

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: P457694

Luminaire Tested: **GALN-SA9A-740-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457694  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA9A-740-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41112 lumens  
Efficiency: N/A  
Efficacy: 150.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4

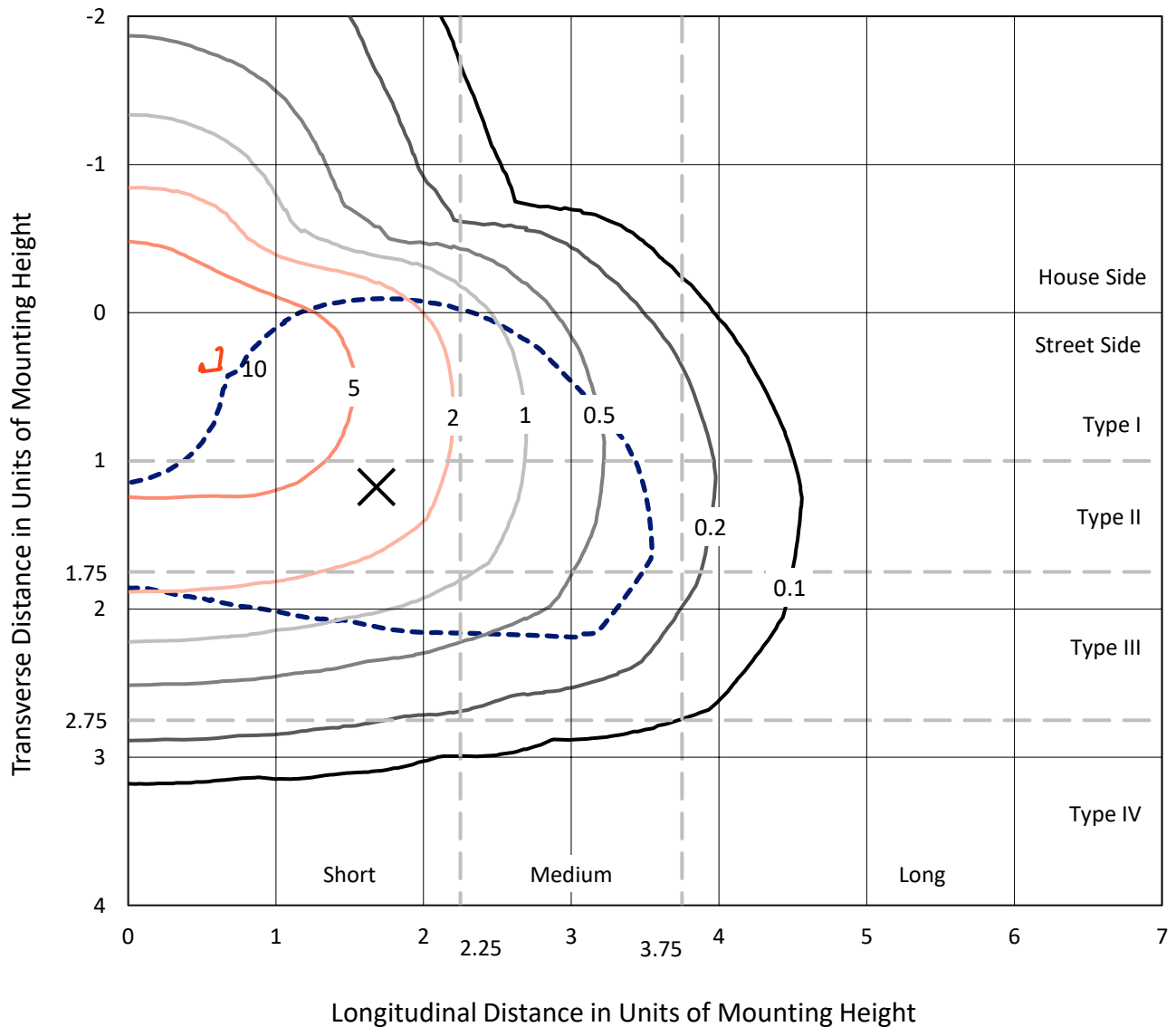
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

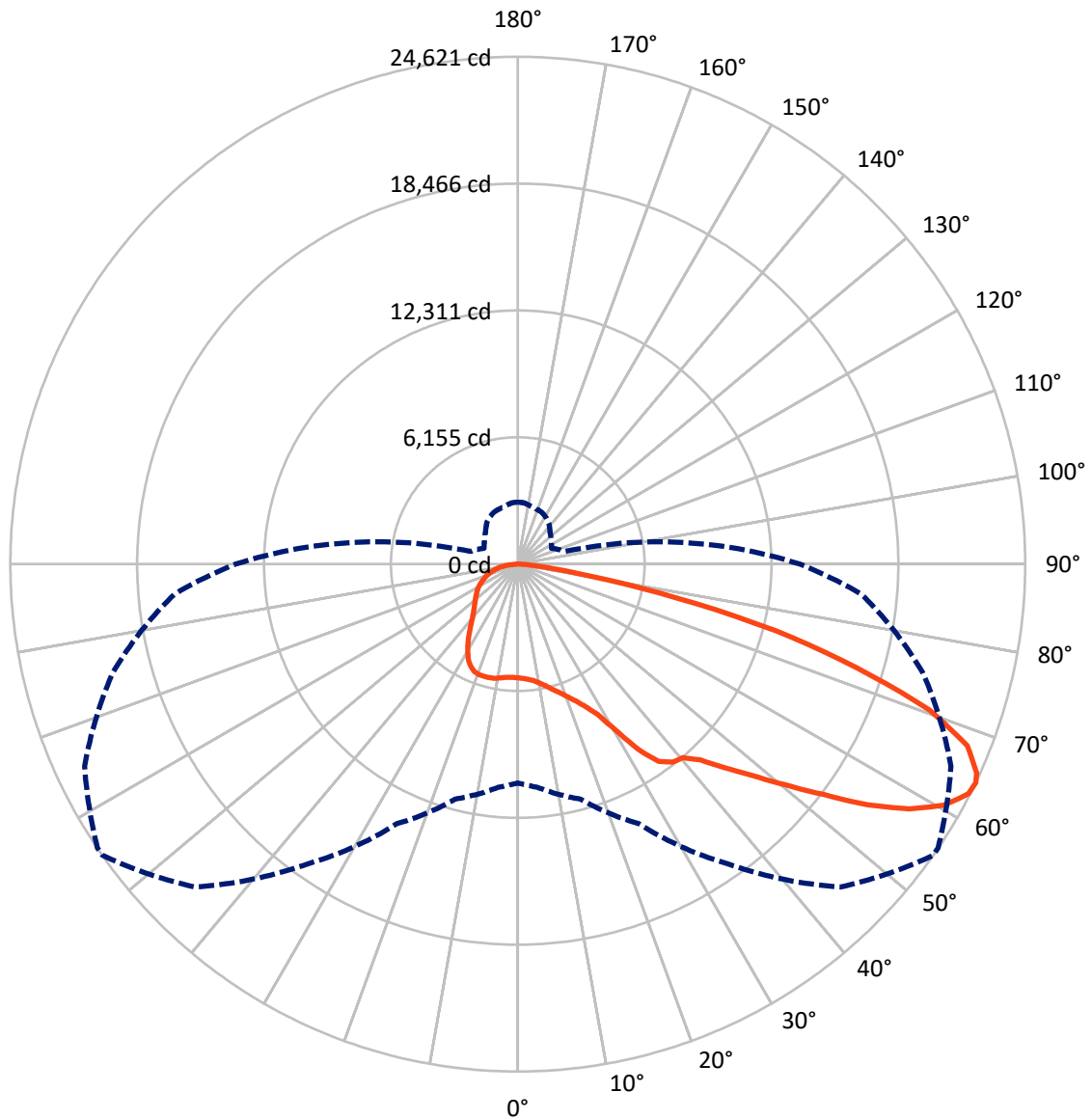
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9986.9	0.0	9986.9
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	31125.1	0.0	31125.1
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	41112.0	0.0	41112.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	536.6	1.3
10°-20°	1693.0	4.1
20°-30°	3014.0	7.3
30°-40°	4637.4	11.3
40°-50°	6573.8	16.0
50°-60°	9515.5	23.1
60°-70°	9847.5	24.0
70°-80°	4611.6	11.2
80°-90°	682.7	1.7
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°	41112.0	100.0
0°-180°	41112.0	100.0

**Coefficient of Utilization**



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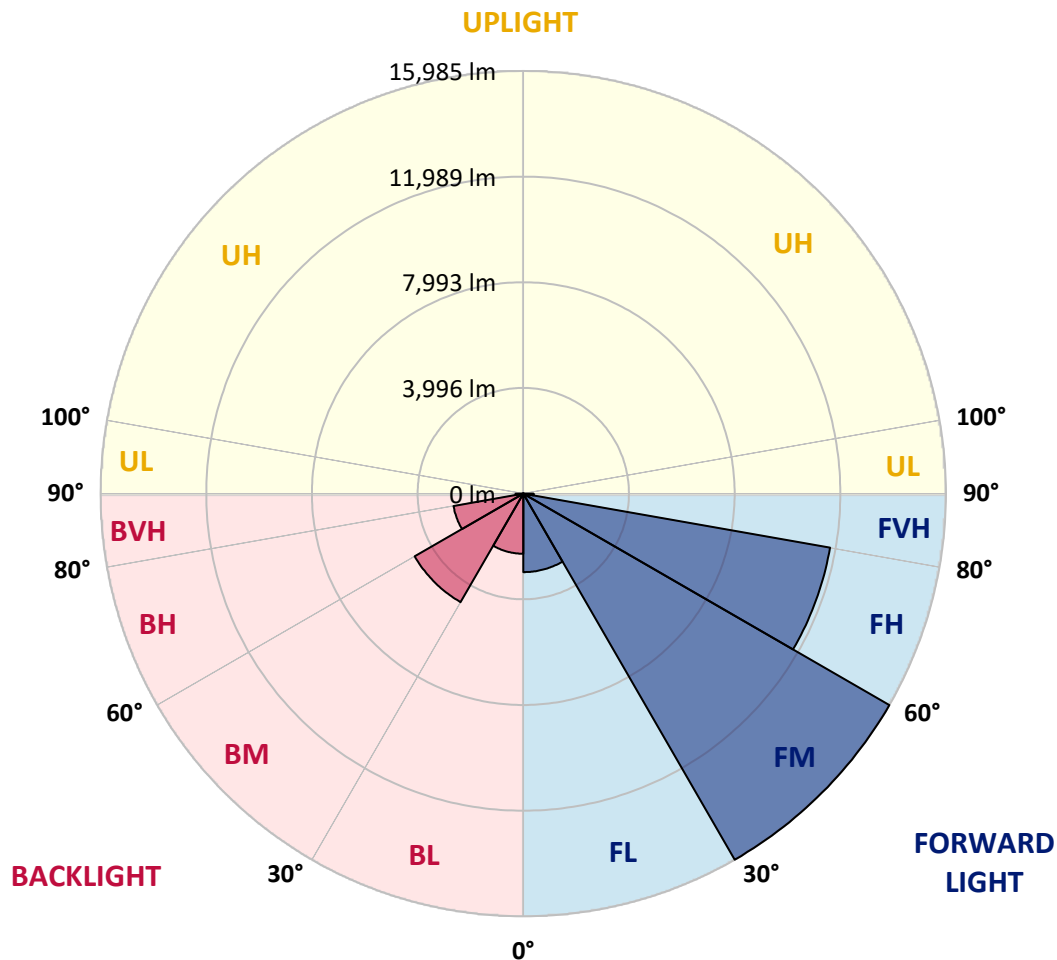
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2968.9	7.2			
FM	(30°-60°)	15985.5	38.9			
FH	(60°-80°)	11779.8	28.7			G4/12000
FVH	(80°-90°)	390.9	1.0			G3/500
BL	(0°-30°)	2274.6	5.5	B3/2500		
BM	(30°-60°)	4741.2	11.5	B3/5000		
BH	(60°-80°)	2679.3	6.5	B4/5000		G4/5000
BVH	(80°-90°)	291.8	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5516.0	5516.0	5516.0	5516.0	5516.0	5516.0	5516.0	5516.0	5516.0	5516.0	5516.0
2.5°	5577.9	5575.6	5582.4	5575.6	5580.2	5564.1	5557.2	5561.8	5554.9	5543.5	5522.9
5°	5646.6	5644.3	5646.6	5637.4	5642.0	5632.9	5616.8	5621.4	5609.9	5584.7	5554.9
7.5°	5763.5	5754.3	5754.3	5752.0	5742.9	5729.1	5717.7	5713.1	5701.6	5669.5	5623.7
10°	5914.7	5914.7	5917.0	5898.7	5910.2	5884.9	5873.5	5871.2	5832.2	5791.0	5726.8
12.5°	6114.1	6125.6	6118.7	6109.5	6104.9	6095.8	6056.8	6066.0	6022.4	5951.4	5873.5
15°	6361.6	6379.9	6368.5	6363.9	6352.4	6318.1	6302.0	6295.1	6237.9	6134.7	6031.6
17.5°	6689.3	6666.4	6657.2	6645.8	6597.6	6572.4	6544.9	6540.4	6489.9	6368.5	6208.1
20°	6975.8	7007.9	6989.5	6978.1	6929.9	6881.8	6861.2	6854.3	6810.8	6677.9	6421.2
22.5°	7317.2	7324.1	7331.0	7303.5	7280.6	7243.9	7207.2	7195.8	7179.7	7042.2	6728.3
25°	7681.6	7709.1	7686.2	7658.7	7631.2	7628.9	7663.3	7658.7	7651.8	7518.9	7136.2
27.5°	8275.1	8300.3	8307.2	8277.4	8172.0	8181.2	8259.1	8284.3	8389.7	8169.7	7661.0
30°	8609.7	8634.9	8692.2	8804.5	8971.8	9118.5	9306.4	9363.7	9464.5	9049.7	8284.3
32.5°	8816.0	8825.1	8928.2	9136.8	9638.7	10186.4	10697.4	10718.0	10782.2	10200.1	8854.9
35°	9141.4	9148.2	9230.7	9459.9	10048.9	10960.9	11751.6	11776.8	11724.1	10557.6	9120.7
37.5°	9542.4	9560.7	9613.5	9803.7	10507.2	11609.5	12189.3	12170.9	11703.4	10841.8	9590.5
40°	10126.8	10126.8	10064.9	10321.6	10990.7	11980.7	12342.8	12310.7	12187.0	11664.5	10305.5
42.5°	10642.4	10633.2	10779.9	10954.1	11595.7	12553.6	12986.8	13039.5	13243.4	12698.0	11119.1
45°	11313.9	11355.1	11437.6	11753.8	12624.7	13532.2	14091.3	14141.7	14430.5	13914.9	12070.1
47.5°	11992.2	12005.9	12264.9	12686.5	13898.8	14859.0	15317.4	15399.9	15663.4	15338.0	13094.5
50°	12473.4	12604.0	13018.8	13683.4	15211.9	16476.9	16834.4	16933.0	17398.2	16887.1	14288.4
52.5°	12982.2	13110.5	13617.0	14629.9	16719.8	18131.5	18571.5	18637.9	19121.5	18454.6	15509.9
55°	13417.6	13536.7	14111.9	15468.6	17920.7	19820.4	20617.9	20540.0	20771.5	19662.3	16451.7
57.5°	13488.6	13584.9	14309.0	16004.8	18823.6	21268.8	22412.3	22458.1	22190.0	20565.2	17228.6
60°	12938.6	13135.7	13967.6	15947.6	19229.2	22277.1	23750.6	23782.7	23021.9	21028.1	17538.0
62.5°	11964.7	11944.1	12950.1	15026.3	18660.9	22506.2	24538.9	24504.6	23347.3	20805.8	17237.8
64°	10619.5	10867.0	11806.6	13894.2	17744.2	22153.3	24621.4	24603.1	23191.4	20342.9	16726.7
65°	9799.1	9785.3	10713.4	12968.4	16832.1	21621.7	24474.8	24449.6	22866.0	19928.1	16330.3
67.5°	7074.3	7106.4	8023.0	10007.6	13683.4	19543.1	23519.2	23425.2	21582.7	18553.2	14822.4
70°	4285.4	4303.7	5023.3	6638.9	9822.0	15798.6	21200.0	21204.6	19618.8	16499.8	12615.5
72.5°	2257.3	2305.4	2594.1	3769.8	5965.2	11084.7	17198.8	17606.7	16843.6	14082.2	9966.4
75°	1255.8	1262.7	1466.7	1858.5	3043.3	6203.5	12927.2	13044.0	13335.1	11334.5	7369.9
77.5°	957.9	971.7	1035.8	1200.8	1656.9	2876.0	7823.7	8410.3	9398.0	7991.0	4205.2
80°	776.9	790.6	845.6	944.2	1102.3	1363.5	3634.5	3950.8	5030.2	3547.5	1640.8
82.5°	605.0	595.8	666.9	731.0	802.1	806.7	1491.9	1650.0	2048.7	1526.2	710.4
85°	449.2	449.2	506.5	492.7	517.9	472.1	657.7	726.5	820.4	648.5	330.0
87.5°	178.7	197.1	332.3	297.9	231.5	185.6	242.9	256.7	284.2	254.4	137.5
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°	5516.0	5516.0	5516.0	5516.0	5516.0	5516.0	5516.0	5516.0	5516.0	5516.0	5516.0
2.5°	5525.2	5532.0	5516.0	5504.5	5499.9	5493.1	5486.2	5488.5	5497.7	5506.8	5504.5
5°	5552.7	5554.9	5527.4	5513.7	5504.5	5495.4	5495.4	5502.2	5520.6	5534.3	5534.3
7.5°	5621.4	5621.4	5582.4	5557.2	5543.5	5527.4	5522.9	5525.2	5538.9	5557.2	5559.5
10°	5729.1	5719.9	5669.5	5630.6	5605.4	5566.4	5532.0	5513.7	5520.6	5532.0	5532.0
12.5°	5859.7	5834.5	5770.4	5717.7	5655.8	5582.4	5511.4	5474.7	5472.4	5483.9	5479.3
15°	5999.5	5972.0	5882.7	5786.4	5678.7	5571.0	5486.2	5433.5	5392.2	5380.8	5406.0
17.5°	6162.2	6104.9	5981.2	5848.3	5687.9	5548.1	5415.2	5307.4	5234.1	5213.5	5220.4
20°	6359.3	6283.7	6116.4	5907.9	5681.0	5465.6	5259.3	5115.0	4995.8	4959.1	4963.7
22.5°	6632.0	6501.4	6256.2	5937.7	5623.7	5309.7	5023.3	4835.4	4691.0	4633.7	4668.1
25°	6941.4	6799.3	6389.1	5930.8	5474.7	5060.0	4743.7	4498.5	4367.9	4283.1	4301.4
27.5°	7367.6	7115.6	6531.2	5868.9	5261.6	4755.2	4388.5	4157.0	4037.9	3994.3	4015.0
30°	7913.1	7525.8	6684.7	5701.6	4924.7	4370.2	4031.0	3879.8	3808.7	3753.7	3772.0
32.5°	8307.2	7814.5	6719.1	5419.7	4560.4	4019.5	3788.1	3675.8	3597.9	3545.2	3556.6
35°	8589.1	8059.7	6703.1	5073.7	4180.0	3730.8	3595.6	3503.9	3377.9	3263.3	3242.7
37.5°	8967.2	8366.8	6586.2	4695.6	3804.1	3536.0	3439.8	3270.2	3089.1	2935.6	2928.7
40°	9547.0	8726.6	6336.4	4251.0	3483.3	3391.6	3274.8	3054.8	2860.0	2736.2	2727.1
42.5°	10145.1	9058.9	5997.2	3783.5	3219.8	3240.4	3098.3	2880.6	2761.4	2681.2	2672.1
45°	10876.1	9418.7	5630.6	3377.9	3025.0	3098.3	2944.8	2818.7	2747.7	2695.0	2681.2
47.5°	11666.8	9787.6	5218.1	3013.5	2860.0	2967.7	2880.6	2823.3	2784.3	2747.7	2731.6
50°	12519.3	10200.1	4830.8	2720.2	2711.0	2832.5	2873.7	2853.1	2830.2	2818.7	2805.0
52.5°	13454.2	10621.8	4505.4	2513.9	2580.4	2736.2	2876.0	2892.1	2892.1	2885.2	2876.0
55°	14086.7	10915.1	4175.4	2346.6	2447.5	2658.3	2871.4	2933.3	2956.2	2947.1	2937.9
57.5°	14554.2	11075.5	3760.6	2202.3	2335.2	2582.7	2846.2	2937.9	2960.8	2972.3	2967.7
60°	14650.5	10926.6	3217.5	2051.0	2213.7	2472.7	2754.6	2869.1	2898.9	2970.0	2976.8
62.5°	14217.4	10468.2	2676.6	1902.1	2064.8	2305.4	2630.8	2791.2	2850.8	2960.8	2972.3
64°	13685.7	9954.9	2376.4	1808.1	1968.5	2211.4	2568.9	2770.6	2848.5	2995.2	3004.3
65°	13296.1	9581.4	2188.5	1748.5	1906.6	2149.6	2534.6	2777.5	2869.1	3047.9	3061.6
67.5°	11861.6	8295.8	1810.4	1608.7	1760.0	2044.1	2541.4	2834.8	2864.6	3068.5	3066.2
70°	9815.1	6604.5	1517.1	1480.4	1617.9	1959.4	2513.9	2743.1	2745.4	2880.6	2848.5
72.5°	7349.3	4881.2	1315.4	1347.5	1459.8	1757.7	2374.1	2619.4	2580.4	2598.7	2566.6
75°	5048.5	3228.9	1132.1	1205.4	1294.8	1553.7	2177.1	2378.7	2316.9	2293.9	2271.0
77.5°	2695.0	1785.2	941.9	1065.6	1125.2	1342.9	1899.8	2094.6	2030.4	1941.0	1911.2
80°	1090.8	841.0	758.5	882.3	916.7	1081.7	1581.2	1702.7	1654.6	1498.7	1448.3
82.5°	547.7	504.2	595.8	694.4	696.7	772.3	1175.6	1290.2	1182.5	992.3	948.7
85°	286.5	295.6	410.2	488.1	430.8	417.1	705.8	781.5	717.3	623.3	561.5
87.5°	103.1	119.2	215.4	213.1	151.2	80.2	155.8	75.6	41.2	25.2	32.1
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)