

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: P532400

Luminaire Tested: **GALN-SA7D-730-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532400  
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-730-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 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: 41161 lumens  
Efficiency: N/A  
Efficacy: 95.1 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

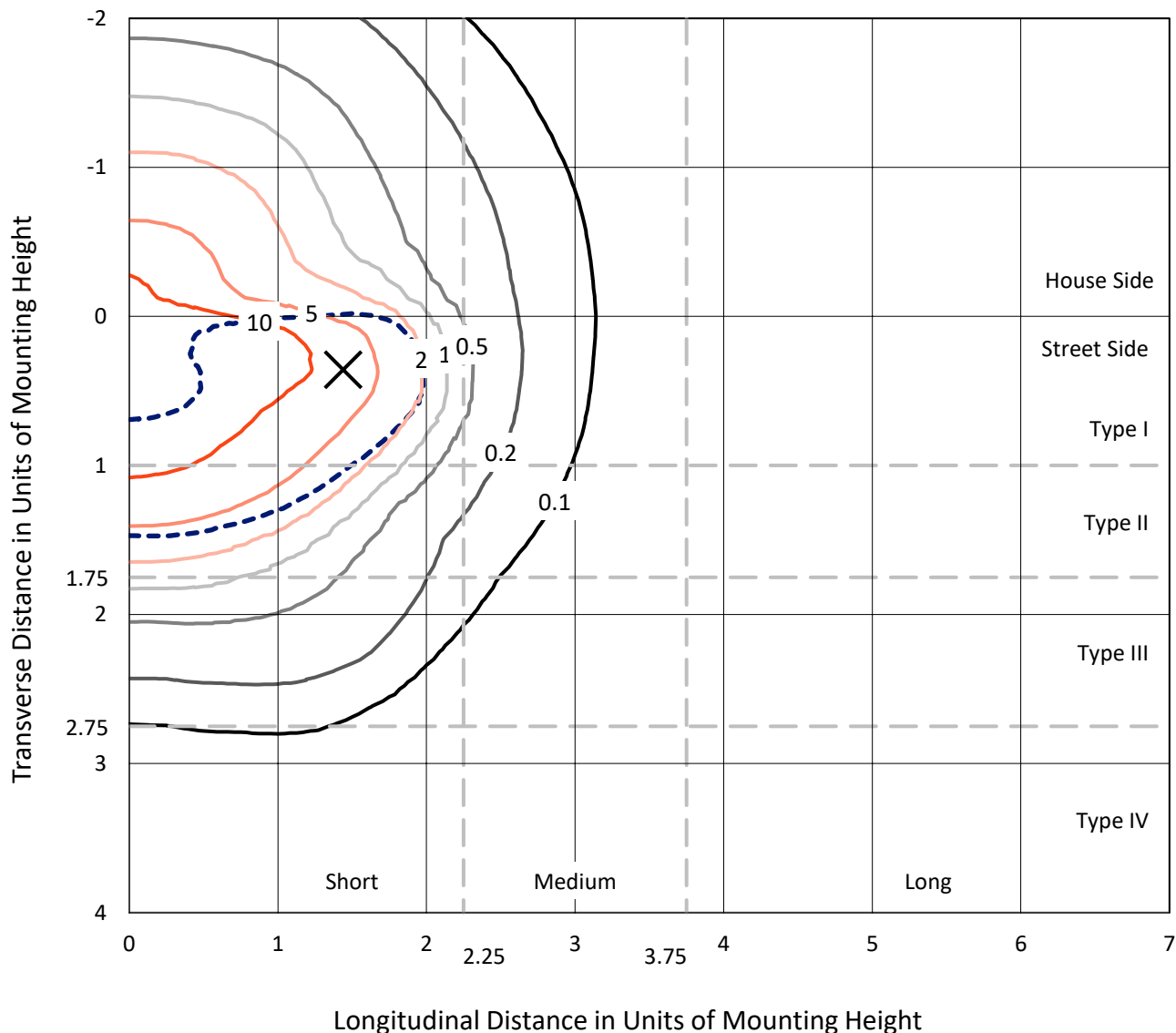
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

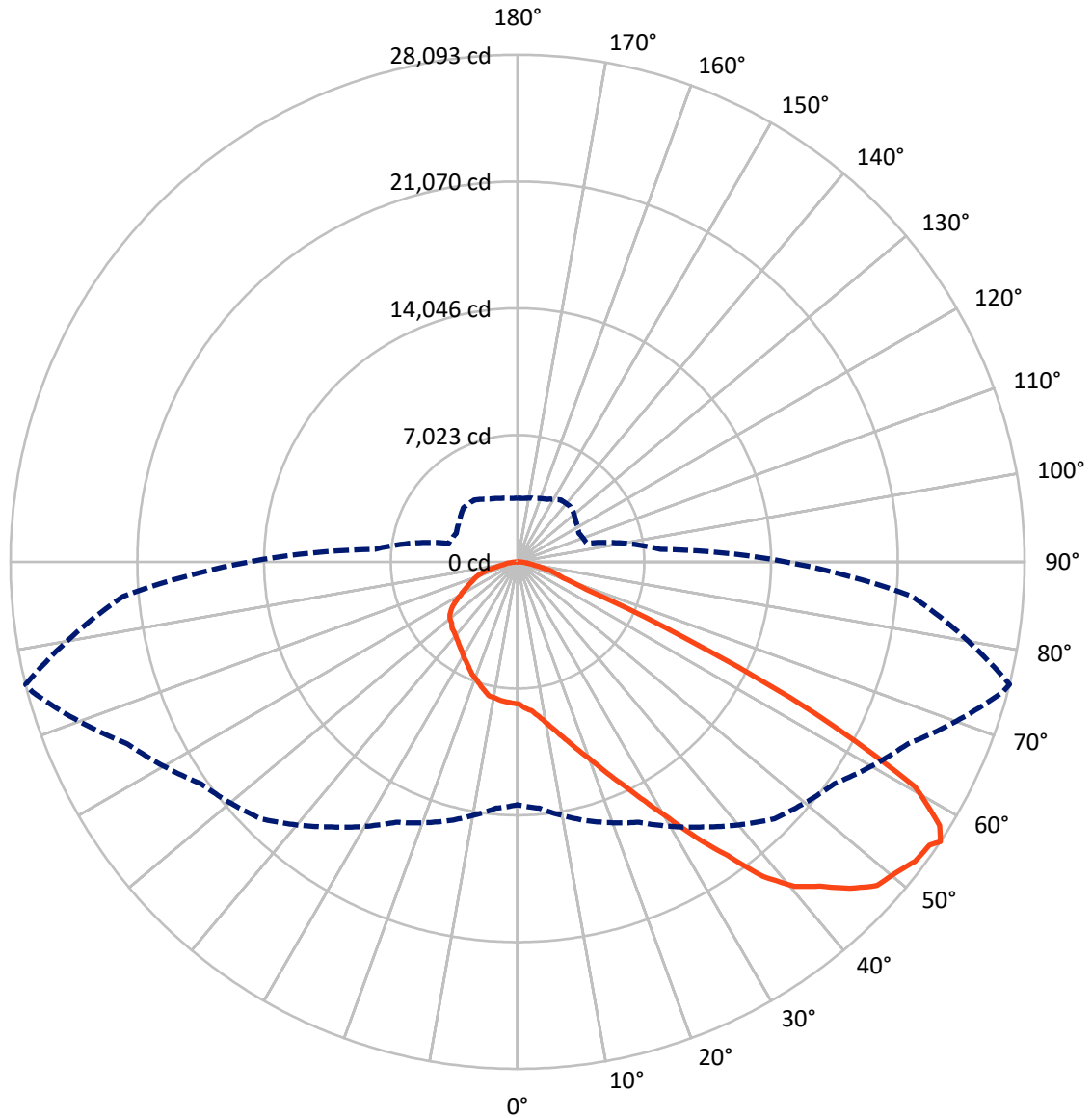
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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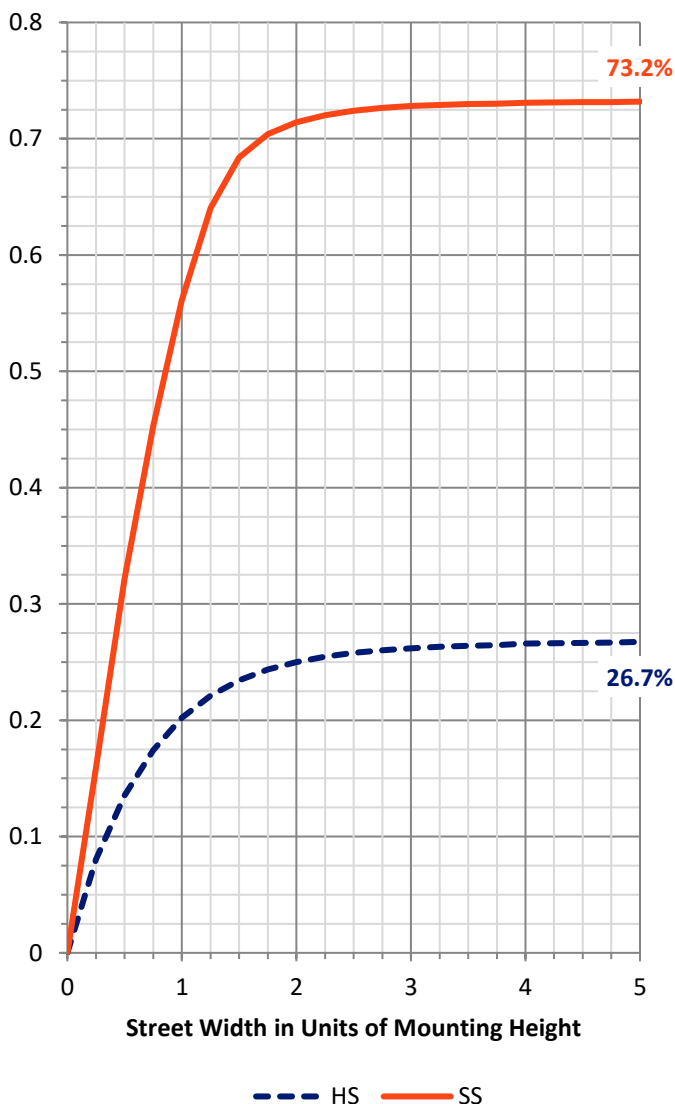
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11067.0	0.0	11067.0
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	30094.0	0.0	30094.0
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	41161.0	0.0	41161.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	781.0	1.9
10°-20°	2453.4	6.0
20°-30°	4290.8	10.4
30°-40°	6718.1	16.3
40°-50°	9772.9	23.7
50°-60°	10741.0	26.1
60°-70°	4794.3	11.6
70°-80°	1384.8	3.4
80°-90°	224.6	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°	41161.0	100.0
0°-180°	41161.0	100.0

**Coefficient of Utilization**

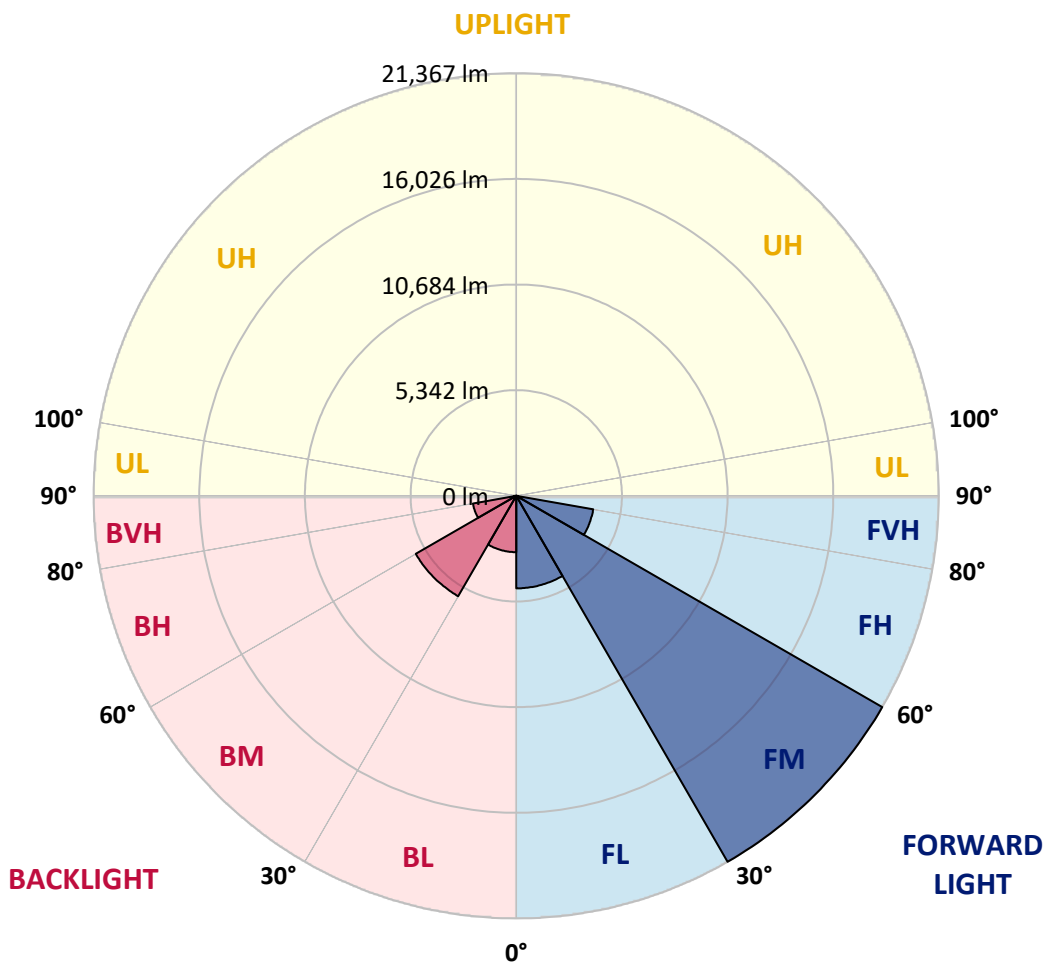


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4677.5	11.4			
FM (30°-60°)	21367.4	51.9			
FH (60°-80°)	3952.4	9.6			G2/5000
FVH (80°-90°)	96.7	0.2			G1/100
BL (0°-30°)	2847.7	6.9	B4/5000		
BM (30°-60°)	5864.6	14.2	B4/8500		
BH (60°-80°)	2226.7	5.4	B3/2500		G3/2500
BVH (80°-90°)	127.9	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°	55°	65°	75°	76°	85°
0°	7875.6	7875.6	7875.6	7875.6	7875.6	7875.6	7875.6	7875.6	7875.6	7875.6	7875.6
2.5°	8676.0	8537.3	8526.6	8489.2	8510.6	8414.5	8313.2	8179.8	8041.0	8126.4	7923.7
5°	9284.3	9097.5	9172.2	9044.2	9060.2	8932.1	8724.0	8569.3	8398.5	8297.2	8153.1
7.5°	9497.7	9513.7	9567.1	9545.7	9439.0	9439.0	9300.3	9028.2	8729.4	8670.7	8430.6
10°	9785.8	9791.2	9732.5	9748.5	9897.9	9828.5	9705.8	9588.4	9204.2	9134.9	8708.0
12.5°	9887.2	9791.2	9887.2	9972.6	10148.7	10244.7	10218.0	10132.7	9721.8	9673.8	9049.5
15°	9903.2	9844.5	9924.6	10116.7	10271.4	10676.9	10879.7	10821.0	10276.7	10282.1	9433.7
17.5°	9828.5	9908.6	9940.6	10106.0	10463.5	10842.3	11429.3	11509.3	11061.1	10991.7	9919.2
20°	9929.9	9871.2	9913.9	10063.3	10538.2	11130.5	11898.8	12427.1	11797.4	11749.4	10420.8
22.5°	10319.4	10239.4	10228.7	10324.8	10666.2	11279.9	12395.0	13344.8	12693.8	12720.5	11045.1
25°	10623.6	10666.2	10628.9	10623.6	10837.0	11504.0	13051.3	14438.7	13910.4	13755.7	11781.4
27.5°	11146.5	11247.8	11173.1	11274.5	11226.5	11840.1	13520.9	15649.9	15223.0	15014.9	12448.4
30°	11872.1	11925.5	11856.1	11856.1	11712.1	12309.7	13947.8	16914.5	16738.4	16455.6	13232.8
32.5°	12827.2	12907.3	12768.5	12688.5	12667.2	13008.7	14716.1	18163.0	18461.8	18221.7	14273.2
35°	14091.8	14043.8	13878.4	13803.7	13515.6	14081.2	15858.0	19598.4	20382.7	19955.9	15532.5
37.5°	15207.0	15132.3	15121.6	14705.4	14774.8	15239.0	16829.1	20686.9	22244.9	22122.2	16861.1
40°	16247.5	16316.9	16428.9	16194.1	16087.4	16599.6	17960.3	21519.2	23690.9	23642.9	17885.6
42.5°	17362.7	17298.6	17496.1	17298.6	17138.6	17864.2	19187.5	22095.5	24960.8	24566.0	18958.1
45°	18979.4	18776.7	18846.0	18862.0	18744.6	19011.4	19694.4	22511.7	25851.9	25809.2	19742.4
47.5°	20329.4	20334.7	20217.3	20126.6	19769.1	20035.9	20260.0	22773.2	26876.4	26807.0	20046.6
50°	20830.9	20761.6	21103.1	21300.5	21321.8	20777.6	20702.9	22917.2	27415.3	27111.2	20350.7
52.5°	19027.4	19091.5	19630.4	20804.3	21481.9	21540.6	21220.4	23216.0	27634.1	27570.0	20596.2
55°	15313.7	15623.2	16508.9	17864.2	19470.3	21236.5	21780.7	23525.5	27751.5	27698.1	21684.7
56°	13462.2	13702.3	14854.8	15916.7	17933.6	20131.9	21428.5	23856.3	27842.2	28092.9	21940.8
57.5°	10837.0	11114.5	11941.5	13147.4	15527.2	18029.6	20457.4	23450.8	27490.0	27586.0	22127.5
60°	6776.5	6803.1	7795.6	8590.6	10266.1	12709.9	15612.5	20404.1	25441.1	25302.3	19875.8
62.5°	4444.7	4450.1	5351.8	6002.8	6765.8	7326.0	9188.2	13531.6	18771.3	18525.9	14150.5
65°	3121.4	3190.8	3889.8	4759.5	5069.0	4775.5	4716.8	7134.0	10484.8	10132.7	7603.5
67.5°	2283.7	2289.1	2908.0	3841.8	4290.0	3633.7	2950.7	3484.3	4151.2	4140.6	3521.6
70°	1510.0	1574.1	2048.9	2870.7	3382.9	2918.7	2411.8	2491.8	2641.2	2641.2	2619.9
72.5°	880.4	939.1	1253.9	1819.5	1899.5	1824.8	1910.2	2134.3	2230.4	2225.0	2198.3
75°	501.6	528.2	597.6	757.7	944.4	1115.2	1403.3	1616.7	1712.8	1771.5	1702.1
77.5°	293.5	309.5	352.2	432.2	490.9	602.9	763.0	912.4	1040.5	1024.5	1035.1
80°	154.7	154.7	197.4	256.1	341.5	426.9	506.9	592.3	661.6	677.6	693.7
82.5°	90.7	96.0	128.1	186.8	245.4	304.1	389.5	448.2	512.2	517.6	528.2
85°	48.0	53.4	80.0	122.7	165.4	186.8	192.1	181.4	197.4	186.8	213.4
87.5°	16.0	16.0	26.7	21.3	21.3	26.7	32.0	32.0	42.7	42.7	42.7
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°	7875.6	7875.6	7875.6	7875.6	7875.6	7875.6	7875.6	7875.6	7875.6	7875.6	7875.6
2.5°	7918.3	7918.3	7827.6	7656.9	7630.2	7560.8	7496.8	7491.5	7443.4	7400.7	7379.4
5°	8067.7	7902.3	7768.9	7614.2	7432.8	7347.4	7251.3	7144.6	7101.9	7144.6	7139.3
7.5°	8238.5	8099.7	7699.5	7411.4	7203.3	7117.9	7011.2	6899.2	6909.9	6909.9	6835.1
10°	8403.9	8217.1	7576.8	7208.7	6904.5	6840.5	6781.8	6824.5	6877.8	6888.5	6840.5
12.5°	8681.3	8259.8	7518.1	7005.9	6813.8	6675.1	6712.4	6829.8	6941.9	6909.9	6947.2
15°	8889.4	8297.2	7251.3	6797.8	6557.7	6621.7	6755.1	6835.1	7021.9	7000.6	7037.9
17.5°	9092.2	8318.5	6989.9	6520.3	6419.0	6595.0	6696.4	6925.9	6984.6	7112.6	7160.6
20°	9508.4	8361.2	6723.1	6349.6	6317.6	6520.3	6696.4	6803.1	6931.2	7043.2	7043.2
22.5°	9721.8	8339.8	6547.0	6125.5	6226.9	6354.9	6515.0	6696.4	6696.4	6803.1	6808.5
25°	9988.6	8254.5	6269.6	6018.8	6093.5	6216.2	6397.6	6333.6	6403.0	6403.0	6488.3
27.5°	10292.7	8073.1	6029.4	5826.7	5976.1	6109.5	6136.2	6093.5	6013.4	6002.8	5970.8
30°	10538.2	7848.9	5853.4	5762.7	5885.4	5960.1	5874.7	5784.0	5645.3	5634.6	5559.9
32.5°	10874.3	7571.5	5634.6	5602.6	5741.3	5746.6	5720.0	5581.2	5378.5	5293.1	5207.7
35°	11439.9	7411.4	5469.2	5517.2	5559.9	5543.9	5495.9	5346.5	5143.7	5106.4	5074.3
37.5°	11856.1	7294.0	5298.4	5357.1	5394.5	5415.8	5271.8	5106.4	5111.7	5037.0	5015.6
40°	12325.7	7219.3	5159.7	5186.4	5191.7	5261.1	5085.0	5005.0	5042.3	4994.3	5026.3
42.5°	12928.6	7240.7	5015.6	4994.3	5095.7	5069.0	4983.6	4876.9	4898.3	4754.2	4775.5
45°	13248.8	7384.7	4930.3	4834.2	4946.3	4940.9	4828.9	4727.5	4599.5	4322.0	4332.7
47.5°	13462.2	7422.1	4727.5	4663.5	4780.9	4850.2	4722.2	4487.4	4306.0	4108.6	4060.5
50°	13681.0	7491.5	4631.5	4498.1	4546.1	4711.5	4551.4	4327.3	4151.2	3975.2	4001.8
52.5°	13873.1	7624.8	4444.7	4247.3	4332.7	4514.1	4428.7	4156.6	3964.5	3820.4	3777.7
55°	14726.8	7923.7	4129.9	3873.8	4076.5	4306.0	4258.0	3927.1	3719.0	3644.3	3633.7
56°	14860.2	7934.3	3964.5	3745.7	3932.5	4236.6	4177.9	3825.8	3639.0	3521.6	3527.0
57.5°	14881.5	7806.3	3729.7	3628.3	3788.4	4135.2	4060.5	3745.7	3489.6	3382.9	3350.9
60°	13094.0	6093.5	3436.2	3372.2	3559.0	3825.8	3799.1	3527.0	3238.8	3116.1	3174.8
62.5°	8926.8	4466.1	3206.8	3196.1	3292.2	3553.6	3484.3	3238.8	2998.7	2918.7	2881.3
65°	5197.1	3388.2	2982.7	2940.0	3020.1	3158.8	3206.8	2950.7	2699.9	2646.6	2630.5
67.5°	3068.1	2801.3	2694.6	2625.2	2598.5	2683.9	2721.3	2571.9	2321.1	2246.4	2310.4
70°	2566.5	2491.8	2497.2	2379.8	2315.7	2257.0	2225.0	2091.6	1883.5	1787.5	1760.8
72.5°	2214.4	2182.3	2161.0	2054.3	1995.6	1862.2	1723.5	1590.1	1435.3	1355.3	1360.6
75°	1691.4	1680.8	1691.4	1638.1	1536.7	1430.0	1301.9	1131.2	1013.8	912.4	933.8
77.5°	1008.5	1040.5	1056.5	1035.1	992.5	896.4	816.4	704.3	592.3	512.2	501.6
80°	693.7	720.3	747.0	720.3	677.6	608.3	522.9	437.5	357.5	314.8	304.1
82.5°	528.2	554.9	570.9	544.3	490.9	416.2	357.5	298.8	234.8	192.1	181.4
85°	192.1	218.8	213.4	256.1	277.5	266.8	229.4	176.1	133.4	96.0	90.7
87.5°	53.4	48.0	53.4	53.4	53.4	48.0	42.7	42.7	42.7	26.7	21.3
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)