

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: P534396

Luminaire Tested: **GALN-SA9D-827-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534396
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-827-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43615 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

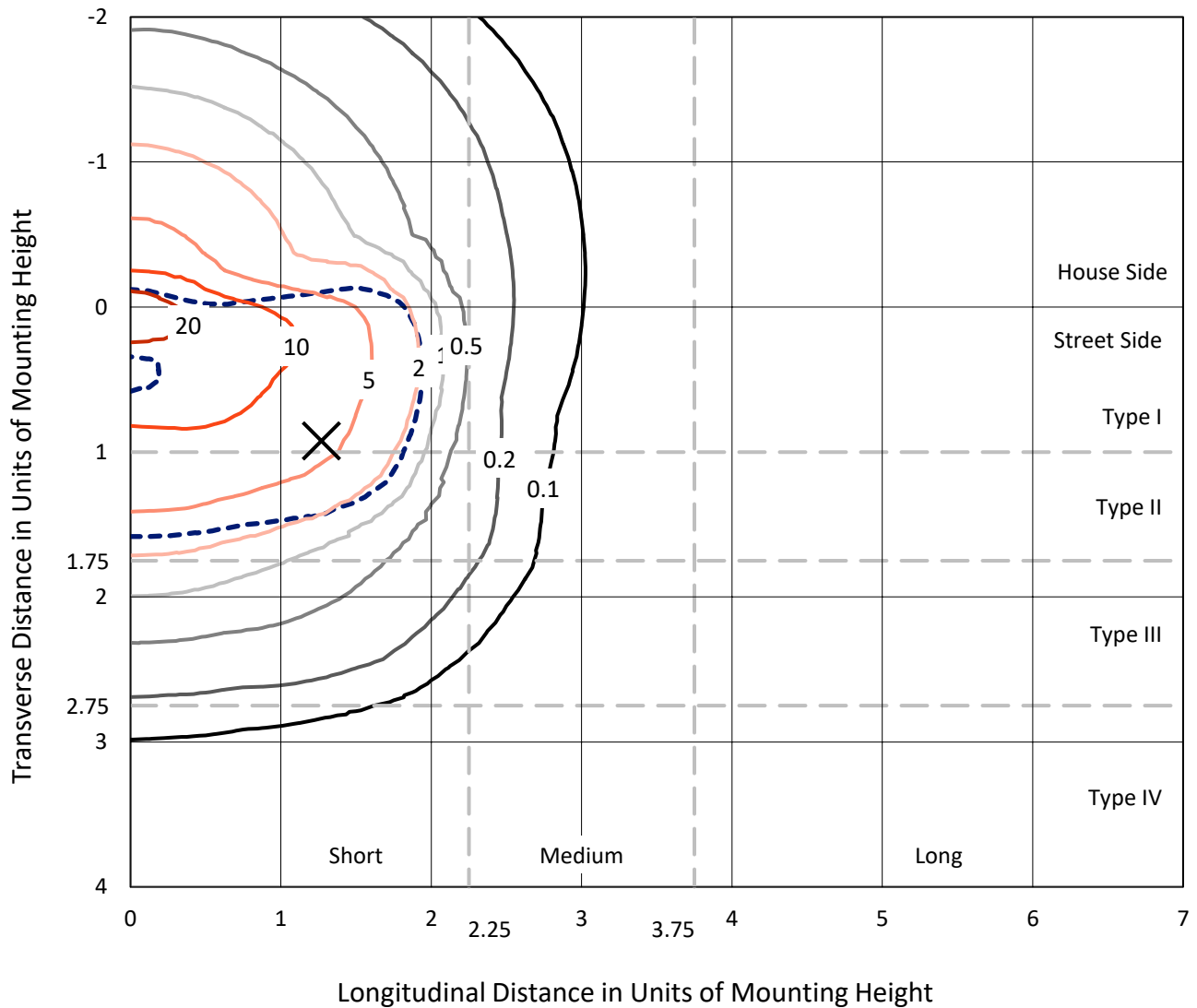
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

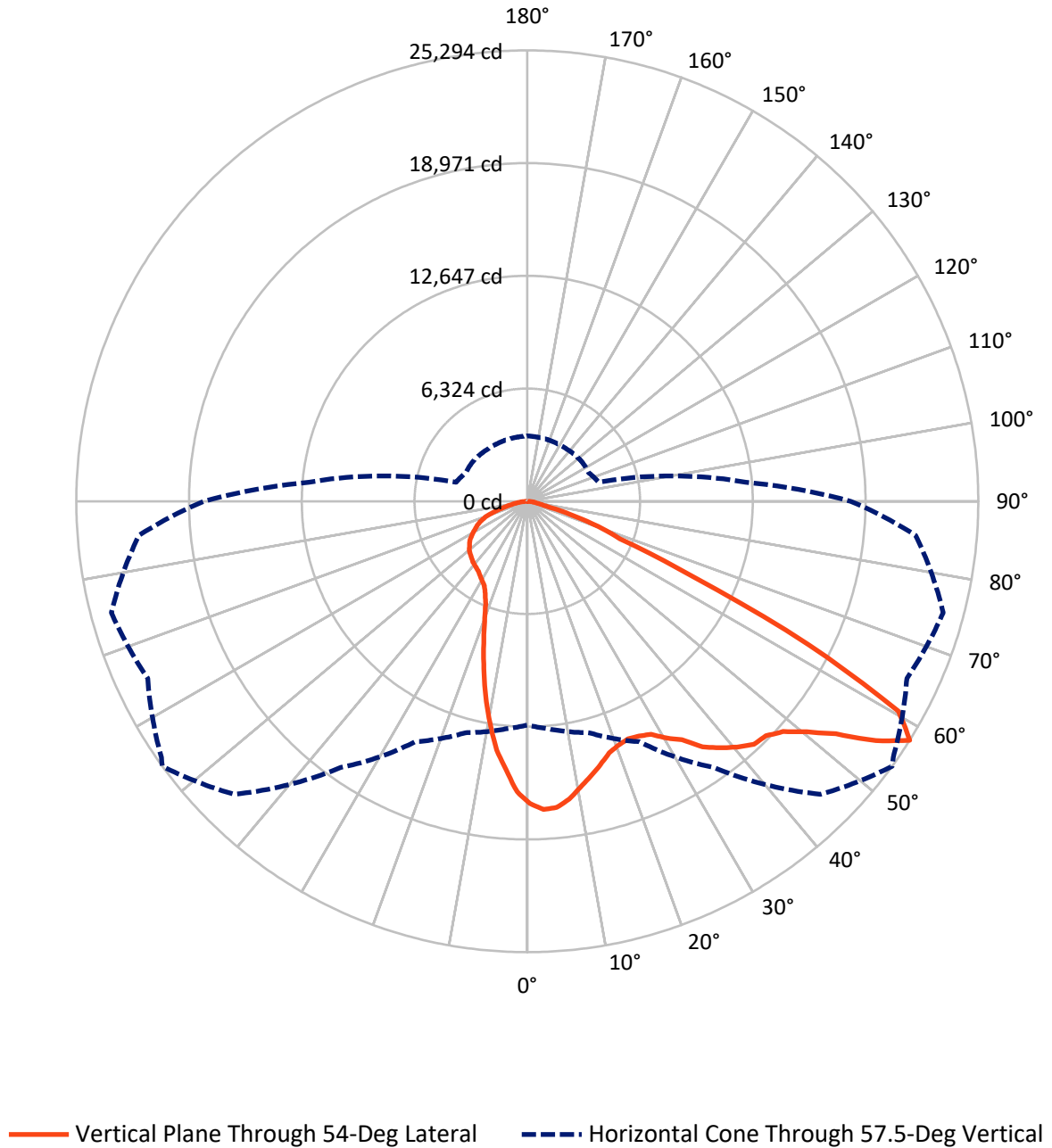
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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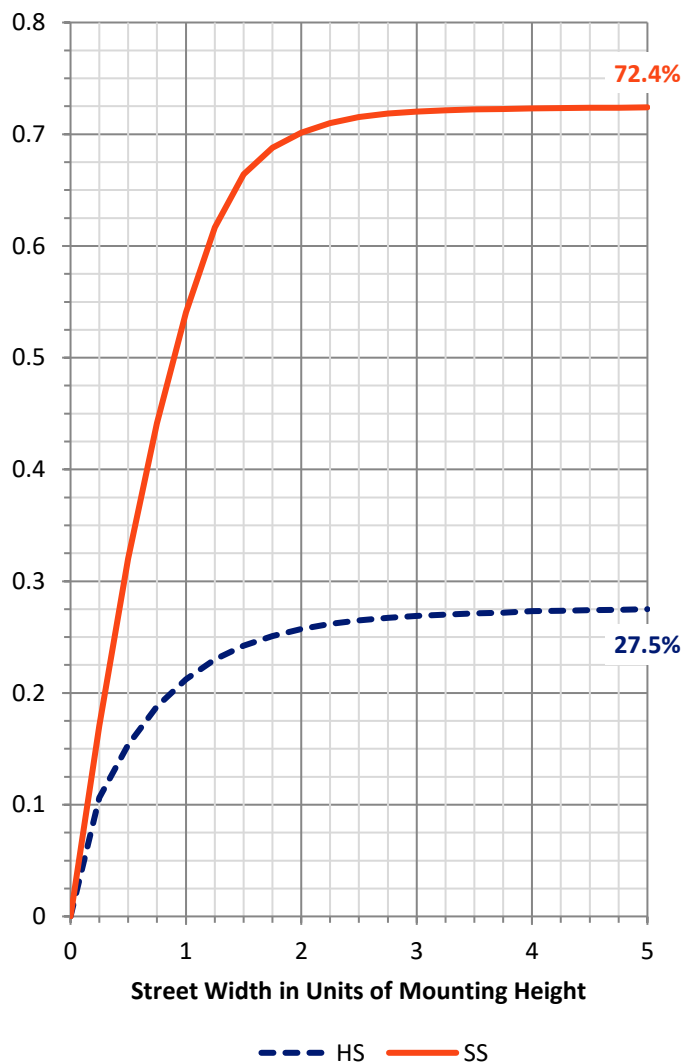
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12066.3	0.0	12066.3
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	31548.7	0.0	31548.7
	% Fixture	72.3	0.0	72.3
Total	Lumens	43615.0	0.0	43615.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1462.0	3.4
10°-20°	3385.1	7.8
20°-30°	4756.1	10.9
30°-40°	6649.0	15.2
40°-50°	9001.5	20.6
50°-60°	10964.2	25.1
60°-70°	5710.6	13.1
70°-80°	1463.3	3.4
80°-90°	223.2	0.5
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°	43615.0	100.0
0°-180°	43615.0	100.0

Coefficient of Utilization



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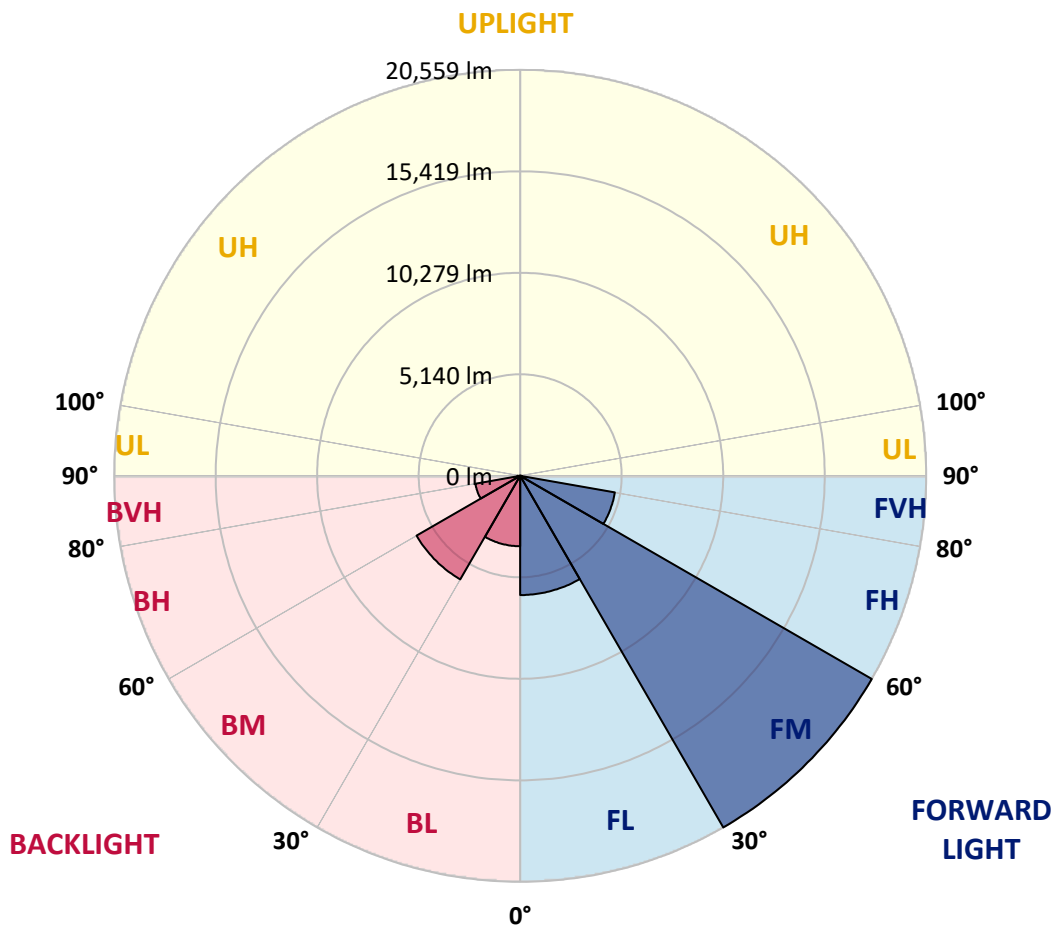
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6036.9	13.8			
FM (30°-60°)	20558.8	47.1			
FH (60°-80°)	4868.7	11.2			G2/5000
FVH (80°-90°)	84.3	0.2			G1/100
BL (0°-30°)	3566.2	8.2	B4/5000		
BM (30°-60°)	6056.0	13.9	B4/8500		
BH (60°-80°)	2305.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	138.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	16952.7	16952.7	16952.7	16952.7	16952.7	16952.7	16952.7	16952.7	16952.7	16952.7	16952.7
2.5°	17434.8	17367.5	17378.7	17468.4	17356.3	17311.4	17311.4	17092.8	17109.6	16958.3	16919.0
5°	17031.1	16874.2	16980.7	17115.2	17137.7	17182.5	17255.4	17199.3	17042.3	16879.8	16616.3
7.5°	15977.2	16117.4	16156.6	16251.9	16453.7	16638.7	16868.6	16711.6	16706.0	16543.4	16386.4
10°	15052.2	14968.1	15181.1	15321.3	15657.7	15966.0	16319.2	16302.4	16386.4	16201.4	15932.4
12.5°	14132.8	14065.5	14166.5	14486.0	14956.9	15405.4	15825.8	15668.9	16117.4	16083.7	15506.3
15°	13157.4	13207.8	13353.6	13650.7	14267.4	14805.5	15338.1	15343.7	15741.7	15876.3	15102.7
17.5°	12473.4	12417.4	12602.4	13045.2	13594.6	14239.3	14844.8	14968.1	15579.2	15657.7	14979.3
20°	11963.3	12041.8	12282.8	12507.1	13140.5	13919.8	14603.7	14648.6	15545.5	15758.6	14783.1
22.5°	11839.9	11795.1	11873.6	12238.0	12759.3	13605.8	14474.8	14643.0	15539.9	15724.9	14413.1
25°	11711.0	11856.8	11851.2	12215.6	12596.8	13353.6	14581.3	14766.3	15837.0	15898.7	14463.6
27.5°	12002.5	11985.7	12142.7	12170.7	12641.6	13420.8	14805.5	14945.7	16330.4	16279.9	14502.8
30°	12294.0	12209.9	12305.2	12636.0	12854.6	13807.7	15422.2	15411.0	16969.5	16935.8	14626.1
32.5°	12652.8	12613.6	12675.2	12966.8	13336.8	14323.4	15943.6	16274.3	17619.8	17832.8	15052.2
35°	12720.1	12882.7	13028.4	13420.8	13947.8	15158.7	16924.6	17199.3	18371.0	19038.1	15865.1
37.5°	13146.2	13207.8	13549.8	14244.9	14727.1	16274.3	17546.9	17720.7	19054.9	19811.7	16722.8
40°	13600.2	13673.1	14188.9	14917.7	15579.2	17003.1	18129.9	18186.0	19273.5	20406.0	17283.4
42.5°	14216.9	14284.2	14794.3	15708.1	16593.9	17625.4	18645.7	18707.3	19256.7	21089.9	18174.8
45°	14856.0	15018.6	15618.4	16655.5	17451.6	18354.2	18763.4	19015.7	19413.7	21701.0	18897.9
47.5°	15753.0	15904.3	16397.7	17412.3	18342.9	18993.2	19307.2	19553.9	19789.3	22233.5	19363.2
50°	16706.0	16734.0	17333.9	18253.3	18937.2	19716.4	20321.9	20406.0	20282.6	22850.2	20153.7
52.5°	17406.7	17496.4	17961.7	18858.7	19879.0	20837.6	21667.3	21757.0	21516.0	23080.0	20422.8
55°	16246.3	16195.8	16952.7	18146.7	20512.5	22508.2	23713.5	23780.8	22412.9	23792.0	21302.9
57.5°	12557.5	12798.6	13443.3	14884.0	18225.2	23248.2	25294.4	25053.4	23489.3	24150.8	21863.5
60°	9126.6	9070.6	9502.2	10466.5	13734.8	20036.0	23915.3	24162.0	22609.1	21768.2	18029.0
62.5°	7433.6	7355.1	7388.8	7422.4	8863.1	13297.5	17703.9	17698.3	17412.3	15646.4	12159.5
65°	5942.4	6127.4	6144.2	6396.5	6581.5	7943.8	10259.0	10808.4	9412.5	7719.5	5600.4
67.5°	4479.2	4411.9	4636.2	5533.2	5880.7	5735.0	5600.4	5662.1	4025.1	2903.9	2735.7
70°	2640.4	2612.4	2881.5	3857.0	4843.6	4557.7	4221.3	4227.0	2763.8	2029.4	2259.2
72.5°	1446.4	1440.8	1496.8	1956.5	2752.6	2859.1	2533.9	2612.4	1648.2	1642.6	1765.9
75°	807.3	790.5	773.6	863.3	992.3	1048.3	1070.8	1082.0	1132.4	1267.0	1317.4
77.5°	297.1	285.9	285.9	330.8	420.5	527.0	667.1	678.3	801.7	919.4	969.8
80°	100.9	112.1	151.4	207.4	280.3	375.6	454.1	465.3	566.2	644.7	661.5
82.5°	61.7	67.3	100.9	145.8	201.8	263.5	336.4	342.0	420.5	470.9	493.3
85°	28.0	33.6	56.1	89.7	128.9	173.8	179.4	179.4	173.8	179.4	168.2
87.5°	0.0	0.0	11.2	11.2	11.2	16.8	22.4	16.8	28.0	33.6	33.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	16952.7	16952.7	16952.7	16952.7	16952.7	16952.7	16952.7	16952.7	16952.7	16952.7	16952.7
2.5°	16801.3	16739.6	16549.0	16380.8	16330.4	16106.1	15775.4	15814.6	15573.6	15685.7	15568.0
5°	16571.4	16364.0	15876.3	15668.9	15125.1	14878.4	14710.2	14289.8	14093.6	14054.3	13886.1
7.5°	15982.8	15853.9	15242.8	14682.2	14104.8	13611.5	12978.0	12546.3	12238.0	12153.9	11907.2
10°	15517.5	15231.6	14385.1	13533.0	12708.9	11851.2	11027.1	10382.4	10068.4	9704.0	9580.7
12.5°	15057.8	14626.1	13482.5	12389.3	11324.2	10242.2	9244.4	8459.5	7775.6	7613.0	7556.9
15°	14771.9	14020.7	12675.2	11357.8	9844.2	8431.5	7433.6	6917.8	6497.4	6323.6	6446.9
17.5°	14396.3	13521.8	11901.6	10146.9	8481.9	7181.3	6346.0	6026.5	5875.1	5891.9	5841.5
20°	13925.4	13050.9	10886.9	9048.1	7265.4	6228.3	5751.8	5634.1	5656.5	5695.7	5678.9
22.5°	13589.0	12479.0	10152.5	7926.9	6278.8	5701.3	5505.1	5421.0	5493.9	5527.6	5499.5
25°	13331.2	11991.3	9261.2	6934.7	5706.9	5404.2	5314.5	5308.9	5421.0	5465.9	5437.9
27.5°	13095.7	11537.2	8375.4	6177.9	5325.7	5174.4	5146.3	5213.6	5286.5	5331.3	5370.6
30°	12955.5	11189.6	7545.7	5544.4	5135.1	5062.2	5011.8	5073.5	5112.7	5157.6	5135.1
32.5°	13090.1	10943.0	6744.1	5185.6	4978.2	4905.3	4972.6	4933.3	5000.6	5039.8	4978.2
35°	13510.5	10724.3	6172.2	4995.0	4798.8	4826.8	4838.0	4821.2	4849.2	4815.6	4888.5
37.5°	13925.4	10645.9	5645.3	4832.4	4714.7	4714.7	4703.5	4669.8	4725.9	4714.7	4748.3
40°	14452.4	10696.3	5196.8	4658.6	4636.2	4625.0	4580.1	4574.5	4552.1	4557.7	4568.9
42.5°	14912.1	10808.4	4938.9	4546.5	4563.3	4585.7	4501.6	4434.4	4462.4	4406.3	4406.3
45°	15399.8	10909.3	4709.1	4468.0	4451.2	4445.6	4378.3	4339.1	4316.6	4322.3	4372.7
47.5°	16167.8	11055.1	4535.3	4361.5	4372.7	4288.6	4271.8	4221.3	4243.8	4277.4	4283.0
50°	16711.6	11363.4	4400.7	4238.2	4277.4	4221.3	4120.4	4098.0	4098.0	4154.1	4142.9
52.5°	17092.8	11795.1	4271.8	4103.6	4120.4	4075.6	4042.0	3991.5	3957.9	4036.3	4075.6
55°	18258.9	12512.7	4238.2	3991.5	3985.9	3941.0	3879.4	3828.9	3812.1	3823.3	3901.8
57.5°	18146.7	12288.4	4131.6	3795.3	3784.1	3722.4	3660.7	3643.9	3638.3	3649.5	3672.0
60°	14732.7	9076.2	3688.8	3571.0	3554.2	3543.0	3481.3	3414.1	3380.4	3414.1	3386.0
62.5°	9748.9	6076.9	3251.5	3302.0	3313.2	3285.1	3184.2	3117.0	3128.2	3167.4	3105.7
65°	4787.6	3571.0	2948.8	3083.3	3094.5	3016.0	2920.7	2842.3	2803.0	2836.7	2808.6
67.5°	2735.7	2730.1	2702.1	2842.3	2836.7	2758.2	2606.8	2539.5	2472.3	2483.5	2466.7
70°	2320.9	2365.7	2421.8	2505.9	2500.3	2410.6	2231.2	2180.7	2085.4	2074.2	2046.2
72.5°	1827.6	1906.1	2029.4	2091.1	2040.6	1928.5	1810.7	1726.7	1642.6	1592.1	1608.9
75°	1356.7	1468.8	1536.1	1575.3	1496.8	1435.1	1339.8	1238.9	1138.0	1093.2	1076.4
77.5°	986.7	1020.3	1082.0	1110.0	1059.5	997.9	941.8	840.9	745.6	683.9	667.1
80°	689.5	712.0	756.8	756.8	756.8	728.8	655.9	555.0	493.3	437.3	426.1
82.5°	482.1	504.5	549.4	527.0	521.4	487.7	442.9	364.4	297.1	257.9	246.7
85°	168.2	185.0	224.2	269.1	285.9	280.3	252.3	201.8	157.0	128.9	117.7
87.5°	39.2	39.2	44.8	39.2	39.2	44.8	39.2	39.2	39.2	28.0	22.4
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)