

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: P269159

Luminaire Tested: **GLEON-AF-03-LED-E1-SL3-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269159
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-SL3-7027-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14796.8 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 191
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: 25 FT

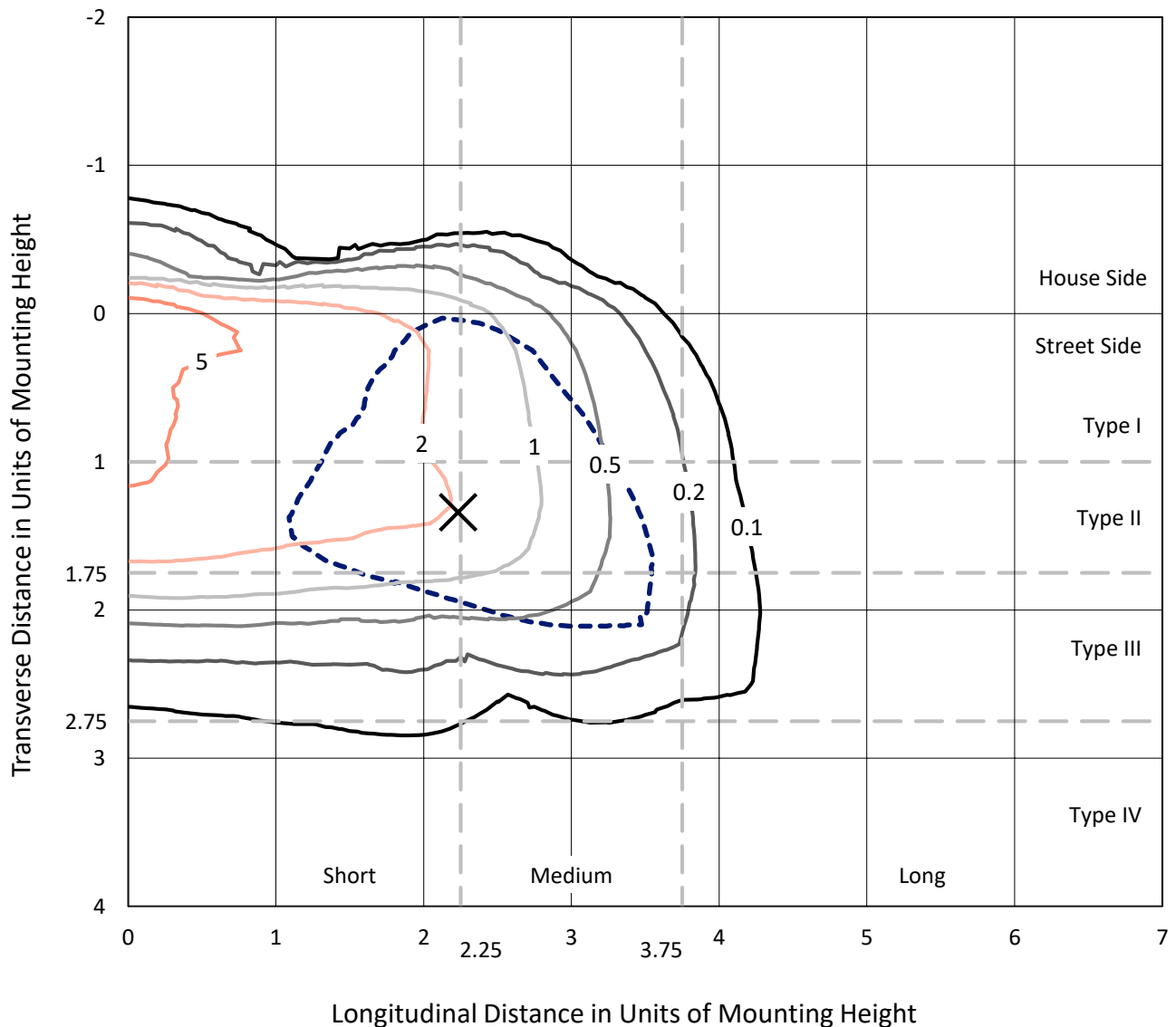


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

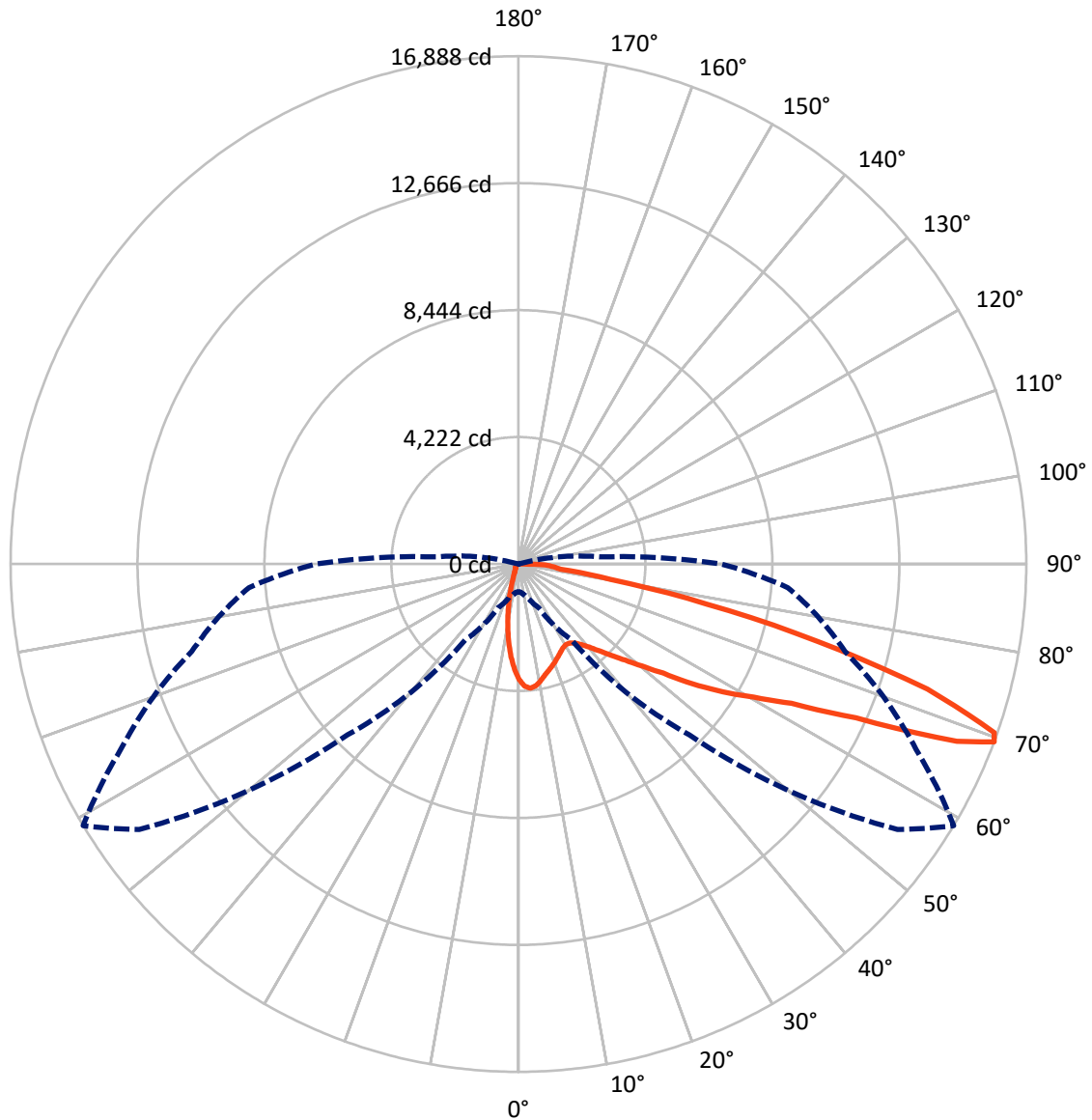


Based on 20 foot mounting height. Maximum calculated value = 9.7 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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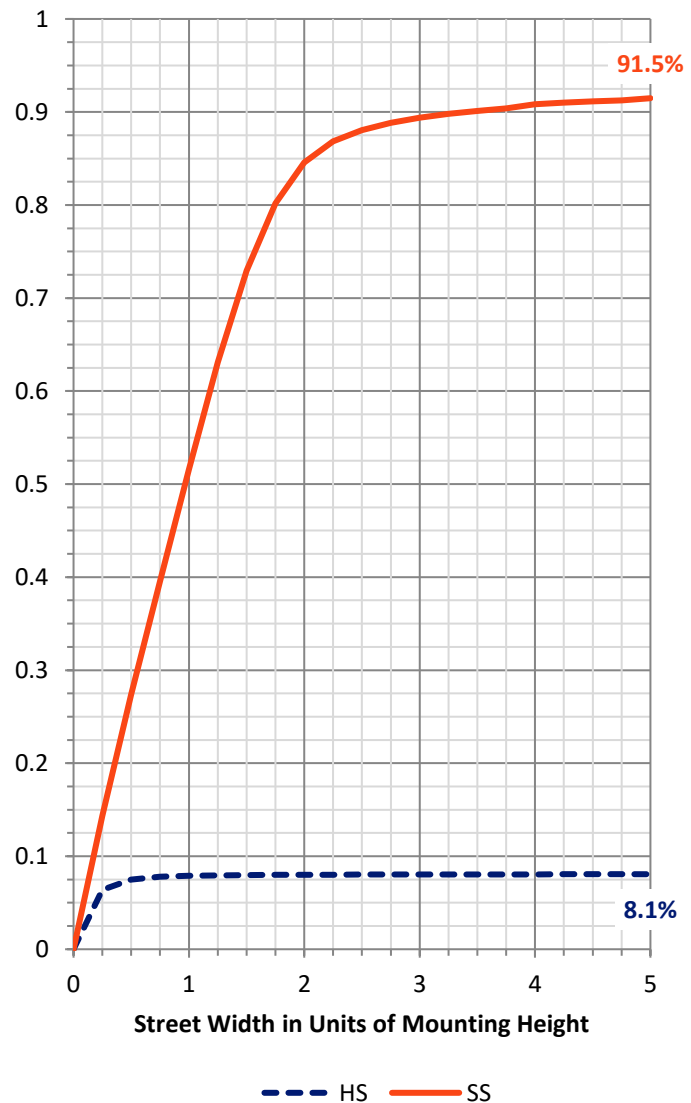
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1205.0	0.0	1205.0
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	13591.8	0.0	13591.8
	% Fixture	91.9	0.0	91.9
Total	Lumens	14796.8	0.0	14796.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.6	2.1
10°-20°	646.0	4.4
20°-30°	869.2	5.9
30°-40°	1262.1	8.5
40°-50°	2101.4	14.2
50°-60°	3278.2	22.2
60°-70°	4056.5	27.4
70°-80°	2055.8	13.9
80°-90°	215.1	1.5
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°	14796.8	100.0
0°-180°	14796.8	100.0



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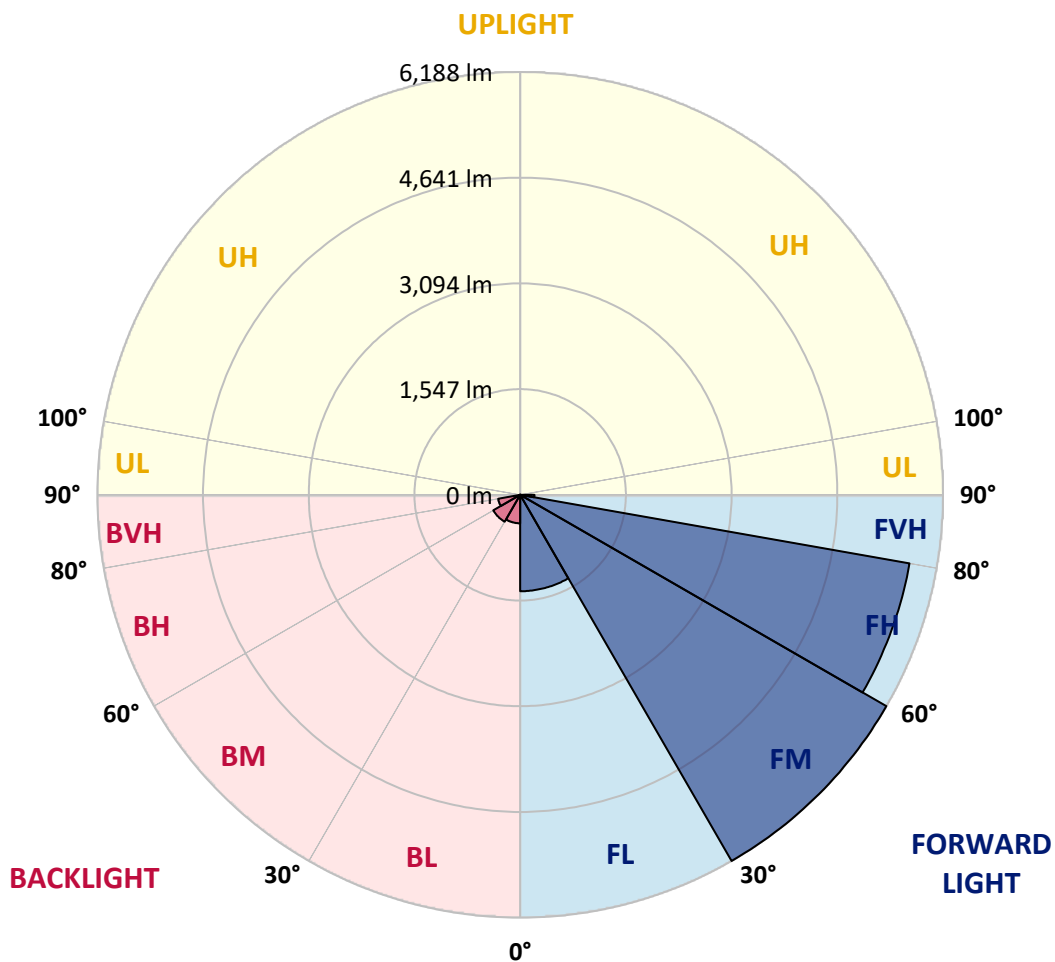
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1410.7	9.5			
FM (30°-60°)	6187.6	41.8			
FH (60°-80°)	5785.0	39.1			G3/7500
FVH (80°-90°)	208.5	1.4			G2/225
BL (0°-30°)	417.1	2.8	B1/500		
BM (30°-60°)	454.1	3.1	B1/1000		
BH (60°-80°)	327.3	2.2	B1/500		G1/500
BVH (80°-90°)	6.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3851.5	3851.5	3851.5	3851.5	3851.5	3851.5	3851.5	3851.5	3851.5	3851.5	3851.5
2.5°	4221.2	4219.6	4201.2	4192.7	4177.7	4145.9	4096.6	4070.6	4028.8	3956.0	3858.1
5°	4182.8	4202.8	4213.7	4214.6	4225.4	4213.7	4169.4	4147.7	4089.9	3972.8	3797.0
7.5°	3921.7	3929.2	3960.2	3986.9	4038.8	4088.1	4104.0	4095.0	4060.6	3935.0	3701.6
10°	3642.2	3649.8	3686.6	3721.7	3791.9	3868.1	3948.5	3965.2	3979.4	3881.5	3609.6
12.5°	3401.3	3408.8	3446.4	3492.5	3574.4	3668.1	3792.9	3820.4	3883.3	3830.6	3536.0
15°	3193.7	3197.1	3233.9	3290.9	3388.6	3509.1	3650.6	3695.0	3791.1	3794.5	3471.5
17.5°	3017.1	3025.6	3048.2	3102.6	3209.6	3358.6	3523.4	3587.0	3699.9	3764.3	3408.8
20°	2909.3	2917.7	2916.7	2946.9	3043.2	3202.1	3396.2	3472.4	3609.6	3733.4	3352.7
22.5°	2888.3	2888.3	2866.6	2862.4	2919.3	3052.4	3264.0	3356.8	3528.5	3720.1	3313.4
25°	2962.8	2959.5	2905.1	2860.7	2863.3	2942.8	3136.1	3246.5	3459.8	3729.3	3292.5
27.5°	3120.2	3116.0	3047.3	2962.8	2895.1	2894.2	3039.0	3157.7	3405.5	3772.7	3300.8
30°	3337.7	3335.9	3261.6	3155.2	3032.3	2919.3	3005.5	3113.4	3370.4	3851.5	3320.0
32.5°	3575.3	3572.7	3516.8	3404.5	3249.0	3032.3	3040.7	3131.0	3380.3	3956.0	3366.9
35°	3827.1	3822.9	3798.8	3700.7	3529.4	3240.5	3156.0	3226.4	3443.9	4112.5	3459.1
37.5°	4100.0	4104.0	4121.7	4028.0	3848.1	3532.7	3349.4	3397.1	3571.9	4325.0	3608.8
40°	4502.3	4501.5	4507.3	4384.4	4211.3	3889.9	3619.6	3634.7	3786.1	4607.0	3836.3
42.5°	5232.8	5181.9	5026.9	4776.0	4601.9	4298.2	3960.2	3944.3	4048.0	4955.9	4155.1
45°	6214.2	6105.5	5703.9	5222.7	5000.2	4758.4	4379.3	4328.4	4394.4	5375.1	4548.4
47.5°	7058.5	6945.5	6377.4	5688.0	5422.8	5195.2	4870.5	4778.4	4800.3	5844.5	5047.0
50°	7345.5	7290.4	6794.2	6092.9	5831.9	5744.9	5440.3	5328.1	5297.2	6387.5	5625.2
52.5°	7246.0	7241.7	6911.3	6355.7	6206.7	6313.8	6157.4	6027.6	5913.9	6959.8	6213.4
55°	7086.2	7107.1	6959.0	6585.8	6580.8	6833.4	7138.0	7030.0	6700.4	7581.4	6720.5
57.5°	6645.2	6734.8	6932.2	7021.0	7226.8	7485.2	7954.8	8018.2	7628.3	8057.5	7141.3
60°	5391.7	5588.4	6234.3	7083.7	8059.2	8703.5	8940.3	8994.6	8389.8	8453.3	7709.6
62.5°	3827.1	4028.0	4847.2	6283.7	8071.8	10304.2	10408.8	10195.5	9228.2	9039.9	8689.3
65°	2031.5	2186.4	2855.7	4535.8	6998.2	10675.6	12976.6	12340.7	10707.4	10193.7	9955.2
67.5°	1039.2	1086.1	1352.0	2219.8	4811.1	9482.5	15278.5	15726.1	13256.9	11338.3	9894.2
69°	919.5	947.2	1123.7	1604.8	3080.7	8031.7	15390.7	16888.2	14591.4	11242.9	8991.3
70°	890.3	914.6	1075.2	1452.5	2408.0	6735.6	14961.4	16786.2	14932.9	10879.8	8317.0
72.5°	755.6	776.5	957.2	1283.5	1957.0	3343.5	12153.3	14224.2	13399.9	9063.3	6020.3
75°	505.3	573.9	918.6	1203.2	1820.7	1899.3	8012.4	10279.0	9548.7	6113.1	3136.1
77.5°	121.4	130.6	259.4	957.2	1665.1	1671.7	4120.9	6390.1	5211.8	2178.7	741.3
80°	65.2	62.7	72.9	189.9	1550.5	1568.8	1855.0	3101.7	1860.8	361.5	244.2
82.5°	46.1	43.5	46.8	79.5	487.8	1429.2	1342.1	1404.1	771.5	138.9	109.7
85°	16.8	15.9	26.0	72.0	153.2	821.7	1378.9	1158.0	625.0	63.6	80.3
87.5°	5.8	5.0	10.1	39.3	46.8	349.7	851.0	875.2	246.0	38.4	37.6
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°	3851.5	3851.5	3851.5	3851.5	3851.5	3851.5	3851.5	3851.5	3851.5	3851.5	3851.5
2.5°	3817.1	3765.2	3669.8	3571.9	3481.7	3372.7	3318.3	3264.9	3242.3	3233.9	3194.6
5°	3706.6	3618.8	3416.3	3213.0	3025.6	2826.4	2695.1	2589.6	2527.7	2497.6	2449.9
7.5°	3565.3	3421.4	3114.2	2800.5	2508.4	2220.6	2007.4	1843.3	1730.3	1676.0	1626.7
10°	3428.0	3236.5	2799.7	2372.1	1975.6	1594.0	1299.4	1086.1	949.7	886.9	846.7
12.5°	3305.0	3056.6	2495.9	1954.5	1456.7	1010.0	710.4	540.5	456.0	426.8	412.5
15°	3195.5	2890.8	2208.9	1558.0	986.5	577.3	388.2	330.4	317.1	317.1	315.5
17.5°	3091.6	2728.5	1932.0	1185.7	619.2	353.2	295.4	287.8	287.8	291.2	291.2
20°	2992.2	2573.7	1664.2	851.0	390.0	280.4	266.8	265.2	266.8	271.1	271.1
22.5°	2906.7	2433.1	1414.0	584.0	289.6	252.8	246.0	243.5	244.2	246.9	248.6
25°	2843.1	2314.4	1178.0	395.8	249.3	230.1	222.6	218.4	215.1	215.1	216.8
27.5°	2803.0	2214.0	949.7	287.8	224.2	209.1	197.4	190.8	183.3	179.0	180.6
30°	2773.6	2118.6	735.5	235.1	200.9	185.8	170.7	159.8	148.8	143.9	145.5
32.5°	2762.8	2041.6	549.8	207.5	179.9	163.1	144.7	130.6	118.8	114.7	115.4
35°	2792.1	1980.6	402.5	187.4	163.1	142.2	121.4	105.5	96.2	93.8	94.5
37.5°	2869.0	1947.9	301.2	170.7	148.1	124.7	101.2	86.1	80.3	80.3	81.1
40°	3014.7	1947.0	241.9	159.0	134.7	107.9	83.7	72.9	69.4	71.1	72.0
42.5°	3227.3	1991.5	210.8	148.1	123.0	92.0	69.4	62.0	61.1	62.7	63.6
45°	3517.6	2072.6	194.2	138.9	110.4	77.0	58.6	53.5	53.5	56.1	57.0
47.5°	3873.1	2191.3	179.9	129.6	97.8	64.4	50.2	46.8	47.7	50.2	51.1
50°	4301.5	2341.2	165.6	119.7	88.8	53.5	43.5	41.1	41.9	45.2	46.1
52.5°	4789.4	2542.8	154.0	110.4	77.0	44.3	36.8	35.2	36.8	40.2	41.1
55°	5207.7	2723.5	139.7	102.9	62.0	36.8	30.2	30.2	31.8	36.0	36.8
57.5°	5610.2	2912.7	127.2	88.8	48.5	29.3	25.2	26.0	28.4	32.6	33.4
60°	6200.9	3233.1	112.1	74.5	36.8	23.4	20.9	21.7	25.2	29.3	30.2
62.5°	7204.1	3720.9	97.0	62.0	28.4	18.4	16.8	18.4	22.5	27.6	28.4
65°	8109.4	3919.1	79.5	51.9	21.7	14.3	14.3	16.8	21.7	26.8	27.6
67.5°	7605.0	3299.1	62.0	41.1	16.8	10.9	11.7	15.9	20.9	26.8	27.6
69°	6725.5	2697.6	52.7	32.6	14.3	10.1	10.9	15.9	20.9	26.0	26.8
70°	6040.3	2277.6	46.8	27.6	12.5	10.1	10.9	15.0	20.9	26.0	26.8
72.5°	4045.5	1230.0	37.6	20.1	11.7	9.3	9.3	15.0	20.1	25.2	26.0
75°	1738.7	339.6	30.2	14.3	10.1	8.4	8.4	14.3	19.3	24.3	26.0
77.5°	318.0	86.1	24.3	12.5	10.1	8.4	7.5	13.4	18.4	23.4	24.3
80°	126.3	42.7	19.3	10.9	9.3	7.5	6.6	12.5	17.5	22.5	23.4
82.5°	76.1	24.3	15.9	10.1	9.3	6.6	5.8	10.9	16.8	21.7	22.5
85°	62.0	16.8	12.5	10.1	8.4	6.6	5.0	10.1	15.0	20.9	21.7
87.5°	30.2	11.7	11.7	9.3	8.4	6.6	5.0	9.3	14.3	20.1	20.9
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)