

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: P455401

Luminaire Tested: **GALN-SA6C-750-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455401  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-750-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42487 lumens  
Efficiency: N/A  
Efficacy: 132.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

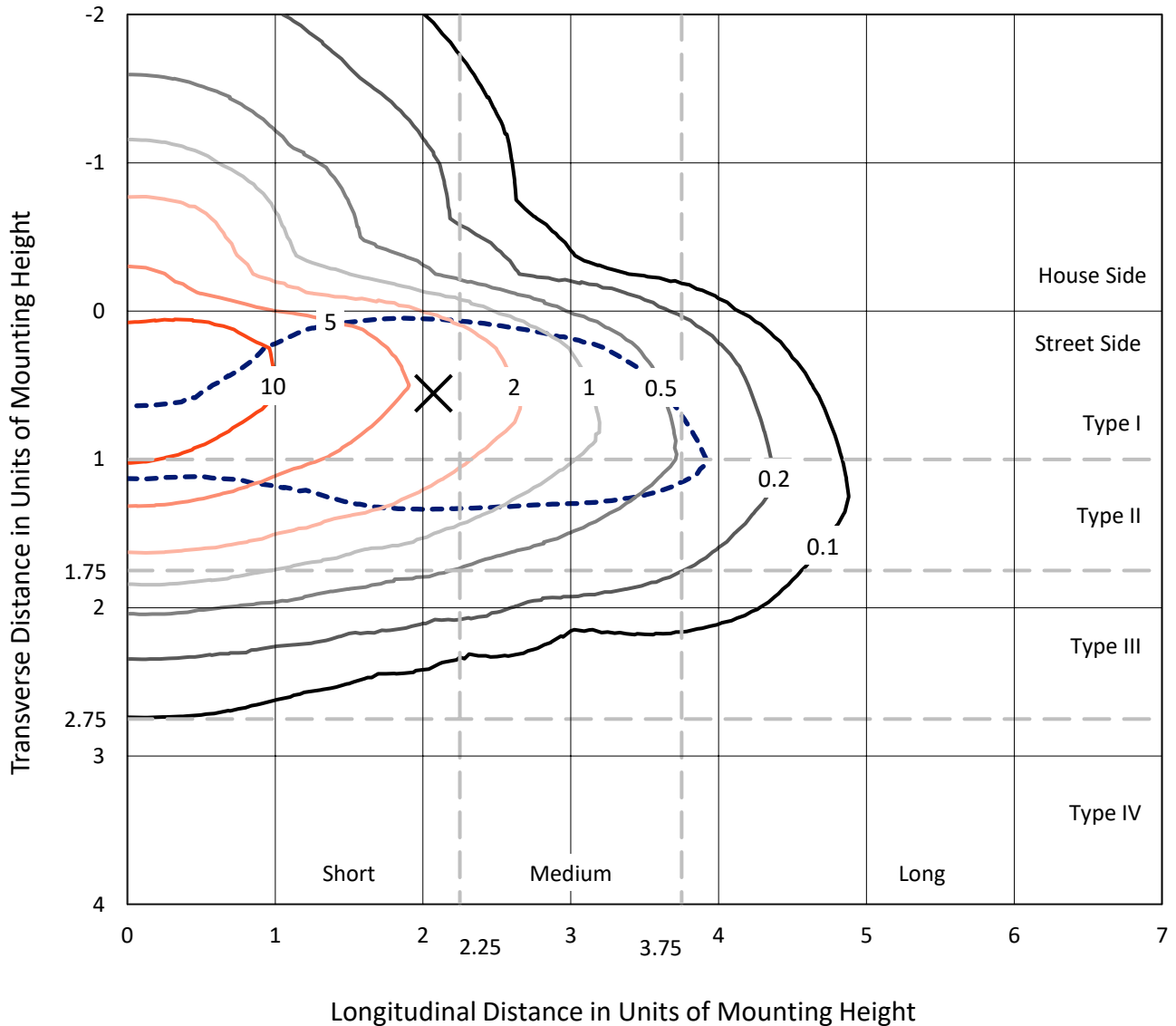
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

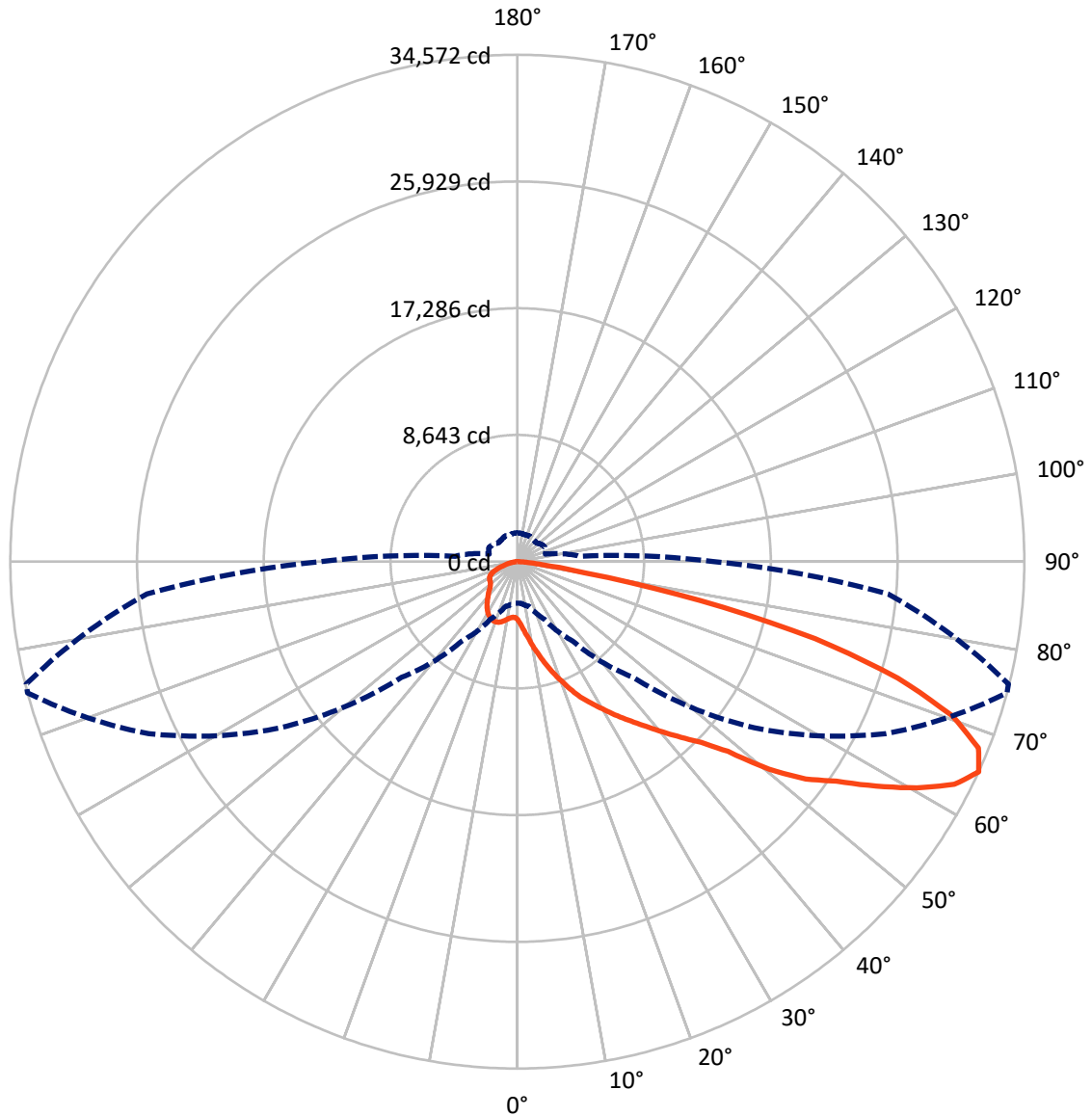
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7142.6	0.0	7142.6
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	35344.4	0.0	35344.4
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	42487.0	0.0	42487.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	479.6	1.1
10°-20°	1878.6	4.4
20°-30°	3628.8	8.5
30°-40°	5894.3	13.9
40°-50°	8108.1	19.1
50°-60°	9573.0	22.5
60°-70°	8387.5	19.7
70°-80°	4004.3	9.4
80°-90°	532.8	1.3
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°	42487.0	100.0
0°-180°	42487.0	100.0

**Coefficient of Utilization**



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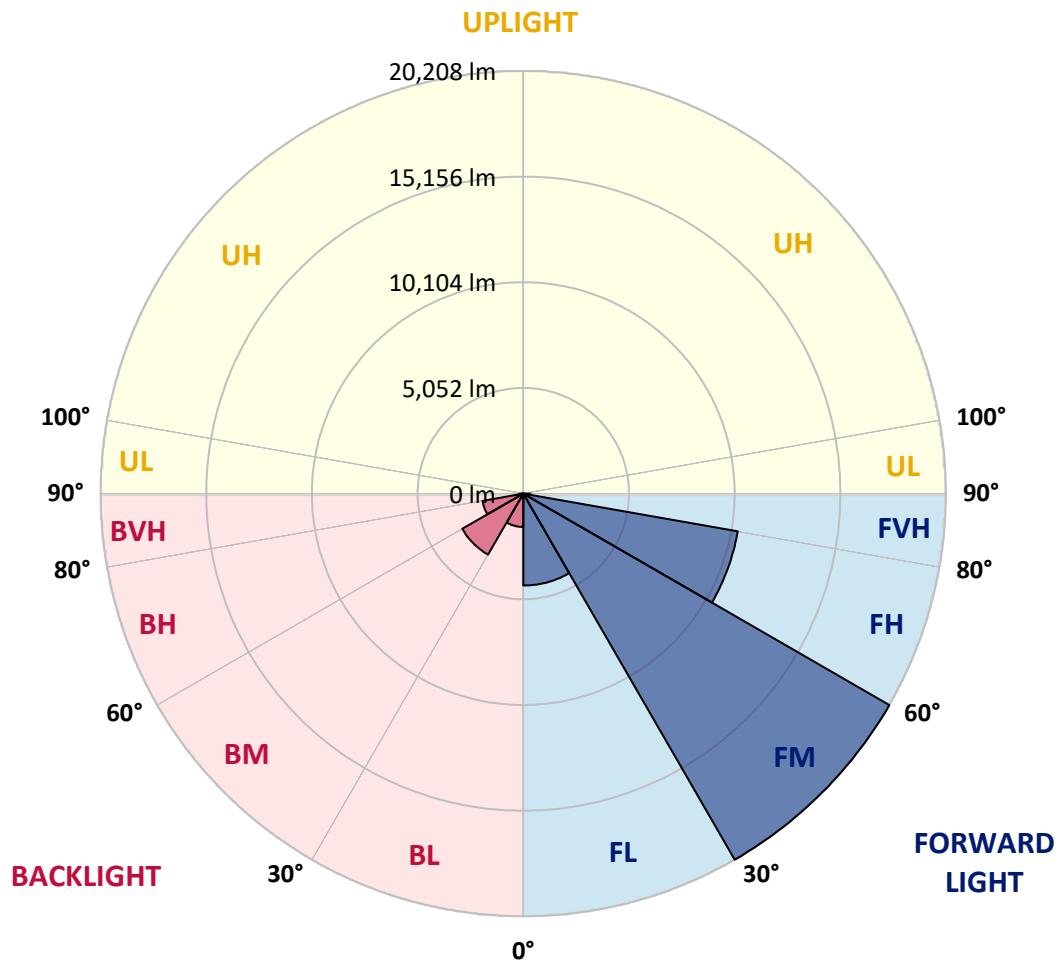
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4392.5	10.3			
FM	(30°-60°)	20207.7	47.6			
FH	(60°-80°)	10411.2	24.5			G4/12000
FVH	(80°-90°)	333.0	0.8			G3/500
BL	(0°-30°)	1594.6	3.8	B3/2500		
BM	(30°-60°)	3367.7	7.9	B3/5000		
BH	(60°-80°)	1980.5	4.7	B3/2500		G3/2500
BVH	(80°-90°)	199.8	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3947.6	3947.6	3947.6	3947.6	3947.6	3947.6	3947.6	3947.6	3947.6	3947.6	3947.6
2.5°	5245.0	5210.4	5173.6	5072.2	4963.9	4841.7	4666.6	4498.4	4274.8	4267.9	4102.0
5°	6699.1	6676.1	6512.5	6418.0	6166.8	5832.6	5549.2	5109.0	4701.1	4652.8	4330.1
7.5°	8035.7	7945.9	7883.6	7713.1	7464.2	7035.6	6487.1	5892.6	5210.4	5145.9	4611.3
10°	9042.8	9033.6	9001.3	8853.8	8667.2	8240.8	7632.4	6779.8	5855.7	5728.9	4952.3
12.5°	9796.4	9803.3	9798.7	9796.4	9662.7	9300.9	8641.8	7743.1	6507.9	6418.0	5346.4
15°	10291.8	10361.0	10388.6	10503.8	10515.4	10273.4	9706.5	8674.1	7243.0	7109.3	5770.4
17.5°	10619.1	10653.6	10782.7	10978.6	11137.6	11093.8	10589.1	9535.9	7994.3	7770.7	6210.6
20°	10932.5	10992.4	11091.5	11358.8	11639.9	11769.0	11414.1	10418.6	8738.6	8595.7	6696.8
22.5°	11584.6	11669.9	11704.5	11840.4	12080.1	12308.2	12146.9	11264.3	9554.4	9360.8	7213.0
25°	12688.5	12778.4	12681.6	12649.3	12727.7	12840.6	12806.0	12061.7	10324.1	10047.5	7701.6
27.5°	14126.5	14138.0	13949.0	13769.3	13575.7	13518.1	13412.1	12769.1	10992.4	10761.9	8192.4
30°	15670.5	15615.2	15301.8	14976.8	14649.6	14327.0	14022.8	13451.3	11736.7	11471.7	8674.1
32.5°	17103.9	17073.9	16725.9	16221.3	15668.2	15364.0	14748.7	14140.3	12534.1	12278.3	9169.5
35°	18177.8	18221.5	17839.0	17288.2	16684.5	16414.8	15638.2	14863.9	13359.1	13080.2	9708.8
37.5°	18940.5	18917.5	18578.7	18101.7	17571.7	17336.6	16677.5	15654.4	14246.3	13979.0	10298.7
40°	19212.5	19198.6	18947.5	18599.5	18263.0	18180.1	17765.3	16507.0	15262.6	14949.2	11008.5
42.5°	19039.6	19069.6	18903.7	18809.2	18747.0	18806.9	18846.1	17624.7	16371.0	16083.0	11778.2
45°	18509.6	18493.5	18470.4	18624.8	18975.1	19369.2	19915.3	18680.1	17576.3	17345.8	12810.6
47.5°	17562.5	17677.7	17735.3	18161.6	18926.7	19860.0	21145.9	20095.1	19325.4	19124.9	14384.6
50°	16237.4	16329.6	16670.6	17428.8	18569.5	20044.4	22348.9	22408.8	22242.9	21867.2	16094.5
52.5°	14168.0	14310.8	15013.7	16403.3	17836.7	19968.3	23077.1	24392.9	24611.9	24330.7	17779.1
55°	11852.0	12052.4	12794.5	14617.3	16827.3	19553.5	23579.5	25542.9	26416.3	26155.9	19401.4
57.5°	9584.3	9796.4	10559.1	12324.4	15066.7	18636.4	23909.0	26824.2	28872.9	28534.1	21420.2
60°	7183.1	7404.3	8058.8	9877.0	12559.4	16843.5	23685.5	27934.9	31327.1	31182.0	23441.2
62.5°	4634.3	4878.6	5447.8	6952.6	9653.5	14393.8	22489.4	28547.9	33451.9	33276.7	24916.1
65°	2823.0	2850.6	3164.1	4316.3	6607.0	11144.5	19754.0	27734.4	34571.8	34518.8	25365.4
67.5°	1825.2	1868.9	2011.8	2585.6	3961.4	7740.8	15794.9	25049.7	33917.4	33898.9	24436.7
70°	1541.7	1555.5	1620.1	1744.5	2302.2	4694.2	11091.5	20770.3	31430.8	31430.8	22203.7
72.5°	1378.1	1396.5	1419.6	1458.7	1643.1	2659.4	6618.5	16168.3	27137.6	27317.3	18899.1
75°	1251.3	1246.7	1260.6	1267.5	1401.1	1737.6	3422.2	11958.0	20993.8	20634.3	13686.3
77.5°	1071.6	1078.5	1071.6	1101.5	1237.5	1322.8	1737.6	8024.2	12723.0	12257.5	6869.7
80°	880.3	891.8	903.4	921.8	1057.8	1004.8	1043.9	3657.2	4705.8	4606.7	2122.4
82.5°	661.4	677.5	696.0	739.7	831.9	663.7	659.1	1562.4	1698.4	1555.5	781.2
85°	267.3	315.7	477.0	520.8	523.1	364.1	405.6	652.2	693.6	677.5	306.5
87.5°	62.2	73.7	154.4	232.8	214.3	136.0	149.8	212.0	242.0	223.5	103.7
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°	3947.6	3947.6	3947.6	3947.6	3947.6	3947.6	3947.6	3947.6	3947.6	3947.6	3947.6
2.5°	4025.9	3945.3	3807.0	3701.0	3625.0	3558.1	3516.6	3491.3	3482.1	3479.8	3482.1
5°	4161.9	4019.0	3800.1	3661.8	3585.8	3542.0	3516.6	3514.3	3516.6	3518.9	3512.0
7.5°	4348.6	4143.5	3857.7	3728.7	3671.0	3638.8	3627.3	3622.6	3625.0	3622.6	3622.6
10°	4597.4	4316.3	3970.6	3837.0	3788.6	3751.7	3733.3	3721.7	3712.5	3703.3	3698.7
12.5°	4871.7	4507.6	4092.8	3963.7	3894.6	3837.0	3795.5	3765.5	3744.8	3724.0	3719.4
15°	5178.2	4710.4	4228.7	4049.0	3949.9	3864.6	3793.2	3744.8	3707.9	3678.0	3675.6
17.5°	5470.8	4901.6	4320.9	4088.2	3943.0	3823.1	3728.7	3661.8	3615.7	3576.6	3571.9
20°	5784.3	5083.7	4362.4	4062.8	3873.8	3728.7	3604.2	3523.6	3470.6	3426.8	3419.9
22.5°	6100.0	5238.1	4357.8	3982.1	3754.0	3583.5	3452.1	3366.8	3304.6	3260.8	3244.7
25°	6401.9	5362.5	4300.2	3853.1	3588.1	3410.6	3277.0	3198.6	3143.3	3090.3	3090.3
27.5°	6673.8	5436.3	4191.9	3696.4	3417.5	3230.9	3124.9	3053.4	3002.7	2968.2	2947.4
30°	6941.1	5470.8	4044.4	3498.2	3237.8	3078.8	2993.5	2952.0	2906.0	2866.8	2862.2
32.5°	7180.8	5463.9	3860.0	3304.6	3067.3	2954.3	2919.8	2887.5	2839.1	2783.8	2770.0
35°	7413.5	5417.8	3641.1	3092.6	2924.4	2880.6	2889.8	2843.7	2756.2	2687.0	2675.5
37.5°	7667.0	5334.9	3401.4	2919.8	2804.6	2846.0	2869.1	2767.7	2624.8	2516.5	2491.1
40°	7959.7	5240.4	3152.5	2746.9	2710.1	2813.8	2813.8	2627.1	2431.2	2364.4	2346.0
42.5°	8303.1	5162.0	2945.1	2601.8	2631.7	2735.4	2723.9	2440.4	2359.8	2325.2	2316.0
45°	8846.9	5134.4	2730.8	2475.0	2567.2	2643.2	2548.8	2375.9	2329.8	2302.2	2293.0
47.5°	9706.5	5166.7	2541.8	2380.5	2493.5	2551.1	2352.9	2332.1	2299.9	2260.7	2256.1
50°	10503.8	5136.7	2408.2	2327.5	2428.9	2440.4	2272.2	2279.1	2260.7	2216.9	2207.7
52.5°	11156.0	5042.2	2322.9	2299.9	2373.6	2246.9	2196.2	2221.5	2214.6	2159.3	2150.1
55°	11872.7	4984.6	2281.4	2299.9	2336.7	2078.6	2124.7	2161.6	2152.4	2113.2	2110.9
57.5°	12741.5	4996.1	2251.5	2306.8	2299.9	1993.4	2053.3	2097.1	2094.8	2083.3	2083.3
60°	13631.0	5000.7	2205.4	2304.5	2256.1	1926.5	1979.6	2041.8	2046.4	2053.3	2053.3
62.5°	13926.0	4800.2	2115.5	2263.0	2159.3	1862.0	1910.4	1995.7	1991.1	2009.5	2011.8
65°	13375.2	4244.9	1981.9	2168.5	2034.9	1815.9	1857.4	1935.8	1910.4	1958.8	1968.0
67.5°	12174.6	3512.0	1774.5	1998.0	1896.6	1767.5	1822.8	1852.8	1806.7	1901.2	1903.5
70°	10522.3	2742.3	1511.7	1756.0	1739.9	1716.8	1795.2	1749.1	1684.6	1799.8	1776.8
72.5°	8798.5	2094.8	1207.5	1435.7	1530.2	1640.8	1746.8	1615.4	1525.6	1560.1	1518.7
75°	6609.3	1548.6	970.2	1124.6	1274.4	1532.5	1703.0	1454.1	1315.9	1283.6	1274.4
77.5°	3369.2	1011.7	725.9	841.1	956.4	1385.0	1643.1	1265.2	1090.0	1039.3	1016.3
80°	1202.9	629.1	511.6	580.7	645.3	1191.4	1435.7	1046.2	845.7	836.5	845.7
82.5°	557.7	405.6	343.4	380.2	382.5	795.0	1094.6	781.2	643.0	977.1	825.0
85°	239.7	202.8	193.6	189.0	175.1	354.9	615.3	419.4	654.5	292.7	269.6
87.5°	71.4	80.7	71.4	53.0	39.2	39.2	62.2	23.0	16.1	11.5	11.5
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)