

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: P532796

Luminaire Tested: **GALN-SA8A-830-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532796
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-830-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25616 lumens
Efficiency: N/A
Efficacy: 105.0 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): 244
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

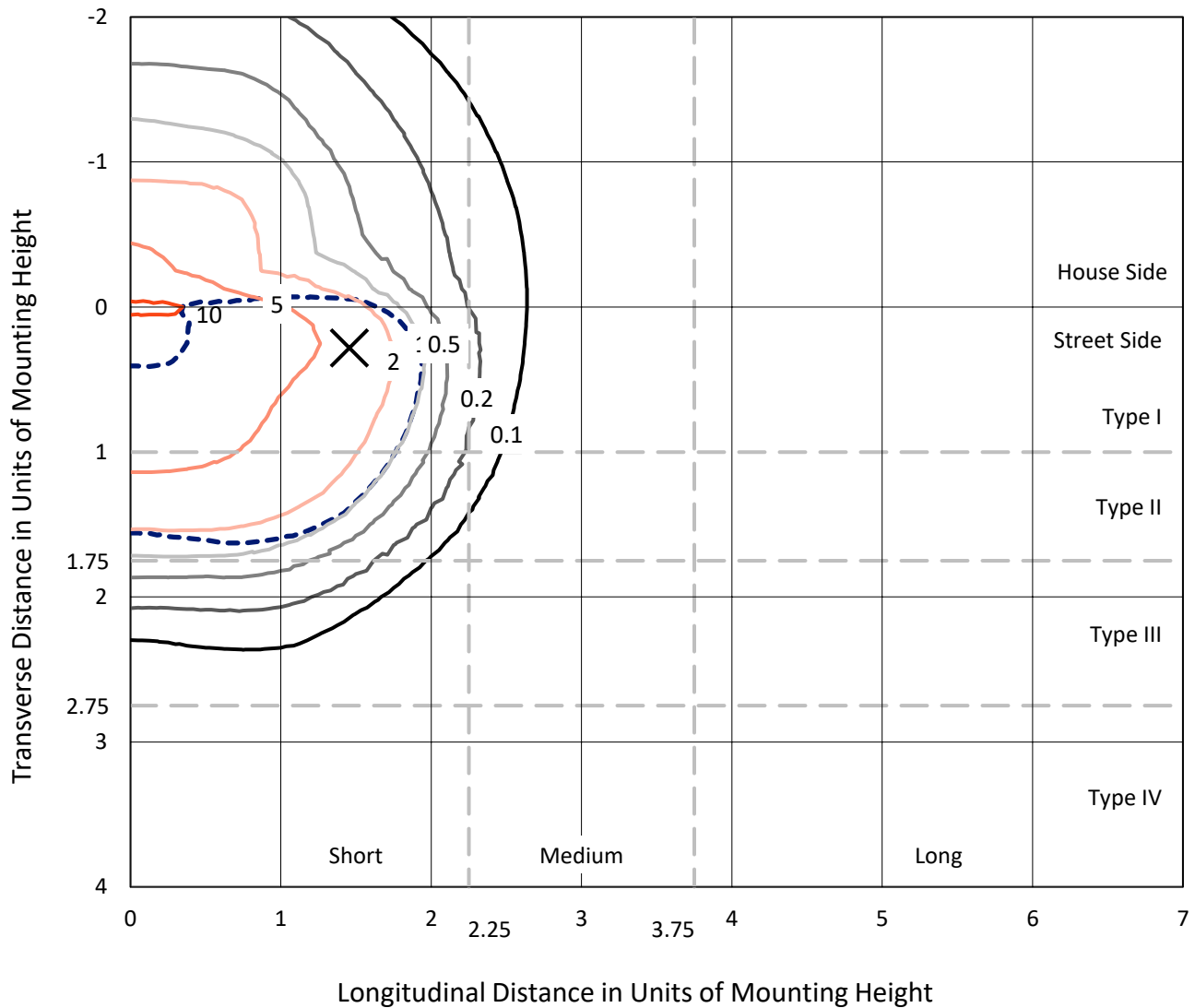


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

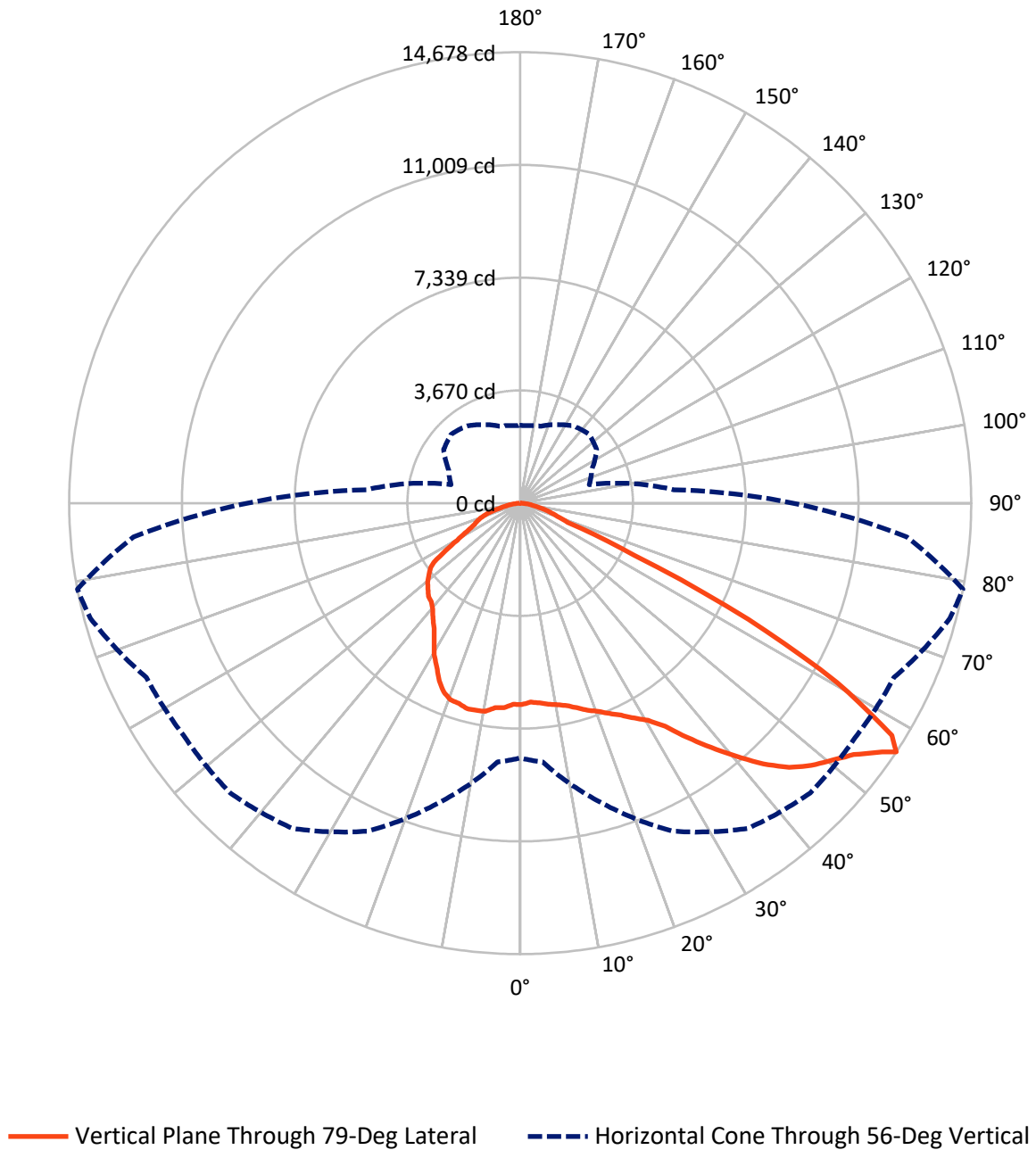


Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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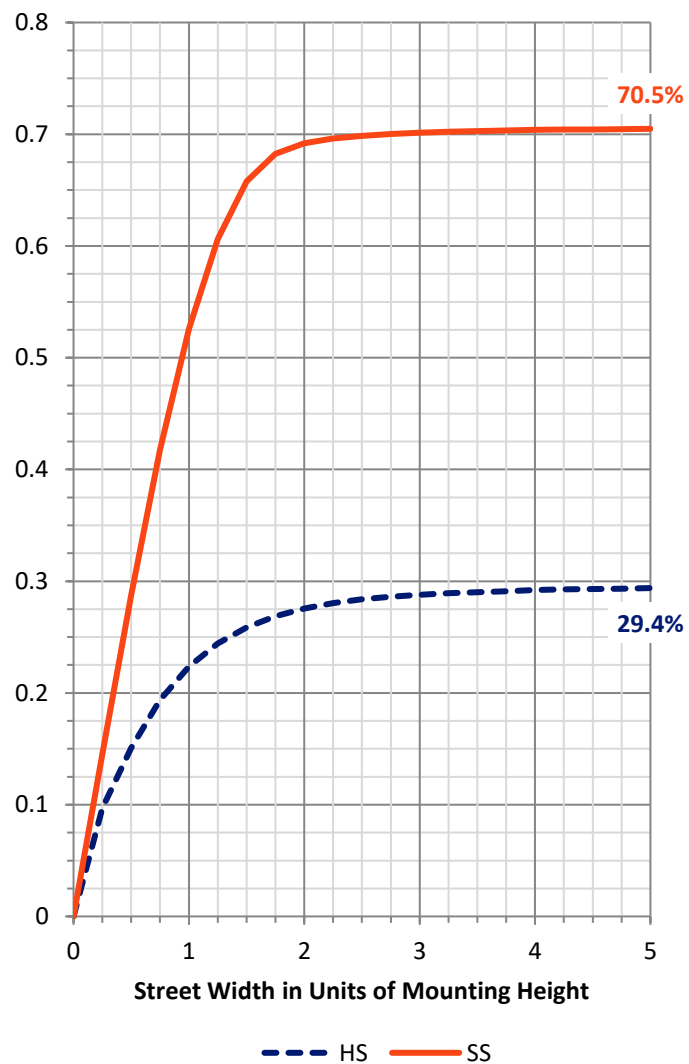
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7565.0	0.0	7565.0
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	18051.0	0.0	18051.0
	% Fixture	70.5	0.0	70.5
Total	Lumens	25616.0	0.0	25616.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	595.9	2.3
10°-20°	1630.8	6.4
20°-30°	2790.0	10.9
30°-40°	4276.0	16.7
40°-50°	5779.0	22.6
50°-60°	6637.4	25.9
60°-70°	3025.5	11.8
70°-80°	745.9	2.9
80°-90°	135.6	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°	25616.0	100.0
0°-180°	25616.0	100.0

Coefficient of Utilization



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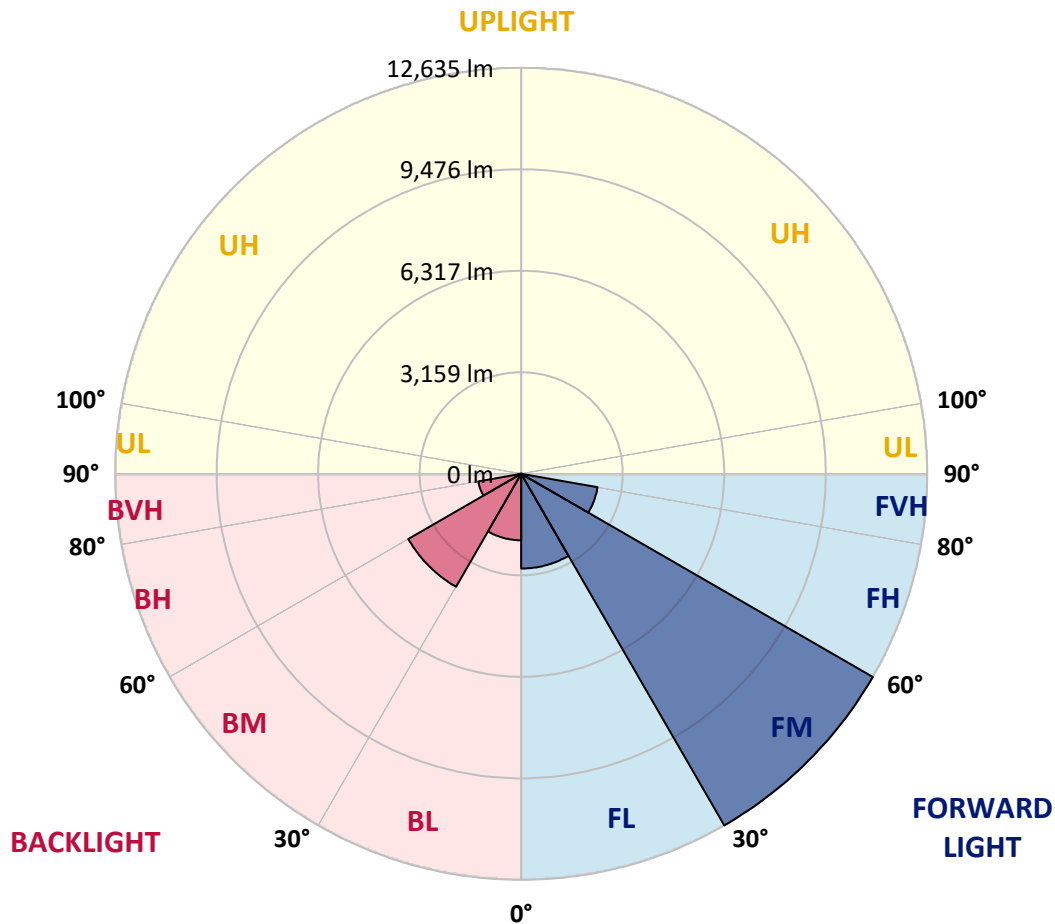
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2947.3	11.5			
FM	(30°-60°)	12634.6	49.3			
FH	(60°-80°)	2415.0	9.4			G2/5000
FVH	(80°-90°)	54.1	0.2			G1/100
BL	(0°-30°)	2069.3	8.1	B3/2500		
BM	(30°-60°)	4057.7	15.8	B3/5000		
BH	(60°-80°)	1356.4	5.3	B3/2500		G3/2500
BVH	(80°-90°)	81.4	0.3			G1/100
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°	79°	85°
0°	6554.1	6554.1	6554.1	6554.1	6554.1	6554.1	6554.1	6554.1	6554.1	6554.1	6554.1
2.5°	6235.0	6219.1	6257.4	6286.1	6321.2	6365.9	6388.2	6401.0	6512.6	6483.9	6570.1
5°	6101.0	6059.5	6088.2	6110.6	6171.2	6225.5	6286.1	6381.8	6483.9	6528.6	6633.9
7.5°	5982.9	5960.6	5954.2	5970.2	6053.1	6123.3	6228.6	6369.0	6535.0	6608.4	6669.0
10°	5788.3	5756.4	5804.3	5909.6	5931.9	6078.7	6199.9	6401.0	6544.5	6672.2	6850.9
12.5°	5702.1	5670.2	5679.8	5740.4	5896.8	6037.2	6180.8	6407.3	6710.5	6761.5	7000.8
15°	5839.4	5807.4	5817.0	5801.1	5951.0	6024.4	6251.0	6535.0	6825.3	6911.5	7166.8
17.5°	6152.1	6155.3	6113.8	6078.7	6043.6	6199.9	6356.3	6611.6	6870.0	7087.0	7278.5
20°	6748.8	6643.5	6560.5	6362.7	6308.4	6375.4	6573.3	6819.0	7051.9	7230.6	7447.6
22.5°	7208.3	7217.8	7099.8	6774.3	6656.2	6684.9	6854.1	7055.1	7310.4	7438.0	7686.9
25°	7875.2	7808.1	7680.5	7422.0	7157.2	7179.5	7304.0	7485.9	7556.1	7645.4	7916.6
27.5°	8484.6	8503.8	8251.7	8009.2	7680.5	7616.7	7840.1	7872.0	7753.9	7923.0	8015.6
30°	9103.7	9087.7	8921.8	8637.8	8315.5	8328.3	8427.2	8270.8	8108.1	8200.6	8264.4
32.5°	9745.0	9563.1	9556.8	9301.5	9055.8	8937.7	8816.5	8893.1	8641.0	8660.1	8599.5
35°	10258.8	10284.3	10137.5	9955.6	9834.4	9627.0	9295.1	9432.3	9384.5	9362.1	9100.5
37.5°	10632.1	10533.2	10606.6	10545.9	10431.1	10172.6	9828.0	9958.8	9981.2	10089.6	9786.5
40°	10938.4	10896.9	11091.6	11123.5	11043.7	10485.3	9866.3	10255.6	10590.6	10826.7	10466.2
42.5°	11085.2	11174.6	11378.8	11624.5	11445.8	10849.1	10064.1	10482.1	11228.8	11602.1	11110.7
45°	11283.0	11168.2	11471.3	11921.2	11924.4	11155.4	10255.6	10788.5	11726.6	12269.0	11551.1
47.5°	11082.0	11139.5	11452.2	12023.3	12170.1	11477.7	10772.5	11222.4	12275.4	12757.2	11959.5
50°	10632.1	10747.0	11318.1	11911.7	12355.2	11819.1	11366.0	11691.5	12782.8	13149.7	12026.5
52.5°	10163.0	10226.9	11120.3	11997.8	12438.1	12259.5	12160.5	12339.2	13401.8	13593.3	12109.5
55°	8886.7	9189.8	10466.2	11959.5	12843.4	13054.0	12977.4	13239.1	14103.8	14295.3	12562.6
56°	8296.4	8455.9	10073.7	11780.8	12923.2	13344.4	13306.1	13424.1	14477.1	14678.2	12632.8
57.5°	7205.1	7217.8	8589.9	10989.5	12623.2	13430.5	13392.2	13484.8	14403.7	14266.5	12017.0
60°	4508.7	4706.6	5845.7	8452.7	10734.2	12460.5	12677.5	11934.0	12144.6	11854.2	9349.4
62.5°	2335.7	2307.0	3063.3	4942.7	7125.3	8921.8	9122.8	9087.7	8762.2	8337.8	6107.4
65°	1164.7	1171.1	1601.8	2447.4	3650.4	4671.5	5233.1	5293.7	4429.0	4074.8	2897.3
67.5°	845.6	877.5	1151.9	1496.5	1719.9	1924.1	2358.1	2313.4	1751.8	1665.7	1544.4
70°	657.3	686.0	934.9	1142.3	1037.0	1037.0	1129.6	1167.9	1247.6	1282.7	1324.2
72.5°	478.6	501.0	714.8	788.2	679.7	730.7	845.6	934.9	1017.9	1030.7	1078.5
75°	328.7	347.8	469.1	434.0	408.4	504.2	619.0	702.0	762.6	794.5	823.3
77.5°	213.8	220.2	268.0	226.6	261.7	325.5	402.1	472.3	532.9	558.4	564.8
80°	95.7	105.3	114.9	143.6	181.9	232.9	287.2	344.6	382.9	392.5	411.6
82.5°	54.2	54.2	70.2	102.1	134.0	169.1	207.4	248.9	293.6	303.1	299.9
85°	28.7	28.7	41.5	60.6	83.0	98.9	95.7	98.9	105.3	121.3	118.1
87.5°	9.6	9.6	12.8	12.8	16.0	19.1	16.0	22.3	28.7	28.7	28.7
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°	6554.1	6554.1	6554.1	6554.1	6554.1	6554.1	6554.1	6554.1	6554.1	6554.1	6554.1
2.5°	6544.5	6573.3	6535.0	6617.9	6617.9	6602.0	6522.2	6547.7	6566.9	6566.9	6582.8
5°	6669.0	6659.4	6684.9	6586.0	6525.4	6503.1	6372.2	6308.4	6254.2	6251.0	6203.1
7.5°	6739.2	6713.7	6704.1	6630.7	6362.7	6199.9	5919.1	5756.4	5721.3	5596.8	5644.7
10°	6850.9	6898.7	6850.9	6452.0	6078.7	5705.3	5430.9	5178.8	5079.9	5000.1	4952.3
12.5°	7080.6	7058.3	6780.7	6241.4	5718.1	5274.6	4866.1	4601.3	4502.4	4432.2	4425.8
15°	7275.3	7163.6	6739.2	5909.6	5156.5	4684.2	4349.2	4160.9	4116.3	4122.6	4151.4
17.5°	7342.3	7265.7	6522.2	5564.9	4738.5	4183.3	4026.9	3998.2	4039.7	4087.6	4100.3
20°	7447.6	7326.3	6432.9	5095.9	4221.6	3870.6	3861.0	3963.1	4039.7	4109.9	4119.5
22.5°	7667.7	7361.4	6142.5	4652.3	3867.4	3778.0	3870.6	3956.7	4074.8	4132.2	4081.2
25°	7731.6	7284.8	5734.1	4119.5	3644.0	3720.6	3819.5	3937.6	4020.5	4052.5	4074.8
27.5°	7785.8	7166.8	5182.0	3765.3	3573.8	3717.4	3819.5	3918.4	3963.1	3991.8	4017.4
30°	7939.0	7131.7	4703.4	3529.1	3529.1	3653.6	3784.4	3809.9	3870.6	3905.7	3950.3
32.5°	8015.6	6889.2	4212.0	3379.2	3484.5	3685.5	3695.1	3742.9	3746.1	3774.8	3727.0
35°	8216.6	6716.9	3755.7	3270.7	3503.6	3653.6	3701.5	3672.7	3516.4	3439.8	3455.8
37.5°	8363.4	6630.7	3427.0	3257.9	3506.8	3688.7	3714.2	3497.2	3334.5	3206.9	3238.8
40°	8759.0	6416.9	3178.1	3235.6	3535.5	3727.0	3656.8	3420.7	3127.1	2996.3	2973.9
42.5°	9062.2	6263.7	3021.8	3210.1	3557.9	3781.2	3628.1	3267.5	2967.5	2846.3	2878.2
45°	9413.2	6228.6	2938.8	3216.4	3596.2	3809.9	3593.0	3149.4	2830.3	2782.5	2772.9
47.5°	9537.6	5976.6	2849.5	3162.2	3586.6	3800.4	3474.9	3060.1	2779.3	2785.7	2811.2
50°	9330.2	5718.1	2782.5	3050.5	3522.8	3714.2	3289.8	2942.0	2750.6	2830.3	2875.0
52.5°	9065.4	5453.3	2645.3	2900.5	3391.9	3580.2	3203.7	2935.6	2721.8	2696.3	2705.9
55°	9145.1	5236.3	2453.8	2696.3	3181.3	3331.3	3107.9	2875.0	2651.6	2555.9	2587.8
56°	8886.7	5012.9	2329.4	2568.7	3037.7	3171.8	3060.1	2820.8	2594.2	2530.4	2530.4
57.5°	8156.0	4263.0	2166.6	2364.5	2734.6	2894.2	2967.5	2788.9	2530.4	2418.7	2421.9
60°	6014.9	3031.4	1943.3	2083.7	2265.5	2393.2	2734.6	2699.5	2370.8	2294.3	2265.5
62.5°	3707.8	2214.5	1783.7	1838.0	1930.5	2035.8	2386.8	2444.2	2201.7	2118.8	2099.6
65°	2077.3	1694.4	1662.5	1684.8	1729.5	1783.7	1981.6	2109.2	1943.3	1815.6	1809.2
67.5°	1518.9	1515.7	1541.2	1560.4	1579.5	1579.5	1627.4	1678.4	1656.1	1554.0	1544.4
70°	1349.8	1359.3	1378.5	1381.7	1388.0	1365.7	1327.4	1311.5	1337.0	1273.2	1260.4
72.5°	1113.6	1145.5	1167.9	1171.1	1136.0	1107.2	1056.2	1001.9	982.8	970.0	966.8
75°	855.2	877.5	887.1	883.9	871.1	829.6	769.0	714.8	679.7	641.4	660.5
77.5°	577.6	609.5	625.4	625.4	606.3	542.5	513.7	472.3	437.2	395.7	402.1
80°	405.2	427.6	453.1	449.9	418.0	386.1	344.6	306.3	277.6	245.7	242.5
82.5°	303.1	315.9	328.7	322.3	299.9	268.0	239.3	204.2	172.3	150.0	150.0
85°	108.5	118.1	143.6	150.0	162.7	162.7	137.2	114.9	92.5	76.6	76.6
87.5°	31.9	31.9	35.1	35.1	31.9	35.1	28.7	31.9	35.1	22.3	22.3
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)