

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: P651090

Luminaire Tested: **GALN-SA8C-840-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651090  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-840-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48016 lumens  
Efficiency: N/A  
Efficacy: 111.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5

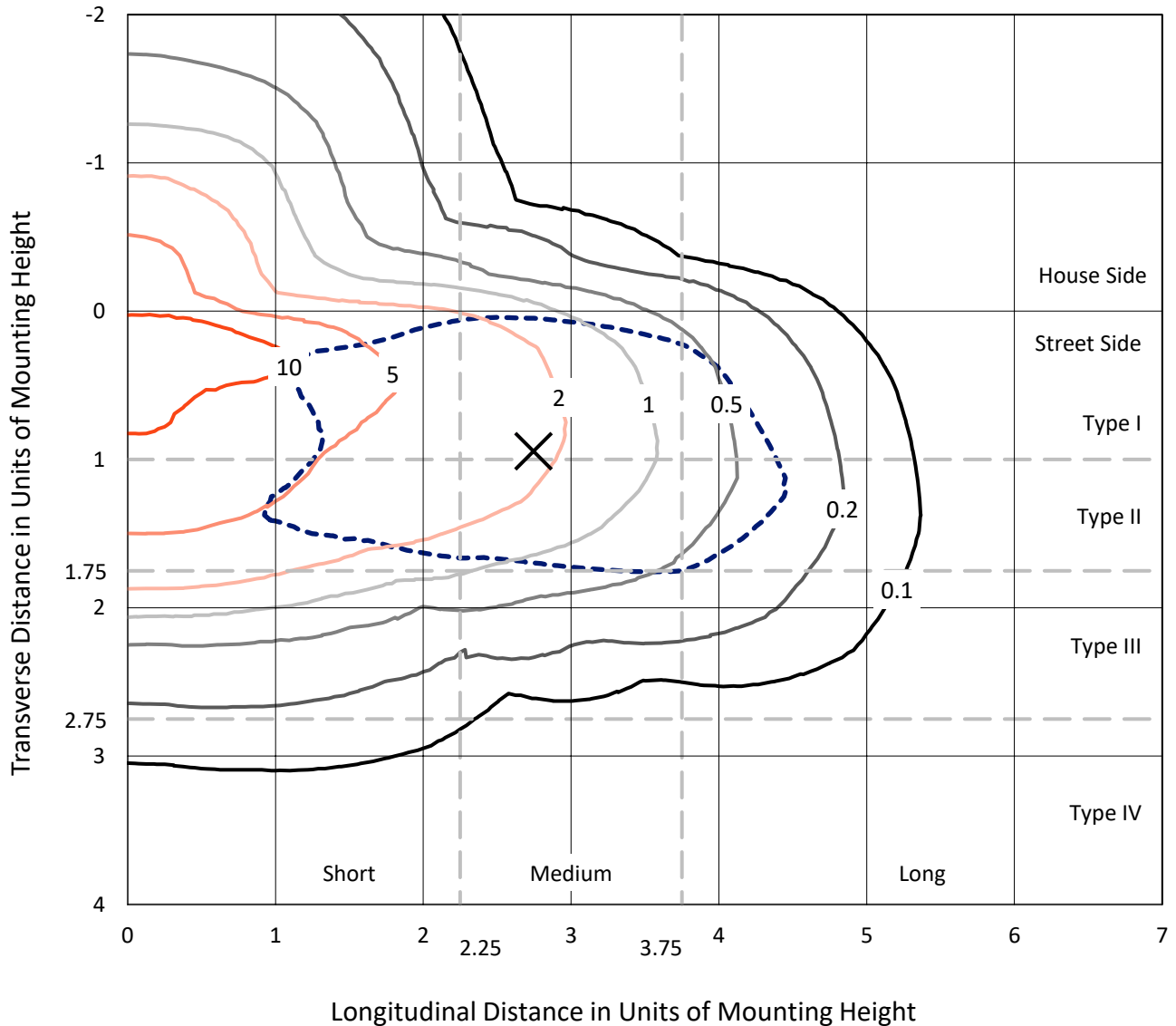
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

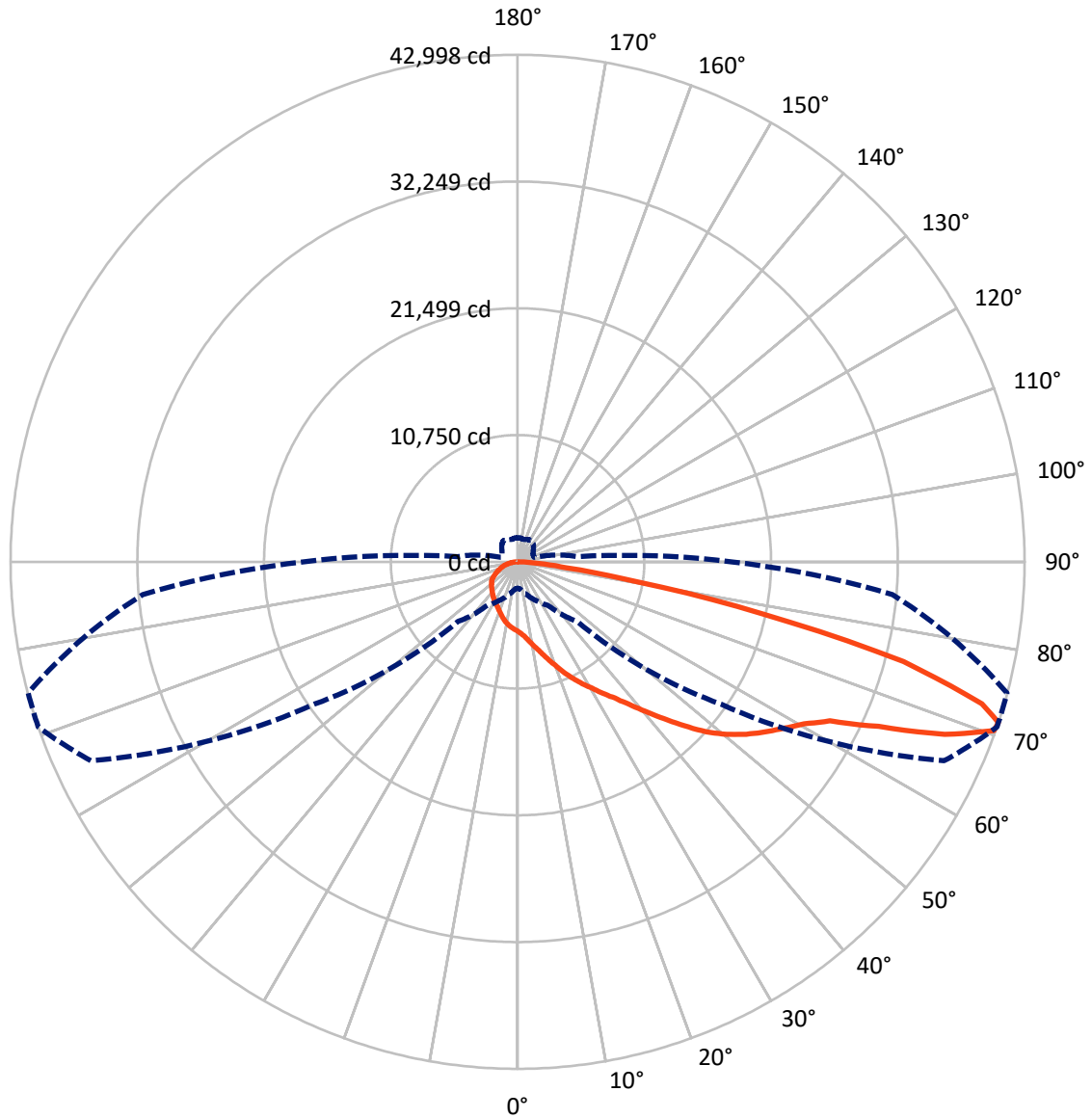
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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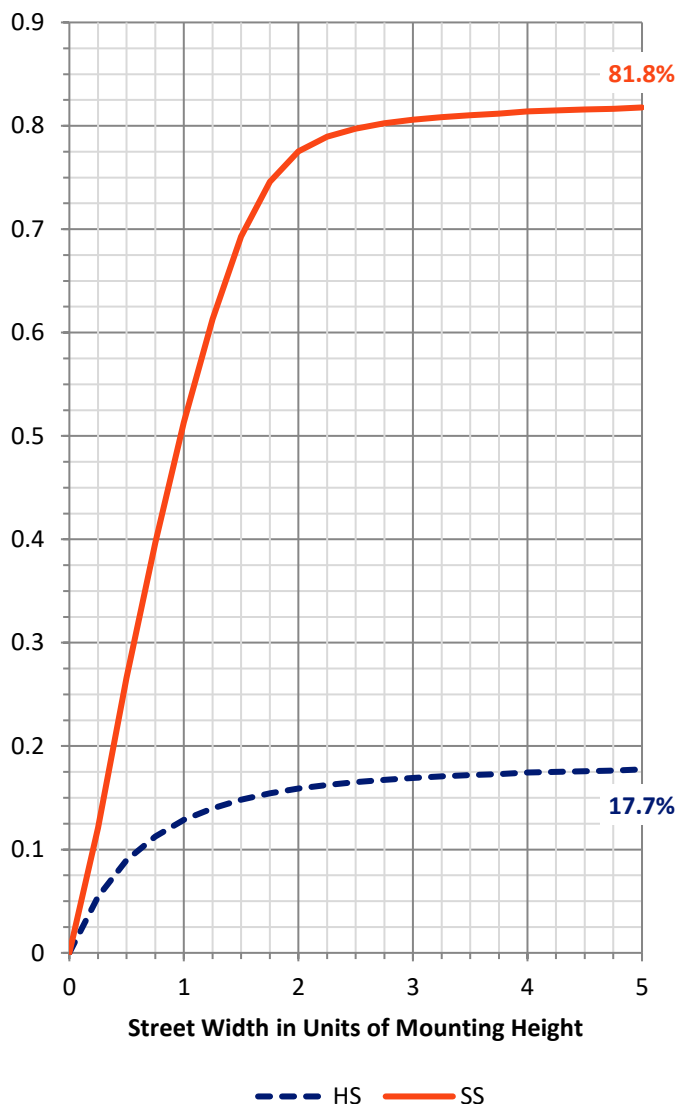
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8635.5	0.0	8635.5
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	39380.5	0.0	39380.5
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	48016.0	0.0	48016.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	591.7	1.2
10°-20°	1922.4	4.0
20°-30°	3359.5	7.0
30°-40°	4996.9	10.4
40°-50°	7362.2	15.3
50°-60°	10307.2	21.5
60°-70°	11528.3	24.0
70°-80°	7041.9	14.7
80°-90°	905.9	1.9
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°	48016.0	100.0
0°-180°	48016.0	100.0

**Coefficient of Utilization**

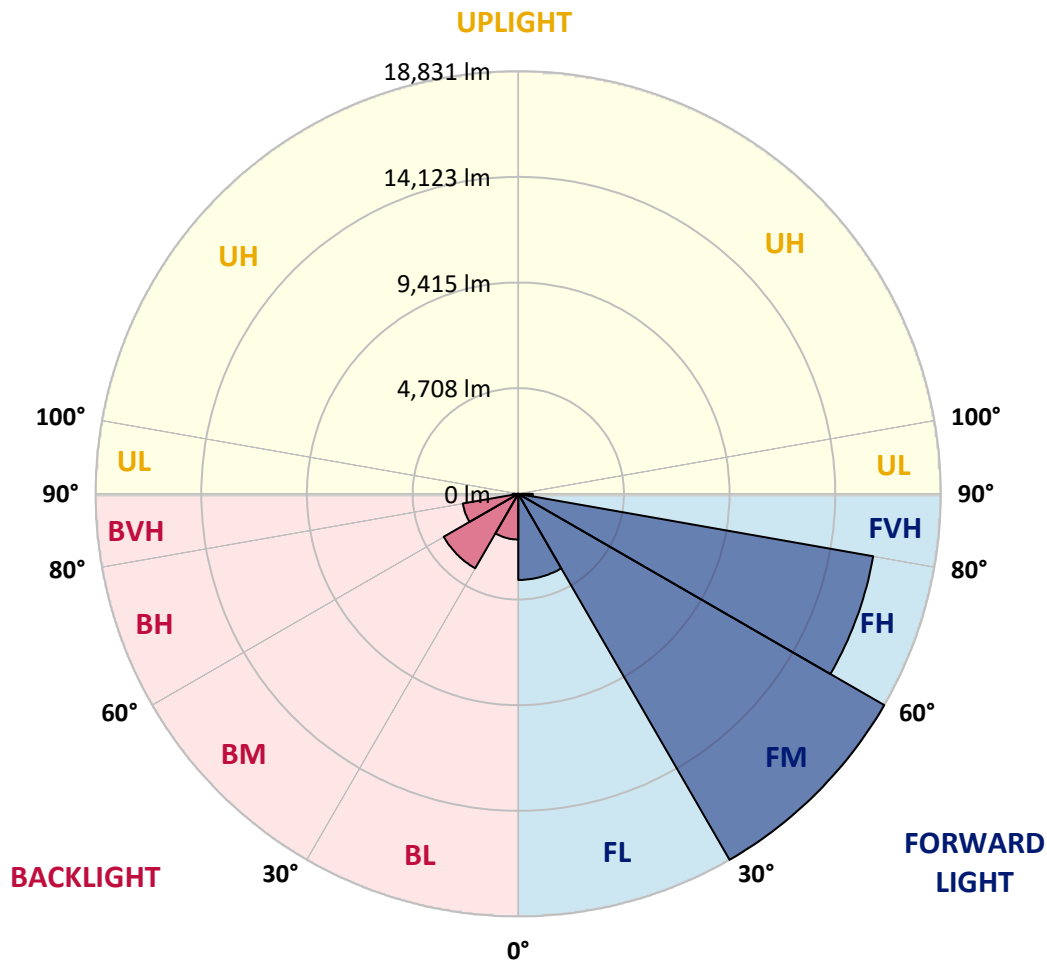


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3836.5	8.0			
FM (30°-60°)	18830.9	39.2			
FH (60°-80°)	16061.2	33.4			G5
FVH (80°-90°)	651.8	1.4			G4/750
BL (0°-30°)	2037.1	4.2	B3/2500		
BM (30°-60°)	3835.4	8.0	B3/5000		
BH (60°-80°)	2509.0	5.2	B4/5000		G4/5000
BVH (80°-90°)	254.1	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	5893.1	5893.1	5893.1	5893.1	5893.1	5893.1	5893.1	5893.1	5893.1	5893.1	5893.1
2.5°	6542.2	6510.6	6513.2	6468.3	6410.3	6346.9	6257.2	6178.1	6114.7	6077.7	5969.6
5°	7249.5	7217.8	7178.3	7080.6	7038.4	6882.7	6684.8	6505.3	6368.1	6291.5	6075.1
7.5°	7822.1	7814.2	7803.7	7748.3	7640.1	7423.7	7254.8	6943.4	6740.2	6595.0	6225.6
10°	8175.8	8189.0	8196.9	8207.5	8162.6	8049.1	7816.9	7423.7	7165.1	6980.3	6420.9
12.5°	8355.3	8368.5	8413.4	8511.0	8571.6	8558.4	8368.5	7983.2	7626.9	7384.1	6629.4
15°	8466.1	8487.2	8566.4	8695.7	8898.9	9028.2	8935.9	8579.6	8189.0	7901.4	6877.4
17.5°	8587.5	8611.3	8698.4	8883.1	9149.7	9429.4	9529.6	9223.5	8798.6	8455.6	7154.5
20°	8656.2	8687.8	8811.8	9054.6	9366.0	9772.4	10105.0	9944.0	9479.5	9099.5	7473.8
22.5°	8766.9	8793.3	8898.9	9157.6	9529.6	10039.0	10680.3	10646.0	10236.9	9746.0	7824.8
25°	9067.8	9110.0	9162.8	9318.5	9677.5	10310.8	11158.0	11395.5	10970.6	10421.7	8146.8
27.5°	9635.3	9669.5	9666.9	9688.0	9891.2	10545.7	11572.2	12137.1	11699.0	11105.2	8458.2
30°	10281.8	10295.0	10305.5	10258.0	10302.9	10785.8	11952.3	12870.7	12432.6	11807.1	8730.0
32.5°	11068.2	11094.6	11004.9	10883.5	10846.5	11142.2	12266.3	13604.4	13300.8	12519.7	8999.2
35°	11997.2	12065.8	11883.7	11670.0	11519.5	11654.1	12688.6	14353.9	14190.2	13430.2	9355.5
37.5°	13058.0	13142.6	12973.6	12554.0	12340.2	12377.2	13240.2	15280.1	15314.4	14467.3	9886.0
40°	13926.3	14037.1	14042.4	13448.7	13124.1	13166.3	13939.5	16277.7	16671.0	15749.9	10511.4
42.5°	14499.0	14607.2	14720.7	14372.4	14031.9	14272.0	14755.0	17359.8	18196.3	17306.9	11384.9
45°	15127.1	15224.7	15288.1	15129.8	14939.7	15562.5	15739.4	18510.4	19821.9	19046.1	12340.2
47.5°	15855.5	15963.7	16024.4	15874.0	15802.7	16694.7	16800.2	19584.5	21558.5	20735.1	13395.9
50°	16826.6	16908.5	16876.8	16781.8	16765.9	17562.9	17818.9	20590.0	22991.5	22553.4	14491.1
52.5°	18035.3	18133.0	18167.3	18032.7	17972.0	18183.1	18639.7	21505.7	24295.2	24115.8	15660.2
55°	18766.3	18922.1	19444.6	19655.8	19800.8	18985.4	19523.8	22516.4	25464.3	25762.5	16916.4
57.5°	17829.5	18030.0	19199.2	20254.8	21619.2	20991.1	20777.3	23572.1	26633.4	27359.2	18420.7
60°	15544.0	15588.9	17095.8	19040.8	21785.4	23569.4	23392.7	25250.5	27900.2	28969.0	20402.6
62.5°	10783.2	10878.3	12659.6	15763.1	19732.3	24498.4	27842.1	28148.2	29715.8	31378.5	23308.1
65°	5560.5	5436.5	7059.5	9907.1	14876.4	22292.1	31447.1	33476.5	33653.3	35147.0	27398.8
67.5°	3422.9	3478.3	4238.3	5784.8	8796.0	16201.2	31069.7	39987.0	39055.5	39773.3	31196.3
70°	2570.4	2639.1	3161.6	3958.6	5362.6	9263.1	24986.6	41565.2	42866.3	42681.5	32352.3
71°	2235.3	2306.5	2850.1	3602.3	4504.9	7149.3	21051.8	39913.2	42998.2	42966.5	31916.8
72.5°	1905.4	1950.3	2375.2	3050.7	3797.6	5011.6	15815.9	35796.2	41164.1	42217.0	30362.4
75°	1496.3	1530.6	1720.7	2327.6	2990.1	3077.1	8487.2	26836.6	33809.0	35814.7	25276.9
77.5°	1219.3	1243.0	1340.6	1728.6	2306.5	2179.9	4452.1	17467.9	21181.1	23200.0	14889.6
80°	968.5	994.9	1053.0	1171.8	1728.6	1554.4	2124.5	8851.4	10231.6	10210.5	5943.2
82.5°	752.1	760.0	828.6	860.3	1182.3	1103.1	1150.7	3747.5	4151.3	4288.5	2145.6
85°	475.0	498.8	733.7	659.8	707.3	646.6	567.4	1488.4	1834.1	1807.7	857.7
87.5°	145.2	153.1	248.1	279.7	314.0	282.4	208.5	438.1	535.7	580.6	213.8
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°	5893.1	5893.1	5893.1	5893.1	5893.1	5893.1	5893.1	5893.1	5893.1	5893.1	5893.1
2.5°	5927.4	5898.3	5795.4	5710.9	5631.8	5544.6	5470.8	5449.7	5431.2	5423.3	5420.7
5°	5982.8	5895.7	5692.5	5526.2	5394.3	5272.8	5196.3	5162.0	5127.7	5127.7	5138.3
7.5°	6061.9	5903.6	5589.5	5341.4	5175.2	5061.7	5006.3	5001.0	5008.9	5016.8	5019.5
10°	6149.0	5898.3	5439.1	5130.4	4982.6	4929.8	4932.4	4977.3	5019.5	5051.1	5056.4
12.5°	6233.5	5866.6	5262.3	4932.4	4837.4	4847.9	4921.9	5022.1	5103.9	5148.8	5151.5
15°	6328.4	5816.5	5048.5	4745.0	4713.4	4795.2	4932.4	5085.4	5209.5	5283.4	5291.3
17.5°	6407.7	5732.0	4824.2	4562.9	4602.5	4752.9	4943.0	5140.9	5291.3	5383.7	5399.6
20°	6497.4	5623.9	4591.9	4388.8	4502.2	4705.5	4921.9	5135.7	5291.3	5381.1	5402.2
22.5°	6568.6	5470.8	4370.3	4246.2	4412.5	4647.4	4850.6	5022.1	5148.8	5196.3	5228.0
25°	6597.6	5278.1	4161.8	4130.2	4341.2	4552.4	4689.6	4787.2	4826.8	4821.5	4834.7
27.5°	6581.8	5056.4	3982.3	4037.7	4251.5	4404.6	4473.2	4465.3	4394.1	4328.0	4359.7
30°	6515.8	4792.5	3831.9	3942.8	4135.4	4219.9	4209.3	4106.4	3971.8	3847.7	3855.6
32.5°	6397.1	4507.5	3692.1	3834.5	3971.8	4008.7	3937.5	3802.9	3610.2	3449.3	3425.5
35°	6296.8	4235.7	3568.0	3710.5	3808.1	3789.7	3721.1	3546.9	3372.7	3230.2	3206.5
37.5°	6280.9	4003.5	3449.3	3570.6	3626.1	3599.6	3515.2	3367.4	3304.1	3195.9	3182.7
40°	6365.4	3839.8	3327.8	3422.9	3449.3	3428.2	3335.7	3251.3	3309.4	3283.0	3283.0
42.5°	6595.0	3752.7	3219.7	3275.1	3296.2	3312.0	3246.0	3174.8	3246.0	3124.7	3085.0
45°	6959.2	3755.4	3122.0	3129.9	3193.3	3248.7	3203.8	3098.2	3061.3	2818.5	2771.0
47.5°	7494.9	3845.1	3042.8	2992.7	3106.1	3198.6	3135.2	2982.1	2818.5	2657.6	2628.5
50°	8120.4	4006.1	2971.6	2850.1	2990.1	3135.2	3087.7	2908.3	2739.3	2641.7	2623.2
52.5°	8814.4	4209.3	2884.5	2691.9	2847.5	3106.1	3098.2	2897.7	2665.5	2599.4	2583.6
55°	9672.2	4409.9	2776.3	2507.1	2720.9	3082.4	3069.2	2810.6	2649.7	2602.1	2596.8
57.5°	10669.7	4700.2	2620.6	2319.7	2575.7	2984.8	2955.8	2757.8	2596.8	2562.5	2559.9
60°	12276.9	5151.5	2398.9	2148.2	2428.0	2813.2	2850.1	2668.1	2512.4	2504.5	2501.8
62.5°	14390.8	5784.8	2169.3	1971.4	2256.4	2591.5	2697.1	2546.7	2422.7	2462.3	2467.5
65°	17309.6	6317.9	1931.8	1820.9	2066.4	2377.8	2551.9	2433.2	2322.3	2398.9	2398.9
67.5°	19212.4	6328.4	1715.4	1665.3	1873.7	2198.4	2398.9	2298.6	2193.1	2322.3	2327.6
70°	18816.5	5544.6	1535.9	1501.6	1686.4	2005.7	2230.0	2150.9	2029.4	2145.6	2103.3
71°	18177.9	5109.2	1464.7	1438.3	1612.4	1913.4	2150.9	2084.8	1963.5	2040.0	2016.2
72.5°	17159.2	4436.3	1348.5	1353.8	1501.6	1797.2	2040.0	1971.4	1849.9	1892.2	1884.3
75°	14504.3	3874.2	1153.3	1177.0	1290.5	1599.2	1818.3	1765.5	1641.5	1641.5	1633.6
77.5°	9067.8	2707.7	958.0	971.2	1095.2	1369.7	1562.3	1517.5	1398.7	1359.1	1348.5
80°	3383.3	1398.7	749.5	765.3	841.8	1079.3	1293.1	1250.9	1129.5	1084.6	1042.4
82.5°	1279.9	702.0	551.5	538.4	620.2	823.4	1013.4	963.3	868.2	760.0	728.4
85°	483.0	348.3	337.8	327.2	364.2	488.2	628.1	617.5	517.2	440.7	432.8
87.5°	126.7	113.5	132.0	97.6	102.9	92.3	95.0	39.6	18.5	7.9	5.3
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)