

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: P651579

Luminaire Tested: **GALN-SA8D-840-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651579  
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-SA8D-840-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 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: 44065.9 lumens  
Efficiency: N/A  
Efficacy: 89.4 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

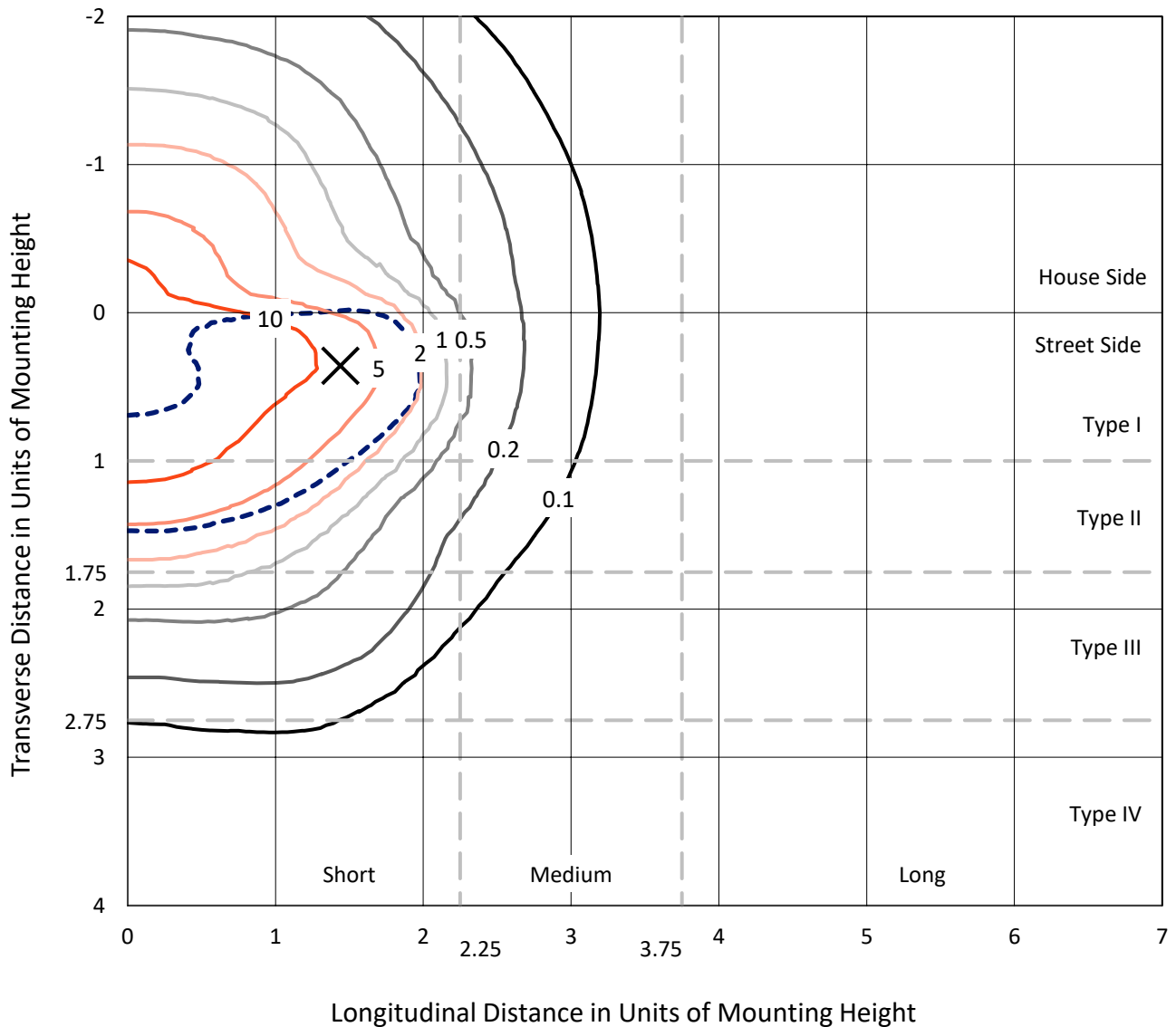
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

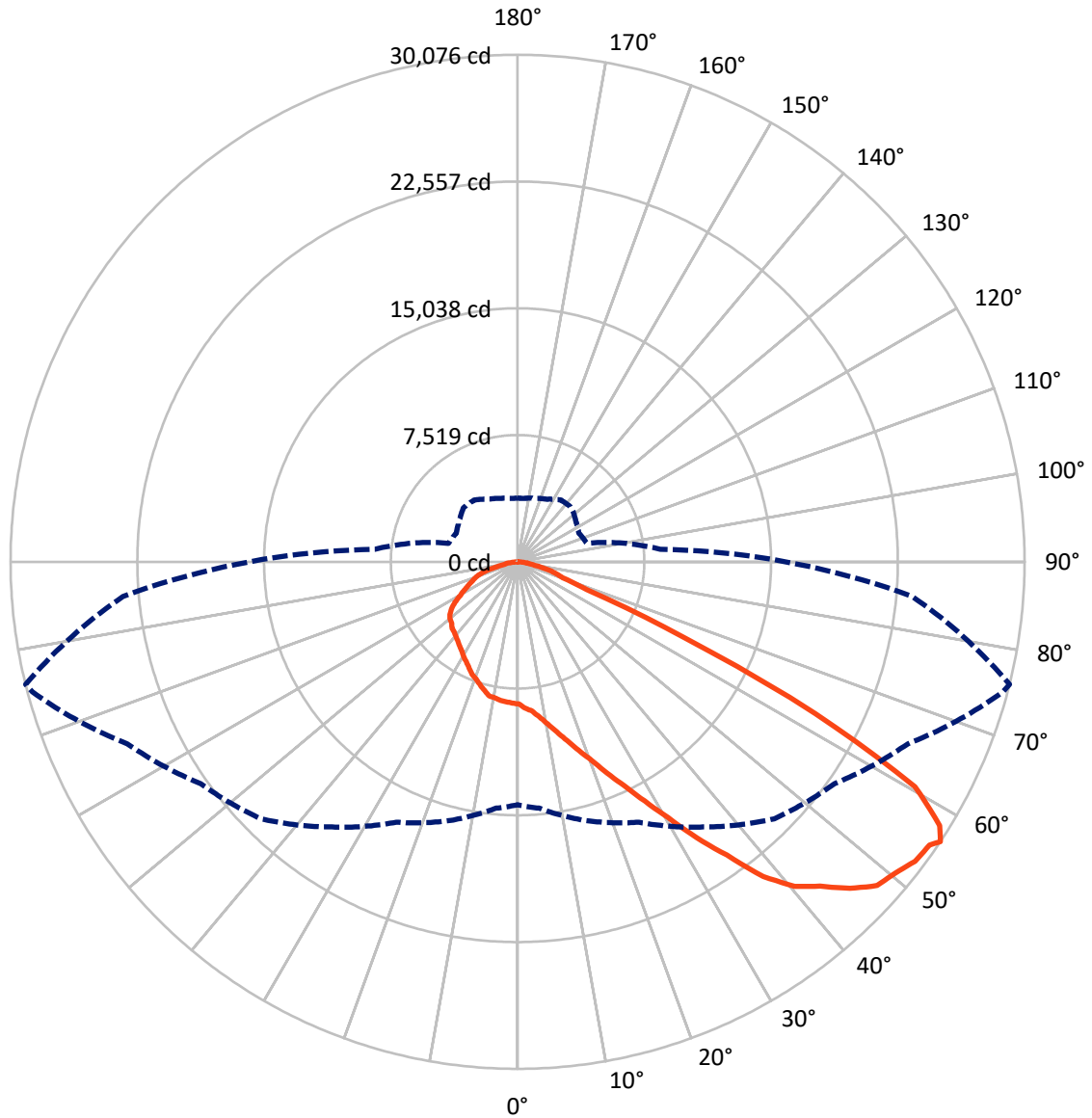
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.8 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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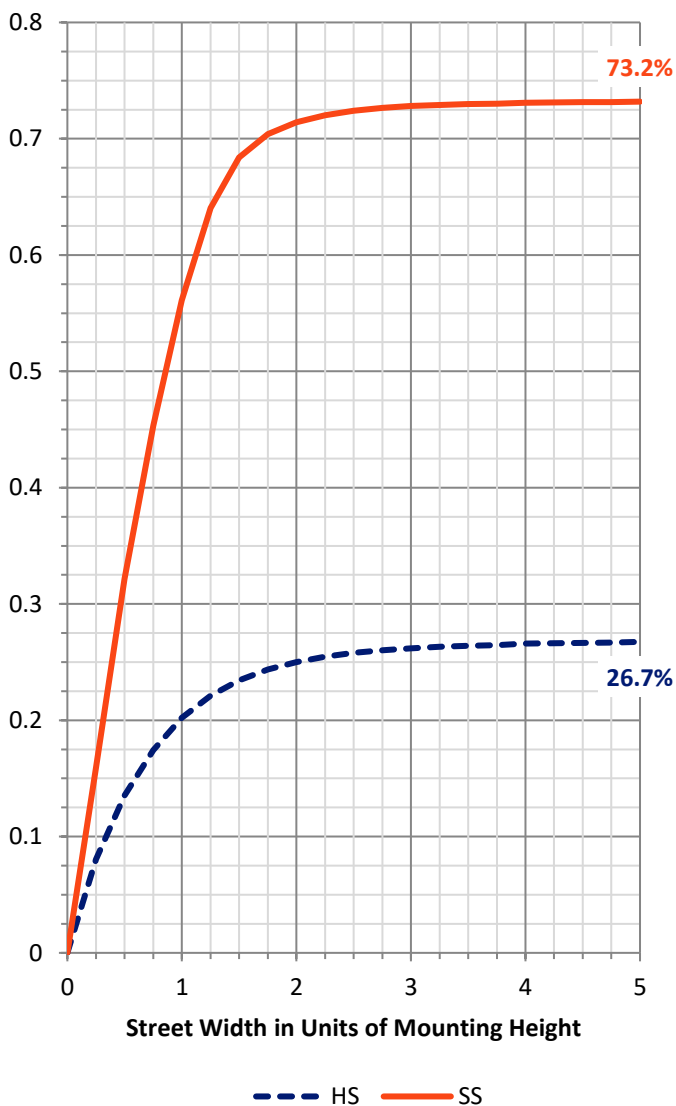
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11848.0	0.0	11848.0
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	32217.9	0.0	32217.9
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	44065.9	0.0	44065.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	836.1	1.9
10°-20°	2626.6	6.0
20°-30°	4593.6	10.4
30°-40°	7192.2	16.3
40°-50°	10462.6	23.7
50°-60°	11499.1	26.1
60°-70°	5132.7	11.6
70°-80°	1482.5	3.4
80°-90°	240.5	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°	44065.9	100.0
0°-180°	44065.9	100.0

**Coefficient of Utilization**



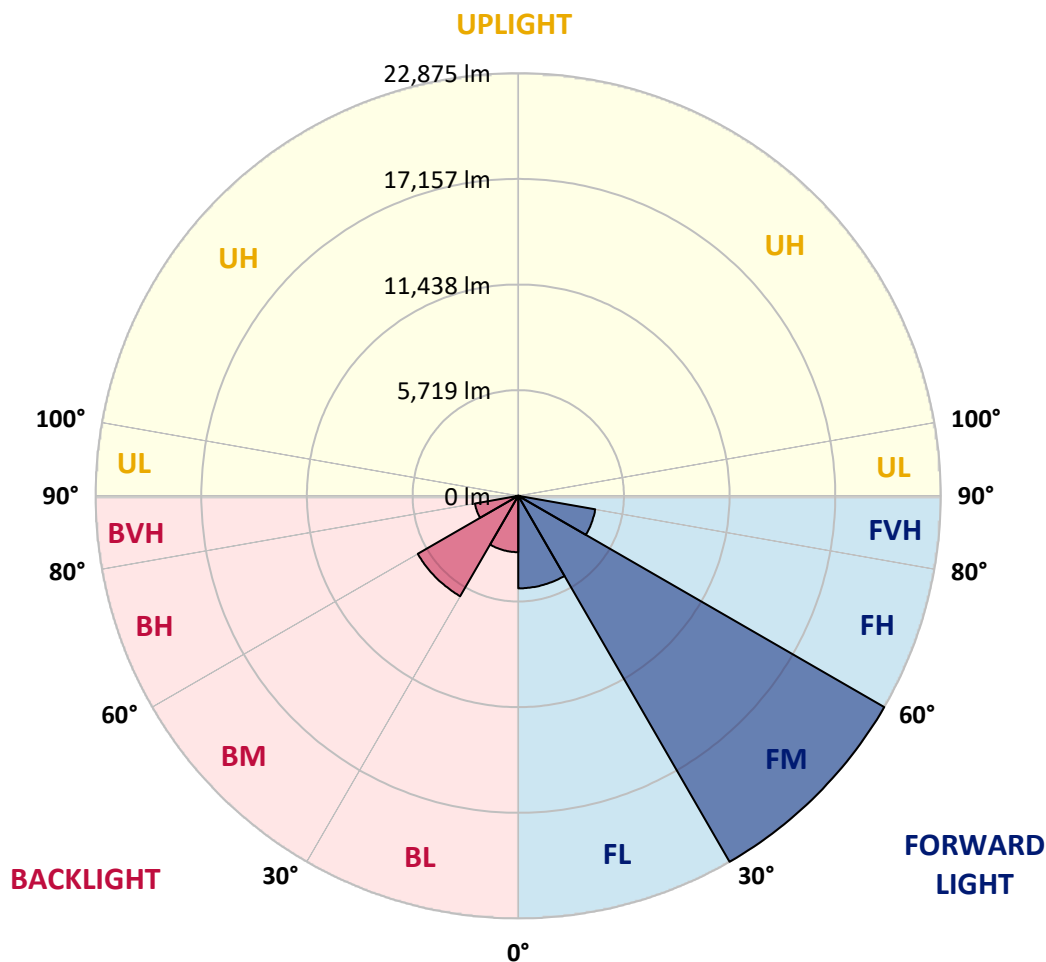
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5007.6	11.4			
FM (30°-60°)	22875.4	51.9			
FH (60°-80°)	4231.4	9.6			G2/5000
FVH (80°-90°)	103.5	0.2			G2/225
BL (0°-30°)	3048.7	6.9	B4/5000		
BM (30°-60°)	6278.5	14.2	B4/8500		
BH (60°-80°)	2383.8	5.4	B3/2500		G3/2500
BVH (80°-90°)	137.0	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°	8431.4	8431.4	8431.4	8431.4	8431.4	8431.4	8431.4	8431.4	8431.4	8431.4	8431.4
2.5°	9288.3	9139.7	9128.4	9088.4	9111.2	9008.4	8899.9	8757.1	8608.6	8699.9	8482.8
5°	9939.5	9739.5	9819.5	9682.4	9699.6	9562.5	9339.7	9174.0	8991.2	8882.7	8728.5
7.5°	10168.0	10185.1	10242.3	10219.4	10105.1	10105.1	9956.6	9665.3	9345.4	9282.6	9025.5
10°	10476.5	10482.1	10419.3	10436.5	10596.4	10522.2	10390.8	10265.1	9853.8	9779.6	9322.6
12.5°	10585.0	10482.1	10585.0	10676.4	10864.9	10967.7	10939.1	10847.8	10407.9	10356.5	9688.2
15°	10602.2	10539.3	10625.0	10830.7	10996.3	11430.5	11647.5	11584.7	11002.0	11007.7	10099.5
17.5°	10522.2	10607.9	10642.1	10819.2	11202.0	11607.5	12235.9	12321.6	11841.7	11767.4	10619.3
20°	10630.7	10567.8	10613.6	10773.5	11281.9	11916.0	12738.5	13304.1	12630.1	12578.6	11156.2
22.5°	11047.7	10962.0	10950.6	11053.4	11419.0	12075.9	13269.8	14286.6	13589.7	13618.2	11824.5
25°	11373.3	11419.0	11379.0	11373.3	11601.8	12315.9	13972.5	15457.7	14892.1	14726.5	12612.9
27.5°	11933.1	12041.7	11961.7	12070.2	12018.8	12675.7	14475.1	16754.3	16297.3	16074.5	13326.9
30°	12710.0	12767.1	12692.9	12692.9	12538.6	13178.4	14932.1	18108.2	17919.7	17616.9	14166.6
32.5°	13732.5	13818.2	13669.7	13584.0	13561.1	13926.7	15754.7	19444.8	19764.8	19507.7	15280.5
35°	15086.4	15034.9	14857.9	14777.9	14469.4	15074.9	16977.1	20981.5	21821.2	21364.2	16628.7
37.5°	16280.2	16200.3	16188.8	15743.3	15817.5	16314.5	18016.7	22146.8	23814.8	23683.4	18051.1
40°	17394.2	17468.4	17588.3	17337.0	17222.8	17771.2	19227.8	23037.9	25362.9	25311.5	19147.8
42.5°	18588.0	18519.5	18730.8	18519.5	18348.1	19125.0	20541.7	23654.9	26722.4	26299.7	20296.0
45°	20318.9	20101.8	20176.0	20193.2	20067.5	20353.1	21084.3	24100.5	27676.4	27630.6	21135.8
47.5°	21764.1	21769.8	21644.1	21547.0	21164.3	21449.9	21689.8	24380.3	28773.1	28698.9	21461.3
50°	22301.0	22226.8	22592.4	22803.7	22826.6	22243.9	22164.0	24534.6	29350.1	29024.5	21786.9
52.5°	20370.3	20438.8	21015.7	22272.5	22998.0	23060.8	22718.0	24854.5	29584.3	29515.7	22049.7
55°	16394.5	16725.8	17674.0	19125.0	20844.4	22735.2	23317.8	25185.8	29710.0	29652.8	23215.0
56°	14412.3	14669.3	15903.2	17039.9	19199.3	21552.7	22940.8	25540.0	29807.1	30075.6	23489.2
57.5°	11601.8	11898.8	12784.3	14075.2	16623.0	19302.0	21901.2	25105.8	29430.0	29532.9	23689.1
60°	7254.7	7283.2	8345.7	9196.9	10990.6	13606.9	16714.4	21844.0	27236.5	27088.0	21278.6
62.5°	4758.4	4764.1	5729.5	6426.4	7243.3	7843.1	9836.7	14486.6	20096.1	19833.3	15149.2
65°	3341.7	3416.0	4164.3	5095.5	5426.7	5112.5	5049.7	7637.5	11224.7	10847.8	8140.1
67.5°	2444.9	2450.6	3113.2	4112.9	4592.7	3890.1	3159.0	3730.2	4444.2	4432.8	3770.1
70°	1616.6	1685.1	2193.6	3073.3	3621.6	3124.7	2582.0	2667.7	2827.6	2827.6	2804.7
72.5°	942.5	1005.4	1342.4	1947.9	2033.6	1953.6	2045.1	2284.9	2387.8	2382.0	2353.5
75°	537.0	565.5	639.7	811.1	1011.1	1193.9	1502.4	1730.9	1833.6	1896.5	1822.3
77.5°	314.2	331.4	377.0	462.7	525.5	645.5	816.9	976.8	1113.9	1096.7	1108.2
80°	165.7	165.7	211.3	274.2	365.6	457.0	542.7	634.0	708.4	725.4	742.6
82.5°	97.1	102.9	137.1	199.9	262.7	325.6	417.0	479.9	548.4	554.1	565.5
85°	51.4	57.1	85.7	131.4	177.1	199.9	205.6	194.2	211.3	199.9	228.5
87.5°	17.2	17.2	28.6	22.9	22.9	28.6	34.3	34.3	45.7	45.7	45.7
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°	8431.4	8431.4	8431.4	8431.4	8431.4	8431.4	8431.4	8431.4	8431.4	8431.4	8431.4
2.5°	8477.1	8477.1	8380.1	8197.2	8168.6	8094.4	8025.8	8020.1	7968.7	7923.1	7900.2
5°	8637.1	8460.0	8317.2	8151.6	7957.3	7866.0	7763.1	7648.8	7603.1	7648.8	7643.2
7.5°	8819.9	8671.4	8242.9	7934.5	7711.7	7620.3	7506.0	7386.1	7397.5	7397.5	7317.5
10°	8996.9	8797.0	8111.5	7717.4	7391.8	7323.3	7260.4	7306.1	7363.2	7374.6	7323.3
12.5°	9294.0	8842.7	8048.7	7500.3	7294.7	7146.1	7186.2	7311.8	7431.7	7397.5	7437.5
15°	9516.8	8882.7	7763.1	7277.5	7020.5	7089.0	7231.8	7317.5	7517.4	7494.6	7534.6
17.5°	9733.8	8905.6	7483.2	6980.5	6872.0	7060.4	7169.0	7414.7	7477.5	7614.6	7666.0
20°	10179.4	8951.3	7197.5	6797.7	6763.4	6980.5	7169.0	7283.2	7420.3	7540.3	7540.3
22.5°	10407.9	8928.4	7009.1	6557.8	6666.4	6803.4	6974.7	7169.0	7169.0	7283.2	7288.9
25°	10693.6	8837.0	6712.0	6443.6	6523.6	6654.9	6849.1	6780.6	6854.8	6854.8	6946.2
27.5°	11019.1	8642.8	6454.9	6237.9	6397.8	6540.6	6569.2	6523.6	6437.9	6426.4	6392.1
30°	11281.9	8402.9	6266.5	6169.3	6300.8	6380.7	6289.3	6192.2	6043.7	6032.2	5952.3
32.5°	11641.8	8105.8	6032.2	5998.0	6146.5	6152.2	6123.7	5975.1	5758.1	5666.7	5575.2
35°	12247.3	7934.5	5855.1	5906.6	5952.3	5935.1	5883.7	5723.8	5506.7	5466.8	5432.4
37.5°	12692.9	7808.8	5672.4	5735.2	5775.2	5798.0	5643.8	5466.8	5472.5	5392.5	5369.6
40°	13195.5	7728.8	5523.9	5552.5	5558.1	5632.3	5443.9	5358.2	5398.2	5346.7	5381.1
42.5°	13841.0	7751.7	5369.6	5346.7	5455.3	5426.7	5335.3	5221.1	5244.0	5089.7	5112.5
45°	14183.8	7905.9	5278.2	5175.4	5295.4	5289.6	5169.7	5061.1	4924.1	4627.0	4638.5
47.5°	14412.3	7945.9	5061.1	4992.6	5118.2	5192.5	5055.4	4804.1	4609.9	4398.5	4347.1
50°	14646.5	8020.1	4958.4	4815.5	4867.0	5044.0	4872.7	4632.7	4444.2	4255.7	4284.3
52.5°	14852.1	8163.0	4758.4	4547.0	4638.5	4832.6	4741.2	4449.9	4244.3	4090.0	4044.4
55°	15766.1	8482.8	4421.4	4147.1	4364.2	4609.9	4558.5	4204.3	3981.5	3901.6	3890.1
56°	15908.9	8494.3	4244.3	4010.1	4210.0	4535.6	4472.8	4095.8	3895.8	3770.1	3775.8
57.5°	15931.7	8357.2	3992.9	3884.4	4055.8	4427.1	4347.1	4010.1	3735.9	3621.6	3587.4
60°	14018.1	6523.6	3678.8	3610.2	3810.2	4095.8	4067.2	3775.8	3467.4	3336.0	3398.8
62.5°	9556.8	4781.3	3433.1	3421.7	3524.5	3804.4	3730.2	3467.4	3210.3	3124.7	3084.7
65°	5563.8	3627.3	3193.2	3147.5	3233.2	3381.7	3433.1	3159.0	2890.4	2833.3	2816.2
67.5°	3284.6	2999.0	2884.7	2810.5	2781.9	2873.3	2913.3	2753.3	2484.9	2404.9	2473.5
70°	2747.6	2667.7	2673.4	2547.7	2479.2	2416.4	2382.0	2239.2	2016.5	1913.6	1885.1
72.5°	2370.6	2336.4	2313.5	2199.3	2136.4	1993.6	1845.1	1702.3	1536.6	1451.0	1456.6
75°	1810.8	1799.4	1810.8	1753.7	1645.2	1530.9	1393.8	1211.0	1085.3	976.8	999.7
77.5°	1079.7	1113.9	1131.1	1108.2	1062.5	959.7	874.0	754.0	634.0	548.4	537.0
80°	742.6	771.2	799.7	771.2	725.4	651.2	559.8	468.4	382.7	337.0	325.6
82.5°	565.5	594.1	611.2	582.6	525.5	445.6	382.7	319.9	251.4	205.6	194.2
85°	205.6	234.2	228.5	274.2	297.0	285.6	245.7	188.5	142.8	102.9	97.1
87.5°	57.1	51.4	57.1	57.1	57.1	51.4	45.7	45.7	45.7	28.6	22.9
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)