

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: P453441

Luminaire Tested: **GALN-SA4C-727-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453441  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4C-727-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19057 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

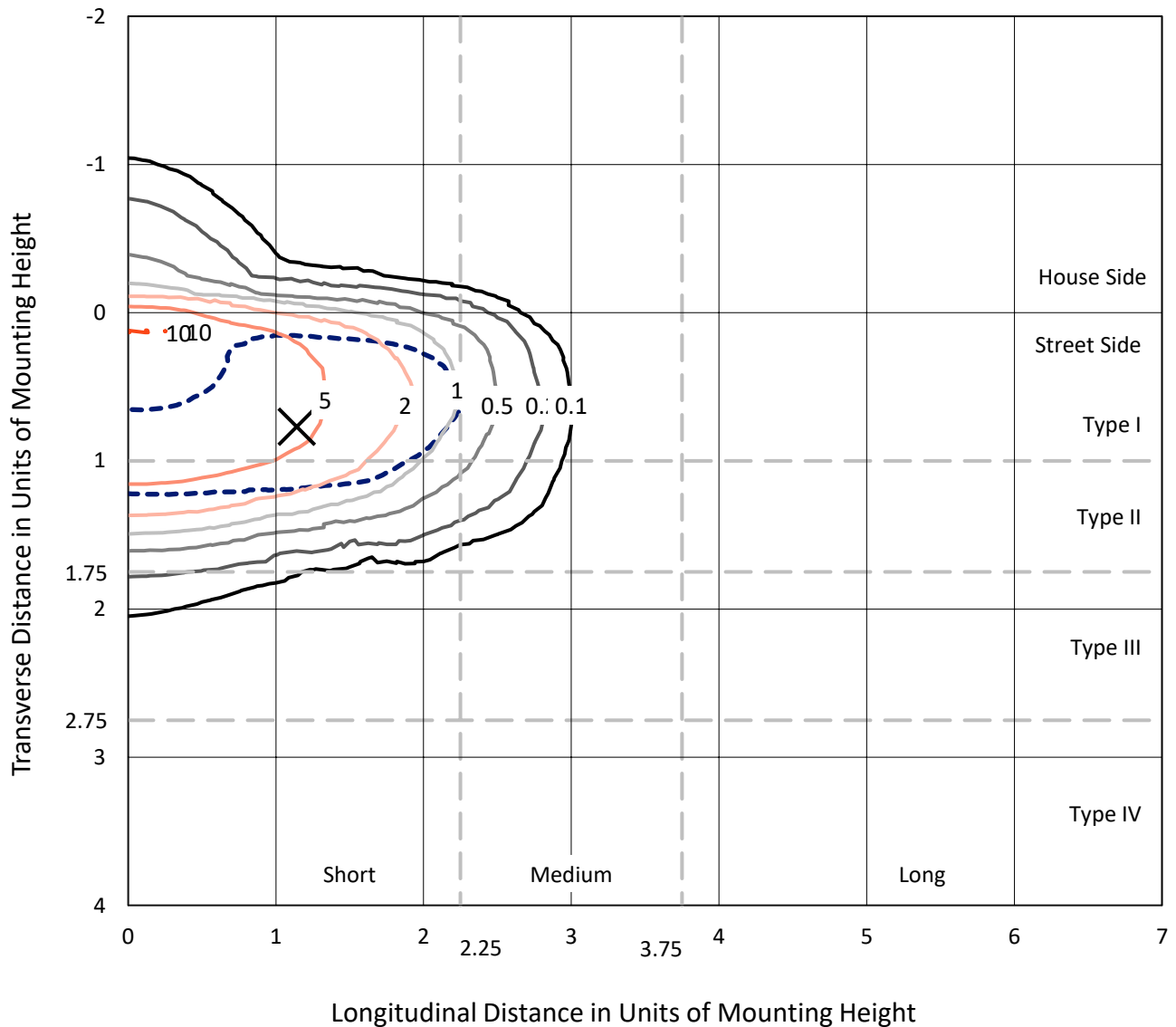
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

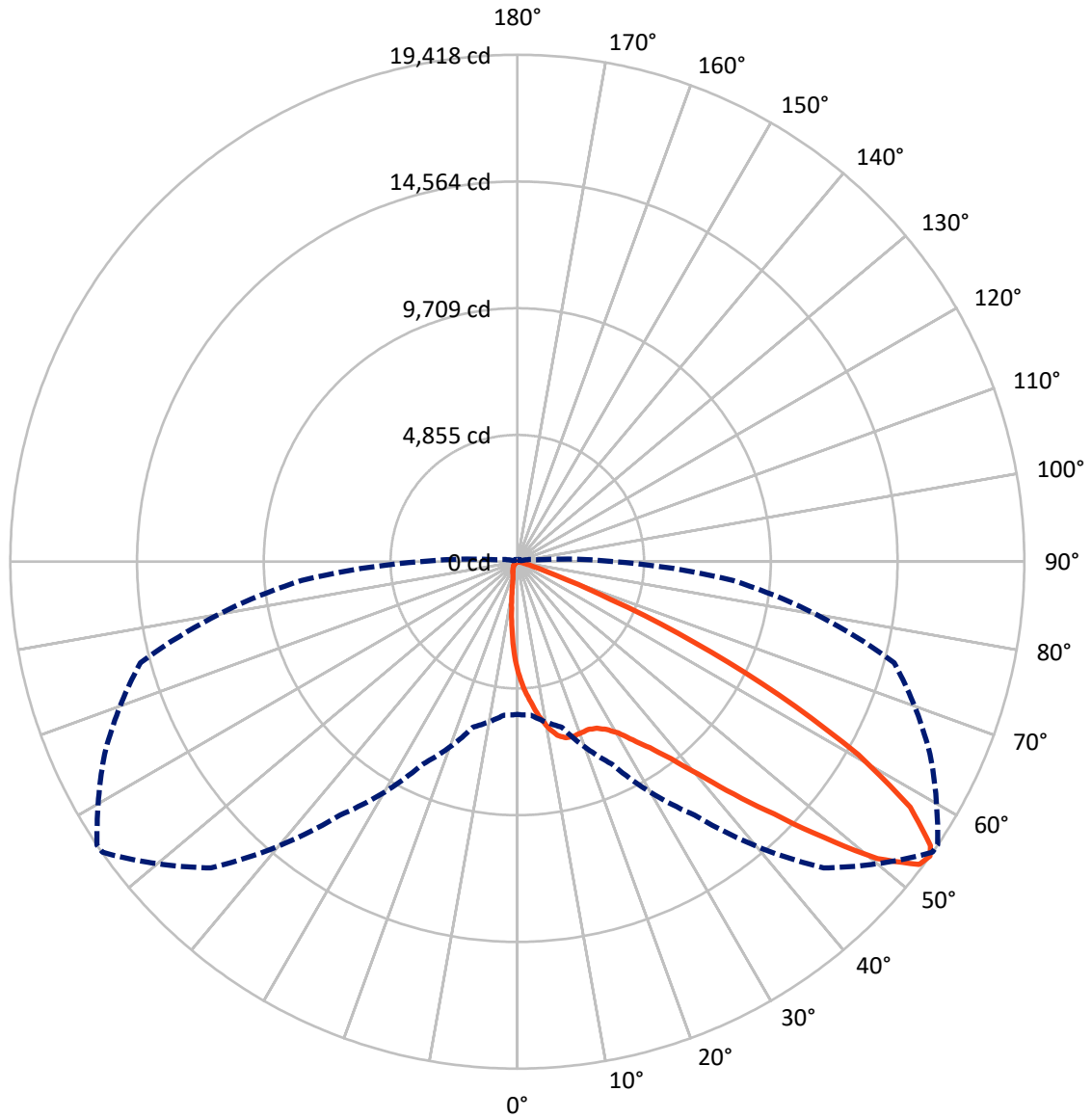
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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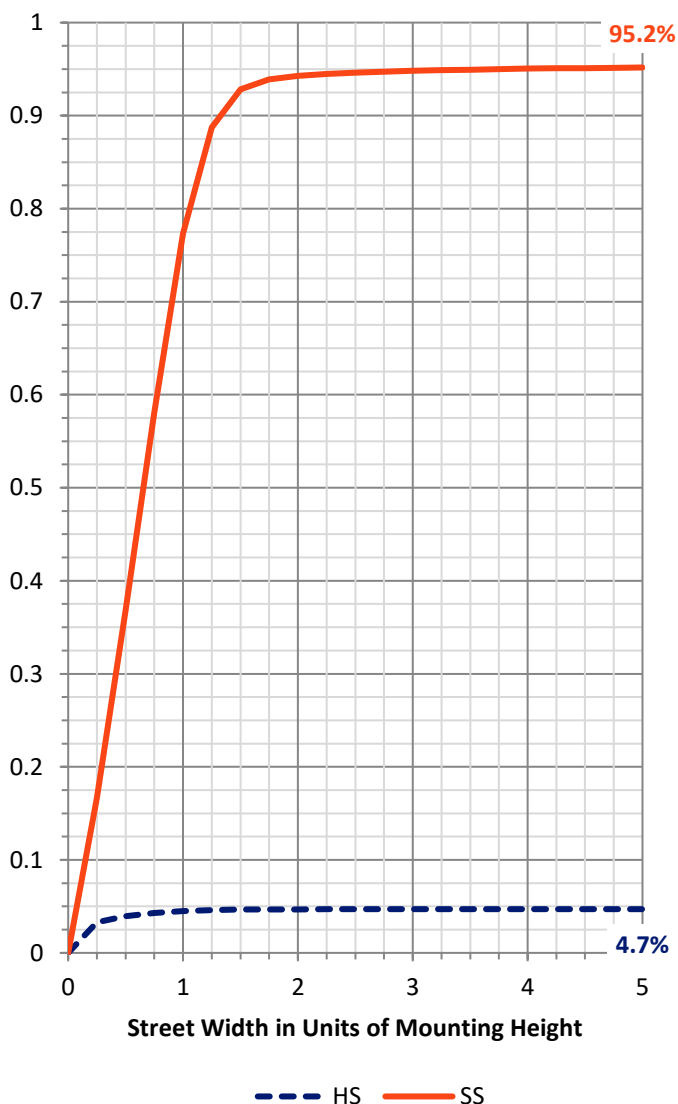
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	901.2	0.0	901.2
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	18155.8	0.0	18155.8
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	19057.0	0.0	19057.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	374.1	2.0
10°-20°	1011.4	5.3
20°-30°	1751.7	9.2
30°-40°	3023.7	15.9
40°-50°	5146.4	27.0
50°-60°	5093.0	26.7
60°-70°	2324.5	12.2
70°-80°	298.5	1.6
80°-90°	33.6	0.2
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°	19057.0	100.0
0°-180°	19057.0	100.0

**Coefficient of Utilization**



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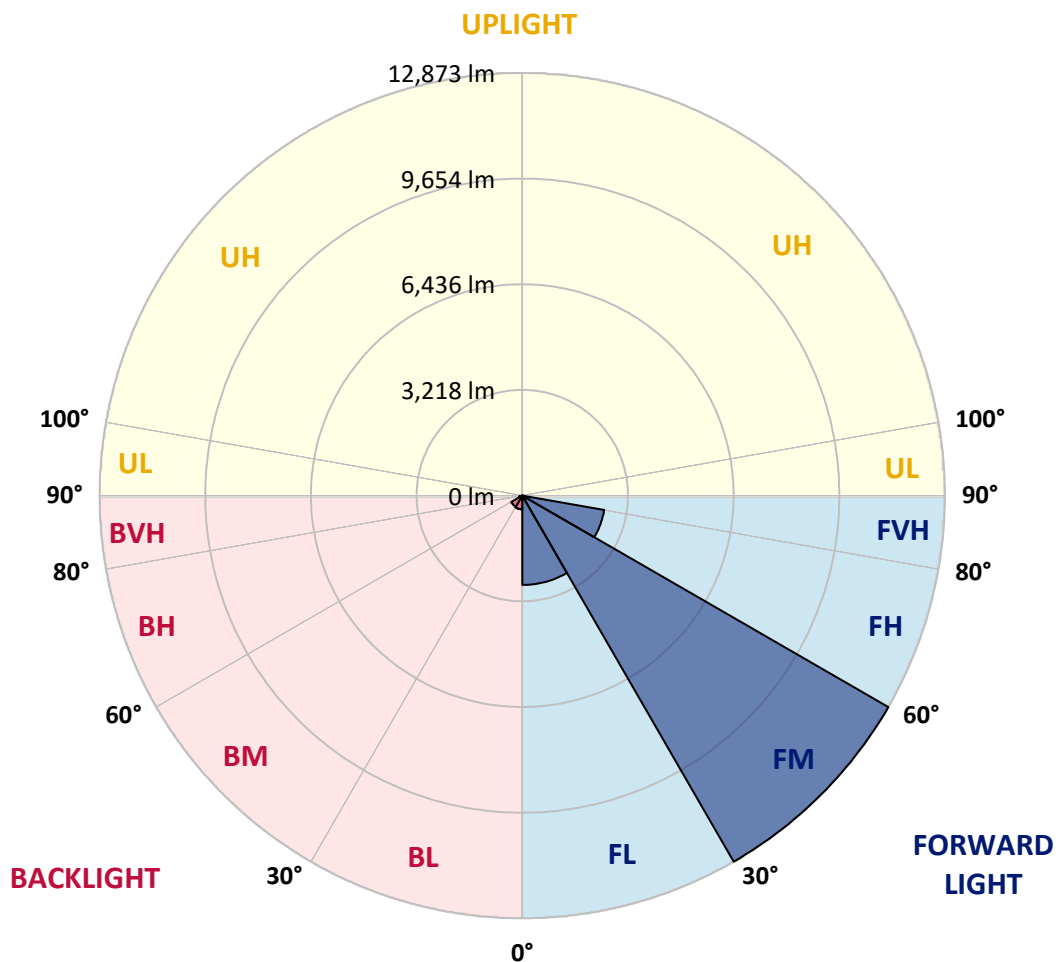
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2720.5	14.3			
FM (30°-60°)	12872.5	67.5			
FH (60°-80°)	2532.8	13.3			G2/5000
FVH (80°-90°)	30.0	0.2			G1/100
BL (0°-30°)	416.8	2.2	B1/500		
BM (30°-60°)	390.5	2.0	B1/1000		
BH (60°-80°)	90.2	0.5	B0/110		G0/110
BVH (80°-90°)	3.6	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4233.9	4233.9	4233.9	4233.9	4233.9	4233.9	4233.9	4233.9	4233.9	4233.9	4233.9
2.5°	5380.8	5343.5	5292.1	5252.2	5158.4	5023.4	4880.6	4880.6	4743.1	4551.5	4356.1
5°	6206.2	6181.8	6131.7	6028.8	5923.4	5734.4	5447.6	5397.5	5151.9	4804.8	4439.6
7.5°	6541.8	6553.4	6556.0	6529.0	6478.8	6292.4	6008.2	5973.5	5581.4	5115.9	4548.9
10°	6220.4	6276.9	6332.2	6444.1	6602.2	6647.2	6486.5	6450.5	6064.8	5430.9	4667.2
12.5°	5742.1	5772.9	5803.8	5979.9	6297.5	6661.4	6829.8	6828.5	6501.9	5744.7	4817.6
15°	5519.7	5546.7	5549.2	5627.7	5902.8	6432.5	6976.4	6995.7	6928.8	6131.7	4979.6
17.5°	5565.9	5587.8	5569.8	5589.1	5733.1	6180.5	6959.7	7024.0	7274.7	6503.2	5126.2
20°	5868.1	5910.5	5841.1	5787.1	5830.8	6113.7	6903.1	6993.1	7519.0	6865.8	5259.9
22.5°	6410.7	6433.8	6346.4	6198.5	6121.4	6253.8	6887.7	6976.4	7727.3	7162.8	5337.1
25°	7013.7	7006.0	6909.5	6743.7	6581.7	6536.7	6989.2	7069.0	7899.5	7430.2	5360.2
27.5°	7616.7	7639.8	7477.8	7272.1	7078.0	6961.0	7216.8	7276.0	8093.7	7735.0	5388.5
30°	8317.4	8280.1	8120.7	7885.4	7663.0	7499.7	7583.3	7600.0	8361.1	8138.7	5463.1
32.5°	9229.0	9126.1	8947.4	8536.0	8376.5	8100.1	8120.7	8141.3	8686.4	8538.6	5553.1
35°	10465.9	10460.7	10111.0	9556.9	9168.6	8825.3	8735.3	8752.0	9178.8	9132.6	5752.4
37.5°	11954.7	11975.3	11576.7	11018.7	10303.9	9758.7	9573.6	9576.1	9927.1	9952.9	6055.8
40°	13167.2	13221.2	12983.3	12606.6	11900.7	11048.3	10737.2	10708.9	10978.9	10946.7	6489.1
42.5°	13689.2	13739.3	13828.1	13959.2	13570.9	12867.6	12133.5	12172.0	12254.3	12029.3	6975.1
45°	13433.3	13513.1	13861.5	14671.5	15036.6	14800.1	13924.5	13789.5	13441.0	13205.8	7463.7
47.5°	12367.5	12561.6	13144.0	14492.8	15770.8	16570.5	15945.7	15766.9	14629.1	14064.6	7774.8
50°	10615.0	10626.6	11437.9	13162.0	15390.2	17687.8	18009.3	17875.5	15736.1	14546.8	7931.7
52.5°	7695.1	7948.4	8691.6	10688.3	13741.9	17518.1	19324.6	19269.3	16877.8	14793.6	8158.0
54°	5850.1	5898.9	6559.8	8541.1	11848.0	16586.0	19405.6	19418.4	17444.8	14942.8	8291.7
55°	4795.8	4678.8	5373.1	7276.0	10555.9	15761.8	19140.7	19202.4	17699.4	15019.9	8390.7
57.5°	2273.2	2274.5	2805.5	3837.9	6611.2	12238.9	17522.0	17740.5	17727.7	15152.4	8695.4
60°	1150.7	1158.4	1275.4	1771.7	3265.8	8136.1	14487.6	15008.4	16363.5	15171.6	8795.7
62.5°	804.9	795.9	776.6	852.4	1374.4	4134.9	10786.0	11238.6	13902.6	14437.5	8476.8
65°	689.2	669.9	615.9	604.3	694.3	1647.0	6718.0	7456.0	10615.0	12501.2	7569.1
67.5°	588.9	581.2	532.3	502.7	491.1	717.4	3466.3	3854.6	7255.4	8986.0	5733.1
70°	500.1	496.3	466.7	429.4	397.3	429.4	1285.7	1593.0	4043.6	4838.2	2705.2
72.5°	406.3	410.1	415.3	367.7	334.3	304.7	549.0	639.0	1692.0	1729.3	946.3
75°	356.1	352.3	352.3	320.1	279.0	226.3	302.1	325.3	518.2	480.9	219.9
77.5°	250.7	241.7	282.9	263.6	232.7	160.7	172.3	182.6	214.7	183.9	102.9
80°	173.6	173.6	181.3	236.6	209.6	117.0	105.4	113.1	127.3	109.3	59.1
82.5°	97.7	100.3	118.3	126.0	122.1	78.4	69.4	70.7	84.9	74.6	37.3
85°	11.6	19.3	68.1	66.9	50.1	34.7	38.6	39.9	52.7	46.3	21.9
87.5°	1.3	2.6	14.1	18.0	12.9	14.1	14.1	14.1	18.0	20.6	15.4
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°	4233.9	4233.9	4233.9	4233.9	4233.9	4233.9	4233.9	4233.9	4233.9	4233.9	4233.9
2.5°	4250.6	4152.9	3920.2	3650.2	3477.9	3197.6	2961.0	2790.0	2747.6	2665.3	2689.8
5°	4245.5	4042.3	3567.9	3066.5	2531.6	2133.0	1836.0	1602.0	1499.2	1431.0	1383.4
7.5°	4248.1	3930.5	3169.3	2370.9	1731.9	1341.0	1065.9	923.2	828.0	788.2	793.3
10°	4255.8	3804.5	2706.5	1756.3	1168.7	866.6	698.2	630.0	597.9	592.7	591.4
12.5°	4273.8	3666.9	2264.2	1303.7	817.7	630.0	565.7	542.6	532.3	532.3	528.4
15°	4293.1	3515.2	1896.5	969.4	630.0	541.3	511.7	500.1	493.7	493.7	492.4
17.5°	4293.1	3340.3	1553.2	752.2	542.6	497.6	474.4	459.0	453.9	453.9	452.6
20°	4266.1	3137.2	1248.4	605.6	492.4	456.4	433.3	416.6	410.1	407.6	406.3
22.5°	4172.2	2865.9	993.9	520.7	451.3	420.4	390.9	371.6	366.4	363.9	365.1
25°	4005.1	2559.9	786.9	457.7	414.0	376.7	351.0	336.9	331.7	331.7	333.0
27.5°	3832.8	2239.7	623.6	410.1	369.0	335.6	315.0	306.0	304.7	308.6	309.9
30°	3673.3	1918.3	505.3	371.6	329.1	300.9	286.7	284.1	284.1	285.4	286.7
32.5°	3495.9	1636.7	423.0	338.1	297.0	272.6	264.9	264.9	267.4	267.4	270.0
35°	3384.0	1395.0	371.6	306.0	272.6	252.0	246.9	248.1	252.0	257.1	259.7
37.5°	3323.6	1202.2	338.1	280.3	249.4	235.3	230.1	232.7	241.7	250.7	252.0
40°	3328.8	1056.9	311.1	258.4	231.4	216.0	212.1	219.9	228.9	237.9	239.1
42.5°	3385.3	948.9	285.4	232.7	216.0	194.1	192.9	200.6	204.4	213.4	214.7
45°	3452.2	870.4	258.4	205.7	187.7	168.4	169.7	176.1	181.3	195.4	198.0
47.5°	3472.8	816.4	227.6	174.9	154.3	147.9	149.1	153.0	163.3	176.1	177.4
50°	3495.9	783.0	198.0	147.9	131.1	129.9	131.1	133.7	140.1	145.3	144.0
52.5°	3594.9	781.7	173.6	128.6	111.9	114.4	115.7	114.4	109.3	101.6	99.0
54°	3687.5	785.6	162.0	119.6	102.9	106.7	105.4	99.0	86.1	78.4	74.6
55°	3762.1	789.4	155.6	113.1	97.7	99.0	100.3	87.4	70.7	63.0	60.4
57.5°	3908.6	780.4	140.1	99.0	86.1	81.0	79.7	57.9	38.6	33.4	30.9
60°	3835.3	704.6	127.3	84.9	73.3	65.6	54.0	32.1	19.3	14.1	14.1
62.5°	3547.3	597.9	113.1	69.4	60.4	50.1	28.3	18.0	9.0	5.1	3.9
65°	3173.2	502.7	101.6	55.3	47.6	32.1	15.4	11.6	3.9	0.0	0.0
67.5°	2359.3	372.9	86.1	43.7	36.0	20.6	10.3	6.4	1.3	0.0	0.0
70°	1092.9	227.6	73.3	33.4	25.7	15.4	7.7	3.9	0.0	0.0	0.0
72.5°	313.7	142.7	60.4	24.4	18.0	12.9	6.4	2.6	1.3	0.0	0.0
75°	109.3	114.4	45.0	18.0	14.1	9.0	5.1	2.6	1.3	0.0	0.0
77.5°	65.6	92.6	28.3	15.4	11.6	7.7	5.1	2.6	1.3	1.3	0.0
80°	37.3	61.7	18.0	12.9	10.3	6.4	3.9	2.6	1.3	1.3	0.0
82.5°	20.6	29.6	14.1	11.6	9.0	6.4	3.9	2.6	1.3	1.3	1.3
85°	16.7	15.4	11.6	10.3	7.7	5.1	3.9	1.3	0.0	0.0	0.0
87.5°	12.9	10.3	10.3	10.3	7.7	5.1	3.9	1.3	0.0	0.0	0.0
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)