

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: P533570

Luminaire Tested: **GALN-SA9A-730-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533570  
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-SA9A-730-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 615mA 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: 31669 lumens  
Efficiency: N/A  
Efficacy: 115.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

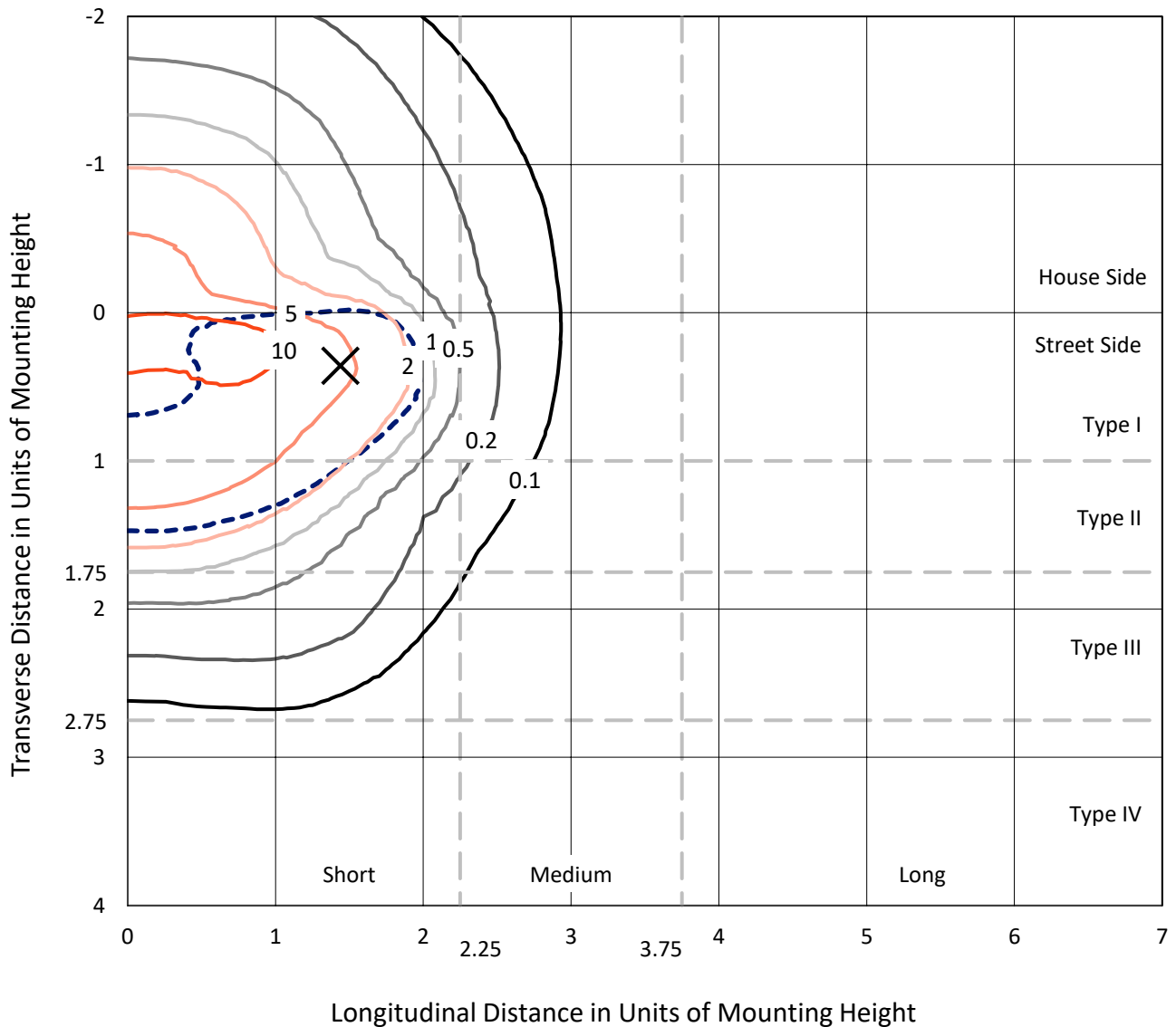
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

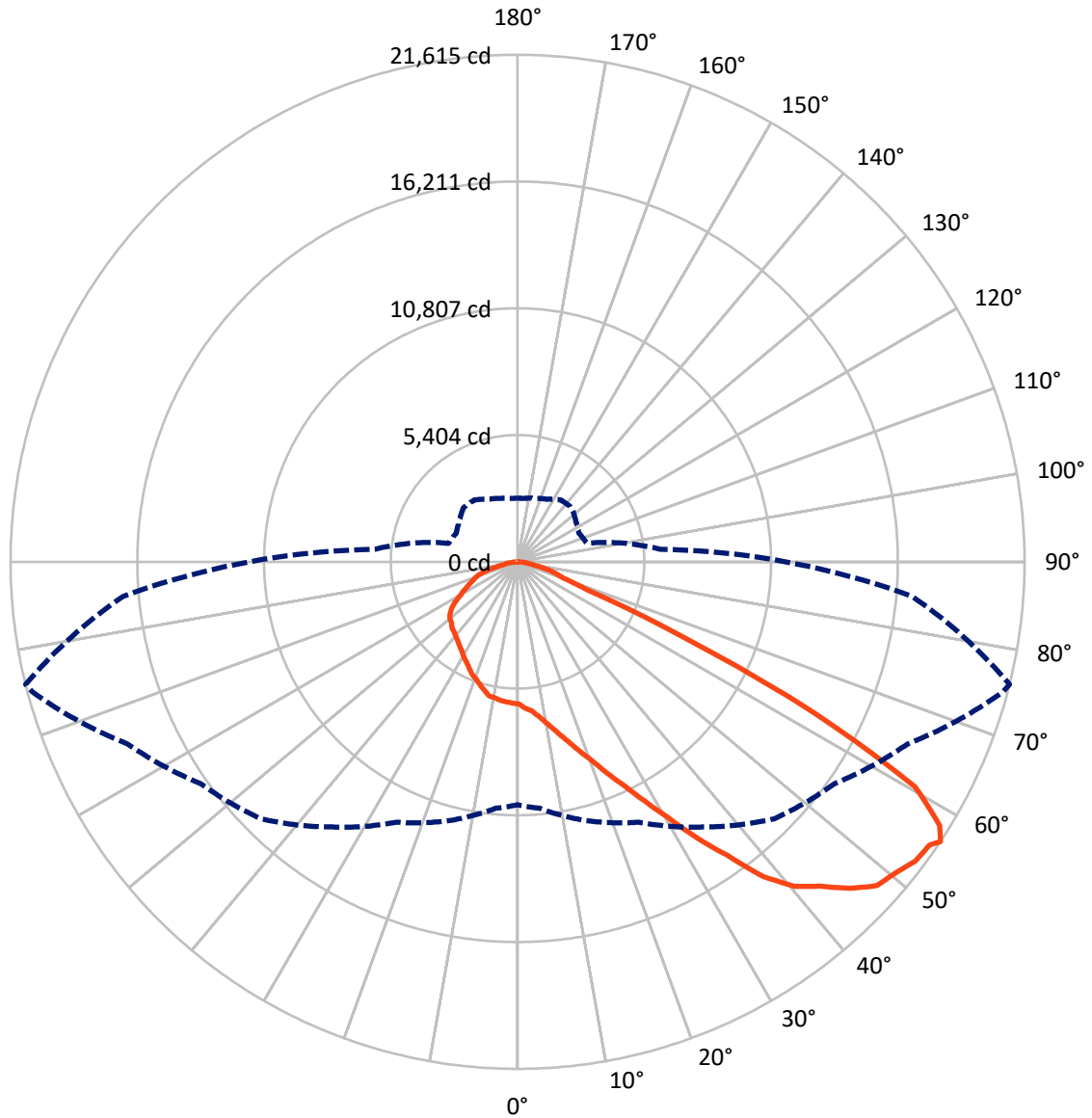
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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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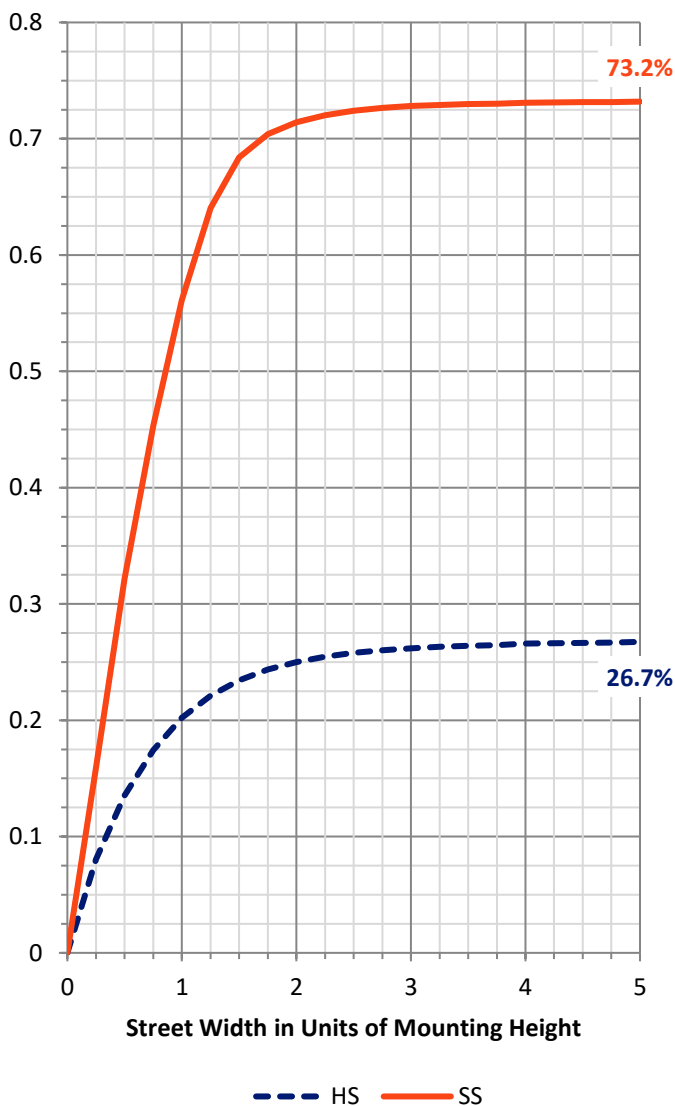
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8514.8	0.0	8514.8
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	23154.1	0.0	23154.1
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	31669.0	0.0	31669.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	600.9	1.9
10°-20°	1887.7	6.0
20°-30°	3301.3	10.4
30°-40°	5168.8	16.3
40°-50°	7519.2	23.7
50°-60°	8264.1	26.1
60°-70°	3688.7	11.6
70°-80°	1065.4	3.4
80°-90°	172.8	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°	31669.0	100.0
0°-180°	31669.0	100.0

**Coefficient of Utilization**

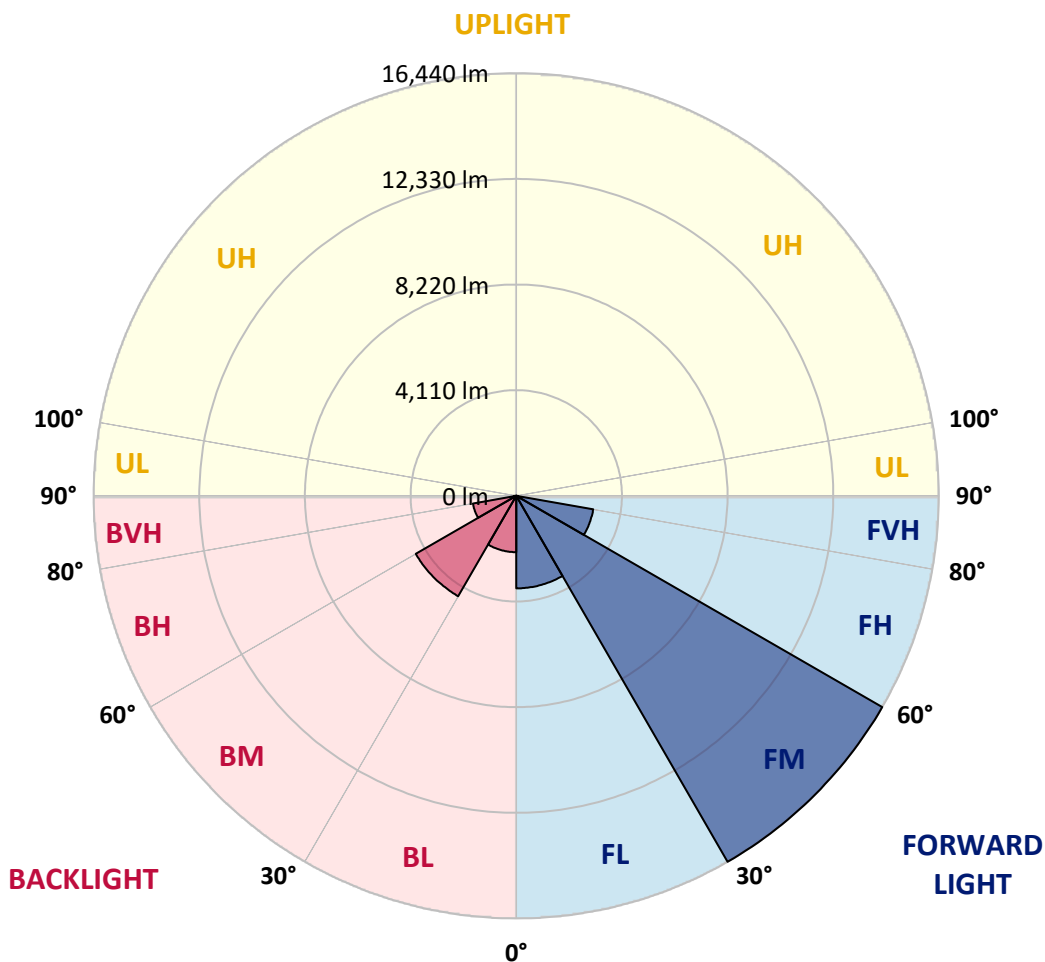


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3598.8	11.4			
FM (30°-60°)	16440.0	51.9			
FH (60°-80°)	3041.0	9.6			G2/5000
FVH (80°-90°)	74.4	0.2			G1/100
BL (0°-30°)	2191.0	6.9	B3/2500		
BM (30°-60°)	4512.2	14.2	B3/5000		
BH (60°-80°)	1713.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	98.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6059.5	6059.5	6059.5	6059.5	6059.5	6059.5	6059.5	6059.5	6059.5	6059.5	6059.5
2.5°	6675.3	6568.5	6560.3	6531.6	6548.0	6474.1	6396.1	6293.5	6186.7	6252.4	6096.4
5°	7143.3	6999.6	7057.0	6958.5	6970.8	6872.3	6712.2	6593.1	6461.8	6383.8	6272.9
7.5°	7307.5	7319.8	7360.8	7344.4	7262.3	7262.3	7155.6	6946.2	6716.3	6671.1	6486.4
10°	7529.2	7533.3	7488.1	7500.4	7615.4	7562.0	7467.6	7377.3	7081.7	7028.3	6699.9
12.5°	7607.2	7533.3	7607.2	7672.8	7808.3	7882.2	7861.7	7796.0	7479.9	7443.0	6962.6
15°	7619.5	7574.3	7635.9	7783.7	7902.7	8214.8	8370.8	8325.6	7906.9	7911.0	7258.2
17.5°	7562.0	7623.6	7648.2	7775.5	8050.5	8342.0	8793.6	8855.2	8510.3	8457.0	7631.8
20°	7640.0	7594.8	7627.7	7742.6	8108.0	8563.7	9154.9	9561.3	9076.9	9039.9	8017.7
22.5°	7939.7	7878.1	7869.9	7943.8	8206.5	8678.7	9536.7	10267.4	9766.6	9787.1	8498.0
25°	8173.7	8206.5	8177.8	8173.7	8337.9	8851.1	10041.6	11109.0	10702.6	10583.5	9064.6
27.5°	8576.0	8654.0	8596.5	8674.5	8637.6	9109.7	10402.9	12040.9	11712.5	11552.4	9577.7
30°	9134.3	9175.4	9122.0	9122.0	9011.2	9471.0	10731.3	13013.9	12878.4	12660.8	10181.2
32.5°	9869.2	9930.8	9824.0	9762.5	9746.0	10008.8	11322.5	13974.5	14204.4	14019.7	10981.7
35°	10842.2	10805.2	10677.9	10620.5	10398.8	10833.9	12201.0	15078.9	15682.3	15353.9	11950.6
37.5°	11700.2	11642.7	11634.5	11314.3	11367.6	11724.8	12948.2	15916.3	17115.1	17020.7	12972.8
40°	12500.7	12554.1	12640.3	12459.7	12377.5	12771.7	13818.5	16556.8	18227.6	18190.7	13761.0
42.5°	13358.7	13309.5	13461.4	13309.5	13186.3	13744.6	14762.7	17000.1	19204.7	18900.9	14586.2
45°	14602.6	14446.6	14500.0	14512.3	14422.0	14627.3	15152.7	17320.4	19890.3	19857.4	15189.7
47.5°	15641.3	15645.4	15555.1	15485.3	15210.2	15415.5	15587.9	17521.5	20678.5	20625.1	15423.7
50°	16027.2	15973.8	16236.6	16388.4	16404.9	15986.1	15928.7	17632.4	21093.1	20859.1	15657.7
52.5°	14639.6	14688.8	15103.5	16006.7	16528.0	16573.2	16326.9	17862.3	21261.5	21212.2	15846.5
55°	11782.3	12020.4	12701.9	13744.6	14980.3	16339.2	16757.9	18100.4	21351.8	21310.7	16684.0
56°	10357.7	10542.5	11429.2	12246.2	13798.0	15489.4	16487.0	18354.9	21421.6	21614.5	16881.1
57.5°	8337.9	8551.4	9187.7	10115.5	11946.5	13871.9	15739.8	18042.9	21150.6	21224.5	17024.8
60°	5213.8	5234.3	5997.9	6609.6	7898.6	9778.9	12012.2	15698.8	19574.2	19467.4	15292.3
62.5°	3419.7	3423.8	4117.6	4618.5	5205.5	5636.6	7069.4	10411.1	14442.5	14253.7	10887.3
65°	2401.6	2455.0	2992.8	3661.9	3900.1	3674.3	3629.1	5488.8	8067.0	7796.0	5850.1
67.5°	1757.1	1761.2	2237.4	2955.8	3300.7	2795.7	2270.2	2680.8	3193.9	3185.7	2709.5
70°	1161.8	1211.1	1576.4	2208.7	2602.8	2245.6	1855.6	1917.2	2032.1	2032.1	2015.7
72.5°	677.4	722.5	964.8	1399.9	1461.5	1404.0	1469.7	1642.1	1716.0	1711.9	1691.4
75°	385.9	406.4	459.8	583.0	726.6	858.0	1079.7	1243.9	1317.8	1363.0	1309.6
77.5°	225.8	238.1	271.0	332.5	377.7	463.9	587.1	702.0	800.5	788.2	796.4
80°	119.1	119.1	151.9	197.1	262.7	328.4	390.0	455.7	509.1	521.4	533.7
82.5°	69.8	73.9	98.5	143.7	188.8	234.0	299.7	344.8	394.1	398.2	406.4
85°	36.9	41.1	61.6	94.4	127.3	143.7	147.8	139.6	151.9	143.7	164.2
87.5°	12.3	12.3	20.5	16.4	16.4	20.5	24.6	24.6	32.8	32.8	32.8
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°	6059.5	6059.5	6059.5	6059.5	6059.5	6059.5	6059.5	6059.5	6059.5	6059.5	6059.5
2.5°	6092.3	6092.3	6022.5	5891.1	5870.6	5817.2	5768.0	5763.9	5726.9	5694.1	5677.7
5°	6207.2	6080.0	5977.4	5858.3	5718.7	5653.0	5579.1	5497.0	5464.2	5497.0	5492.9
7.5°	6338.6	6231.9	5924.0	5702.3	5542.2	5476.5	5394.4	5308.2	5316.4	5316.4	5258.9
10°	6465.9	6322.2	5829.6	5546.3	5312.3	5263.0	5217.9	5250.7	5291.8	5300.0	5263.0
12.5°	6679.4	6355.0	5784.4	5390.3	5242.5	5135.8	5164.5	5254.8	5341.0	5316.4	5345.1
15°	6839.5	6383.8	5579.1	5230.2	5045.4	5094.7	5197.3	5258.9	5402.6	5386.2	5414.9
17.5°	6995.5	6400.2	5378.0	5016.7	4938.7	5074.2	5152.2	5328.7	5373.9	5472.4	5509.3
20°	7315.7	6433.0	5172.7	4885.3	4860.7	5016.7	5152.2	5234.3	5332.8	5419.0	5419.0
22.5°	7479.9	6416.6	5037.2	4712.9	4790.9	4889.4	5012.6	5152.2	5152.2	5234.3	5238.4
25°	7685.2	6350.9	4823.8	4630.8	4688.3	4782.7	4922.3	4873.0	4926.4	4926.4	4992.1
27.5°	7919.2	6211.4	4639.0	4483.0	4598.0	4700.6	4721.1	4688.3	4626.7	4618.5	4593.9
30°	8108.0	6038.9	4503.5	4433.7	4528.2	4585.6	4520.0	4450.2	4343.4	4335.2	4277.7
32.5°	8366.6	5825.5	4335.2	4310.6	4417.3	4421.4	4400.9	4294.2	4138.2	4072.5	4006.8
35°	8801.8	5702.3	4208.0	4244.9	4277.7	4265.4	4228.5	4113.5	3957.5	3928.8	3904.2
37.5°	9122.0	5612.0	4076.6	4121.7	4150.5	4166.9	4056.1	3928.8	3932.9	3875.4	3859.0
40°	9483.3	5554.5	3969.8	3990.4	3994.5	4047.8	3912.4	3850.8	3879.5	3842.6	3867.2
42.5°	9947.2	5570.9	3859.0	3842.6	3920.6	3900.1	3834.4	3752.3	3768.7	3657.8	3674.3
45°	10193.5	5681.8	3793.3	3719.4	3805.6	3801.5	3715.3	3637.3	3538.8	3325.3	3333.5
47.5°	10357.7	5710.5	3637.3	3588.1	3678.4	3731.7	3633.2	3452.6	3313.0	3161.1	3124.2
50°	10526.0	5763.9	3563.4	3460.8	3497.7	3625.0	3501.8	3329.4	3193.9	3058.5	3079.0
52.5°	10673.8	5866.5	3419.7	3267.8	3333.5	3473.1	3407.4	3198.0	3050.3	2939.4	2906.6
55°	11330.7	6096.4	3177.5	2980.5	3136.5	3313.0	3276.0	3021.5	2861.4	2803.9	2795.7
56°	11433.3	6104.6	3050.3	2881.9	3025.6	3259.6	3214.5	2943.5	2799.8	2709.5	2713.6
57.5°	11449.7	6006.1	2869.6	2791.6	2914.8	3181.6	3124.2	2881.9	2684.9	2602.8	2578.1
60°	10074.5	4688.3	2643.8	2594.6	2738.3	2943.5	2923.0	2713.6	2491.9	2397.5	2442.7
62.5°	6868.2	3436.2	2467.3	2459.1	2533.0	2734.1	2680.8	2491.9	2307.2	2245.6	2216.9
65°	3998.6	2606.9	2294.9	2262.0	2323.6	2430.4	2467.3	2270.2	2077.3	2036.2	2023.9
67.5°	2360.6	2155.3	2073.2	2019.8	1999.3	2065.0	2093.7	1978.8	1785.8	1728.3	1777.6
70°	1974.7	1917.2	1921.3	1831.0	1781.7	1736.6	1711.9	1609.3	1449.2	1375.3	1354.8
72.5°	1703.7	1679.1	1662.7	1580.5	1535.4	1432.8	1326.0	1223.4	1104.3	1042.8	1046.9
75°	1301.4	1293.2	1301.4	1260.3	1182.3	1100.2	1001.7	870.3	780.0	702.0	718.4
77.5°	775.9	800.5	812.9	796.4	763.6	689.7	628.1	541.9	455.7	394.1	385.9
80°	533.7	554.2	574.7	554.2	521.4	468.0	402.3	336.6	275.1	242.2	234.0
82.5°	406.4	427.0	439.3	418.7	377.7	320.2	275.1	229.9	180.6	147.8	139.6
85°	147.8	168.3	164.2	197.1	213.5	205.3	176.5	135.5	102.6	73.9	69.8
87.5°	41.1	36.9	41.1	41.1	41.1	36.9	32.8	32.8	32.8	20.5	16.4
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)