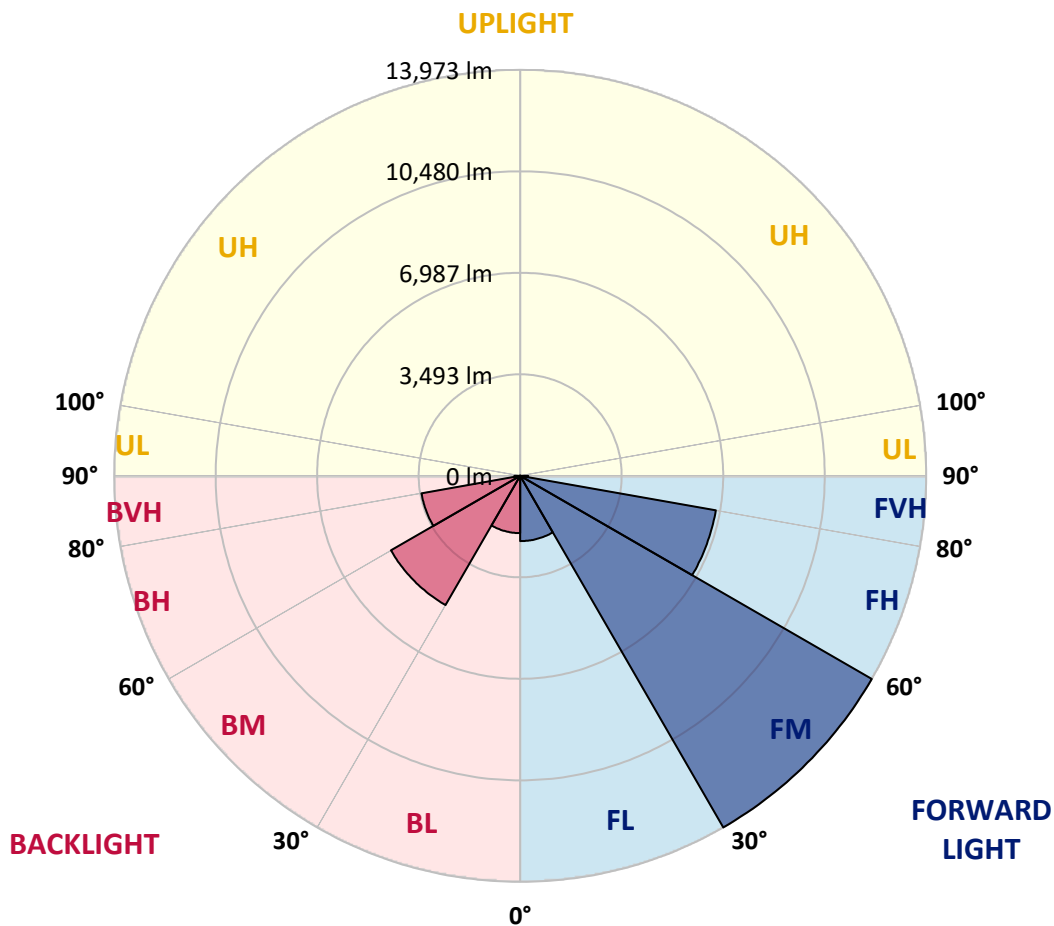
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2247.3	6.6			
FM	(30°-60°)	13973.2	41.0			
FH	(60°-80°)	6838.5	20.1			G3/7500
FVH	(80°-90°)	277.1	0.8			G3/500
BL	(0°-30°)	1973.1	5.8	B3/2500		
BM	(30°-60°)	5136.1	15.1	B4/8500		
BH	(60°-80°)	3451.4	10.1	B4/5000		G4/5000
BVH	(80°-90°)	198.3	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3757.1	3757.1	3757.1	3757.1	3757.1	3757.1	3757.1	3757.1	3757.1	3757.1	3757.1
2.5°	3732.4	3721.7	3730.6	3730.6	3734.1	3732.4	3744.7	3748.3	3753.6	3764.2	3764.2
5°	3695.2	3693.4	3709.4	3723.5	3737.7	3750.0	3766.0	3789.0	3792.5	3804.9	3820.8
7.5°	3682.8	3672.2	3697.0	3714.7	3748.3	3778.3	3820.8	3859.7	3875.6	3880.9	3911.0
10°	3778.3	3760.7	3783.7	3794.3	3822.6	3852.6	3902.2	3964.1	3981.8	4003.0	4036.6
12.5°	3941.1	3921.6	3955.2	3971.2	3997.7	4024.2	4057.8	4118.0	4126.8	4165.7	4197.6
15°	4164.0	4141.0	4162.2	4181.7	4225.9	4250.6	4284.3	4342.6	4342.6	4372.7	4395.7
17.5°	4466.4	4436.4	4452.3	4459.4	4487.7	4524.8	4581.4	4632.7	4659.3	4648.6	4616.8
20°	4917.5	4880.4	4880.4	4845.0	4834.4	4864.4	4938.7	5009.5	5037.8	4983.0	4905.1
22.5°	5595.0	5541.9	5511.9	5391.6	5343.8	5347.4	5421.6	5508.3	5531.3	5434.0	5258.9
25°	6456.4	6373.3	6332.6	6155.7	6047.8	5954.1	6012.5	6123.9	6155.7	6035.5	5752.4
27.5°	7317.9	7323.2	7284.3	7072.0	6893.4	6721.8	6691.7	6808.5	6842.1	6705.9	6355.6
30°	8526.0	8400.5	8326.2	8071.4	7816.7	7576.2	7452.3	7500.1	7508.9	7346.2	6939.4
32.5°	9567.9	9536.1	9376.9	9154.0	8826.8	8450.0	8243.0	8167.0	8152.8	7921.1	7438.2
35°	10754.8	10737.2	10569.1	10303.8	9950.0	9426.4	9053.2	8835.6	8817.9	8492.4	7931.7
37.5°	11961.2	11961.2	11796.7	11506.6	11140.5	10486.0	9918.2	9573.2	9516.6	9092.1	8434.1
40°	12923.5	12865.1	12895.2	12773.2	12353.9	11658.8	10878.7	10378.1	10302.0	9792.6	8968.3
42.5°	13470.1	13450.6	13631.1	13767.3	13595.7	13040.3	11936.5	11250.1	11144.0	10563.8	9583.8
45°	13592.1	13570.9	13892.9	14391.7	14632.3	14404.1	13086.2	12168.2	12039.1	11370.4	10243.6
47.5°	13310.9	13268.4	13740.7	14527.9	15299.1	15700.7	14331.5	13164.1	12976.6	12155.8	10921.1
50°	12465.4	12424.7	13139.3	14184.7	15523.8	16581.6	15683.0	14220.1	13933.5	12997.8	11605.7
52.5°	10627.5	10646.9	11766.7	13203.0	15228.4	17129.9	16846.9	15332.7	14987.8	13859.2	12247.8
55°	8278.4	8320.9	9697.1	11278.4	14046.8	17046.8	17641.1	16479.0	16135.8	14669.4	12911.1
57.5°	5927.5	6115.1	7404.6	8970.0	11777.3	15729.0	17814.5	17568.6	17236.1	15553.8	13560.3
60°	3842.0	3875.6	5202.3	6780.2	8968.3	13387.0	17462.5	18394.7	18134.7	16456.0	14103.4
62.5°	2462.3	2485.3	3293.7	4742.4	6454.7	9904.0	16277.3	18753.8	18674.2	17052.1	14625.2
65°	1809.6	1791.9	2212.9	3134.5	4347.9	6108.0	13976.0	18580.4	18737.8	17425.3	15056.8
67.5°	1510.6	1485.9	1692.8	2170.4	3203.5	3468.8	10340.9	17453.6	18030.3	17382.9	15373.4
70°	1376.2	1355.0	1480.6	1611.5	2499.4	2322.6	5212.9	15173.5	16061.5	16900.0	15322.1
72.5°	1165.7	1128.6	1300.1	1431.0	1944.0	1781.3	2154.5	11655.2	12737.8	15352.2	14600.4
75°	903.9	879.1	1026.0	1259.4	1461.1	1390.3	1362.0	7077.3	8258.9	11872.8	12773.2
77.5°	716.4	682.8	817.2	981.7	1314.3	1049.0	992.3	3047.8	4218.8	7579.7	9557.3
80°	539.5	509.4	620.9	776.5	1010.0	790.7	642.1	1243.5	1590.2	3840.3	4806.1
82.5°	383.8	357.3	433.4	569.6	679.3	709.3	394.5	696.9	783.6	1480.6	1073.7
85°	245.9	230.0	290.1	357.3	431.6	456.4	240.6	364.4	399.8	610.3	447.5
87.5°	134.4	109.7	155.7	166.3	199.9	182.2	115.0	132.7	143.3	221.1	189.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3757.1	3757.1	3757.1	3757.1	3757.1	3757.1	3757.1	3757.1	3757.1	3757.1	3757.1
2.5°	3771.3	3776.6	3794.3	3799.6	3812.0	3827.9	3838.5	3849.1	3849.1	3859.7	3859.7
5°	3822.6	3835.0	3872.1	3891.6	3923.4	3955.2	3974.7	3997.7	4011.8	4018.9	4022.5
7.5°	3921.6	3941.1	3994.2	4027.8	4082.6	4126.8	4156.9	4188.7	4195.8	4215.3	4208.2
10°	4056.1	4079.1	4139.2	4202.9	4268.3	4323.2	4351.5	4374.5	4383.3	4386.8	4378.0
12.5°	4210.0	4243.6	4321.4	4399.2	4468.2	4516.0	4523.1	4517.7	4493.0	4471.8	4471.8
15°	4399.2	4429.3	4516.0	4600.9	4668.1	4676.9	4632.7	4604.4	4574.3	4569.0	4569.0
17.5°	4625.6	4641.6	4721.2	4804.3	4809.6	4779.5	4714.1	4687.6	4659.3	4639.8	4641.6
20°	4889.2	4883.9	4940.5	4975.9	4938.7	4846.8	4747.7	4703.5	4675.2	4652.2	4653.9
22.5°	5204.1	5163.4	5156.3	5147.5	5048.4	4855.6	4721.2	4664.6	4620.3	4588.5	4599.1
25°	5662.2	5506.6	5398.7	5338.5	5115.6	4807.8	4636.3	4510.7	4427.5	4372.7	4393.9
27.5°	6235.3	5973.5	5701.1	5554.3	5115.6	4710.6	4431.1	4227.6	4091.4	4034.8	4063.1
30°	6781.9	6507.7	6106.2	5814.3	5103.2	4551.4	4100.3	3817.3	3658.1	3601.5	3635.1
32.5°	7248.9	6950.0	6536.0	6099.1	5073.2	4293.1	3689.9	3376.8	3222.9	3155.7	3189.3
35°	7682.3	7363.9	6967.7	6412.2	4993.6	3914.6	3238.8	3000.0	2828.5	2720.6	2755.9
37.5°	8126.3	7747.7	7376.3	6695.2	4850.3	3472.3	2892.1	2688.7	2487.1	2342.0	2380.9
40°	8609.2	8156.3	7813.2	6863.3	4615.0	3051.3	2623.3	2437.5	2223.5	2069.6	2099.7
42.5°	9173.5	8646.3	8299.6	6950.0	4293.1	2752.4	2448.1	2265.9	2064.3	1938.7	1963.5
45°	9762.5	9185.8	8743.6	6948.2	3934.0	2612.6	2391.5	2211.1	1988.2	1857.3	1878.6
47.5°	10379.8	9750.1	9127.5	6835.0	3622.7	2632.1	2359.7	2092.6	1846.7	1719.4	1737.0
50°	10999.0	10367.5	9498.9	6622.7	3490.0	2589.7	2241.2	1926.3	1636.2	1521.2	1528.3
52.5°	11612.8	11023.7	9819.1	6320.2	3355.6	2432.2	2089.1	1710.5	1549.5	1469.9	1469.9
55°	12230.1	11672.9	10167.6	5879.8	3019.5	2248.3	1834.3	1629.1	1480.6	1408.0	1401.0
57.5°	12849.2	12422.9	10498.4	5439.3	2596.7	2021.8	1694.6	1530.1	1411.6	1349.7	1339.0
60°	13493.1	13280.8	10839.8	5034.3	2179.3	1731.7	1592.0	1450.5	1330.2	1261.2	1255.9
62.5°	14156.4	14225.4	11106.9	4512.4	1795.4	1554.9	1500.0	1355.0	1238.2	1172.8	1171.0
65°	14825.1	15136.4	11282.0	3789.0	1455.8	1386.8	1401.0	1250.6	1132.1	1075.5	1073.7
67.5°	15329.2	15792.6	11232.4	2867.4	1194.0	1227.6	1277.1	1140.9	1029.5	985.3	987.0
70°	15385.8	15714.8	10744.2	1963.5	999.4	1071.9	1139.2	1033.0	918.1	886.2	888.0
72.5°	14632.3	14653.5	9384.0	1282.4	845.5	941.0	994.1	923.4	811.9	780.1	778.3
75°	12656.4	12118.7	6889.8	845.5	707.6	808.4	857.9	808.4	700.5	707.6	682.8
77.5°	9589.1	8582.7	4183.4	601.4	590.8	679.3	746.5	711.1	619.1	695.2	612.0
80°	4940.5	4643.3	1866.2	449.3	467.0	543.0	613.8	567.8	490.0	467.0	426.3
82.5°	1132.1	1316.1	735.9	321.9	337.9	390.9	468.8	426.3	352.0	297.2	293.6
85°	396.2	433.4	325.5	201.7	198.1	244.1	318.4	284.8	238.8	191.0	201.7
87.5°	125.6	164.5	122.1	81.4	84.9	109.7	146.8	134.4	111.4	72.5	76.1
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)