

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: P532322

Luminaire Tested: **GALN-SA7C-830-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532322
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-830-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32639 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 377
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

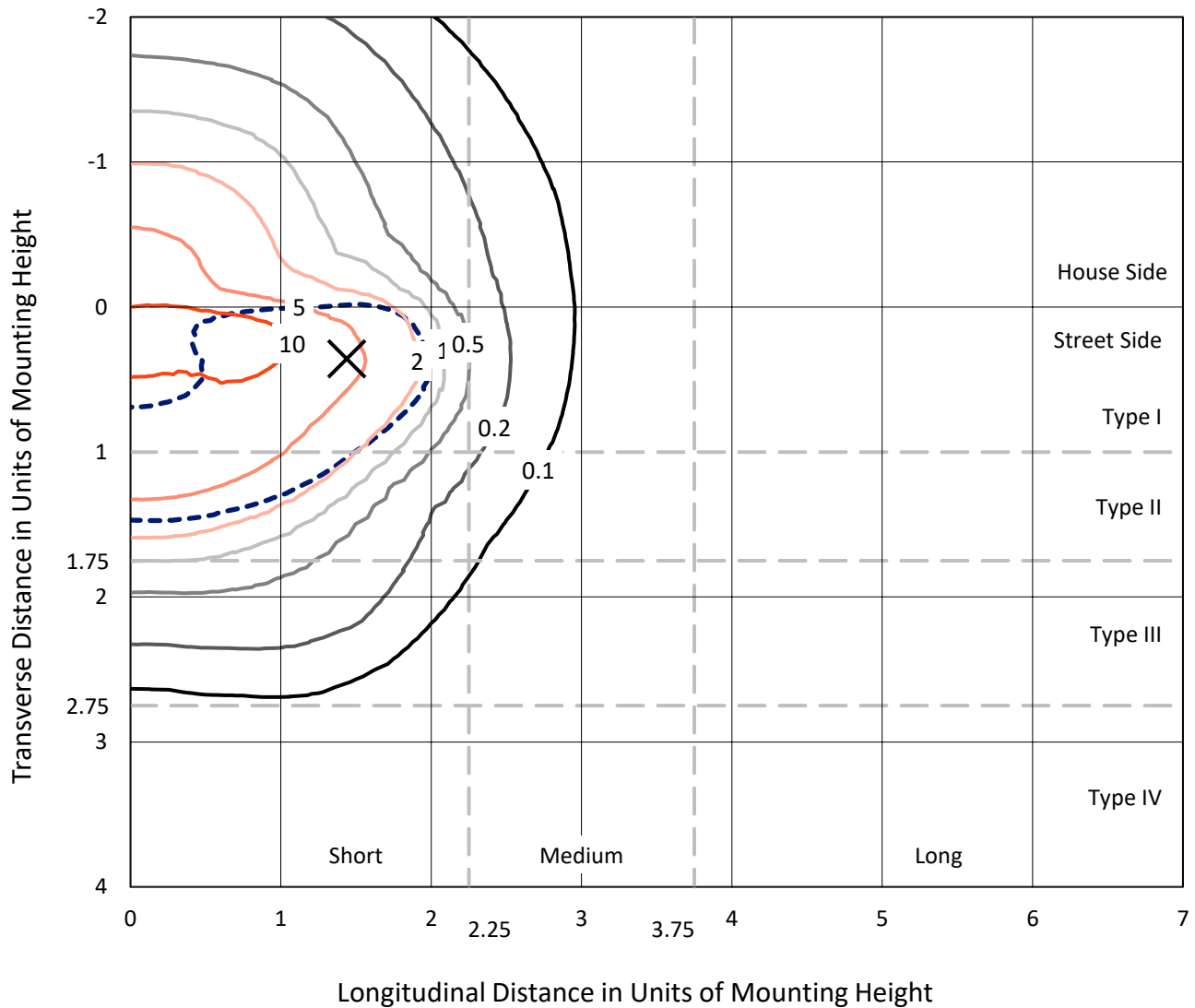


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

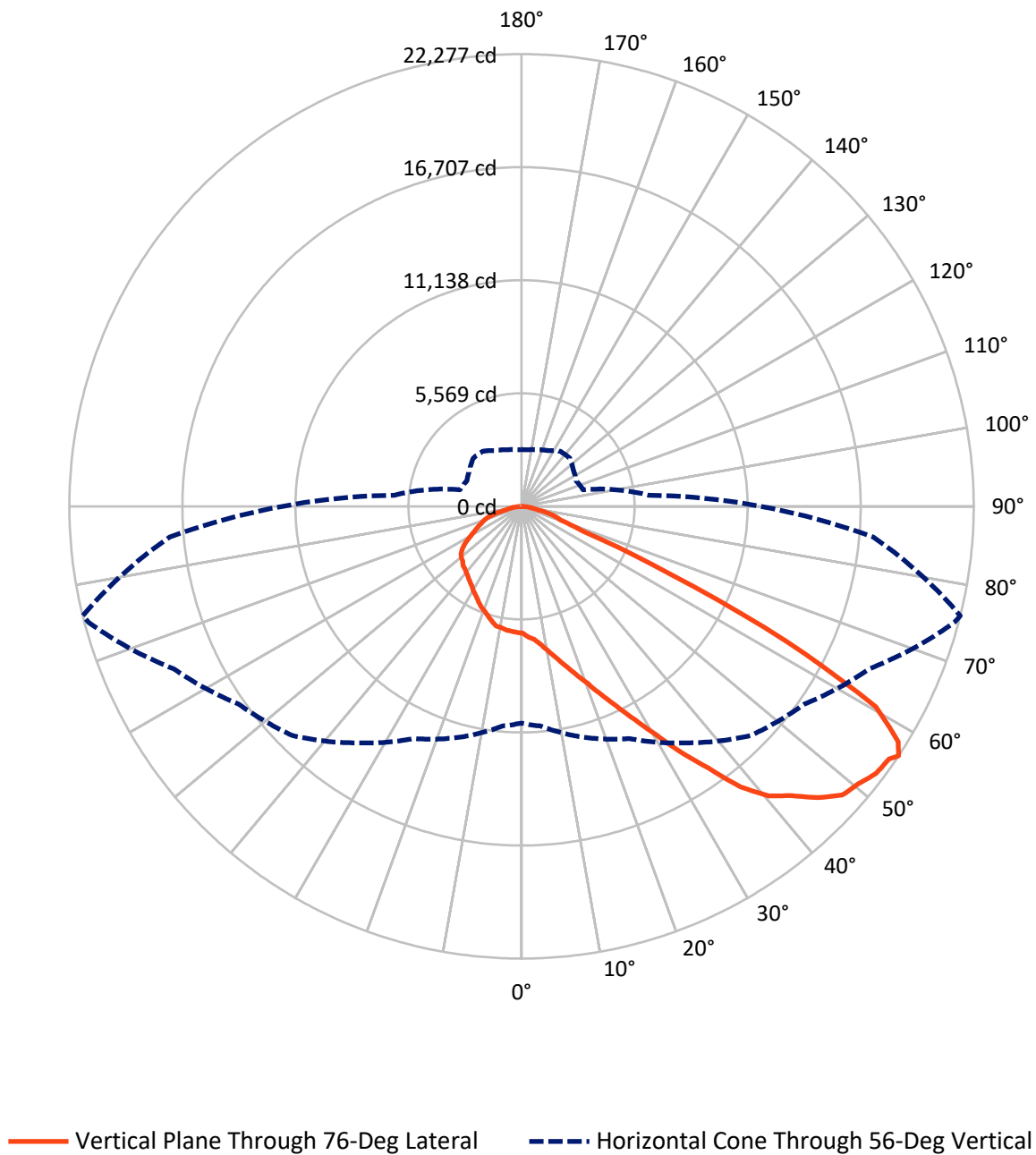


Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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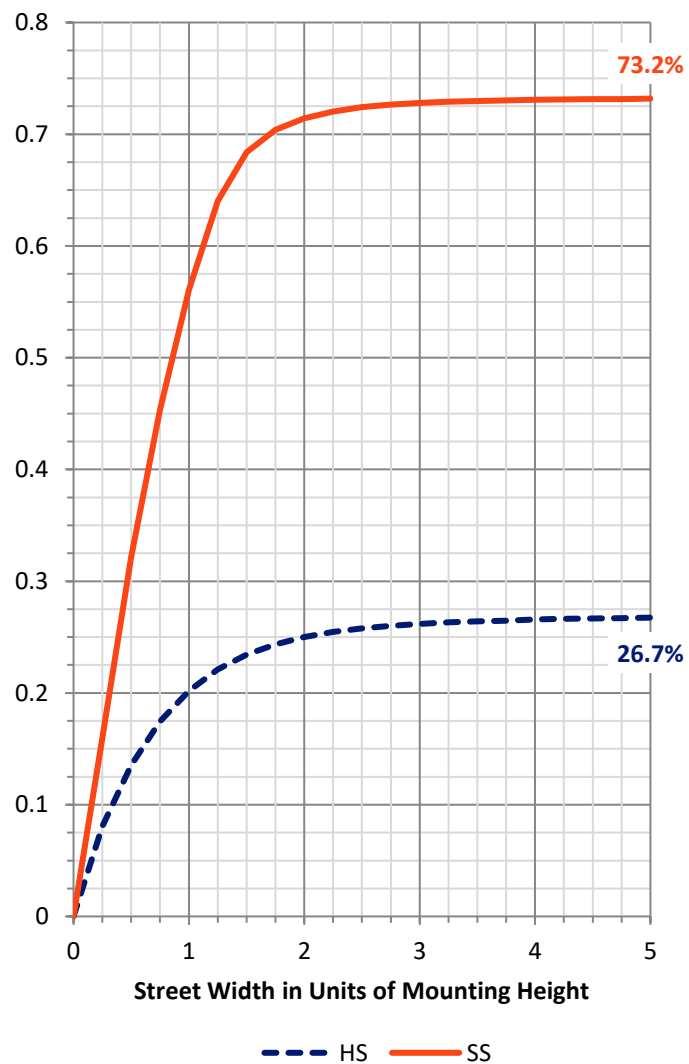
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8775.6	0.0	8775.6
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	23863.4	0.0	23863.4
	% Fixture	73.1	0.0	73.1
Total	Lumens	32639.0	0.0	32639.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	619.3	1.9
10°-20°	1945.5	6.0
20°-30°	3402.4	10.4
30°-40°	5327.2	16.3
40°-50°	7749.5	23.7
50°-60°	8517.2	26.1
60°-70°	3801.7	11.6
70°-80°	1098.1	3.4
80°-90°	178.1	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°	32639.0	100.0
0°-180°	32639.0	100.0

Coefficient of Utilization



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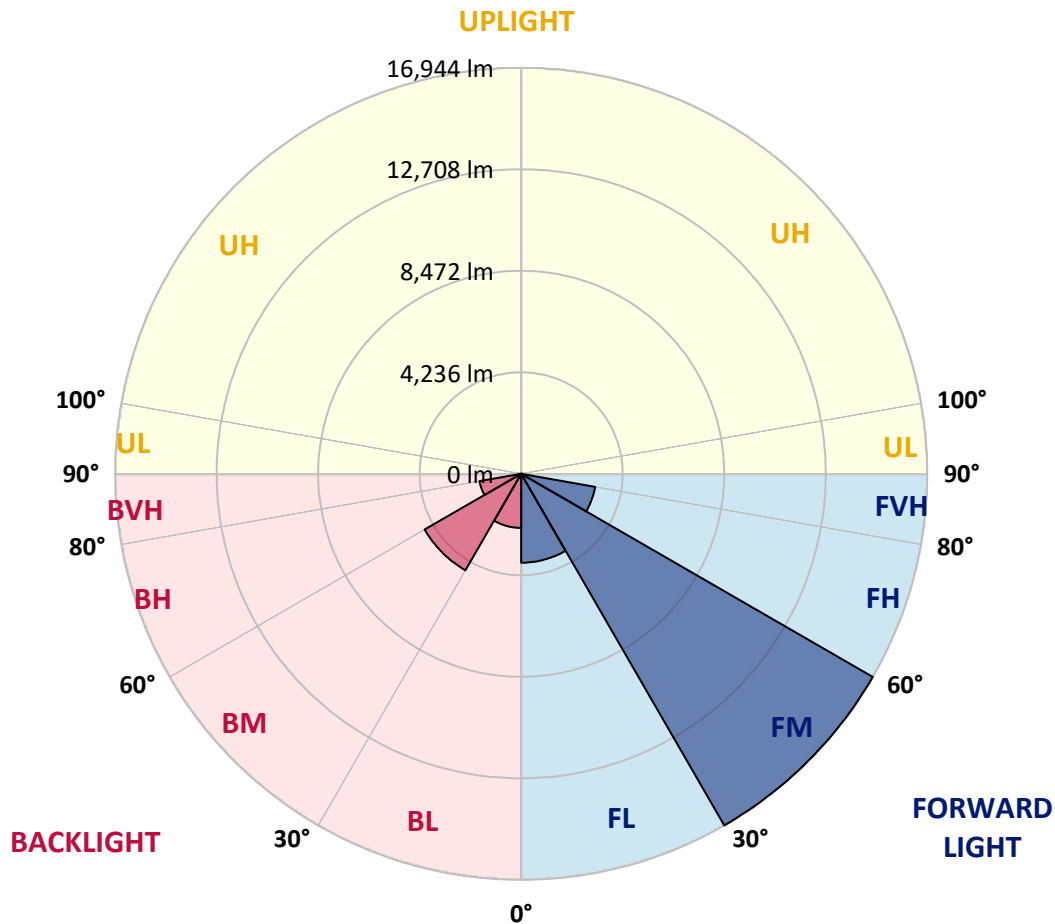
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3709.1	11.4			
FM	(30°-60°)	16943.5	51.9			
FH	(60°-80°)	3134.1	9.6			G2/5000
FVH	(80°-90°)	76.7	0.2			G1/100
BL	(0°-30°)	2258.1	6.9	B3/2500		
BM	(30°-60°)	4650.4	14.2	B3/5000		
BH	(60°-80°)	1765.7	5.4	B3/2500		G3/2500
BVH	(80°-90°)	101.4	0.3			G2/225
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6245.1	6245.1	6245.1	6245.1	6245.1	6245.1	6245.1	6245.1	6245.1	6245.1	6245.1
2.5°	6879.7	6769.7	6761.2	6731.6	6748.6	6672.4	6592.0	6486.2	6376.2	6443.9	6283.1
5°	7362.1	7214.0	7273.2	7171.7	7184.4	7082.8	6917.8	6795.1	6659.7	6579.3	6465.1
7.5°	7531.3	7544.0	7586.3	7569.4	7484.8	7484.8	7374.7	7159.0	6922.0	6875.5	6685.1
10°	7759.8	7764.0	7717.5	7730.2	7848.6	7793.6	7696.3	7603.2	7298.6	7243.6	6905.1
12.5°	7840.2	7764.0	7840.2	7907.9	8047.5	8123.6	8102.5	8034.8	7709.0	7670.9	7175.9
15°	7852.9	7806.3	7869.8	8022.1	8144.8	8466.4	8627.1	8580.6	8149.0	8153.3	7480.5
17.5°	7793.6	7857.1	7882.5	8013.6	8297.1	8597.5	9062.9	9126.4	8771.0	8716.0	7865.6
20°	7874.0	7827.5	7861.3	7979.8	8356.4	8826.0	9435.3	9854.2	9354.9	9316.8	8263.3
22.5°	8182.9	8119.4	8111.0	8187.1	8457.9	8944.5	9828.8	10581.9	10065.7	10086.9	8758.3
25°	8424.1	8457.9	8428.3	8424.1	8593.3	9122.2	10349.2	11449.3	11030.4	10907.7	9342.2
27.5°	8838.7	8919.1	8859.9	8940.2	8902.2	9388.7	10721.5	12409.7	12071.2	11906.2	9871.1
30°	9414.1	9456.4	9401.4	9401.4	9287.2	9761.1	11060.0	13412.5	13272.9	13048.6	10493.0
32.5°	10171.5	10234.9	10124.9	10061.5	10044.6	10315.3	11669.3	14402.5	14639.5	14449.1	11318.1
35°	11174.2	11136.2	11005.0	10945.8	10717.3	11165.8	12574.7	15540.7	16162.7	15824.2	12316.6
37.5°	12058.5	11999.3	11990.8	11660.8	11715.8	12083.9	13344.8	16403.8	17639.3	17542.0	13370.2
40°	12883.6	12938.6	13027.5	12841.3	12756.7	13162.8	14241.8	17063.9	18785.9	18747.9	14182.5
42.5°	13767.9	13717.1	13873.7	13717.1	13590.2	14165.6	15214.9	17520.8	19792.9	19479.8	15033.0
45°	15049.9	14889.1	14944.1	14956.8	14863.7	15075.3	15616.9	17850.9	20499.5	20465.7	15654.9
47.5°	16120.4	16124.6	16031.5	15959.6	15676.1	15887.7	16065.4	18058.2	21311.9	21256.9	15896.1
50°	16518.1	16463.1	16733.9	16890.4	16907.3	16475.8	16416.5	18172.4	21739.2	21498.0	16137.3
52.5°	15088.0	15138.8	15566.1	16496.9	17034.3	17080.8	16826.9	18409.4	21912.7	21861.9	16331.9
55°	12143.2	12388.6	13090.9	14165.6	15439.2	16839.6	17271.2	18654.8	22005.8	21963.5	17195.1
56°	10675.0	10865.4	11779.3	12621.3	14220.6	15963.8	16992.0	18917.1	22077.7	22276.6	17398.1
57.5°	8593.3	8813.3	9469.1	10425.3	12312.4	14296.8	16221.9	18595.5	21798.5	21874.6	17546.2
60°	5373.5	5394.6	6181.6	6812.0	8140.6	10078.4	12380.1	16179.6	20173.7	20063.7	15760.7
62.5°	3524.5	3528.7	4243.8	4759.9	5365.0	5809.3	7285.9	10730.0	14884.9	14690.3	11220.8
65°	2475.2	2530.2	3084.4	3774.1	4019.5	3786.8	3740.3	5656.9	8314.0	8034.8	6029.3
67.5°	1810.9	1815.1	2305.9	3046.4	3401.8	2881.4	2339.8	2762.9	3291.8	3283.3	2792.5
70°	1197.4	1248.2	1624.7	2276.3	2682.5	2314.4	1912.4	1975.9	2094.4	2094.4	2077.5
72.5°	698.1	744.7	994.3	1442.8	1506.3	1447.0	1514.7	1692.4	1768.6	1764.4	1743.2
75°	397.7	418.9	473.9	600.8	748.9	884.3	1112.8	1282.0	1358.2	1404.7	1349.7
77.5°	232.7	245.4	279.3	342.7	389.3	478.1	605.0	723.5	825.1	812.4	820.8
80°	122.7	122.7	156.5	203.1	270.8	338.5	402.0	469.6	524.7	537.3	550.0
82.5°	71.9	76.2	101.5	148.1	194.6	241.2	308.9	355.4	406.2	410.4	418.9
85°	38.1	42.3	63.5	97.3	131.2	148.1	152.3	143.9	156.5	148.1	169.2
87.5°	12.7	12.7	21.2	16.9	16.9	21.2	25.4	25.4	33.8	33.8	33.8
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°	6245.1	6245.1	6245.1	6245.1	6245.1	6245.1	6245.1	6245.1	6245.1	6245.1	6245.1
2.5°	6278.9	6278.9	6207.0	6071.6	6050.4	5995.4	5944.6	5940.4	5902.3	5868.5	5851.6
5°	6397.4	6266.2	6160.4	6037.7	5893.9	5826.2	5750.0	5665.4	5631.5	5665.4	5661.2
7.5°	6532.8	6422.8	6105.4	5877.0	5711.9	5644.2	5559.6	5470.8	5479.2	5479.2	5420.0
10°	6663.9	6515.8	6008.1	5716.2	5475.0	5424.2	5377.7	5411.5	5453.8	5462.3	5424.2
12.5°	6883.9	6549.7	5961.6	5555.4	5403.1	5293.1	5322.7	5415.8	5504.6	5479.2	5508.8
15°	7049.0	6579.3	5750.0	5390.4	5200.0	5250.8	5356.5	5420.0	5568.1	5551.2	5580.8
17.5°	7209.7	6596.2	5542.7	5170.4	5090.0	5229.6	5310.0	5491.9	5538.5	5640.0	5678.1
20°	7539.8	6630.1	5331.1	5035.0	5009.6	5170.4	5310.0	5394.6	5496.2	5585.0	5585.0
22.5°	7709.0	6613.2	5191.5	4857.3	4937.7	5039.2	5166.1	5310.0	5310.0	5394.6	5398.8
25°	7920.6	6545.5	4971.5	4772.6	4831.9	4929.2	5073.0	5022.3	5077.3	5077.3	5145.0
27.5°	8161.7	6401.6	4781.1	4620.3	4738.8	4844.6	4865.7	4831.9	4768.4	4759.9	4734.6
30°	8356.4	6223.9	4641.5	4569.6	4666.9	4726.1	4658.4	4586.5	4476.5	4468.0	4408.8
32.5°	8622.9	6003.9	4468.0	4442.6	4552.6	4556.9	4535.7	4425.7	4264.9	4197.2	4129.5
35°	9071.4	5877.0	4336.8	4374.9	4408.8	4396.1	4358.0	4239.5	4078.7	4049.1	4023.7
37.5°	9401.4	5783.9	4201.4	4248.0	4277.6	4294.5	4180.3	4049.1	4053.4	3994.1	3977.2
40°	9773.8	5724.6	4091.4	4112.6	4116.8	4171.8	4032.2	3968.7	3998.4	3960.3	3985.7
42.5°	10251.9	5741.6	3977.2	3960.3	4040.7	4019.5	3951.8	3867.2	3884.1	3769.9	3786.8
45°	10505.7	5855.8	3909.5	3833.3	3922.2	3918.0	3829.1	3748.7	3647.2	3427.2	3435.6
47.5°	10675.0	5885.4	3748.7	3698.0	3791.0	3846.0	3744.5	3558.3	3414.5	3257.9	3219.8
50°	10848.5	5940.4	3672.6	3566.8	3604.9	3736.0	3609.1	3431.4	3291.8	3152.1	3173.3
52.5°	11000.8	6046.2	3524.5	3367.9	3435.6	3579.5	3511.8	3296.0	3143.7	3029.4	2995.6
55°	11677.7	6283.1	3274.8	3071.8	3232.5	3414.5	3376.4	3114.1	2949.1	2889.8	2881.4
56°	11783.5	6291.6	3143.7	2970.2	3118.3	3359.5	3312.9	3033.7	2885.6	2792.5	2796.7
57.5°	11800.4	6190.0	2957.5	2877.1	3004.1	3279.1	3219.8	2970.2	2767.1	2682.5	2657.1
60°	10383.0	4831.9	2724.8	2674.0	2822.1	3033.7	3012.5	2796.7	2568.3	2470.9	2517.5
62.5°	7078.6	3541.4	2542.9	2534.4	2610.6	2817.9	2762.9	2568.3	2377.9	2314.4	2284.8
65°	4121.1	2686.7	2365.2	2331.3	2394.8	2504.8	2542.9	2339.8	2140.9	2098.6	2085.9
67.5°	2432.9	2221.3	2136.7	2081.7	2060.5	2128.2	2157.8	2039.4	1840.5	1781.3	1832.1
70°	2035.1	1975.9	1980.1	1887.1	1836.3	1789.7	1764.4	1658.6	1493.6	1417.4	1396.3
72.5°	1755.9	1730.5	1713.6	1629.0	1582.4	1476.6	1366.6	1260.9	1138.2	1074.7	1078.9
75°	1341.2	1332.8	1341.2	1298.9	1218.5	1133.9	1032.4	897.0	803.9	723.5	740.4
77.5°	799.7	825.1	837.8	820.8	787.0	710.8	647.4	558.5	469.6	406.2	397.7
80°	550.0	571.2	592.3	571.2	537.3	482.3	414.6	346.9	283.5	249.6	241.2
82.5°	418.9	440.0	452.7	431.6	389.3	330.0	283.5	236.9	186.2	152.3	143.9
85°	152.3	173.5	169.2	203.1	220.0	211.6	181.9	139.6	105.8	76.2	71.9
87.5°	42.3	38.1	42.3	42.3	42.3	38.1	33.8	33.8	33.8	21.2	16.9
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)