

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: P532556

Luminaire Tested: **GALN-SA7D-830-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532556
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-SA7D-830-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA 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: 35914 lumens
Efficiency: N/A
Efficacy: 82.9 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): 433
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



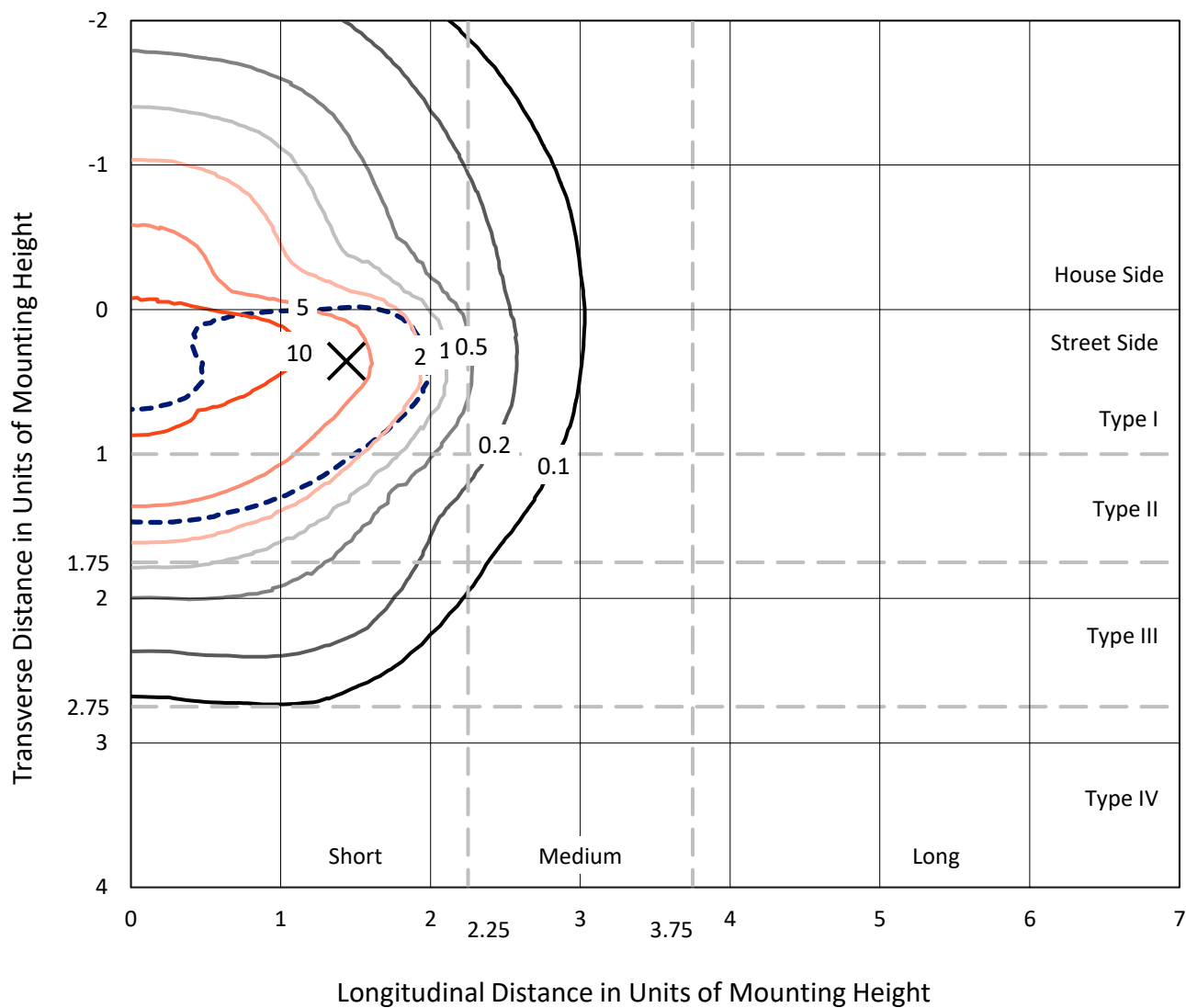
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

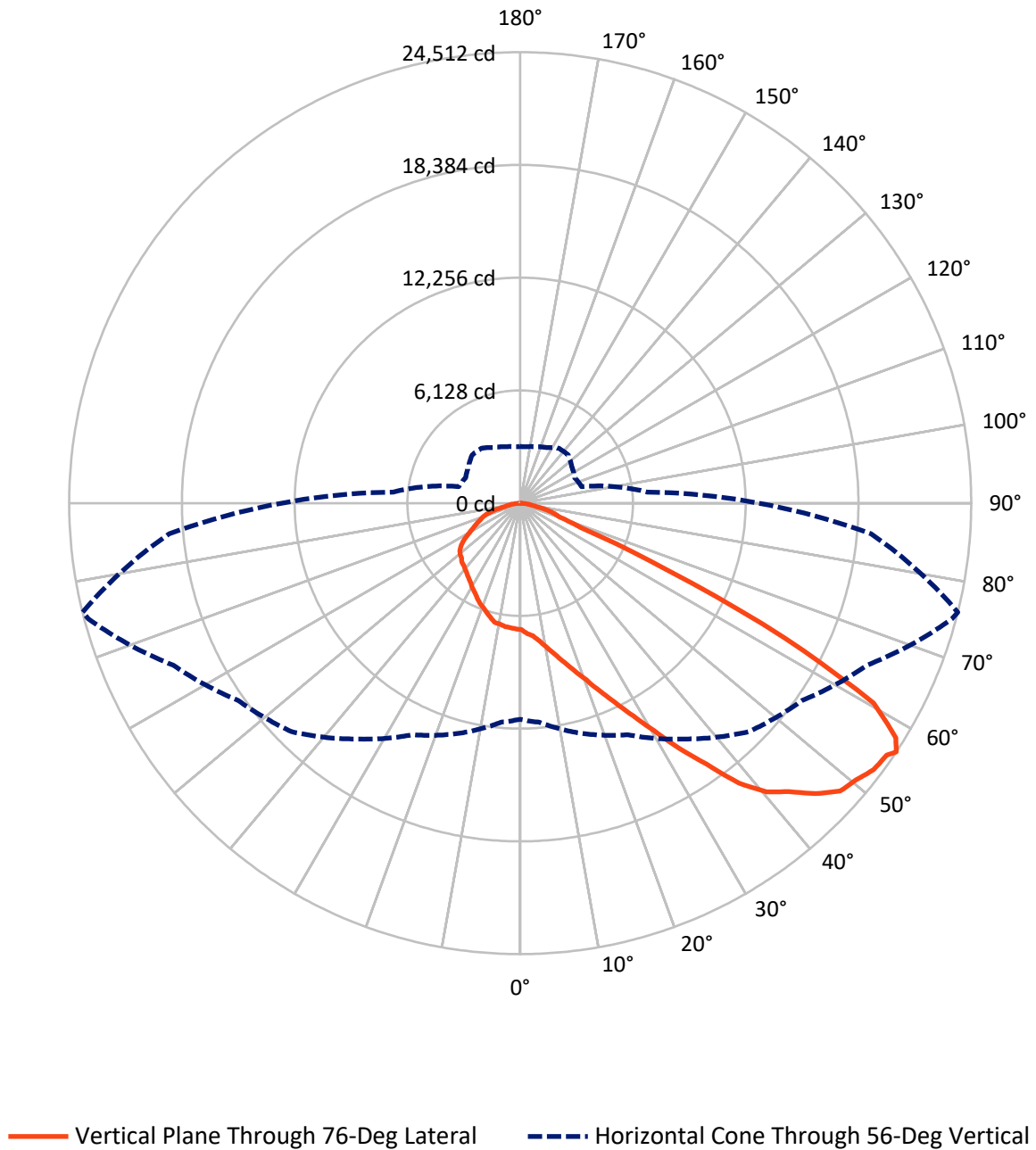


Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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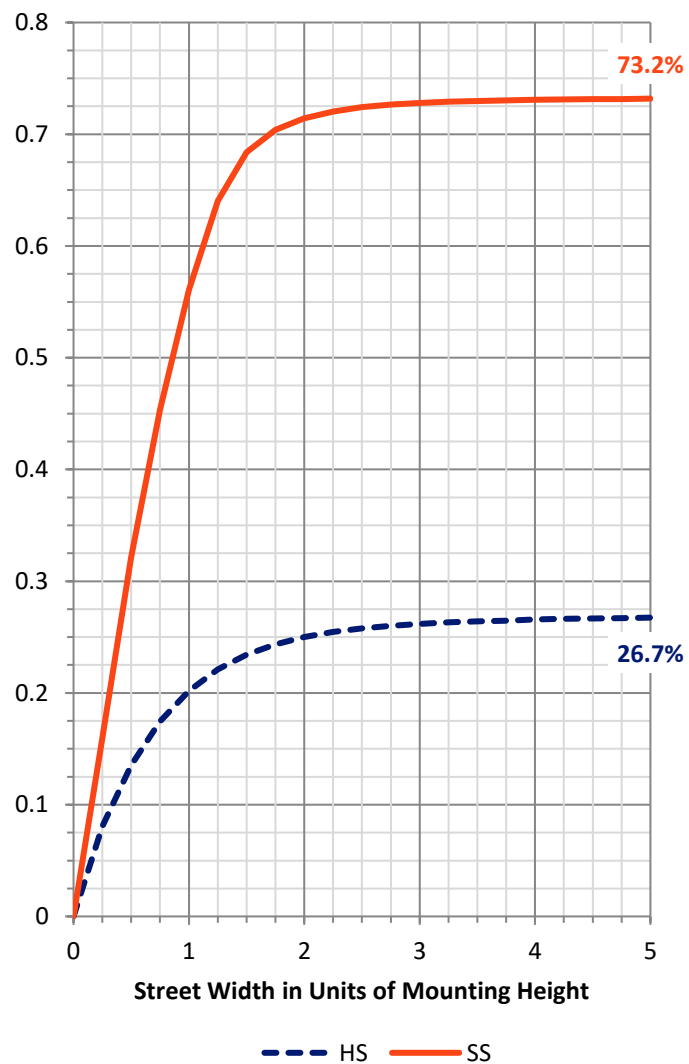
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9656.2	0.0	9656.2
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	26257.8	0.0	26257.8
	% Fixture	73.1	0.0	73.1
Total	Lumens	35914.0	0.0	35914.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	681.5	1.9
10°-20°	2140.7	6.0
20°-30°	3743.8	10.4
30°-40°	5861.7	16.3
40°-50°	8527.1	23.7
50°-60°	9371.8	26.1
60°-70°	4183.2	11.6
70°-80°	1208.3	3.4
80°-90°	196.0	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°	35914.0	100.0
0°-180°	35914.0	100.0

Coefficient of Utilization



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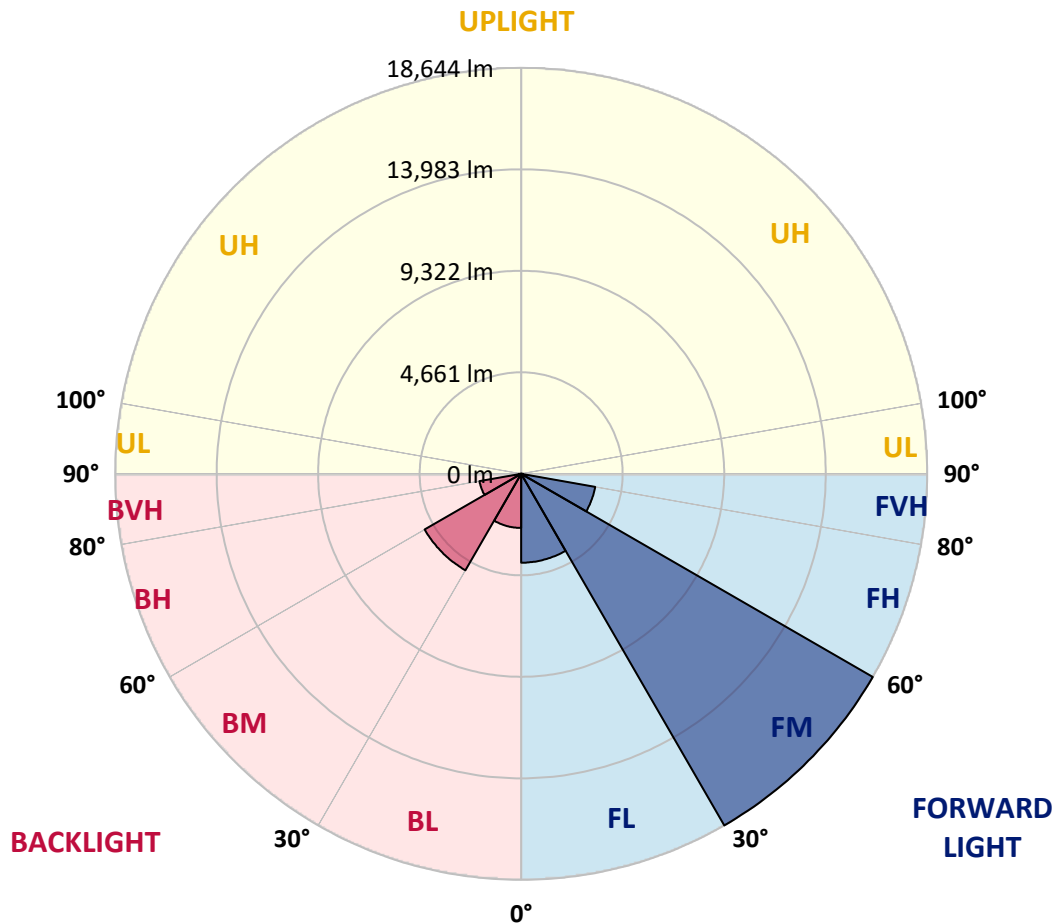
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4081.2	11.4			
FM	(30°-60°)	18643.6	51.9			
FH	(60°-80°)	3448.6	9.6			G2/5000
FVH	(80°-90°)	84.4	0.2			G1/100
BL	(0°-30°)	2484.7	6.9	B3/2500		
BM	(30°-60°)	5117.0	14.2	B4/8500		
BH	(60°-80°)	1942.8	5.4	B3/2500		G3/2500
BVH	(80°-90°)	111.6	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°	55°	65°	75°	76°	85°
0°	6871.7	6871.7	6871.7	6871.7	6871.7	6871.7	6871.7	6871.7	6871.7	6871.7	6871.7
2.5°	7570.0	7449.0	7439.7	7407.1	7425.7	7341.9	7253.4	7137.1	7016.0	7090.5	6913.6
5°	8100.8	7937.8	8003.0	7891.3	7905.2	7793.5	7611.9	7476.9	7327.9	7239.5	7113.8
7.5°	8287.0	8301.0	8347.5	8328.9	8235.8	8235.8	8114.7	7877.3	7616.6	7565.4	7355.9
10°	8538.4	8543.0	8491.8	8505.8	8636.2	8575.6	8468.6	8366.1	8030.9	7970.4	7598.0
12.5°	8626.8	8543.0	8626.8	8701.3	8855.0	8938.8	8915.5	8841.0	8482.5	8440.6	7895.9
15°	8640.8	8589.6	8659.4	8827.0	8962.1	9315.9	9492.8	9441.6	8966.7	8971.4	8231.1
17.5°	8575.6	8645.5	8673.4	8817.7	9129.7	9460.2	9972.3	10042.2	9651.1	9590.6	8654.8
20°	8664.1	8612.9	8650.1	8780.5	9194.8	9711.6	10382.0	10842.9	10293.6	10251.7	9092.4
22.5°	9004.0	8934.1	8924.8	9008.6	9306.6	9842.0	10815.0	11643.7	11075.7	11099.0	9637.1
25°	9269.3	9306.6	9274.0	9269.3	9455.5	10037.5	11387.6	12598.1	12137.2	12002.2	10279.6
27.5°	9725.6	9814.0	9748.9	9837.3	9795.4	10330.8	11797.3	13654.9	13282.5	13100.9	10861.5
30°	10358.7	10405.3	10344.8	10344.8	10219.1	10740.5	12169.8	14758.3	14604.7	14357.9	11545.9
32.5°	11192.1	11261.9	11140.9	11071.0	11052.4	11350.4	12840.2	15847.7	16108.4	15898.9	12453.8
35°	12295.5	12253.6	12109.2	12044.1	11792.7	12286.2	13836.5	17100.1	17784.4	17412.0	13552.5
37.5°	13268.5	13203.3	13194.0	12830.9	12891.4	13296.4	14683.8	18049.8	19409.2	19302.2	14711.7
40°	14176.3	14236.9	14334.6	14129.8	14036.7	14483.6	15670.8	18776.1	20670.9	20629.0	15605.6
42.5°	15149.4	15093.5	15265.8	15093.5	14953.8	15587.0	16741.6	19278.9	21779.0	21434.4	16541.4
45°	16560.0	16383.1	16443.6	16457.6	16355.2	16587.9	17183.9	19642.0	22556.4	22519.2	17225.8
47.5°	17737.9	17742.5	17640.1	17561.0	17249.0	17481.8	17677.4	19870.2	23450.3	23389.8	17491.1
50°	18175.5	18115.0	18412.9	18585.2	18603.8	18129.0	18063.8	19995.9	23920.5	23655.2	17756.5
52.5°	16601.9	16657.8	17128.0	18152.2	18743.5	18794.7	18515.4	20256.6	24111.4	24055.5	17970.7
55°	13361.6	13631.6	14404.5	15587.0	16988.3	18529.3	19004.2	20526.6	24213.8	24167.3	18920.4
56°	11746.1	11955.6	12961.2	13887.7	15647.5	17565.6	18696.9	20815.2	24293.0	24511.8	19143.9
57.5°	9455.5	9697.6	10419.3	11471.4	13547.8	15731.3	17849.6	20461.4	23985.7	24069.5	19306.8
60°	5912.6	5935.9	6801.8	7495.5	8957.4	11089.7	13622.3	17803.1	22198.0	22076.9	17342.2
62.5°	3878.1	3882.8	4669.6	5237.6	5903.3	6392.2	8017.0	11806.6	16378.4	16164.3	12346.7
65°	2723.5	2784.1	3393.9	4152.8	4422.8	4166.8	4115.6	6224.6	9148.3	8841.0	6634.2
67.5°	1992.6	1997.3	2537.3	3352.0	3743.1	3170.5	2574.6	3040.1	3622.1	3612.8	3072.7
70°	1317.5	1373.4	1787.8	2504.7	2951.7	2546.6	2104.3	2174.2	2304.5	2304.5	2285.9
72.5°	768.2	819.4	1094.1	1587.6	1657.4	1592.2	1666.7	1862.2	1946.0	1941.4	1918.1
75°	437.6	460.9	521.4	661.1	824.0	973.0	1224.4	1410.7	1494.5	1545.7	1485.1
77.5°	256.1	270.0	307.3	377.1	428.3	526.1	665.8	796.1	907.8	893.9	903.2
80°	135.0	135.0	172.3	223.5	298.0	372.4	442.3	516.8	577.3	591.3	605.2
82.5°	79.1	83.8	111.7	162.9	214.2	265.4	339.9	391.1	446.9	451.6	460.9
85°	41.9	46.6	69.8	107.1	144.3	162.9	167.6	158.3	172.3	162.9	186.2
87.5°	14.0	14.0	23.3	18.6	18.6	23.3	27.9	27.9	37.2	37.2	37.2
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°	6871.7	6871.7	6871.7	6871.7	6871.7	6871.7	6871.7	6871.7	6871.7	6871.7	6871.7
2.5°	6908.9	6908.9	6829.8	6680.8	6657.5	6597.0	6541.1	6536.5	6494.6	6457.3	6438.7
5°	7039.3	6895.0	6778.6	6643.6	6485.3	6410.8	6327.0	6233.9	6196.6	6233.9	6229.2
7.5°	7188.3	7067.2	6718.0	6466.6	6285.1	6210.6	6117.5	6019.7	6029.0	6029.0	5963.8
10°	7332.6	7169.6	6611.0	6289.7	6024.4	5968.5	5917.3	5954.5	6001.1	6010.4	5968.5
12.5°	7574.7	7206.9	6559.8	6112.8	5945.2	5824.2	5856.8	5959.2	6057.0	6029.0	6061.6
15°	7756.2	7239.5	6327.0	5931.2	5721.7	5777.6	5894.0	5963.8	6126.8	6108.2	6140.8
17.5°	7933.2	7258.1	6098.9	5689.2	5600.7	5754.3	5842.8	6043.0	6094.2	6205.9	6247.8
20°	8296.3	7295.3	5866.1	5540.2	5512.2	5689.2	5842.8	5935.9	6047.6	6145.4	6145.4
22.5°	8482.5	7276.7	5712.4	5344.6	5433.1	5544.8	5684.5	5842.8	5842.8	5935.9	5940.6
25°	8715.3	7202.2	5470.3	5251.5	5316.7	5423.8	5582.1	5526.2	5586.7	5586.7	5661.2
27.5°	8980.7	7043.9	5260.8	5083.9	5214.3	5330.7	5354.0	5316.7	5246.9	5237.6	5209.6
30°	9194.8	6848.4	5107.2	5028.1	5135.1	5200.3	5125.8	5046.7	4925.6	4916.3	4851.1
32.5°	9488.1	6606.3	4916.3	4888.4	5009.4	5014.1	4990.8	4869.8	4692.9	4618.4	4543.9
35°	9981.6	6466.6	4772.0	4813.9	4851.1	4837.2	4795.3	4664.9	4488.0	4455.4	4427.5
37.5°	10344.8	6364.2	4623.0	4674.2	4706.8	4725.4	4599.7	4455.4	4460.1	4394.9	4376.3
40°	10754.5	6299.0	4502.0	4525.3	4529.9	4590.4	4436.8	4367.0	4399.6	4357.7	4385.6
42.5°	11280.5	6317.7	4376.3	4357.7	4446.1	4422.8	4348.3	4255.2	4273.9	4148.1	4166.8
45°	11559.9	6443.4	4301.8	4218.0	4315.8	4311.1	4213.3	4124.9	4013.1	3771.0	3780.4
47.5°	11746.1	6476.0	4124.9	4069.0	4171.4	4232.0	4120.2	3915.4	3757.1	3584.8	3542.9
50°	11937.0	6536.5	4041.1	3924.7	3966.6	4110.9	3971.2	3775.7	3622.1	3468.4	3491.7
52.5°	12104.6	6652.9	3878.1	3705.9	3780.4	3938.6	3864.2	3626.7	3459.1	3333.4	3296.2
55°	12849.5	6913.6	3603.4	3380.0	3556.9	3757.1	3715.2	3426.5	3245.0	3179.8	3170.5
56°	12965.9	6922.9	3459.1	3268.2	3431.2	3696.6	3645.3	3338.1	3175.1	3072.7	3077.4
57.5°	12984.5	6811.2	3254.3	3165.8	3305.5	3608.1	3542.9	3268.2	3044.8	2951.7	2923.7
60°	11424.9	5316.7	2998.2	2942.3	3105.3	3338.1	3314.8	3077.4	2826.0	2718.9	2770.1
62.5°	7788.8	3896.7	2798.0	2788.7	2872.5	3100.6	3040.1	2826.0	2616.5	2546.6	2514.0
65°	4534.6	2956.3	2602.5	2565.2	2635.1	2756.1	2798.0	2574.6	2355.7	2309.2	2295.2
67.5°	2677.0	2444.2	2351.1	2290.6	2267.3	2341.8	2374.4	2244.0	2025.2	1960.0	2015.9
70°	2239.3	2174.2	2178.8	2076.4	2020.5	1969.3	1941.4	1825.0	1643.4	1559.6	1536.4
72.5°	1932.1	1904.1	1885.5	1792.4	1741.2	1624.8	1503.8	1387.4	1252.4	1182.5	1187.2
75°	1475.8	1466.5	1475.8	1429.3	1340.8	1247.7	1136.0	987.0	884.6	796.1	814.7
77.5°	879.9	907.8	921.8	903.2	865.9	782.1	712.3	614.5	516.8	446.9	437.6
80°	605.2	628.5	651.8	628.5	591.3	530.7	456.2	381.8	311.9	274.7	265.4
82.5°	460.9	484.2	498.2	474.9	428.3	363.1	311.9	260.7	204.8	167.6	158.3
85°	167.6	190.9	186.2	223.5	242.1	232.8	200.2	153.6	116.4	83.8	79.1
87.5°	46.6	41.9	46.6	46.6	46.6	41.9	37.2	37.2	37.2	23.3	18.6
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)