

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: P533262

Luminaire Tested: **GALN-SA8C-830-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533262
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-830-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38462 lumens
Efficiency: N/A
Efficacy: 89.7 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): 429
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



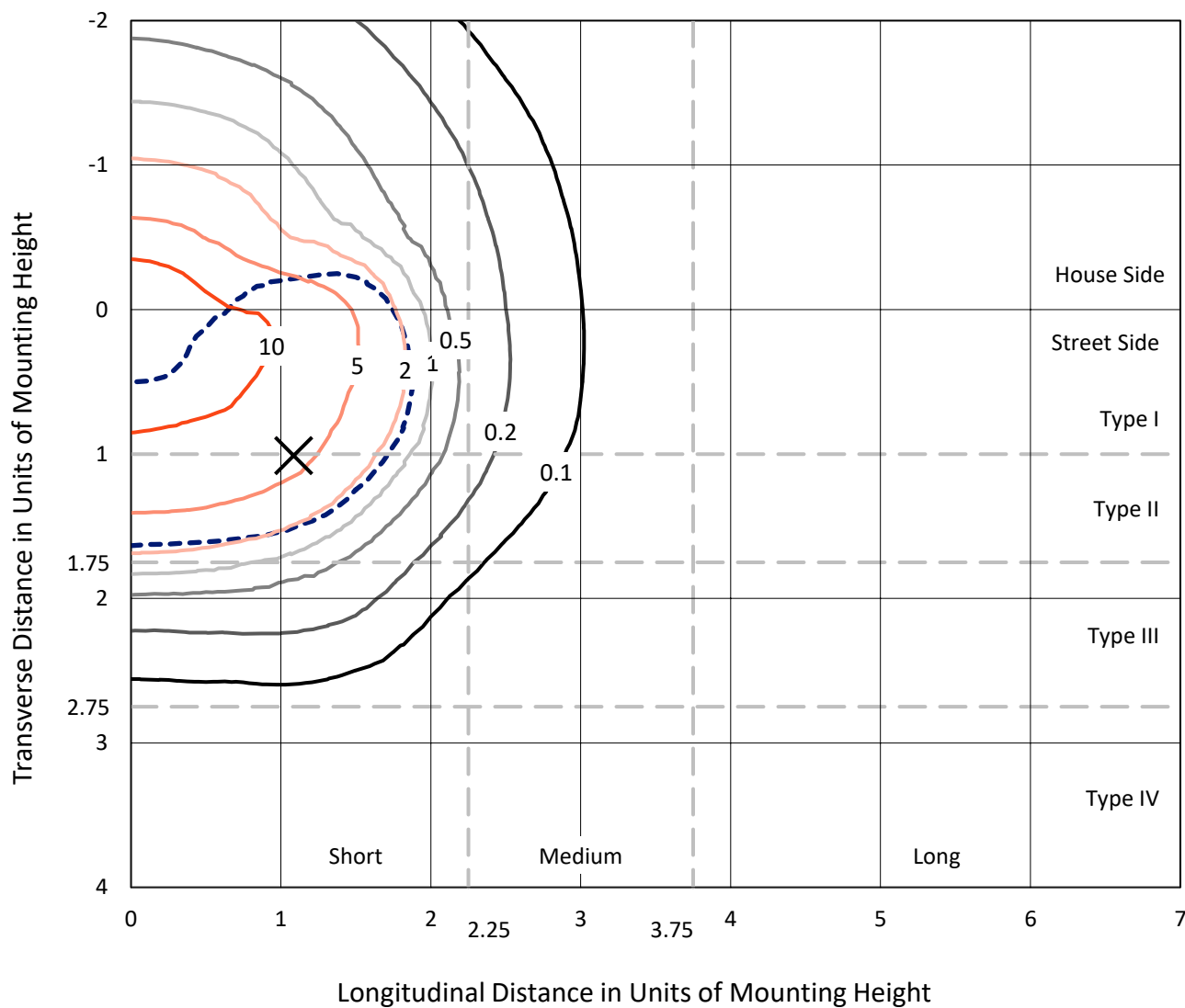
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

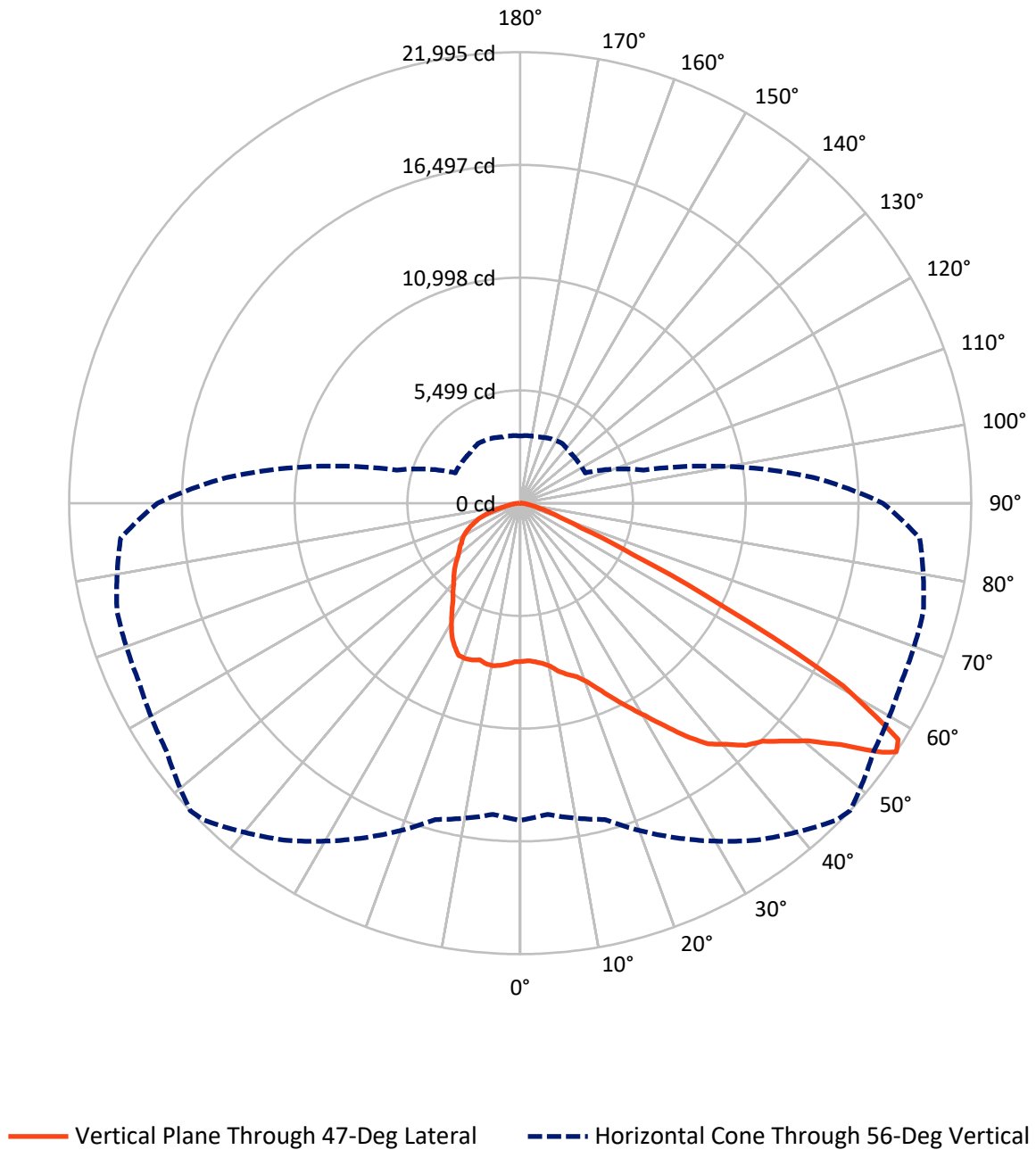
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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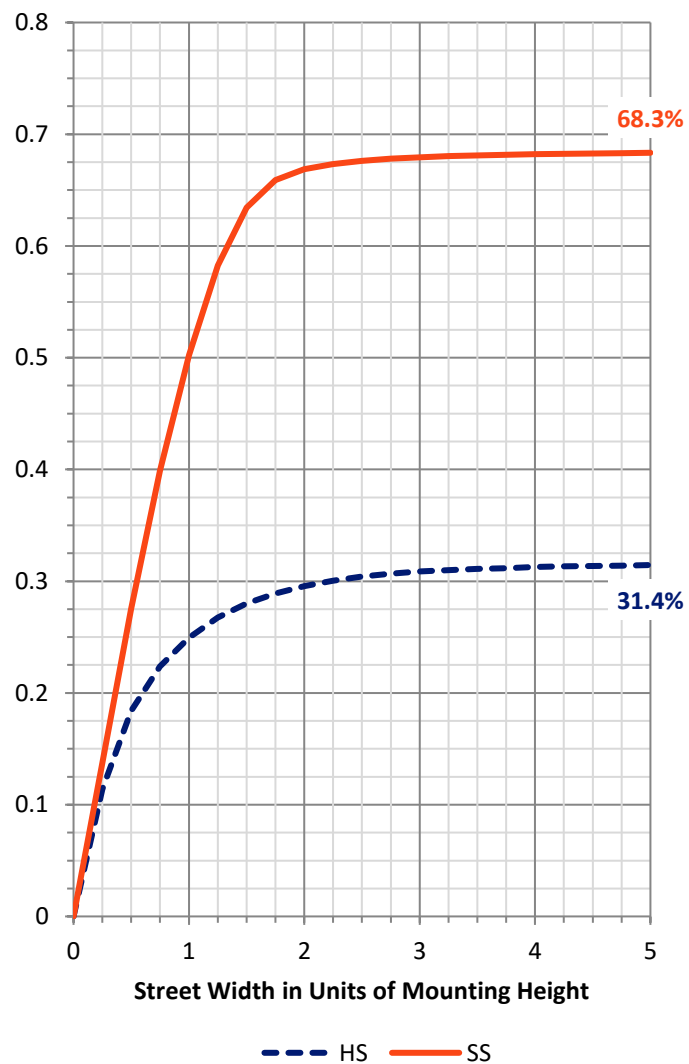
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12188.1	0.0	12188.1
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	26273.9	0.0	26273.9
	% Fixture	68.3	0.0	68.3
Total	Lumens	38462.0	0.0	38462.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	752.8	2.0
10°-20°	2374.6	6.2
20°-30°	4197.8	10.9
30°-40°	6304.9	16.4
40°-50°	8652.9	22.5
50°-60°	10308.8	26.8
60°-70°	4411.6	11.5
70°-80°	1248.5	3.2
80°-90°	210.1	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°	38462.0	100.0
0°-180°	38462.0	100.0

Coefficient of Utilization



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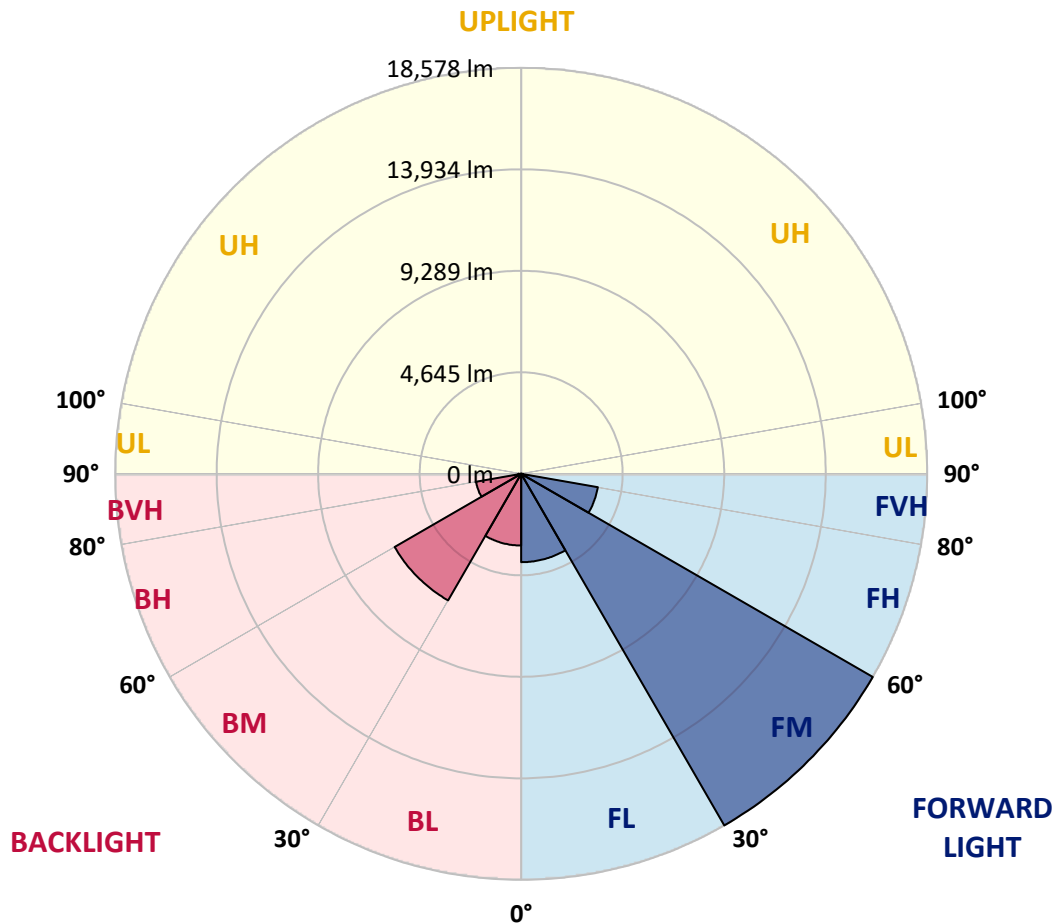
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4043.7	10.5			
FM	(30°-60°)	18578.0	48.3			
FH	(60°-80°)	3563.0	9.3			G2/5000
FVH	(80°-90°)	89.2	0.2			G1/100
BL	(0°-30°)	3281.6	8.5	B4/5000		
BM	(30°-60°)	6688.6	17.4	B4/8500		
BH	(60°-80°)	2097.0	5.5	B3/2500		G3/2500
BVH	(80°-90°)	120.9	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°	47°	55°	65°	75°	85°
0°	7725.8	7725.8	7725.8	7725.8	7725.8	7725.8	7725.8	7725.8	7725.8	7725.8	7725.8
2.5°	7696.4	7681.7	7671.9	7750.4	7720.9	7725.8	7696.4	7725.8	7745.5	7701.3	7765.1
5°	7681.7	7725.8	7686.6	7711.1	7774.9	7755.3	7774.9	7833.8	7819.0	7804.3	7784.7
7.5°	7819.0	7824.0	7853.4	7863.2	7882.8	7863.2	7892.6	7946.6	7931.9	7848.5	7858.3
10°	8015.3	8025.1	8030.0	8083.9	8118.3	8123.2	8088.8	8039.8	8034.9	8147.7	8069.2
12.5°	8240.9	8216.4	8275.2	8294.9	8334.1	8378.3	8422.4	8319.4	8383.2	8388.1	8294.9
15°	8569.6	8594.1	8525.4	8525.4	8540.1	8545.0	8667.7	8618.6	8608.8	8554.8	8594.1
17.5°	9060.1	8893.3	8888.4	8819.7	8809.9	8849.2	8893.3	8932.6	9065.0	8957.1	8746.1
20°	9418.2	9457.4	9315.2	9231.8	9246.5	9334.8	9290.6	9467.2	9560.4	9383.8	9177.8
22.5°	10051.0	9918.5	9952.9	9766.5	9781.2	9874.4	9869.5	10051.0	10104.9	9825.3	9526.1
25°	10477.7	10443.4	10472.8	10325.7	10345.3	10418.9	10536.6	10835.8	10747.5	10438.5	9746.8
27.5°	11100.7	11032.0	11007.5	10953.5	10933.9	11130.1	11267.5	11586.3	11522.5	11071.3	10139.3
30°	11738.4	11694.2	11718.8	11498.0	11576.5	11993.5	12032.7	12469.3	12439.8	11645.2	10575.8
32.5°	12179.9	12204.4	12248.5	12125.9	12474.2	12807.7	12940.2	13435.6	13460.1	12631.1	11419.5
35°	12891.1	12807.7	12832.3	12974.5	13136.4	13744.7	13960.5	14289.1	14495.2	13666.2	12228.9
37.5°	13337.5	13425.8	13322.8	13548.4	13970.3	14701.2	14897.4	15235.9	15451.7	14686.5	13332.6
40°	14034.1	13891.8	13965.4	14127.3	14558.9	15510.6	15456.6	15804.9	15873.6	15554.7	14362.7
42.5°	14784.6	14715.9	14612.9	14980.8	15343.8	16035.4	16143.3	15981.5	16329.7	16403.3	15834.3
45°	15682.2	15765.6	15780.3	15790.2	16109.0	16712.4	16565.2	16422.9	16825.2	17359.9	16746.7
47.5°	16516.1	16251.3	16442.6	16707.5	17158.7	17163.6	17335.3	16996.9	17423.6	17899.4	17570.8
50°	16795.7	16668.2	16923.3	17423.6	18120.2	18193.8	18213.4	17732.7	17953.4	18331.1	17855.3
52.5°	16687.8	16643.7	17296.1	18071.1	19091.4	19464.2	19562.3	18968.8	19091.4	18919.7	18483.2
55°	16172.8	16305.2	16962.5	18542.0	20106.8	21259.6	21446.0	20695.5	19915.5	20048.0	19567.2
56°	15466.4	15235.9	15971.7	18007.4	20062.7	21843.3	21995.4	21058.5	20528.7	20357.0	19557.4
57.5°	13121.7	12822.5	13788.8	16202.2	18949.2	21622.6	21735.4	21210.5	20425.7	20077.4	18130.0
60°	7681.7	7828.9	9055.2	11174.3	14617.8	17727.8	18105.5	18488.1	17963.2	16403.3	13494.5
62.5°	3708.4	3615.2	4493.3	6406.3	8908.0	11316.5	11203.7	12278.0	12866.6	11655.0	8520.5
65°	1942.5	1932.7	2452.6	3497.5	4895.5	5945.2	6048.2	6627.1	7436.4	6004.1	4326.5
67.5°	1427.4	1466.7	1726.7	2457.6	3149.2	3213.0	3198.3	3487.7	3566.2	3016.8	2658.7
70°	1118.4	1138.0	1329.3	1868.9	2344.7	2099.5	2055.3	2089.7	2320.2	2418.3	2300.6
72.5°	809.4	829.0	990.9	1260.7	1466.7	1432.3	1461.8	1653.1	1937.6	2040.6	1918.0
75°	539.6	554.3	642.6	770.1	868.2	936.9	990.9	1211.6	1476.5	1535.4	1476.5
77.5°	372.8	387.5	446.4	544.5	554.3	598.4	618.1	721.1	883.0	956.5	917.3
80°	210.9	210.9	240.4	279.6	343.4	402.2	412.0	495.4	569.0	618.1	627.9
82.5°	98.1	103.0	127.5	171.7	225.6	279.6	289.4	343.4	397.3	446.4	461.1
85°	49.1	54.0	73.6	103.0	137.3	166.8	161.9	166.8	176.6	166.8	171.7
87.5°	14.7	14.7	19.6	24.5	19.6	24.5	24.5	29.4	34.3	39.2	44.1
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°	7725.8	7725.8	7725.8	7725.8	7725.8	7725.8	7725.8	7725.8	7725.8	7725.8	7725.8
2.5°	7770.0	7784.7	7686.6	7779.8	7745.5	7740.6	7809.2	7799.4	7824.0	7814.1	7755.3
5°	7774.9	7740.6	7843.6	7750.4	7794.5	7887.7	7824.0	7971.1	7897.5	7946.6	7838.7
7.5°	7927.0	7936.8	7917.2	7956.4	7936.8	7980.9	7946.6	7980.9	7922.1	7927.0	8025.1
10°	8059.4	8030.0	8064.3	8015.3	8049.6	8034.9	7956.4	7931.9	7951.5	7927.0	7990.7
12.5°	8304.7	8250.7	8226.2	8167.3	8128.1	7980.9	7858.3	7789.6	7882.8	7897.5	7868.1
15°	8554.8	8559.7	8446.9	8314.5	8069.2	7848.5	7877.9	7902.4	7902.4	7941.7	7868.1
17.5°	8711.8	8711.8	8608.8	8343.9	8093.7	7966.2	7936.8	7858.3	7789.6	7779.8	7774.9
20°	8986.5	8903.1	8667.7	8339.0	8083.9	8025.1	7804.3	7617.9	7475.7	7426.6	7421.7
22.5°	9300.4	9089.5	8760.9	8348.8	8069.2	7985.8	7573.8	7294.2	7039.1	6931.2	6945.9
25°	9589.9	9251.4	8814.8	8304.7	8015.3	7613.0	7151.9	6764.4	6499.5	6411.2	6367.1
27.5°	9791.0	9423.1	8814.8	8343.9	7814.1	7196.1	6725.2	6229.7	5999.2	5940.3	5950.1
30°	10060.8	9638.9	8966.9	8260.5	7411.9	6656.5	6092.4	5768.6	5631.3	5582.2	5616.6
32.5°	10693.6	10203.0	9177.8	8059.4	6936.1	6116.9	5660.7	5479.2	5278.1	5180.0	5145.7
35°	11380.3	10737.7	9383.8	7720.9	6401.4	5626.4	5341.9	5175.1	4934.7	4826.8	4846.4
37.5°	12351.5	11424.4	9398.6	7161.7	5822.6	5351.7	5091.7	4831.7	4635.5	4468.7	4419.7
40°	13661.3	12361.4	9364.2	6573.1	5356.6	5027.9	4836.6	4512.9	4292.1	4174.4	4198.9
42.5°	14814.0	13460.1	9222.0	5906.0	4934.7	4807.2	4591.4	4272.5	4056.7	3934.1	3924.2
45°	15785.3	14269.5	8952.2	5337.0	4581.6	4561.9	4311.8	4066.5	3894.8	3782.0	3831.0
47.5°	16682.9	14921.9	8545.0	4768.0	4257.8	4297.0	4056.7	3904.6	3796.7	3693.7	3688.8
50°	17006.7	14912.1	8186.9	4297.0	3997.8	3978.2	3968.4	3806.5	3693.7	3605.4	3644.6
52.5°	17546.3	15078.9	7799.4	3973.3	3762.4	3767.3	3801.6	3683.9	3556.3	3502.4	3551.4
55°	18321.3	15103.4	6945.9	3595.6	3566.2	3600.5	3600.5	3522.0	3414.1	3369.9	3345.4
56°	17688.5	14372.5	6229.7	3497.5	3468.0	3468.0	3561.2	3473.0	3340.5	3306.2	3276.7
57.5°	16315.0	12591.9	5214.3	3379.8	3335.6	3404.3	3453.3	3360.1	3237.5	3188.4	3217.9
60°	11252.8	8520.5	3919.3	3124.7	3124.7	3237.5	3276.7	3139.4	3085.4	3080.5	3041.3
62.5°	6568.2	4964.2	3065.8	2894.1	2903.9	2997.1	3026.6	2948.1	2879.4	2962.8	3002.0
65°	3482.8	2962.8	2629.2	2648.9	2653.8	2727.3	2854.9	2850.0	2845.1	2869.6	2874.5
67.5°	2521.3	2462.5	2388.9	2369.3	2379.1	2433.0	2560.6	2658.7	2653.8	2594.9	2550.8
70°	2246.6	2163.2	2119.1	2124.0	2084.8	2148.5	2251.5	2315.3	2202.5	2133.8	2104.4
72.5°	1868.9	1844.4	1815.0	1819.9	1741.4	1726.7	1608.9	1608.9	1579.5	1559.9	1594.2
75°	1427.4	1417.6	1432.3	1407.8	1324.4	1236.1	1167.5	1103.7	1005.6	966.3	946.7
77.5°	902.6	932.0	966.3	912.4	878.0	814.3	745.6	681.8	603.4	559.2	559.2
80°	613.2	637.7	662.2	652.4	613.2	554.3	500.3	431.7	377.7	343.4	338.5
82.5°	466.0	485.6	520.0	480.7	441.5	392.4	348.3	299.2	250.2	210.9	210.9
85°	166.8	191.3	210.9	230.5	245.3	250.2	215.8	176.6	142.3	112.8	107.9
87.5°	44.1	49.1	54.0	49.1	49.1	49.1	54.0	49.1	44.1	34.3	34.3
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)