

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: P647627

Luminaire Tested: **GALN-SA8D-835-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647627  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-835-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41701.8 lumens  
Efficiency: N/A  
Efficacy: 84.6 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

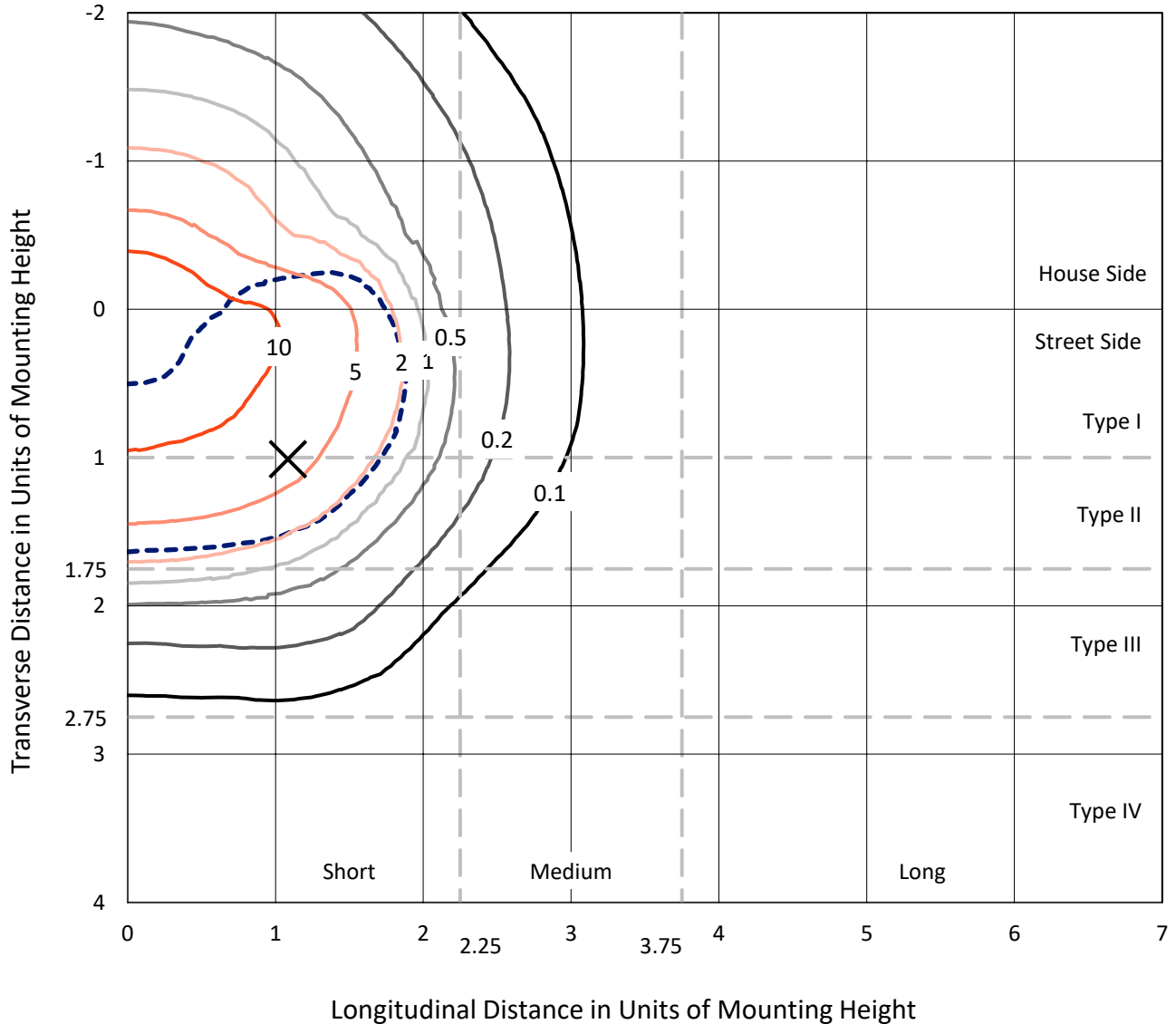
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

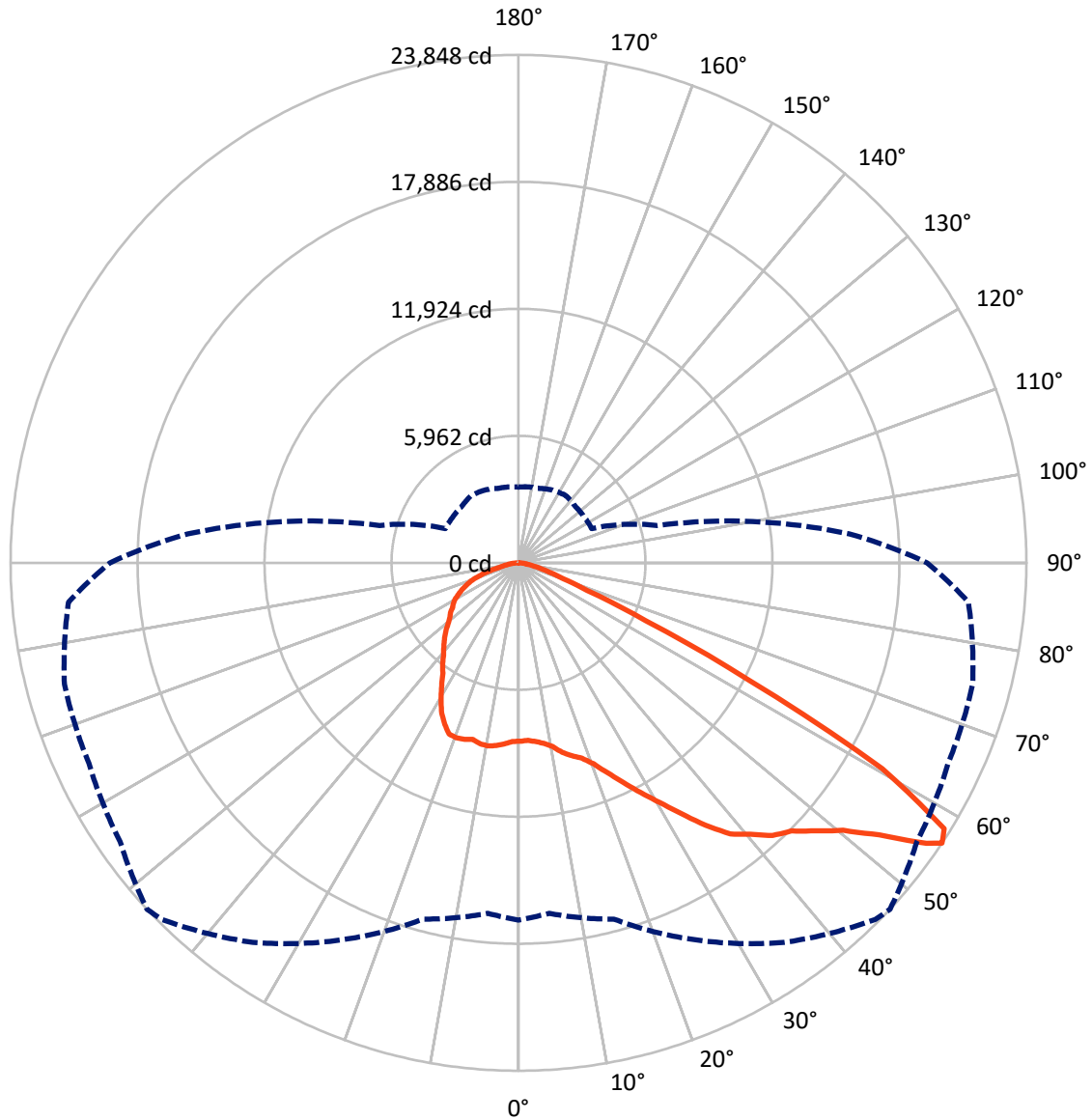
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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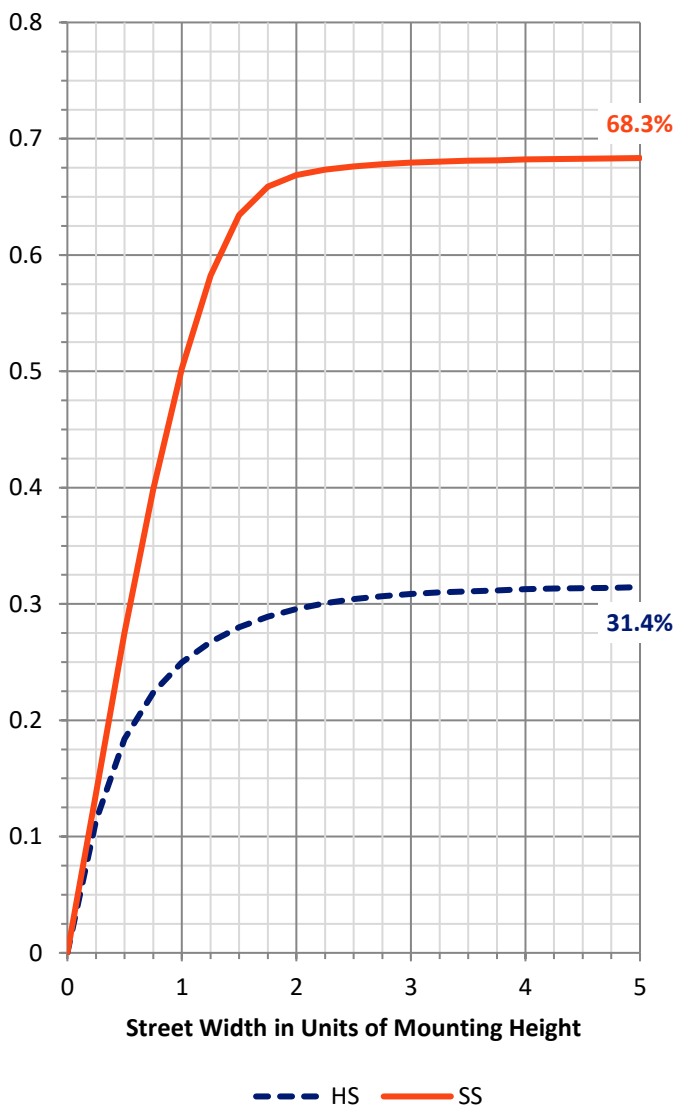
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13214.8	0.0	13214.8
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	28487.0	0.0	28487.0
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	41701.8	0.0	41701.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	816.2	2.0
10°-20°	2574.7	6.2
20°-30°	4551.4	10.9
30°-40°	6836.0	16.4
40°-50°	9381.8	22.5
50°-60°	11177.2	26.8
60°-70°	4783.1	11.5
70°-80°	1353.6	3.2
80°-90°	227.8	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°	41701.8	100.0
0°-180°	41701.8	100.0

**Coefficient of Utilization**



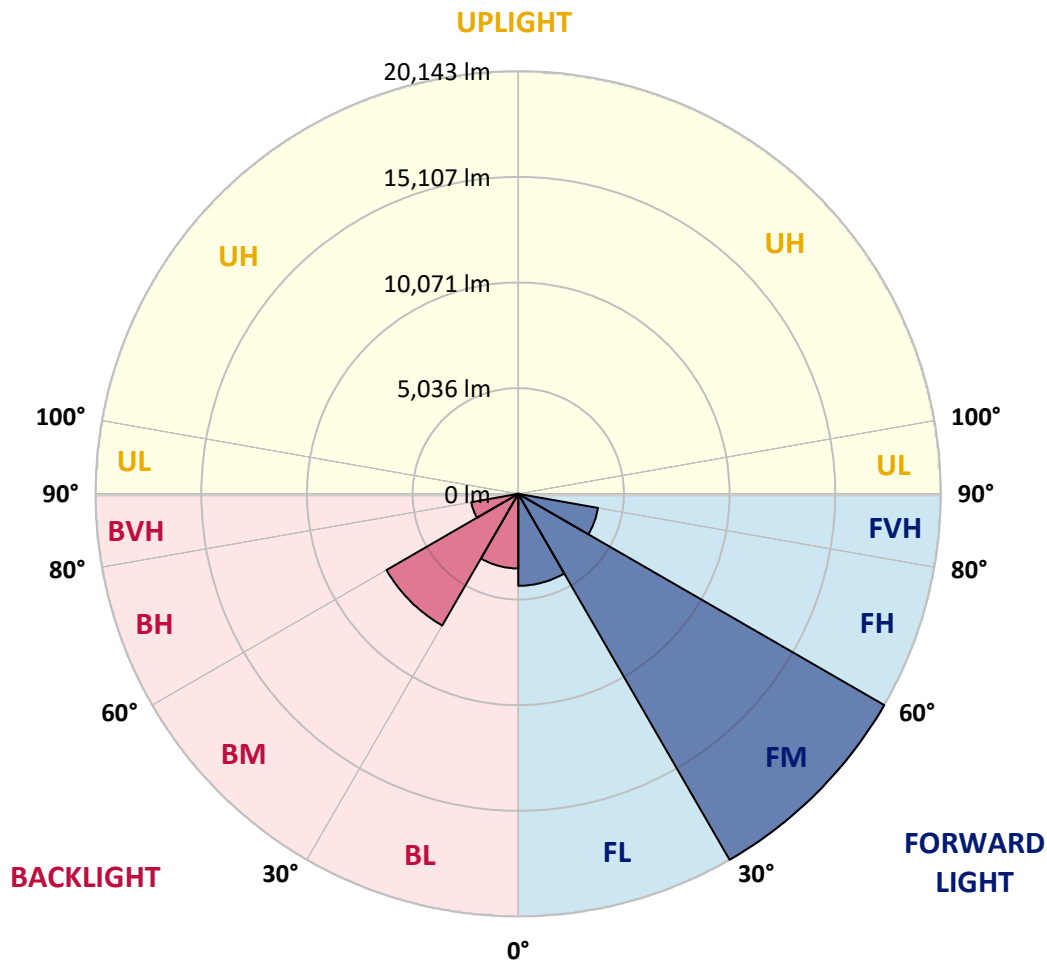
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4384.3	10.5			
FM (30°-60°)	20142.9	48.3			
FH (60°-80°)	3863.1	9.3			G2/5000
FVH (80°-90°)	96.7	0.2			G1/100
BL (0°-30°)	3558.0	8.5	B4/5000		
BM (30°-60°)	7252.1	17.4	B4/8500		
BH (60°-80°)	2273.7	5.5	B3/2500		G3/2500
BVH (80°-90°)	131.1	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°	47°	55°	65°	75°	85°
0°	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6
2.5°	8344.7	8328.8	8318.1	8403.2	8371.3	8376.6	8344.7	8376.6	8397.9	8350.1	8419.2
5°	8328.8	8376.6	8334.1	8360.6	8429.8	8408.6	8429.8	8493.6	8477.7	8461.7	8440.4
7.5°	8477.7	8483.0	8514.9	8525.5	8546.8	8525.5	8557.5	8616.0	8600.0	8509.6	8520.2
10°	8690.4	8701.1	8706.3	8764.9	8802.1	8807.4	8770.2	8717.0	8711.7	8834.0	8748.9
12.5°	8935.0	8908.5	8972.3	8993.5	9036.1	9084.0	9131.8	9020.2	9089.3	9094.6	8993.5
15°	9291.4	9318.0	9243.5	9243.5	9259.5	9264.8	9397.8	9344.6	9334.0	9275.4	9318.0
17.5°	9823.3	9642.4	9637.1	9562.6	9552.0	9594.6	9642.4	9685.0	9828.6	9711.5	9482.8
20°	10211.5	10254.1	10099.8	10009.4	10025.4	10121.1	10073.2	10264.7	10365.7	10174.3	9950.9
22.5°	10897.6	10754.0	10791.2	10589.1	10605.1	10706.1	10700.8	10897.6	10956.1	10652.9	10328.5
25°	11360.3	11323.0	11355.0	11195.4	11216.7	11296.5	11424.1	11748.5	11652.8	11317.7	10567.8
27.5°	12035.7	11961.3	11934.7	11876.2	11854.9	12067.7	12216.6	12562.3	12493.2	12003.9	10993.3
30°	12727.1	12679.3	12705.9	12466.5	12551.6	13003.7	13046.3	13519.6	13487.7	12626.1	11466.6
32.5°	13205.8	13232.4	13280.3	13147.3	13524.9	13886.6	14030.2	14567.3	14593.9	13695.1	12381.4
35°	13977.0	13886.6	13913.2	14067.4	14242.9	14902.4	15136.4	15492.8	15716.1	14817.3	13259.0
37.5°	14461.0	14556.7	14445.0	14689.7	15147.1	15939.5	16152.3	16519.3	16753.2	15923.6	14455.7
40°	15216.2	15061.9	15141.7	15317.3	15785.3	16817.0	16758.5	17136.2	17210.7	16865.0	15572.5
42.5°	16030.0	15955.5	15843.8	16242.7	16636.2	17386.1	17503.2	17327.6	17705.3	17785.1	17168.1
45°	17003.2	17093.6	17109.6	17120.2	17465.9	18120.1	17960.5	17806.3	18242.4	18822.1	18157.3
47.5°	17907.4	17620.2	17827.6	18114.8	18604.1	18609.4	18795.5	18428.6	18891.3	19407.2	19050.9
50°	18210.5	18072.3	18348.8	18891.3	19646.5	19726.3	19747.6	19226.3	19465.7	19875.2	19359.3
52.5°	18093.5	18045.6	18753.0	19593.3	20699.5	21103.8	21210.1	20566.6	20699.5	20513.4	20040.1
55°	17535.1	17678.7	18391.3	20103.9	21800.5	23050.3	23252.4	22438.7	21593.1	21736.7	21215.5
56°	16769.2	16519.3	17317.0	19524.2	21752.6	23683.2	23848.1	22832.3	22257.9	22071.8	21204.8
57.5°	14227.0	13902.6	14950.3	17567.0	20545.3	23443.9	23566.3	22997.2	22146.2	21768.6	19657.1
60°	8328.8	8488.3	9818.0	12115.5	15849.1	19221.0	19630.5	20045.4	19476.3	17785.1	14631.1
62.5°	4020.8	3919.7	4871.7	6945.9	9658.4	12269.8	12147.5	13312.2	13950.4	12636.8	9238.2
65°	2106.1	2095.5	2659.2	3792.1	5307.9	6446.0	6557.7	7185.3	8062.9	6509.9	4690.9
67.5°	1547.7	1590.2	1872.1	2664.5	3414.5	3483.6	3467.7	3781.4	3866.5	3270.9	2882.6
70°	1212.6	1233.9	1441.3	2026.3	2542.2	2276.3	2228.4	2265.7	2515.6	2622.0	2494.4
72.5°	877.6	898.8	1074.4	1366.9	1590.2	1553.0	1584.9	1792.4	2100.8	2212.5	2079.5
75°	585.1	601.0	696.7	835.0	941.4	1015.9	1074.4	1313.6	1600.8	1664.7	1600.8
77.5°	404.2	420.2	484.0	590.4	601.0	648.9	670.1	781.8	957.3	1037.1	994.6
80°	228.7	228.7	260.6	303.2	372.3	436.1	446.8	537.1	616.9	670.1	680.7
82.5°	106.3	111.7	138.3	186.1	244.7	303.2	313.8	372.3	430.8	484.0	499.9
85°	53.2	58.5	79.8	111.7	148.9	180.8	175.5	180.8	191.4	180.8	186.1
87.5°	16.0	16.0	21.3	26.6	21.3	26.6	26.6	31.9	37.2	42.5	47.8
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°	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6
2.5°	8424.5	8440.4	8334.1	8435.1	8397.9	8392.6	8467.0	8456.4	8483.0	8472.4	8408.6
5°	8429.8	8392.6	8504.2	8403.2	8451.1	8552.2	8483.0	8642.5	8562.8	8616.0	8498.9
7.5°	8594.7	8605.3	8584.0	8626.6	8605.3	8653.2	8616.0	8653.2	8589.4	8594.7	8701.1
10°	8738.3	8706.3	8743.6	8690.4	8727.6	8711.7	8626.6	8600.0	8621.3	8594.7	8663.8
12.5°	9004.2	8945.7	8919.1	8855.3	8812.7	8653.2	8520.2	8445.8	8546.8	8562.8	8530.9
15°	9275.4	9280.7	9158.4	9014.8	8748.9	8509.6	8541.5	8568.1	8568.1	8610.7	8530.9
17.5°	9445.6	9445.6	9334.0	9046.8	8775.5	8637.2	8605.3	8520.2	8445.8	8435.1	8429.8
20°	9743.5	9653.1	9397.8	9041.5	8764.9	8701.1	8461.7	8259.6	8105.4	8052.2	8046.9
22.5°	10083.9	9855.2	9498.8	9052.1	8748.9	8658.5	8211.7	7908.6	7632.1	7515.0	7531.0
25°	10397.6	10030.7	9557.3	9004.2	8690.4	8254.3	7754.4	7334.2	7047.0	6951.2	6903.4
27.5°	10615.7	10216.8	9557.3	9046.8	8472.4	7802.2	7291.7	6754.5	6504.5	6440.7	6451.3
30°	10908.2	10450.9	9722.2	8956.3	8036.2	7217.2	6605.5	6254.5	6105.6	6052.4	6089.7
32.5°	11594.3	11062.5	9950.9	8738.3	7520.3	6632.2	6137.5	5940.8	5722.7	5616.3	5579.1
35°	12338.9	11642.2	10174.3	8371.3	6940.7	6100.3	5791.9	5611.0	5350.4	5233.4	5254.6
37.5°	13392.0	12386.7	10190.2	7765.0	6313.0	5802.5	5520.6	5238.7	5026.0	4845.1	4792.0
40°	14812.0	13402.6	10153.0	7126.8	5807.8	5451.5	5244.1	4893.0	4653.7	4526.1	4552.6
42.5°	16061.8	14593.9	9998.8	6403.5	5350.4	5212.1	4978.1	4632.4	4398.4	4265.4	4254.8
45°	17114.9	15471.5	9706.2	5786.5	4967.5	4946.2	4675.0	4409.0	4222.9	4100.6	4153.7
47.5°	18088.2	16178.8	9264.8	5169.6	4616.5	4659.0	4398.4	4233.5	4116.5	4004.8	3999.5
50°	18439.2	16168.2	8876.6	4659.0	4334.5	4313.3	4302.7	4127.1	4004.8	3909.1	3951.6
52.5°	19024.2	16349.0	8456.4	4308.0	4079.3	4084.6	4121.9	3994.2	3855.9	3797.4	3850.6
55°	19864.6	16375.7	7531.0	3898.5	3866.5	3903.8	3903.8	3818.7	3701.6	3653.8	3627.2
56°	19178.5	15583.2	6754.5	3792.1	3760.2	3760.2	3861.2	3765.5	3621.9	3584.7	3552.8
57.5°	17689.3	13652.5	5653.6	3664.4	3616.6	3691.1	3744.2	3643.1	3510.2	3457.0	3488.9
60°	12200.6	9238.2	4249.5	3387.9	3387.9	3510.2	3552.8	3403.9	3345.4	3340.0	3297.4
62.5°	7121.5	5382.3	3324.1	3137.9	3148.5	3249.6	3281.5	3196.4	3122.0	3212.3	3254.9
65°	3776.1	3212.3	2850.7	2872.0	2877.3	2957.1	3095.4	3090.0	3084.7	3111.3	3116.7
67.5°	2733.7	2669.9	2590.1	2568.9	2579.4	2638.0	2776.3	2882.6	2877.3	2813.5	2765.6
70°	2435.8	2345.5	2297.6	2302.9	2260.4	2329.5	2441.2	2510.3	2388.0	2313.5	2281.7
72.5°	2026.3	1999.8	1967.8	1973.2	1888.0	1872.1	1744.4	1744.4	1712.6	1691.3	1728.5
75°	1547.7	1537.0	1553.0	1526.4	1436.0	1340.3	1265.8	1196.7	1090.3	1047.7	1026.4
77.5°	978.6	1010.5	1047.7	989.2	952.0	882.8	808.4	739.3	654.2	606.3	606.3
80°	664.8	691.4	718.0	707.4	664.8	601.0	542.5	468.0	409.5	372.3	367.0
82.5°	505.3	526.6	563.8	521.2	478.6	425.5	377.6	324.4	271.2	228.7	228.7
85°	180.8	207.4	228.7	249.9	265.9	271.2	234.0	191.4	154.3	122.3	117.0
87.5°	47.8	53.2	58.5	53.2	53.2	53.2	58.5	53.2	47.8	37.2	37.2
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)