

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: P457420

Luminaire Tested: **GALN-SA8D-730-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457420
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56388 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

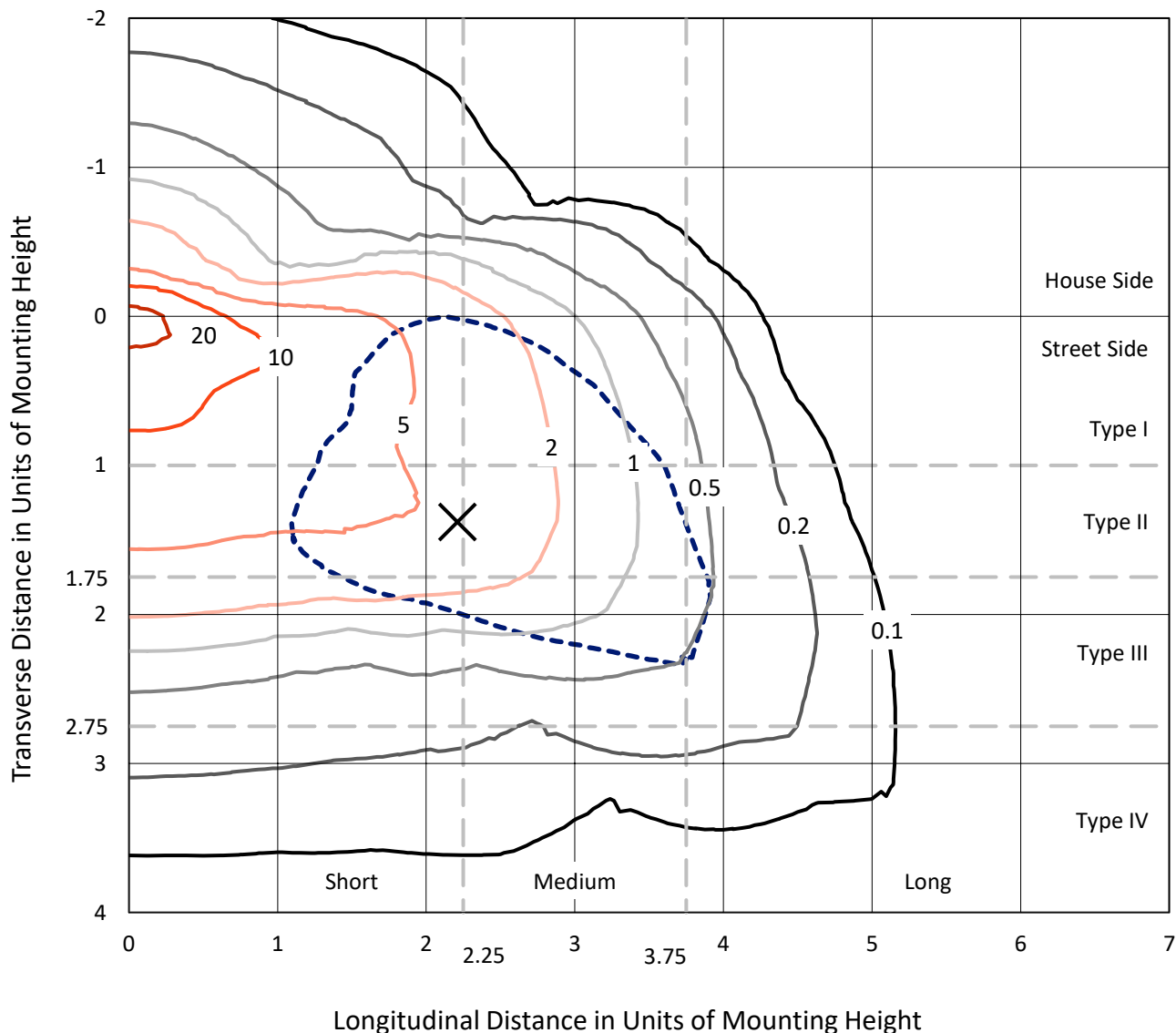
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

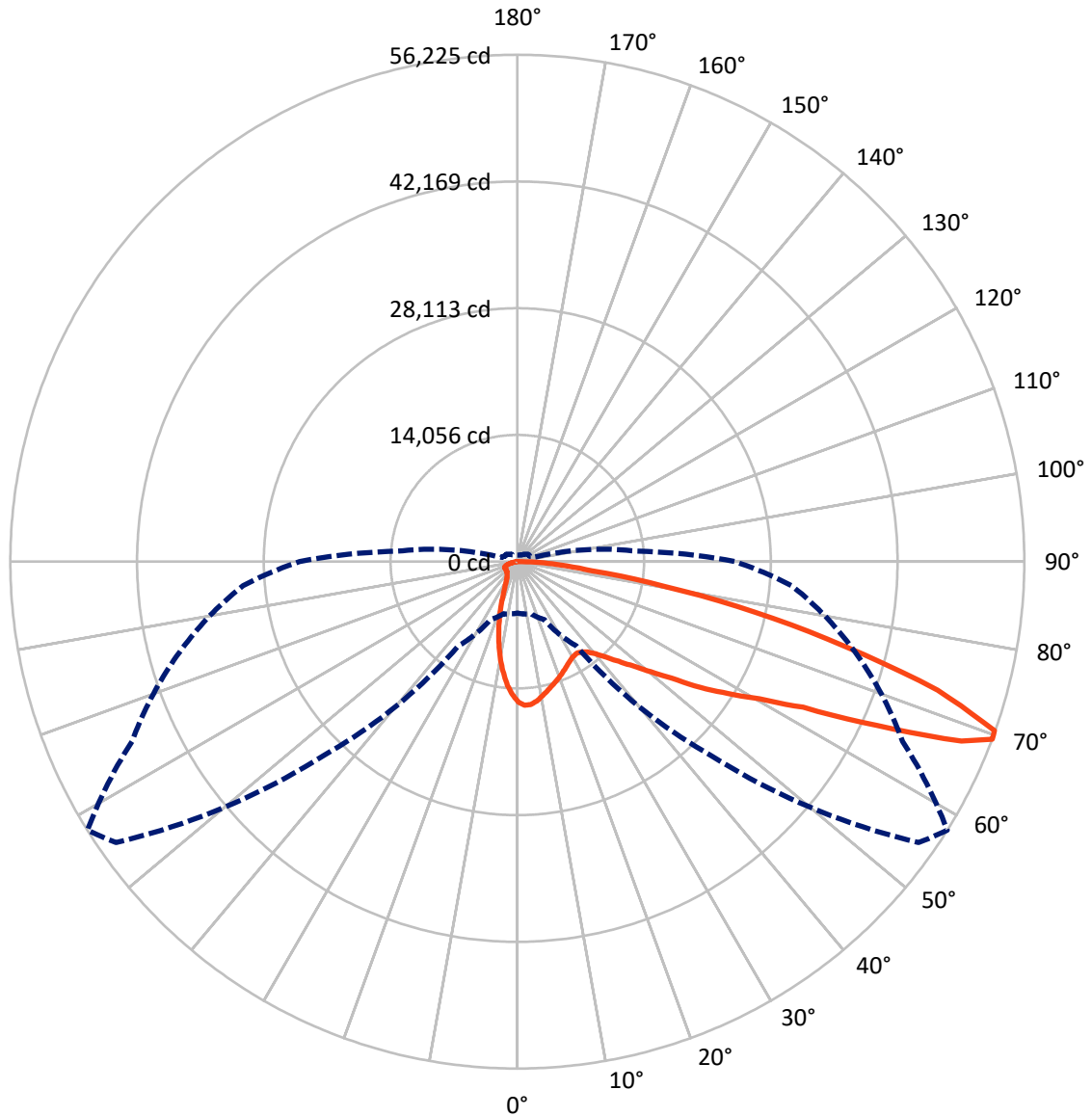
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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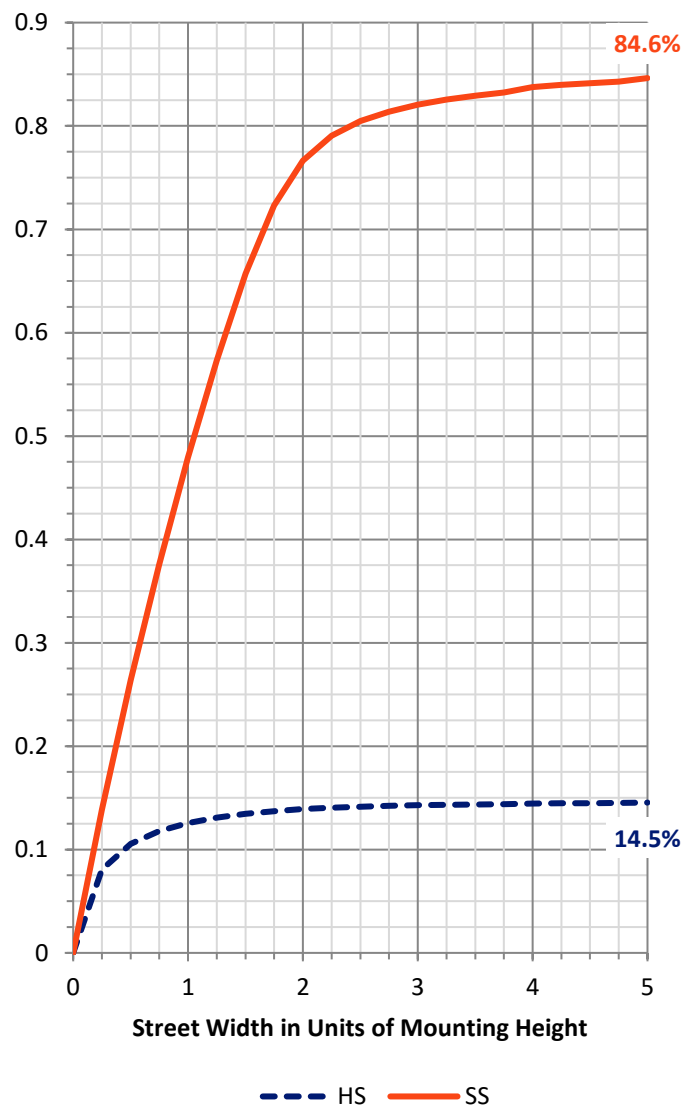
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8263.7	0.0	8263.7
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	48124.3	0.0	48124.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	56388.0	0.0	56388.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1323.3	2.3
10°-20°	2905.8	5.2
20°-30°	3754.3	6.7
30°-40°	4876.1	8.6
40°-50°	7089.2	12.6
50°-60°	11312.0	20.1
60°-70°	15111.4	26.8
70°-80°	8711.1	15.4
80°-90°	1304.7	2.3
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°	56388.0	100.0
0°-180°	56388.0	100.0



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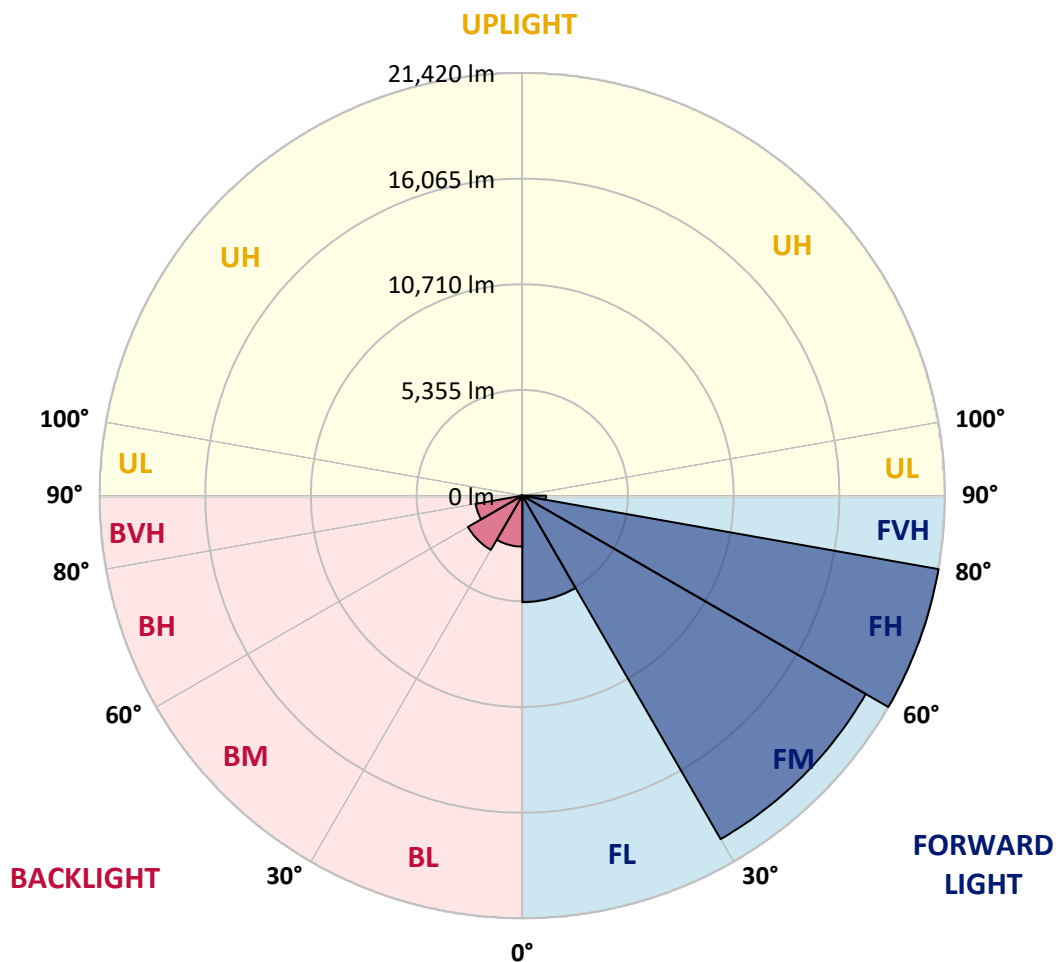
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5400.5	9.6			
FM	(30°-60°)	20099.4	35.6			
FH	(60°-80°)	21419.6	38.0			G5
FVH	(80°-90°)	1204.8	2.1			G5
BL	(0°-30°)	2582.9	4.6	B4/5000		
BM	(30°-60°)	3177.9	5.6	B3/5000		
BH	(60°-80°)	2402.9	4.3	B3/2500		G3/2500
BVH	(80°-90°)	100.0	0.2			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	15582.3	15582.3	15582.3	15582.3	15582.3	15582.3	15582.3	15582.3	15582.3	15582.3	15582.3
2.5°	16161.0	16205.0	16192.4	16176.7	16151.5	16082.4	15969.1	15950.3	15878.0	15723.9	15532.0
5°	15912.5	15950.3	15953.4	15975.4	16006.9	15994.3	15912.5	15903.1	15796.2	15588.6	15267.9
7.5°	15060.3	15110.6	15220.7	15343.3	15453.4	15557.2	15582.3	15598.1	15532.0	15293.0	14865.3
10°	14101.2	14151.5	14201.8	14384.2	14654.6	14912.5	15126.4	15154.7	15170.4	14950.2	14428.2
12.5°	13038.2	13142.0	13248.9	13519.4	13881.0	14286.7	14664.1	14723.8	14830.7	14664.1	14050.8
15°	12135.7	12242.6	12396.7	12638.8	13076.0	13660.9	14192.4	14289.8	14500.5	14415.6	13698.6
17.5°	11509.9	11547.6	11654.5	11931.3	12403.0	13019.4	13730.1	13925.0	14261.5	14239.5	13396.7
20°	11016.1	11063.3	11129.3	11299.2	11789.7	12440.7	13299.2	13550.8	14006.8	14082.3	13098.0
22.5°	10808.6	10843.2	10833.7	10924.9	11258.3	11912.4	12862.1	13160.9	13780.4	13975.4	12821.2
25°	10821.2	10852.6	10805.4	10783.4	10981.5	11447.0	12406.1	12786.6	13598.0	13903.0	12569.7
27.5°	11031.9	11053.9	10965.8	10877.8	10893.5	11157.6	12028.8	12450.1	13443.9	13934.5	12359.0
30°	11314.9	11355.8	11299.2	11192.2	11075.9	11088.5	11786.6	12201.7	13371.6	14044.5	12258.3
32.5°	11679.7	11717.4	11692.3	11607.4	11456.4	11289.7	11726.9	12110.5	13377.9	14267.8	12236.3
35°	12063.3	12138.8	12179.7	12173.4	12050.8	11761.4	11962.7	12280.3	13528.8	14642.1	12365.2
37.5°	12497.3	12560.2	12736.3	12849.5	12736.3	12399.8	12494.2	12714.3	13862.2	15183.0	12648.3
40°	12918.7	13013.1	13270.9	13623.1	13579.1	13283.5	13305.5	13450.2	14450.2	15988.0	13201.8
42.5°	13359.0	13472.2	13921.9	14443.9	14547.7	14318.1	14377.9	14506.8	15286.7	17104.4	14151.5
45°	13925.0	14060.3	14613.8	15264.7	15673.5	15532.0	15701.8	15764.7	16406.3	18557.3	15403.1
47.5°	14654.6	14811.9	15494.3	16305.6	16884.3	17013.2	17308.8	17271.1	17793.1	20277.5	17025.8
50°	15884.2	15972.3	16617.0	17444.0	18239.7	18821.5	19142.2	19202.0	19513.3	21950.5	18840.3
52.5°	17346.6	17425.2	17890.6	18613.9	19610.8	20843.5	21636.0	21441.1	21516.5	23988.3	20963.0
55°	18991.3	19123.4	19419.0	19900.1	21192.6	23007.1	24598.4	24645.6	23809.1	25938.1	22997.7
57.5°	20264.9	20488.2	20994.5	21680.1	23318.5	25412.9	27551.3	27582.8	26513.6	28019.9	25243.1
60°	19623.4	19887.5	21044.8	22714.7	26107.9	29611.2	31079.8	30900.5	29145.7	30391.1	27982.2
62.5°	16856.0	16903.1	18585.6	21195.8	26966.4	35227.7	36331.5	35573.7	32658.5	33397.5	30765.3
65°	10909.2	11217.4	12550.8	16208.2	24145.6	38344.2	45533.1	43781.5	37583.2	36809.5	33095.6
67.5°	6887.0	6808.4	7361.9	9255.1	16607.5	35598.8	53385.6	53108.9	44023.7	38963.7	32538.9
69°	5710.9	5799.0	5987.6	7094.6	11428.1	30394.2	54313.3	56225.4	47146.4	38793.9	30516.9
70°	5179.4	5220.3	5418.4	6289.5	8817.9	25456.9	52791.3	56140.5	48372.9	38083.2	29051.4
72.5°	4110.2	4107.1	4446.7	5232.9	6591.4	14532.0	43347.5	48740.8	47001.8	34774.9	24004.0
75°	3122.8	3173.1	3547.3	4427.8	6072.6	7940.5	30249.6	37536.0	37539.1	27466.4	14978.5
77.5°	2251.7	2283.1	2720.2	3717.1	5720.3	6437.3	20148.5	26922.4	25309.1	12585.4	4707.7
80°	1474.9	1493.8	1827.1	2943.5	5157.4	6072.6	11947.0	16478.6	11937.6	3339.7	1556.7
82.5°	808.2	902.5	1116.4	1905.7	4138.5	5610.3	7261.3	8339.9	4478.2	1487.5	811.4
85°	405.7	430.8	629.0	1113.2	2704.5	4641.7	5056.8	4783.2	2311.4	739.0	421.4
87.5°	119.5	150.9	261.0	430.8	1097.5	2418.3	2814.6	2525.3	890.0	267.3	88.1
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°	15582.3	15582.3	15582.3	15582.3	15582.3	15582.3	15582.3	15582.3	15582.3	15582.3	15582.3
2.5°	15453.4	15396.8	15145.2	14918.8	14711.2	14491.1	14305.6	14142.0	14157.8	14160.9	13994.2
5°	15101.2	14972.3	14494.3	14047.7	13670.3	13192.3	12783.5	12519.3	12387.3	12211.1	12274.0
7.5°	14623.2	14374.7	13711.2	12969.0	12274.0	11654.5	10981.5	10519.3	10223.7	9937.5	9975.2
10°	14129.5	13730.1	12764.6	11783.5	10884.1	9893.5	9034.9	8299.1	7751.9	7547.5	7412.2
12.5°	13623.1	13098.0	11871.5	10566.4	9324.2	8138.7	6921.6	6132.3	5528.5	5207.7	5248.6
15°	13160.9	12522.5	10940.7	9349.4	7736.1	6324.1	5110.3	4358.7	3937.3	3849.2	3899.5
17.5°	12733.2	11896.7	10069.6	8167.0	6283.3	4742.3	3839.8	3415.2	3245.4	3198.2	3195.1
20°	12292.9	11365.2	9091.5	6902.8	4896.4	3676.2	3151.1	2952.9	2921.5	2940.4	2943.5
22.5°	11846.4	10707.9	8085.2	5648.0	3899.5	3006.4	2754.8	2701.4	2726.5	2770.5	2776.8
25°	11434.4	10129.3	7116.6	4547.3	3113.3	2641.6	2519.0	2519.0	2575.6	2641.6	2644.8
27.5°	11094.8	9569.5	6151.2	3610.2	2607.0	2377.4	2336.6	2358.6	2437.2	2487.5	2490.7
30°	10814.9	9047.5	5239.2	2893.2	2292.5	2166.7	2157.3	2195.1	2251.7	2298.8	2302.0
32.5°	10604.2	8588.4	4387.0	2430.9	2075.5	2006.4	2003.2	2031.5	2063.0	2075.5	2088.1
35°	10522.4	8207.9	3607.1	2138.4	1930.9	1886.9	1886.9	1883.7	1896.3	1902.6	1908.9
37.5°	10588.4	7915.4	3003.3	1949.8	1824.0	1792.5	1773.7	1754.8	1748.5	1748.5	1751.6
40°	10868.3	7761.3	2553.6	1827.1	1748.5	1701.3	1666.7	1644.7	1622.7	1629.0	1635.3
42.5°	11462.7	7789.6	2248.5	1745.3	1682.5	1616.4	1566.1	1540.9	1525.2	1544.1	1540.9
45°	12409.3	8072.6	2053.5	1688.7	1616.4	1531.5	1484.3	1459.2	1459.2	1487.5	1496.9
47.5°	13733.2	8613.5	1949.8	1644.7	1566.1	1465.5	1418.3	1399.4	1405.7	1452.9	1456.0
50°	15349.6	9553.8	1930.9	1622.7	1540.9	1418.3	1364.8	1346.0	1361.7	1412.0	1418.3
52.5°	17132.7	10764.6	2022.1	1625.8	1518.9	1390.0	1320.8	1292.5	1308.2	1349.1	1361.7
55°	19246.0	12280.3	2257.9	1638.4	1487.5	1374.3	1289.4	1226.5	1245.3	1273.6	1276.8
57.5°	21403.3	14192.4	2673.1	1641.6	1462.3	1346.0	1235.9	1154.1	1154.1	1173.0	1182.4
60°	24038.6	16274.2	3220.2	1644.7	1465.5	1305.1	1163.6	1072.4	1059.8	1069.2	1072.4
62.5°	26655.1	18016.4	3311.4	1635.3	1496.9	1264.2	1084.9	990.6	968.6	965.4	959.2
65°	27809.2	17692.5	2713.9	1591.3	1531.5	1239.0	1022.1	912.0	874.2	861.7	861.7
67.5°	25928.6	14966.0	2041.0	1531.5	1509.5	1213.9	962.3	845.9	801.9	776.8	776.8
69°	24161.3	13311.8	1833.4	1490.6	1452.9	1173.0	924.6	811.4	757.9	729.6	720.2
70°	22796.4	12173.4	1745.3	1456.0	1399.4	1125.8	896.3	786.2	726.4	695.0	688.7
72.5°	18192.5	9550.7	1528.4	1323.9	1191.9	946.6	795.6	707.6	651.0	616.4	606.9
75°	10484.7	5176.3	1267.3	1151.0	959.2	735.9	673.0	616.4	572.3	540.9	531.5
77.5°	3226.5	2000.1	918.3	908.8	704.4	569.2	537.8	515.7	484.3	449.7	443.4
80°	1358.5	1018.9	622.7	613.2	468.6	396.2	386.8	383.7	371.1	342.8	333.3
82.5°	745.3	575.5	434.0	377.4	283.0	229.6	239.0	242.1	232.7	204.4	185.5
85°	364.8	314.5	210.7	169.8	128.9	81.8	78.6	94.3	88.1	62.9	69.2
87.5°	72.3	88.1	56.6	25.2	12.6	0.0	0.0	0.0	0.0	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

(END OF REPORT)