

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: P457873

Luminaire Tested: **GALN-SA9B-727-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457873  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA9B-727-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31208 lumens  
Efficiency: N/A  
Efficacy: 85.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G5

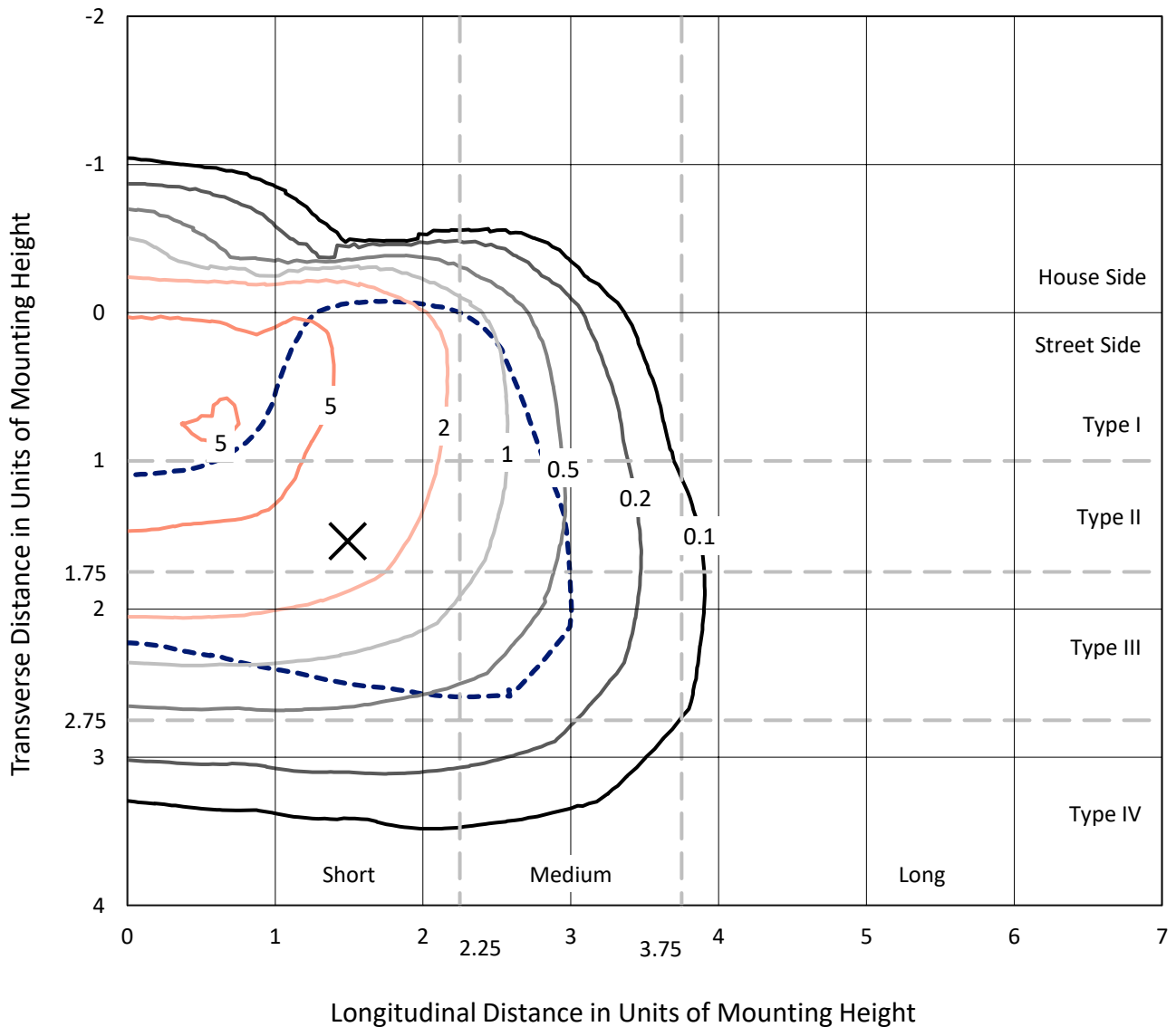
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

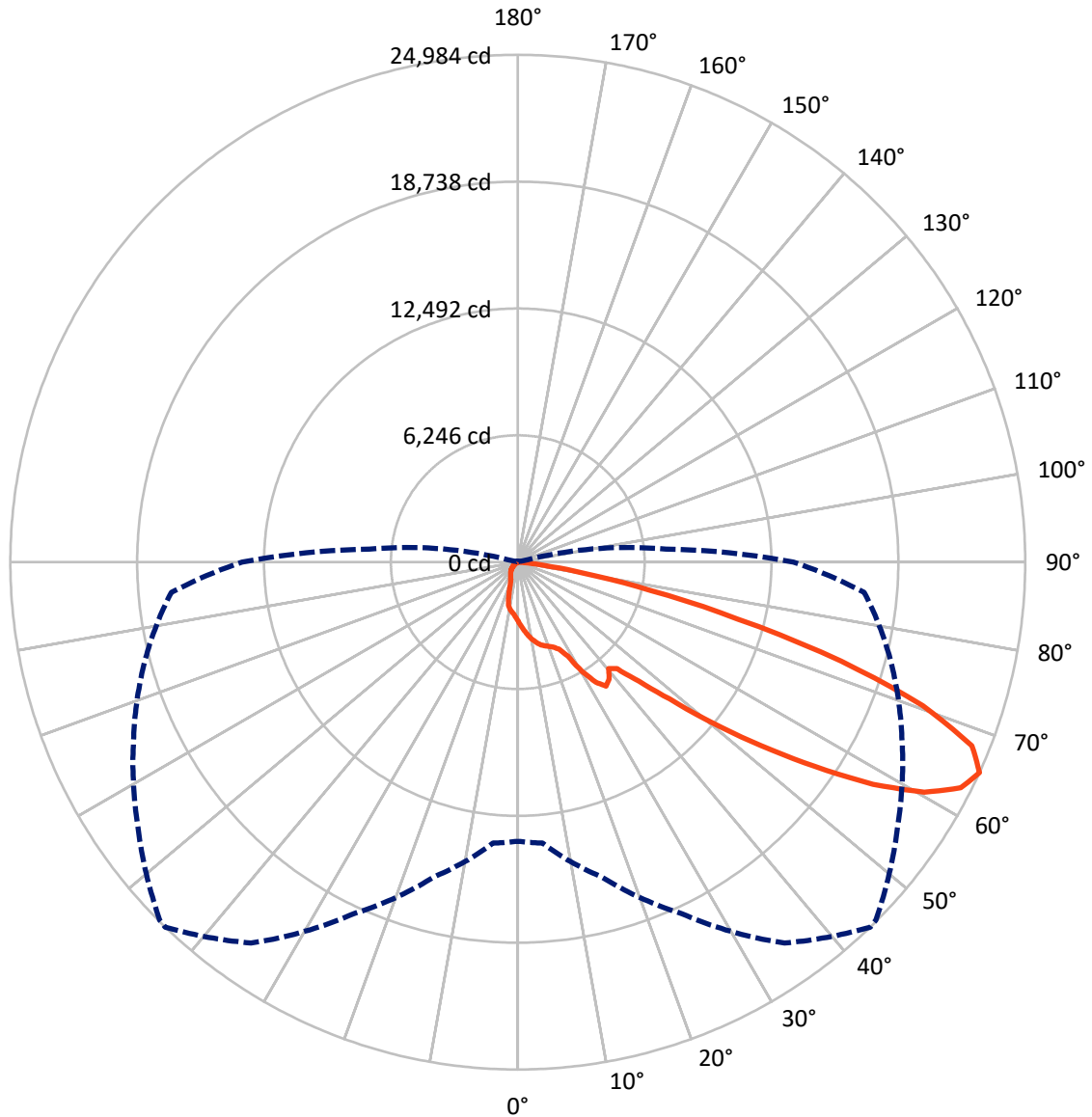
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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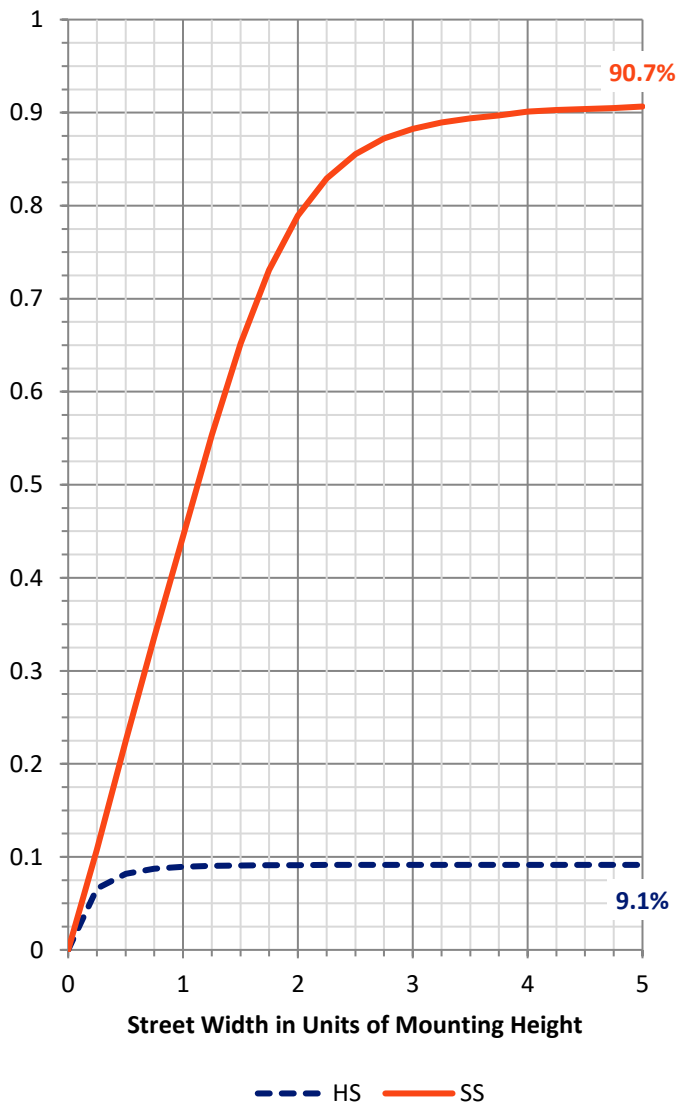
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2875.4	0.0	2875.4
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	28332.7	0.0	28332.7
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	31208.0	0.0	31208.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	288.9	0.9
10°-20°	869.5	2.8
20°-30°	1474.3	4.7
30°-40°	2451.2	7.9
40°-50°	4279.9	13.7
50°-60°	8361.4	26.8
60°-70°	9701.2	31.1
70°-80°	3532.7	11.3
80°-90°	248.9	0.8
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°	31208.0	100.0
0°-180°	31208.0	100.0



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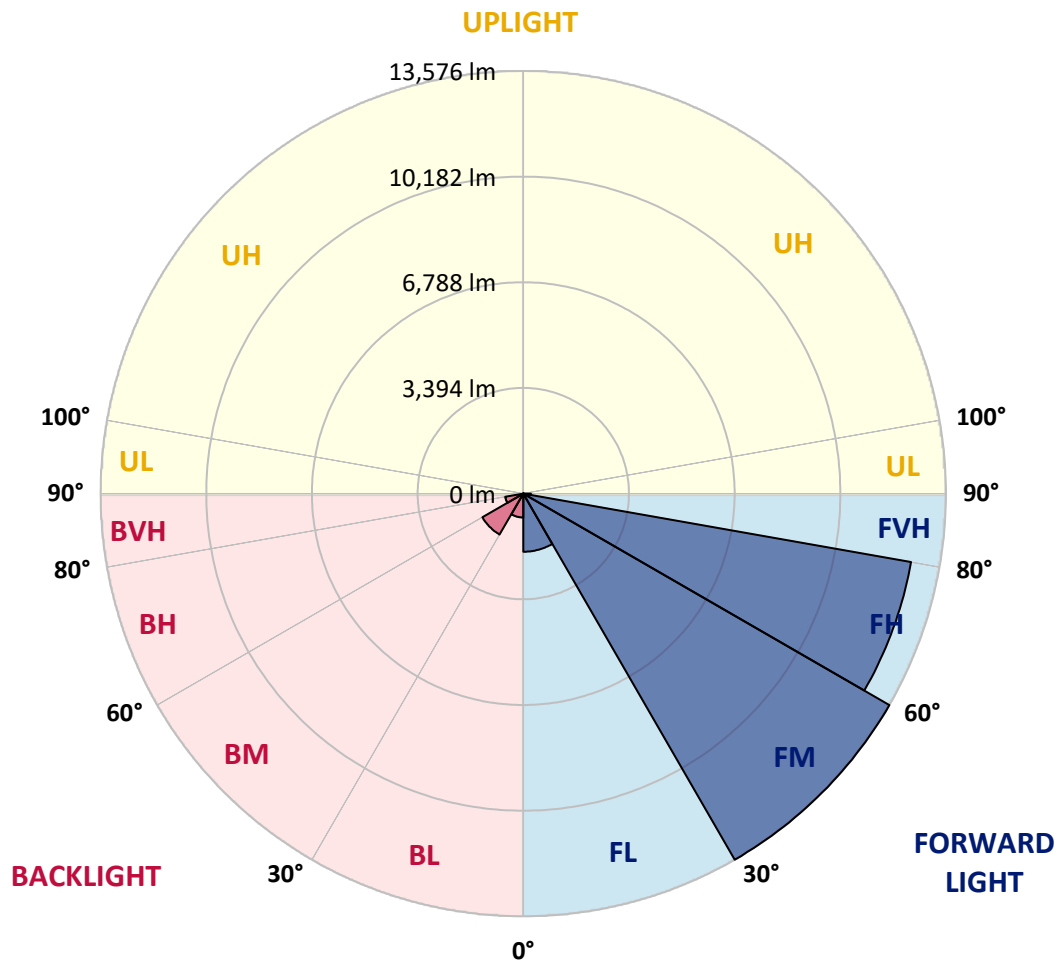
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1866.5	6.0			
FM	(30°-60°)	13575.5	43.5			
FH	(60°-80°)	12645.1	40.5			G5
FVH	(80°-90°)	245.5	0.8			G3/500
BL	(0°-30°)	766.1	2.5	B2/1000		
BM	(30°-60°)	1517.0	4.9	B2/2500		
BH	(60°-80°)	588.8	1.9	B2/1000		G2/1000
BVH	(80°-90°)	3.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2904.5	2904.5	2904.5	2904.5	2904.5	2904.5	2904.5	2904.5	2904.5	2904.5	2904.5
2.5°	3269.4	3255.1	3247.9	3209.8	3181.2	3145.4	3145.4	3100.1	3047.6	2990.4	2937.9
5°	3634.2	3610.4	3579.4	3546.0	3479.2	3383.9	3383.9	3288.5	3178.8	3081.0	2973.7
7.5°	3984.8	3963.3	3910.9	3846.5	3736.8	3636.6	3629.5	3491.2	3360.0	3212.2	3059.5
10°	4292.4	4275.7	4230.4	4106.4	3991.9	3860.8	3858.4	3703.4	3550.8	3369.5	3181.2
12.5°	4507.0	4509.4	4449.8	4330.6	4182.7	4058.7	4049.2	3896.6	3736.8	3541.2	3309.9
15°	4659.7	4659.7	4597.7	4464.1	4330.6	4220.9	4211.3	4077.8	3913.3	3701.0	3450.6
17.5°	4702.6	4716.9	4650.1	4530.9	4423.6	4328.2	4325.8	4213.7	4082.6	3877.5	3593.7
20°	4685.9	4700.2	4647.7	4554.7	4480.8	4426.0	4418.8	4373.5	4251.9	4058.7	3746.3
22.5°	4650.1	4664.4	4626.3	4571.4	4535.7	4552.3	4540.4	4578.6	4514.2	4280.5	3927.6
25°	4657.3	4671.6	4643.0	4612.0	4643.0	4745.5	4776.5	4941.0	4883.8	4561.9	4123.1
27.5°	4881.4	4910.0	4869.5	4883.8	4993.5	5232.0	5291.6	5575.4	5322.6	4919.6	4428.3
30°	5379.8	5360.7	5284.4	5353.6	5735.1	6240.7	6224.0	6178.7	5782.8	5332.1	4790.8
32.5°	5832.9	5816.2	5811.5	6109.5	6801.1	7046.7	7034.8	6596.0	6195.4	5804.3	5148.5
35°	6016.5	5952.1	5937.8	6660.4	7817.0	7492.6	7418.7	6767.7	6696.2	6319.4	5513.4
37.5°	6569.8	6524.5	6302.7	6751.0	7411.6	7304.3	7247.0	7063.4	7230.3	6774.9	5925.9
40°	7709.7	7583.3	7383.0	6944.2	6836.9	6882.2	6939.4	7442.6	7862.3	7397.3	6476.8
42.5°	9126.2	9097.5	8725.5	7907.6	7103.9	7165.9	7239.9	8234.3	8770.8	8334.4	7375.8
45°	10826.4	10867.0	10330.4	9364.6	8310.6	8363.1	8470.4	9402.8	10001.3	9791.5	8789.9
47.5°	12371.7	12340.7	12159.5	11155.5	10182.6	10065.7	10239.8	10902.7	11704.0	11737.4	10545.0
50°	13926.5	14091.0	13821.6	13428.1	12705.5	12459.9	12395.5	12719.9	13940.8	13781.0	12653.1
52.5°	16160.9	16246.8	15741.2	15641.1	15805.6	15009.1	14944.8	15023.5	16115.6	15567.2	14231.7
55°	17565.5	17515.4	17327.0	18109.2	18760.2	17765.8	17684.7	17367.6	17920.8	16828.7	15750.8
57.5°	18009.1	18080.6	18519.4	19933.5	21474.0	20629.8	20482.0	19580.6	19222.9	18004.3	17148.2
60°	17811.1	17942.3	18889.0	20992.3	23129.0	23002.6	22876.2	21361.9	20157.7	18986.8	18128.3
62.5°	16401.8	16585.4	18099.7	20803.9	23689.4	24478.7	24321.3	22473.2	20780.1	19463.7	18300.0
65°	13745.3	13881.2	16056.0	19094.1	22892.9	24984.2	24927.0	22821.3	20877.8	19027.3	17124.4
67.5°	9798.6	10261.3	12276.3	16091.8	20536.8	24121.0	24218.8	22404.0	19959.7	17141.0	14181.7
70°	6159.6	6474.4	7919.5	11520.4	16463.8	21161.6	21483.5	20493.9	17322.3	13361.3	9493.4
72.5°	2937.9	3171.6	4201.8	7292.3	11620.5	16649.8	16905.0	16823.9	13394.7	8417.9	4898.1
75°	1309.2	1397.4	2005.5	3722.5	7502.2	11191.3	11851.8	11961.5	8370.2	4118.3	1905.4
77.5°	667.7	670.1	939.6	1802.8	3746.3	6677.1	6808.2	7192.2	4538.0	1814.7	662.9
80°	355.3	379.2	498.4	851.3	1943.5	3288.5	3271.8	3596.1	2012.7	889.5	221.8
82.5°	159.8	176.5	281.4	445.9	949.1	1247.2	1345.0	1471.3	863.3	567.6	97.8
85°	47.7	57.2	138.3	224.2	343.4	360.1	403.0	519.9	488.9	403.0	50.1
87.5°	7.2	7.2	57.2	62.0	50.1	64.4	66.8	73.9	157.4	147.8	26.2
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°	2904.5	2904.5	2904.5	2904.5	2904.5	2904.5	2904.5	2904.5	2904.5	2904.5	2904.5
2.5°	2909.3	2892.6	2833.0	2782.9	2740.0	2713.8	2682.8	2663.7	2654.1	2647.0	2649.4
5°	2921.2	2880.7	2778.1	2697.1	2635.1	2568.3	2523.0	2496.8	2484.8	2465.8	2465.8
7.5°	2988.0	2923.6	2780.5	2656.5	2549.2	2458.6	2372.8	2341.8	2320.3	2315.5	2310.8
10°	3083.4	3002.3	2806.8	2635.1	2482.4	2358.4	2236.8	2129.5	2046.1	1996.0	1988.8
12.5°	3202.6	3085.8	2847.3	2620.8	2425.2	2205.8	1883.9	1666.9	1521.4	1476.1	1483.3
15°	3312.3	3185.9	2887.8	2608.8	2320.3	1829.0	1464.2	1216.2	1142.3	1135.1	1137.5
17.5°	3443.5	3293.2	2935.5	2592.1	2031.7	1397.4	1087.4	1020.6	1034.9	1058.8	1056.4
20°	3579.4	3407.7	2992.8	2492.0	1621.6	1051.6	961.0	968.2	989.6	1011.1	1015.9
22.5°	3724.9	3538.9	3059.5	2251.1	1237.6	915.7	910.9	920.5	941.9	965.8	970.6
25°	3925.2	3703.4	3109.6	1936.4	937.2	846.6	856.1	872.8	891.9	918.1	922.9
27.5°	4182.7	3925.2	3135.8	1526.2	810.8	784.6	786.9	810.8	834.6	858.5	858.5
30°	4516.6	4189.9	3083.4	1154.2	748.8	724.9	715.4	729.7	760.7	784.6	786.9
32.5°	4814.7	4440.3	2945.1	882.3	703.5	670.1	646.2	648.6	660.6	674.9	677.2
35°	5112.7	4683.5	2709.0	741.6	655.8	617.6	581.9	562.8	553.2	546.1	553.2
37.5°	5494.3	4986.4	2394.2	674.9	615.2	567.6	517.5	476.9	443.5	422.1	426.9
40°	5985.5	5406.1	2022.2	631.9	577.1	519.9	453.1	400.6	343.4	324.3	314.8
42.5°	6796.3	6042.8	1631.1	596.2	538.9	469.8	386.3	314.8	262.3	243.2	248.0
45°	8076.9	6846.4	1256.7	558.0	500.8	414.9	324.3	248.0	205.1	195.5	200.3
47.5°	9774.8	7886.1	968.2	515.1	453.1	355.3	255.2	195.5	169.3	166.9	164.5
50°	11372.5	8854.3	808.4	467.4	395.9	295.7	209.9	164.5	147.8	145.5	145.5
52.5°	12817.6	9548.2	658.2	412.5	333.9	243.2	176.5	145.5	131.2	124.0	124.0
55°	14103.0	10001.3	534.2	345.8	262.3	193.2	152.6	131.2	114.5	104.9	102.5
57.5°	15073.5	10056.2	400.6	276.6	195.5	150.2	131.2	114.5	95.4	83.5	78.7
60°	15488.5	9581.6	295.7	209.9	145.5	119.2	104.9	93.0	71.5	59.6	57.2
62.5°	15071.1	8658.8	219.4	159.8	112.1	88.2	73.9	69.2	50.1	35.8	33.4
65°	13576.0	7325.7	174.1	121.6	83.5	64.4	47.7	45.3	31.0	16.7	14.3
67.5°	10876.5	5737.5	138.3	90.6	59.6	42.9	31.0	28.6	16.7	4.8	4.8
70°	7072.9	3667.6	112.1	66.8	38.2	28.6	19.1	14.3	9.5	2.4	0.0
72.5°	3498.3	1714.6	90.6	52.5	26.2	14.3	7.2	4.8	7.2	0.0	0.0
75°	1356.9	610.5	66.8	35.8	14.3	7.2	4.8	0.0	2.4	0.0	0.0
77.5°	450.7	202.7	40.5	19.1	9.5	4.8	0.0	0.0	0.0	0.0	0.0
80°	166.9	78.7	21.5	11.9	4.8	2.4	0.0	0.0	0.0	0.0	0.0
82.5°	66.8	31.0	14.3	9.5	4.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	33.4	19.1	9.5	7.2	4.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.8	14.3	9.5	7.2	4.8	2.4	0.0	0.0	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)