

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: P532171

Luminaire Tested: **GALN-SA7C-730-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532171  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-730-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27122 lumens  
Efficiency: N/A  
Efficacy: 71.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

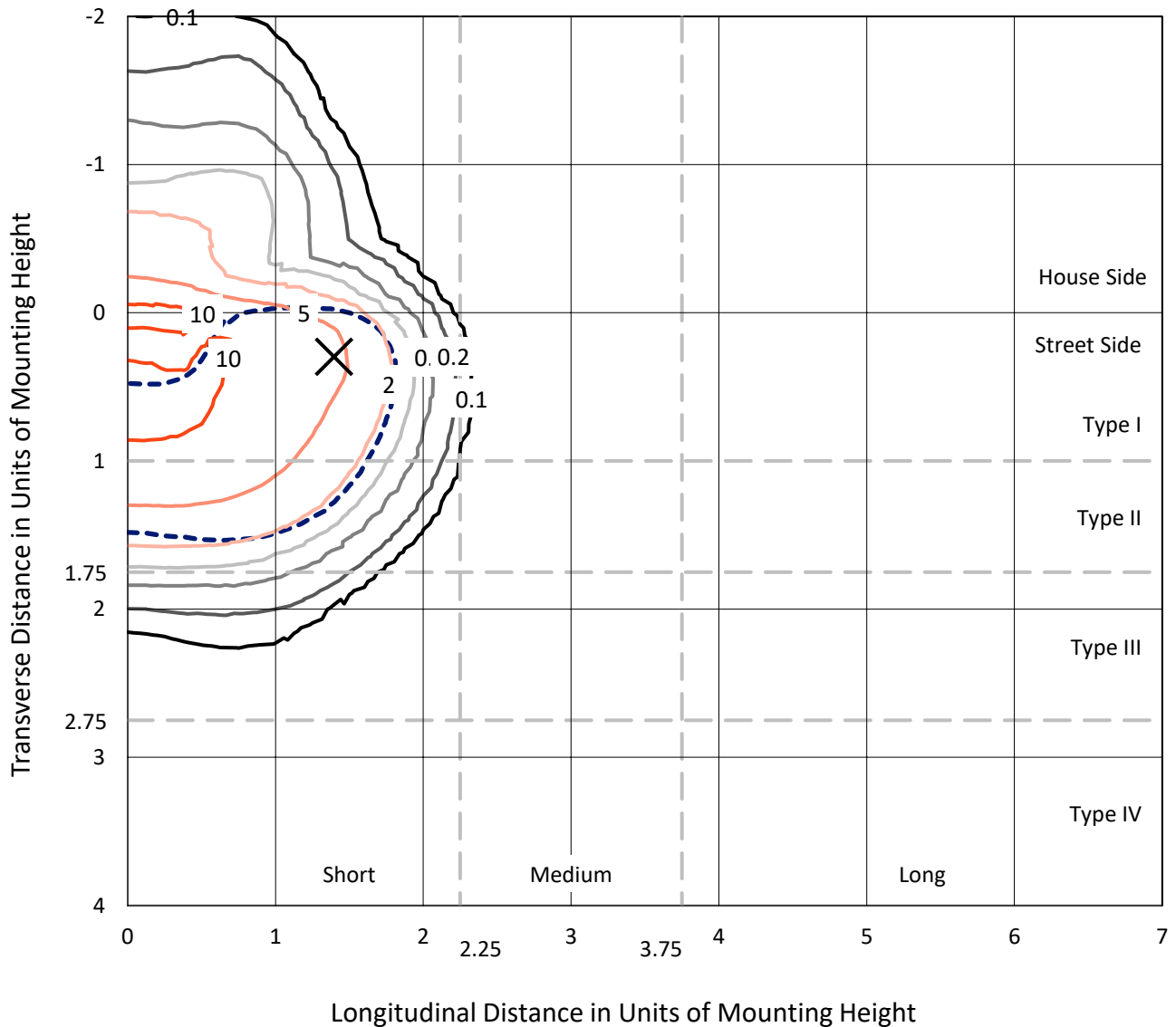
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

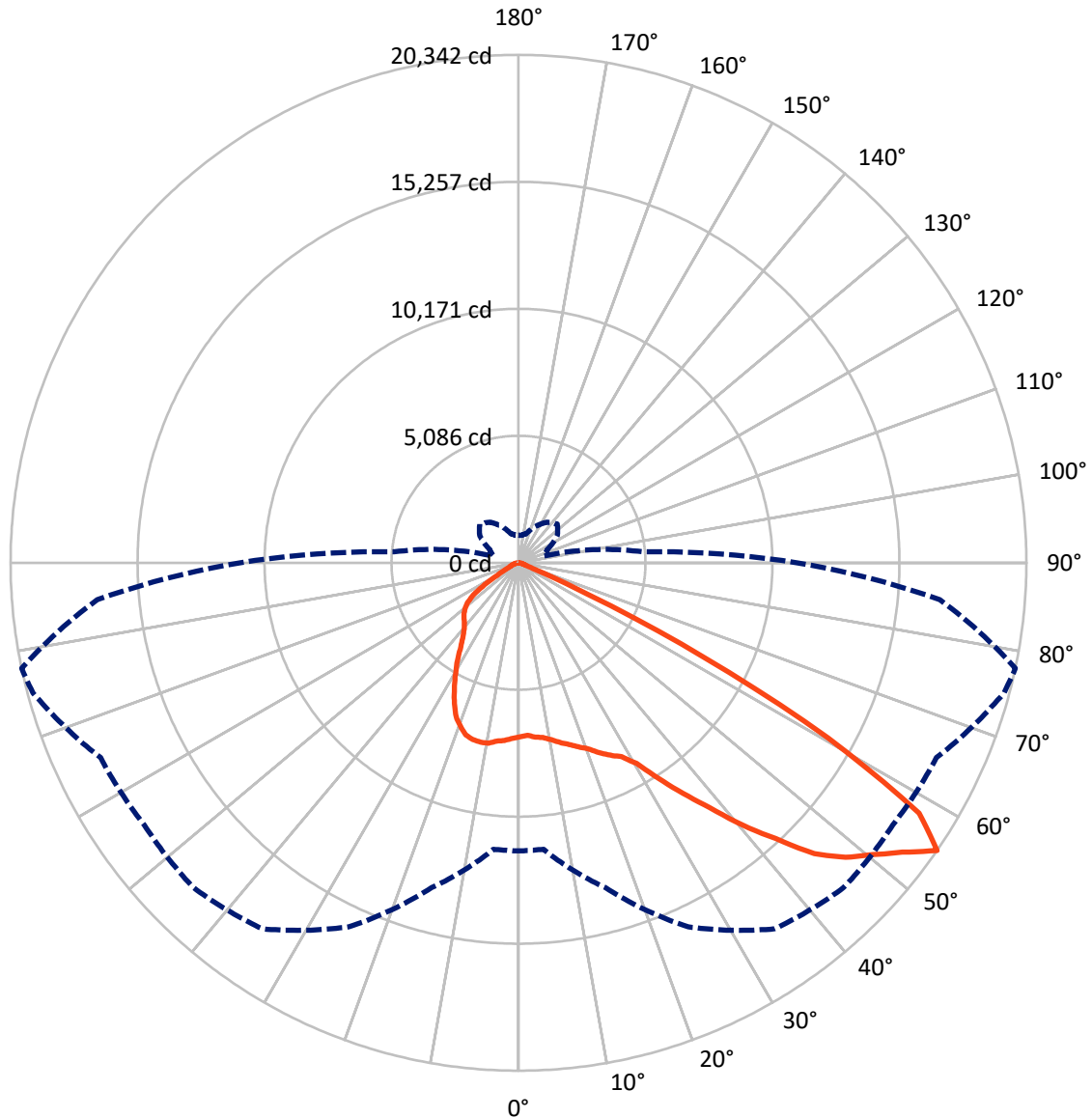
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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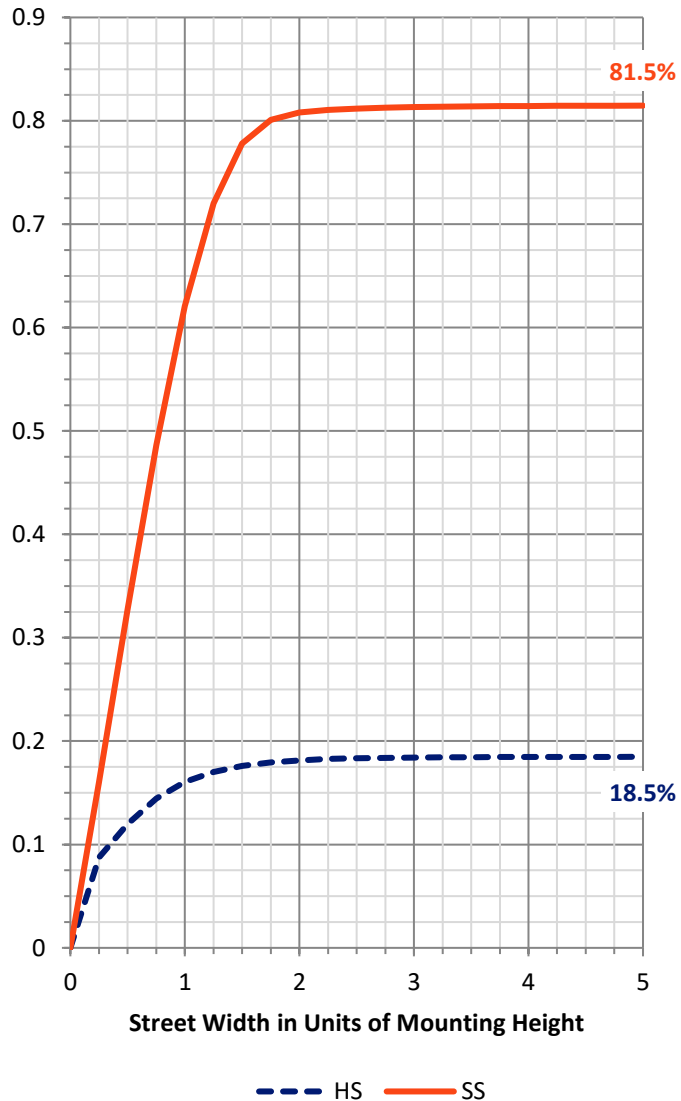
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5037.6	0.0	5037.6
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	22084.4	0.0	22084.4
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	27122.0	0.0	27122.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	621.8	2.3
10°-20°	1645.5	6.1
20°-30°	2884.3	10.6
30°-40°	4755.9	17.5
40°-50°	6920.5	25.5
50°-60°	7841.6	28.9
60°-70°	2242.1	8.3
70°-80°	174.1	0.6
80°-90°	36.2	0.1
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°	27122.0	100.0
0°-180°	27122.0	100.0

**Coefficient of Utilization**



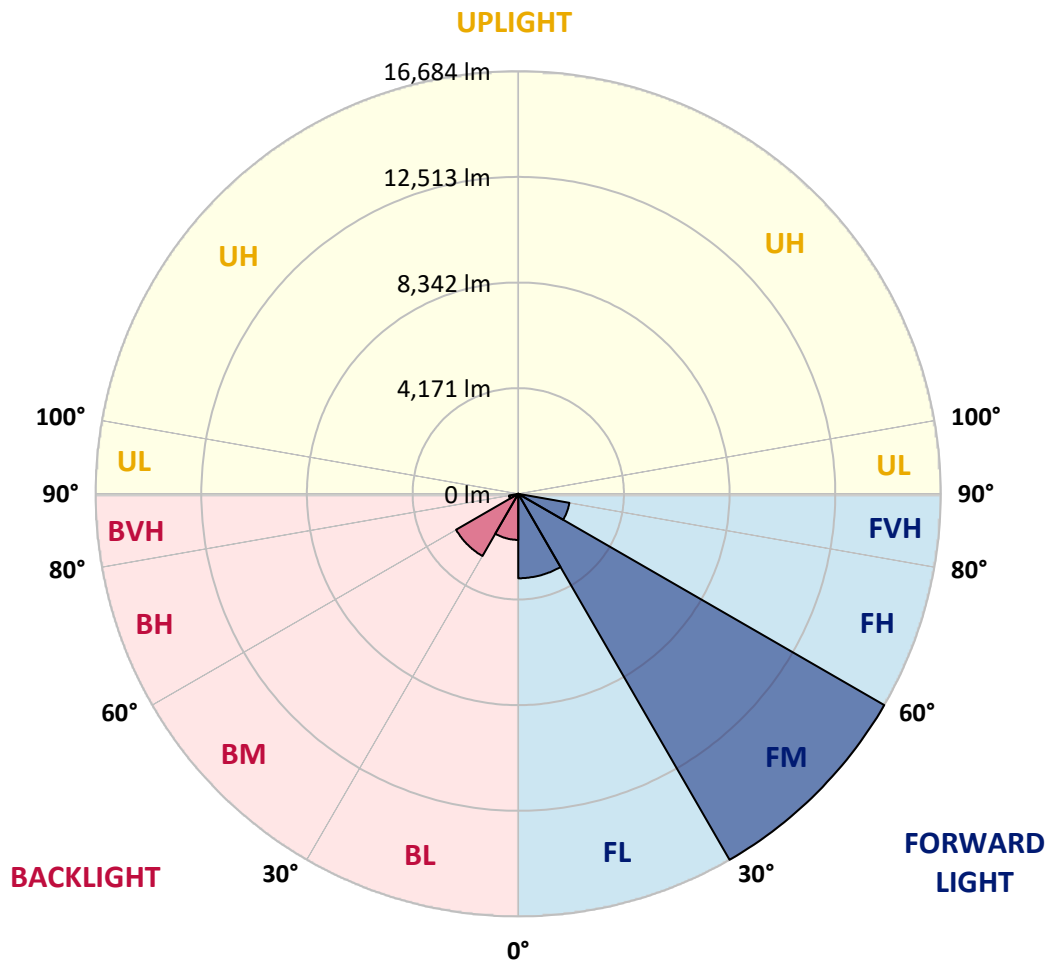
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3334.1	12.3			
FM (30°-60°)	16684.3	61.5			
FH (60°-80°)	2048.4	7.6			G2/5000
FVH (80°-90°)	17.6	0.1			G1/100
BL (0°-30°)	1817.6	6.7	B3/2500		
BM (30°-60°)	2833.7	10.4	B3/5000		
BH (60°-80°)	367.7	1.4	B1/500		G1/500
BVH (80°-90°)	18.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	6973.1	6973.1	6973.1	6973.1	6973.1	6973.1	6973.1	6973.1	6973.1	6973.1	6973.1
2.5°	6556.1	6619.1	6628.8	6706.4	6701.5	6832.5	6871.2	6876.1	6963.4	6919.7	7031.3
5°	6371.8	6337.8	6323.3	6459.1	6497.9	6614.2	6711.2	6769.4	6948.8	7011.9	7128.3
7.5°	6206.9	6206.9	6216.6	6337.8	6323.3	6473.6	6575.5	6754.9	7016.7	7070.1	7210.7
10°	6046.9	5988.7	6061.4	6187.5	6294.2	6362.1	6575.5	6745.2	7050.7	7205.8	7399.8
12.5°	5964.5	5993.6	6003.3	6095.4	6211.8	6415.4	6531.8	6813.1	7293.1	7385.3	7593.8
15°	6483.3	6425.1	6284.5	6202.1	6299.0	6396.0	6687.0	6973.1	7419.2	7550.1	7782.9
17.5°	7084.6	7036.1	6919.7	6696.7	6478.5	6657.9	6885.8	7147.7	7555.0	7748.9	8093.2
20°	7870.2	7792.6	7676.2	7239.8	7050.7	6856.7	7099.2	7409.5	7778.0	7952.6	8306.6
22.5°	8806.1	8806.1	8544.2	8015.7	7622.9	7438.6	7540.4	7719.9	8025.3	8263.0	8612.1
25°	9780.7	9751.6	9514.0	8966.1	8301.8	8083.5	8199.9	8326.0	8408.4	8539.4	8772.1
27.5°	10896.0	10726.3	10425.7	9819.5	9232.8	8810.9	8937.0	8825.5	8723.6	8791.5	9126.1
30°	11652.5	11759.2	11376.1	10794.2	10241.4	9771.0	9795.3	9698.3	9232.8	9329.8	9528.6
32.5°	12438.1	12506.0	12292.6	11972.6	11419.8	10871.8	10673.0	10590.6	10241.4	10285.1	10091.1
35°	13092.7	13223.6	13034.5	12893.9	12733.9	12292.6	11744.6	12011.4	11448.9	11342.2	10837.9
37.5°	13694.0	13655.2	13878.3	13732.8	13698.9	13388.5	12787.2	12840.6	12462.3	12438.1	11856.2
40°	14232.3	14242.0	14547.5	14615.3	14479.6	13926.8	13053.9	13475.8	13781.3	13810.4	13063.6
42.5°	14678.4	14809.3	15071.2	15619.1	15415.5	14494.1	13330.3	13791.0	14925.7	15105.1	14208.0
45°	15066.3	15333.0	15657.9	16147.7	16031.3	15299.1	14018.9	14440.8	16147.7	16618.0	15284.5
47.5°	15090.6	15439.7	15793.7	16521.1	16666.5	15730.7	14731.7	15468.8	17117.5	17626.7	16070.1
50°	14993.6	15177.8	15885.8	16676.2	17006.0	16433.8	15730.7	16331.9	18058.2	18378.3	16467.7
52.5°	13844.3	13985.0	15405.8	16821.7	17617.0	17229.0	17054.5	17534.5	19018.4	19256.0	16841.1
55°	11541.0	11516.7	13470.9	16089.5	17898.2	18407.4	18300.7	18470.4	20128.8	20342.2	16933.2
57.5°	7894.4	8335.7	10023.2	13398.2	16176.8	18131.0	18242.5	17961.3	18834.1	18916.5	14760.8
60°	4257.6	4441.8	5799.6	8941.8	12316.8	14775.4	15066.3	14557.2	14489.3	14256.5	10537.2
62.5°	1692.4	1784.5	2555.5	4427.3	6711.2	8980.6	9606.2	9397.7	8951.5	8340.5	5455.3
65°	805.0	863.1	1270.5	2070.6	2977.4	3743.5	4369.1	4563.1	3365.3	3030.7	1799.0
67.5°	548.0	591.6	926.2	1183.2	1062.0	1110.5	1445.0	1343.2	790.4	674.0	499.5
70°	417.0	446.1	741.9	805.0	475.2	334.6	373.4	349.1	324.9	329.7	324.9
72.5°	295.8	320.0	543.1	475.2	208.5	155.2	198.8	237.6	237.6	237.6	232.8
75°	179.4	203.7	315.2	184.3	82.4	82.4	126.1	160.0	169.7	174.6	164.9
77.5°	92.1	116.4	106.7	53.3	53.3	63.0	92.1	111.5	121.2	121.2	116.4
80°	19.4	19.4	19.4	29.1	53.3	67.9	92.1	101.8	116.4	116.4	106.7
82.5°	0.0	4.8	14.5	29.1	48.5	63.0	87.3	101.8	116.4	121.2	111.5
85°	0.0	4.8	9.7	19.4	33.9	38.8	33.9	29.1	29.1	29.1	29.1
87.5°	0.0	0.0	4.8	4.8	4.8	9.7	9.7	9.7	9.7	9.7	9.7
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°	6973.1	6973.1	6973.1	6973.1	6973.1	6973.1	6973.1	6973.1	6973.1	6973.1	6973.1
2.5°	7041.0	7055.5	7031.3	7026.4	7007.0	7065.2	6924.6	6890.6	6977.9	6895.5	6914.9
5°	7133.1	7167.0	7123.4	7050.7	6944.0	6779.1	6638.5	6454.2	6366.9	6303.9	6294.2
7.5°	7201.0	7225.2	7181.6	6948.8	6628.8	6211.8	5901.4	5673.5	5494.1	5440.7	5353.5
10°	7477.4	7482.2	7264.0	6750.0	6124.5	5576.5	5101.3	4752.2	4572.8	4461.2	4412.7
12.5°	7661.7	7652.0	7210.7	6357.2	5523.2	4795.8	4252.7	3830.8	3666.0	3612.6	3578.7
15°	7894.4	7841.1	7084.6	5954.8	4747.3	3961.8	3472.0	3181.0	3166.5	3132.6	3166.5
17.5°	8078.7	7928.4	6900.3	5222.5	4005.4	3263.5	2943.4	2962.8	3001.6	3035.6	3040.4
20°	8379.3	8069.0	6478.5	4582.4	3316.8	2798.0	2793.1	2880.4	2977.4	3016.2	3055.0
22.5°	8607.2	8127.2	6027.5	3898.7	2754.3	2608.8	2691.3	2822.2	2894.9	2933.7	2991.9
25°	8689.7	7967.2	5426.2	3215.0	2482.8	2521.6	2647.6	2734.9	2827.1	2870.7	2846.5
27.5°	8772.1	7884.7	4708.5	2647.6	2337.3	2463.4	2570.1	2657.3	2686.4	2744.6	2783.4
30°	8970.9	7598.6	4063.6	2288.8	2264.6	2424.6	2502.2	2531.3	2608.8	2642.8	2642.8
32.5°	9131.0	7487.1	3379.9	2119.1	2254.9	2444.0	2453.7	2453.7	2463.4	2439.1	2429.4
35°	9460.7	7104.0	2768.9	2017.2	2250.0	2448.8	2473.1	2390.6	2167.6	2080.3	2056.0
37.5°	9868.0	6856.7	2317.9	1993.0	2284.0	2507.0	2545.8	2235.5	1944.5	1803.9	1779.6
40°	10362.6	6682.1	2022.1	1983.3	2361.5	2642.8	2526.4	2114.2	1736.0	1532.3	1522.6
42.5°	10939.7	6522.1	1823.3	1978.5	2458.5	2783.4	2507.0	2012.4	1522.6	1386.9	1406.3
45°	11400.4	6434.8	1687.5	1944.5	2492.5	2865.8	2521.6	1833.0	1435.3	1348.1	1357.8
47.5°	11759.2	6250.6	1576.0	1886.3	2487.6	2894.9	2390.6	1760.2	1391.7	1416.0	1440.2
50°	11768.9	6003.3	1435.3	1760.2	2414.9	2841.6	2240.3	1692.4	1382.0	1483.8	1532.3
52.5°	11638.0	5654.1	1285.0	1580.8	2245.2	2657.3	2104.5	1663.3	1338.4	1328.7	1386.9
55°	11172.4	4999.5	1032.9	1280.2	1896.0	2191.8	1983.3	1609.9	1207.4	1095.9	1105.6
57.5°	9029.1	3583.5	761.3	916.5	1343.2	1605.1	1789.3	1585.7	1086.2	931.0	935.9
60°	5591.1	2031.8	557.7	625.5	829.2	974.7	1449.9	1474.1	969.8	785.6	775.9
62.5°	2870.7	1003.8	431.6	441.3	509.2	572.2	994.1	1236.5	877.7	746.8	746.8
65°	960.1	494.6	378.2	339.4	339.4	354.0	601.3	858.3	741.9	625.5	625.5
67.5°	412.2	368.5	329.7	295.8	271.6	257.0	339.4	499.5	552.8	475.2	455.8
70°	320.0	310.3	286.1	247.3	213.4	194.0	198.8	257.0	315.2	305.5	295.8
72.5°	237.6	237.6	227.9	194.0	164.9	140.6	130.9	135.8	150.3	155.2	160.0
75°	164.9	169.7	169.7	150.3	121.2	101.8	87.3	72.7	58.2	48.5	43.6
77.5°	111.5	116.4	126.1	111.5	92.1	67.9	53.3	38.8	24.2	9.7	9.7
80°	97.0	111.5	121.2	111.5	97.0	72.7	53.3	29.1	14.5	0.0	0.0
82.5°	101.8	111.5	126.1	106.7	92.1	67.9	53.3	33.9	14.5	4.8	0.0
85°	24.2	24.2	29.1	33.9	43.6	48.5	38.8	24.2	14.5	4.8	0.0
87.5°	9.7	9.7	9.7	9.7	9.7	4.8	4.8	4.8	4.8	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)