

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: P652514

Luminaire Tested: **GALN-SA7B-840-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652514  
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-SA7B-840-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 800mA 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: 27958.2 lumens  
Efficiency: N/A  
Efficacy: 97.8 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

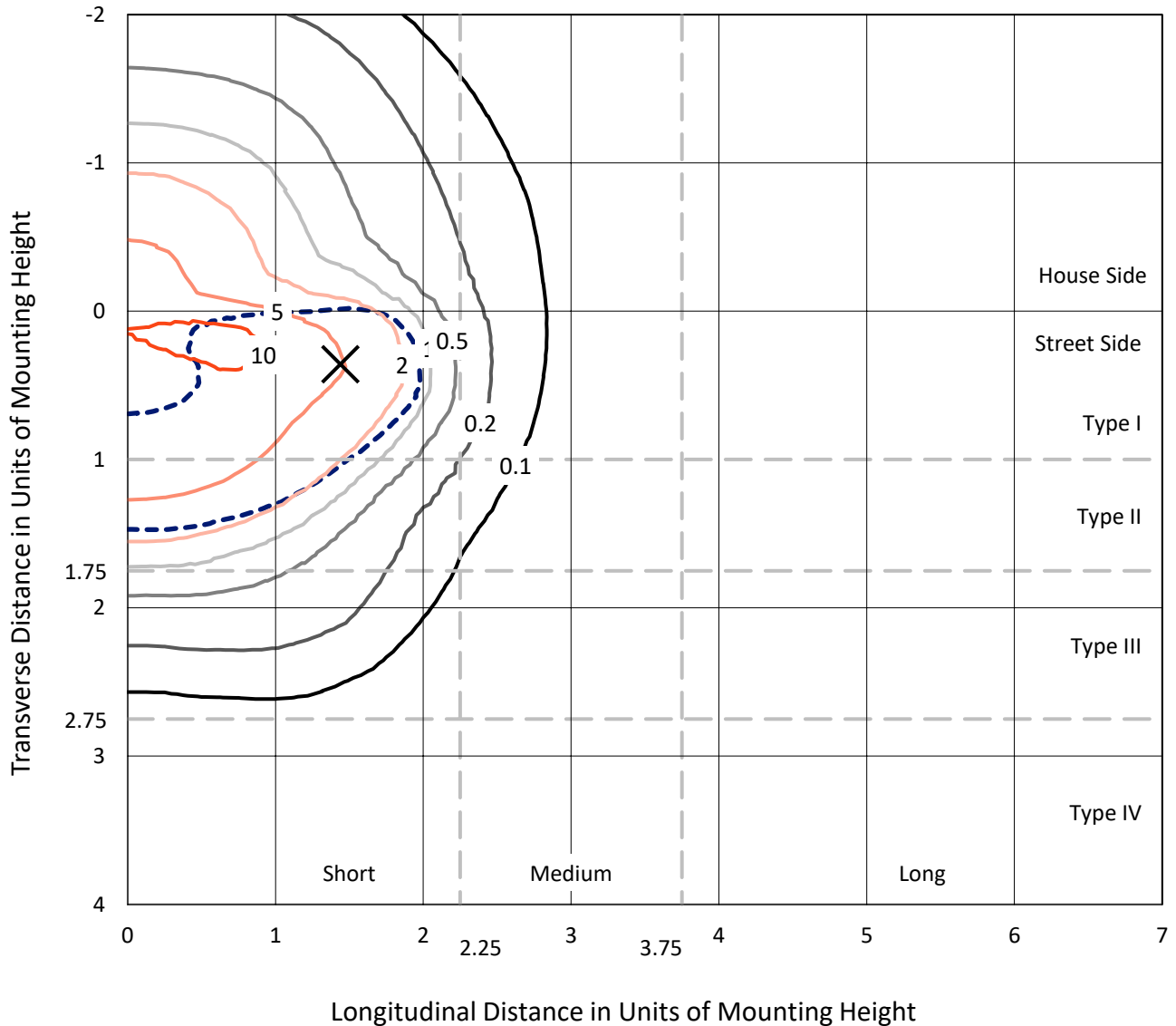
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

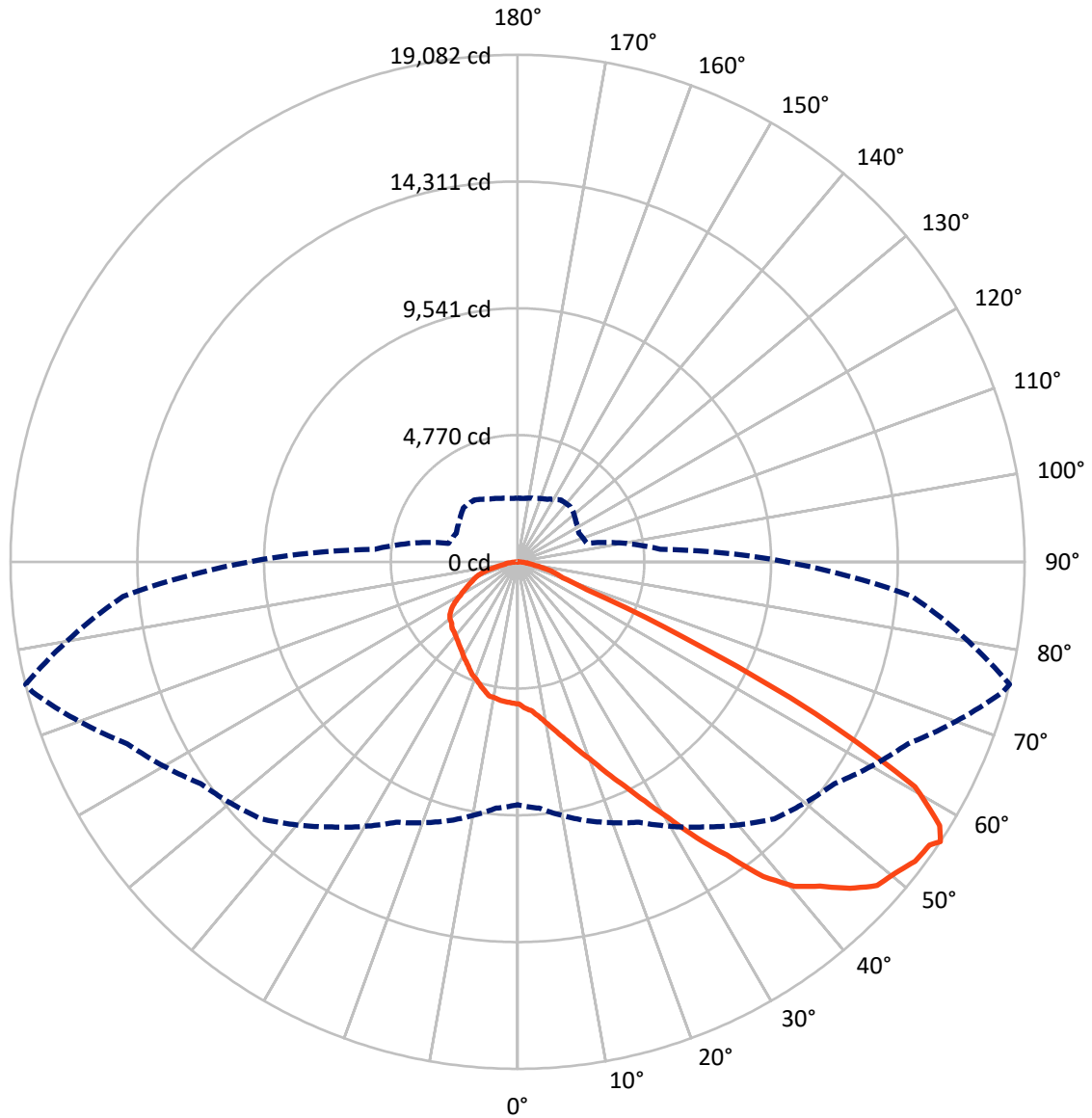
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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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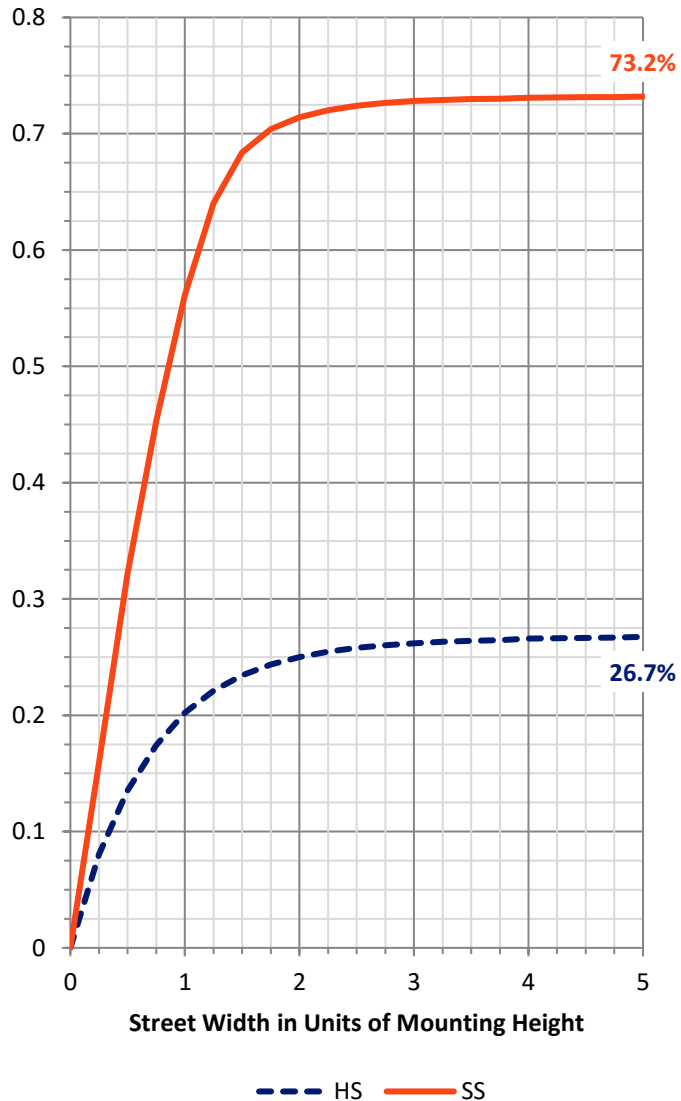
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7517.1	0.0	7517.1
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	20441.1	0.0	20441.1
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	27958.2	0.0	27958.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	530.5	1.9
10°-20°	1666.5	6.0
20°-30°	2914.5	10.4
30°-40°	4563.2	16.3
40°-50°	6638.1	23.7
50°-60°	7295.7	26.1
60°-70°	3256.5	11.6
70°-80°	940.6	3.4
80°-90°	152.6	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°	27958.2	100.0
0°-180°	27958.2	100.0

**Coefficient of Utilization**

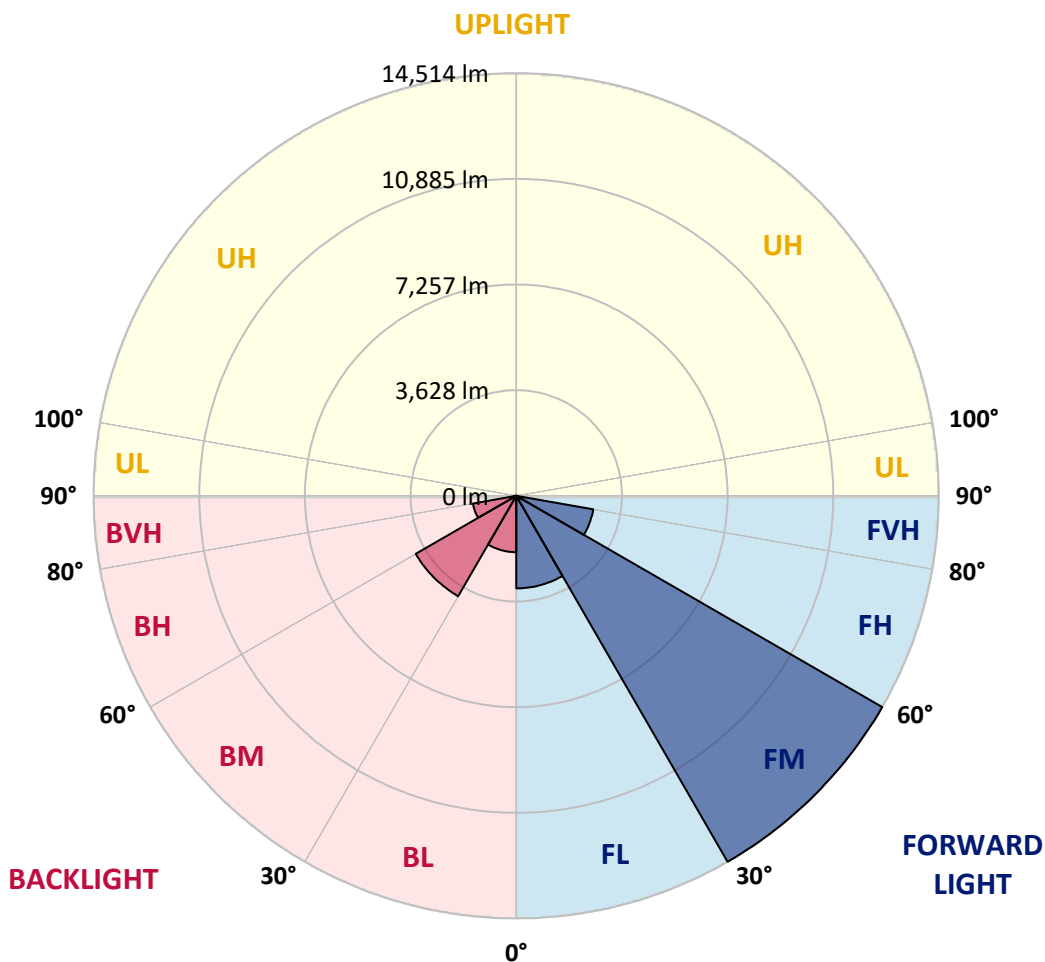


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3177.1	11.4			
FM (30°-60°)	14513.6	51.9			
FH (60°-80°)	2684.7	9.6			G2/5000
FVH (80°-90°)	65.7	0.2			G1/100
BL (0°-30°)	1934.3	6.9	B3/2500		
BM (30°-60°)	3983.5	14.2	B3/5000		
BH (60°-80°)	1512.5	5.4	B3/2500		G3/2500
BVH (80°-90°)	86.9	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°	5349.4	5349.4	5349.4	5349.4	5349.4	5349.4	5349.4	5349.4	5349.4	5349.4	5349.4
2.5°	5893.1	5798.9	5791.6	5766.2	5780.7	5715.5	5646.6	5556.1	5461.8	5519.8	5382.1
5°	6306.2	6179.4	6230.1	6143.2	6154.0	6067.1	5925.7	5820.6	5704.6	5635.8	5537.9
7.5°	6451.2	6462.1	6498.3	6483.9	6411.4	6411.4	6317.1	6132.3	5929.3	5889.4	5726.4
10°	6646.9	6650.5	6610.7	6621.5	6723.0	6675.9	6592.6	6512.9	6251.9	6204.8	5914.8
12.5°	6715.8	6650.5	6715.8	6773.8	6893.4	6958.6	6940.5	6882.5	6603.4	6570.8	6146.8
15°	6726.7	6686.8	6741.2	6871.6	6976.8	7252.2	7390.0	7350.1	6980.4	6984.0	6407.7
17.5°	6675.9	6730.3	6752.1	6864.4	7107.2	7364.6	7763.2	7817.6	7513.2	7466.1	6737.5
20°	6744.8	6705.0	6733.9	6835.4	7157.9	7560.3	8082.2	8440.9	8013.3	7980.7	7078.2
22.5°	7009.4	6955.0	6947.8	7013.0	7245.0	7661.8	8419.3	9064.3	8622.2	8640.3	7502.3
25°	7215.9	7245.0	7219.6	7215.9	7360.9	7814.0	8865.0	9807.3	9448.5	9343.4	8002.5
27.5°	7571.1	7640.0	7589.3	7658.1	7625.5	8042.3	9184.0	10630.0	10340.1	10198.7	8455.4
30°	8064.0	8100.3	8053.2	8053.2	7955.3	8361.2	9473.9	11489.0	11369.4	11177.3	8988.2
32.5°	8712.8	8767.2	8672.9	8618.6	8604.0	8836.0	9995.8	12337.0	12540.0	12376.9	9695.0
35°	9571.8	9539.1	9426.8	9376.1	9180.3	9564.5	10771.4	13312.0	13844.8	13554.8	10550.3
37.5°	10329.2	10278.4	10271.2	9988.6	10035.7	10350.9	11431.0	14051.3	15109.7	15026.3	11452.7
40°	11035.9	11083.0	11159.1	10999.7	10927.2	11275.1	12199.4	14616.7	16091.9	16059.2	12148.6
42.5°	11793.4	11749.9	11884.0	11749.9	11641.2	12134.1	13032.9	15008.1	16954.4	16686.2	12877.1
45°	12891.6	12753.8	12800.9	12811.9	12732.2	12913.3	13377.2	15290.9	17559.7	17530.6	13409.8
47.5°	13808.5	13812.2	13732.4	13670.8	13428.0	13609.1	13761.4	15468.4	18255.5	18208.4	13616.5
50°	14149.2	14102.1	14334.0	14468.1	14482.6	14113.0	14062.2	15566.3	18621.6	18415.0	13823.0
52.5°	12924.2	12967.7	13333.7	14131.1	14591.4	14631.2	14413.8	15769.3	18770.2	18726.7	13989.7
55°	10401.7	10611.9	11213.6	12134.1	13225.0	14424.7	14794.4	15979.5	18849.9	18813.7	14729.1
56°	9144.1	9307.2	10090.0	10811.2	12181.2	13674.4	14555.1	16204.1	18911.5	19081.9	14903.0
57.5°	7360.9	7549.4	8111.1	8930.2	10546.6	12246.5	13895.5	15928.7	18672.3	18737.6	15029.9
60°	4602.9	4621.0	5295.1	5835.1	6973.2	8633.0	10604.7	13859.3	17280.6	17186.3	13500.5
62.5°	3019.0	3022.6	3635.1	4077.3	4595.6	4976.1	6241.0	9191.2	12750.2	12583.5	9611.6
65°	2120.2	2167.3	2642.1	3232.9	3443.1	3243.7	3203.9	4845.7	7121.8	6882.5	5164.6
67.5°	1551.2	1554.8	1975.3	2609.5	2913.9	2468.2	2004.2	2366.7	2819.7	2812.5	2392.1
70°	1025.7	1069.2	1391.7	1949.9	2297.8	1982.5	1638.2	1692.5	1794.0	1794.0	1779.6
72.5°	598.0	637.9	851.7	1235.8	1290.3	1239.5	1297.5	1449.7	1515.0	1511.4	1493.2
75°	340.7	358.8	406.0	514.6	641.5	757.5	953.2	1098.2	1163.4	1203.3	1156.1
77.5°	199.3	210.2	239.2	293.6	333.5	409.6	518.3	619.7	706.8	695.8	703.1
80°	105.1	105.1	134.1	174.0	231.9	290.0	344.3	402.3	449.4	460.3	471.1
82.5°	61.6	65.3	87.0	126.8	166.7	206.5	264.6	304.4	347.9	351.5	358.8
85°	32.6	36.2	54.3	83.3	112.4	126.8	130.4	123.2	134.1	126.8	145.0
87.5°	10.8	10.8	18.1	14.5	14.5	18.1	21.8	21.8	29.0	29.0	29.0
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°	5349.4	5349.4	5349.4	5349.4	5349.4	5349.4	5349.4	5349.4	5349.4	5349.4	5349.4
2.5°	5378.4	5378.4	5316.8	5200.8	5182.7	5135.7	5092.1	5088.5	5055.8	5026.9	5012.4
5°	5480.0	5367.6	5276.9	5171.8	5048.6	4990.7	4925.4	4852.9	4823.9	4852.9	4849.3
7.5°	5595.9	5501.7	5229.8	5034.1	4892.8	4834.8	4762.3	4686.2	4693.5	4693.5	4642.7
10°	5708.3	5581.4	5146.5	4896.4	4689.8	4646.4	4606.5	4635.4	4671.7	4679.0	4646.4
12.5°	5896.7	5610.4	5106.6	4758.7	4628.2	4534.0	4559.3	4639.1	4715.2	4693.5	4718.9
15°	6038.0	5635.8	4925.4	4617.3	4454.3	4497.8	4588.3	4642.7	4769.6	4755.1	4780.4
17.5°	6175.8	5650.3	4747.8	4428.9	4360.0	4479.6	4548.5	4704.3	4744.2	4831.2	4863.8
20°	6458.5	5679.3	4566.6	4312.9	4291.1	4428.9	4548.5	4621.0	4707.9	4784.0	4784.0
22.5°	6603.4	5664.7	4447.0	4160.7	4229.6	4316.5	4425.3	4548.5	4548.5	4621.0	4624.6
25°	6784.7	5606.8	4258.6	4088.2	4138.9	4222.3	4345.5	4302.1	4349.1	4349.1	4407.1
27.5°	6991.2	5483.6	4095.4	3957.7	4059.2	4149.8	4167.9	4138.9	4084.6	4077.3	4055.6
30°	7157.9	5331.4	3975.8	3914.3	3997.6	4048.3	3990.4	3928.7	3834.5	3827.2	3776.5
32.5°	7386.3	5142.9	3827.2	3805.5	3899.7	3903.3	3885.3	3791.0	3653.3	3595.3	3537.3
35°	7770.5	5034.1	3714.9	3747.5	3776.5	3765.7	3733.0	3631.5	3493.9	3468.5	3446.7
37.5°	8053.2	4954.4	3598.9	3638.8	3664.2	3678.6	3580.8	3468.5	3472.1	3421.4	3406.8
40°	8372.1	4903.6	3504.7	3522.8	3526.4	3573.6	3453.9	3399.6	3425.0	3392.3	3414.0
42.5°	8781.6	4918.2	3406.8	3392.3	3461.2	3443.1	3385.1	3312.6	3327.1	3229.3	3243.7
45°	8999.1	5016.0	3348.9	3283.6	3359.7	3356.1	3280.0	3211.1	3124.1	2935.7	2942.9
47.5°	9144.1	5041.4	3211.1	3167.6	3247.4	3294.4	3207.5	3048.0	2924.8	2790.7	2758.1
50°	9292.6	5088.5	3145.8	3055.3	3087.9	3200.3	3091.5	2939.3	2819.7	2700.1	2718.2
52.5°	9423.2	5179.1	3019.0	2885.0	2942.9	3066.1	3008.2	2823.3	2692.9	2595.0	2566.0
55°	10003.0	5382.1	2805.2	2631.2	2769.0	2924.8	2892.2	2667.5	2526.1	2475.4	2468.2
56°	10093.6	5389.3	2692.9	2544.3	2671.1	2877.6	2837.8	2598.6	2471.8	2392.1	2395.7
57.5°	10108.1	5302.3	2533.3	2464.6	2573.2	2808.9	2758.1	2544.3	2370.3	2297.8	2276.1
60°	8894.0	4138.9	2334.0	2290.5	2417.4	2598.6	2580.5	2395.7	2200.0	2116.5	2156.4
62.5°	6063.4	3033.5	2178.2	2171.0	2236.2	2413.8	2366.7	2200.0	2036.8	1982.5	1957.1
65°	3530.0	2301.4	2026.0	1997.0	2051.4	2145.6	2178.2	2004.2	1833.9	1797.6	1786.8
67.5°	2084.0	1902.8	1830.3	1783.2	1765.0	1823.0	1848.3	1746.9	1576.5	1525.8	1569.3
70°	1743.3	1692.5	1696.1	1616.4	1572.9	1533.1	1511.4	1420.7	1279.4	1214.2	1196.0
72.5°	1504.0	1482.3	1467.8	1395.4	1355.5	1264.9	1170.7	1080.0	975.0	920.6	924.2
75°	1148.9	1141.7	1148.9	1112.6	1043.8	971.3	884.3	768.3	688.6	619.7	634.3
77.5°	685.0	706.8	717.6	703.1	674.1	608.9	554.6	478.4	402.3	347.9	340.7
80°	471.1	489.3	507.4	489.3	460.3	413.2	355.2	297.2	242.8	213.9	206.5
82.5°	358.8	376.9	387.8	369.7	333.5	282.7	242.8	202.9	159.5	130.4	123.2
85°	130.4	148.6	145.0	174.0	188.5	181.2	155.8	119.6	90.6	65.3	61.6
87.5°	36.2	32.6	36.2	36.2	36.2	32.6	29.0	29.0	29.0	18.1	14.5
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)