

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P643663

Luminaire Tested: GWS-SA6F-735-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643663  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6F-735-U-T2R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

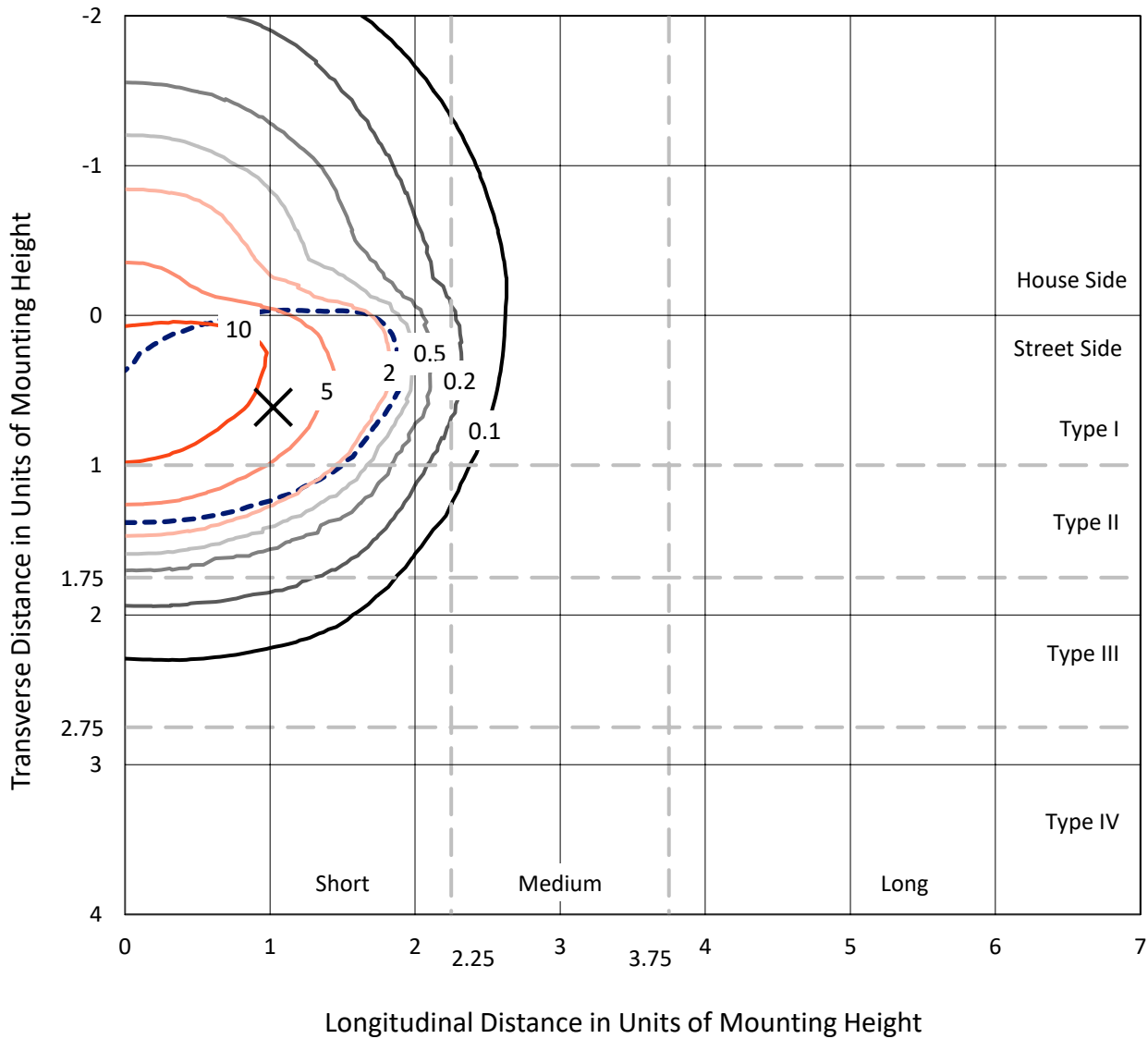
Lumens per Lamp: N/A  
Luminaire Lumens: 43202.4 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

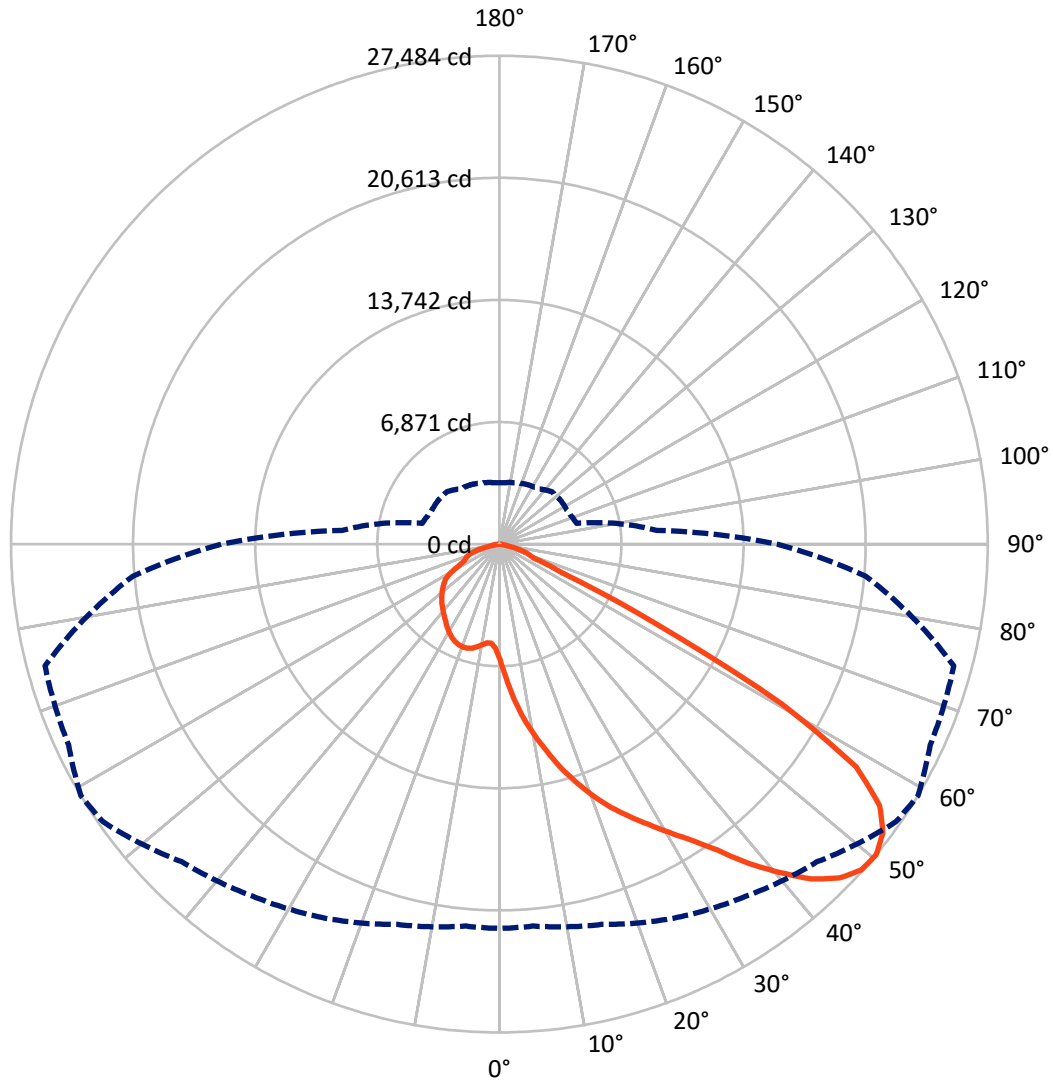
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9937.4	0.0	9937.4
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	33265.0	0.0	33265.0
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	43202.4	0.0	43202.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	734.3	1.7
10°-20°	2665.6	6.2
20°-30°	5047.5	11.7
30°-40°	8370.4	19.4
40°-50°	11434.5	26.5
50°-60°	10379.5	24.0
60°-70°	3456.5	8.0
70°-80°	1008.1	2.3
80°-90°	105.9	0.2
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°	43202.4	100.0
0°-180°	43202.4	100.0

**Coefficient of Utilization**



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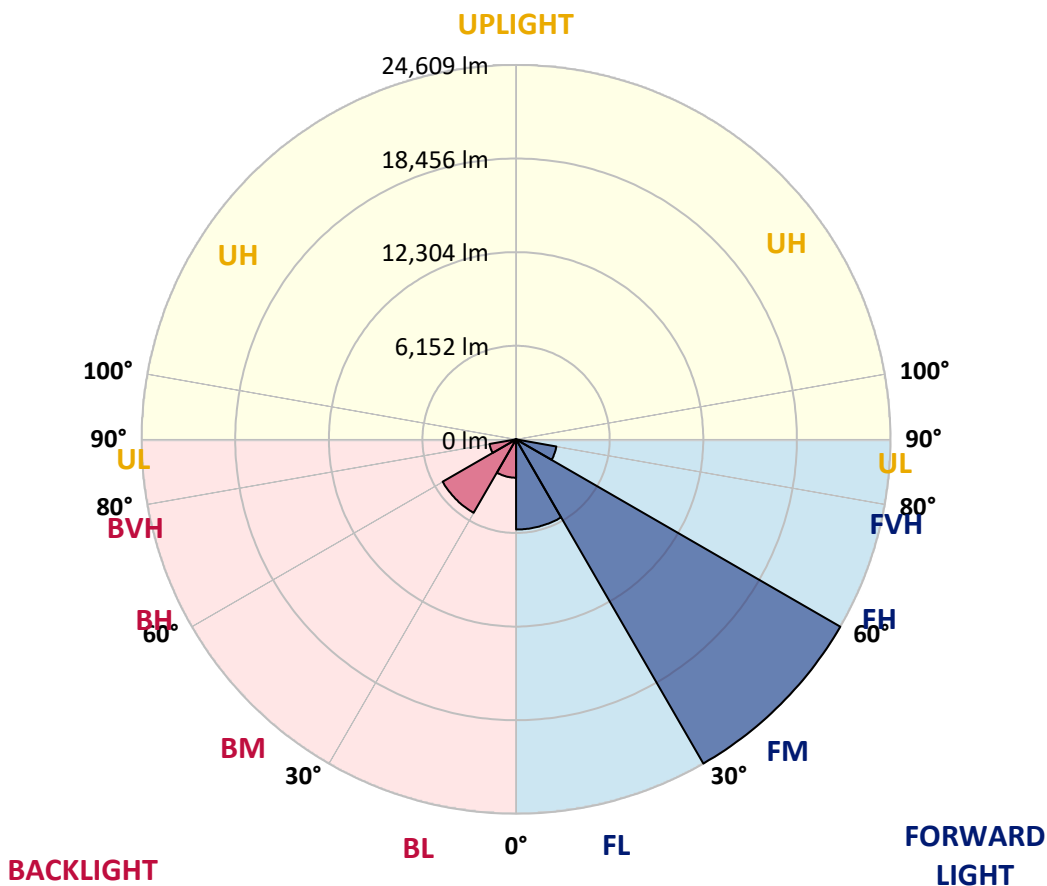
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5924.1	13.7			
FM (30°-60°)	24608.6	57.0			
FH (60°-80°)	2690.9	6.2			G2/5000
FVH (80°-90°)	41.4	0.1			G1/100
BL (0°-30°)	2523.3	5.8	B4/5000		
BM (30°-60°)	5575.8	12.9	B4/8500		
BH (60°-80°)	1773.7	4.1	B3/2500		G3/2500
BVH (80°-90°)	64.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6545.5	6545.5	6545.5	6545.5	6545.5	6545.5	6545.5	6545.5	6545.5	6545.5	6545.5
2.5°	8481.0	8544.3	8445.8	8452.8	8206.5	8093.9	7777.1	7590.6	7467.5	7122.6	6809.4
5°	10191.2	10117.3	10039.9	9994.2	9779.5	9476.9	9082.7	8769.5	8481.0	7805.3	7154.3
7.5°	11239.9	11201.2	11148.4	11120.3	10909.1	10592.4	10198.3	9930.8	9512.0	8597.1	7573.0
10°	12130.2	12084.5	12052.8	12073.9	11901.5	11697.4	11268.1	10961.9	10490.3	9434.6	8079.8
12.5°	12820.0	12844.6	12855.2	12967.8	12893.9	12770.7	12327.3	12003.5	11479.2	10317.9	8674.5
15°	13365.4	13358.4	13481.6	13696.2	13815.9	13738.4	13383.0	13112.1	12471.6	11187.1	9315.0
17.5°	13492.1	13499.2	13692.7	14069.2	14459.9	14649.9	14449.3	14125.5	13492.1	12045.8	9980.1
20°	13594.2	13608.2	13808.8	14238.2	14808.2	15339.6	15371.3	15139.0	14593.6	12974.8	10655.7
22.5°	14238.2	14269.8	14322.6	14593.6	15107.4	15779.5	16149.0	16099.7	15642.3	13949.6	11384.2
25°	15930.8	15835.8	15578.9	15501.5	15698.6	16244.0	16873.9	16969.0	16743.7	15022.9	12168.9
27.5°	18021.2	17919.1	17539.0	17137.9	16712.1	16902.1	17574.2	17859.3	17862.8	16205.3	12957.2
30°	19917.9	19837.0	19527.3	18953.7	18218.2	17943.7	18439.9	18823.5	19052.2	17570.7	13854.6
32.5°	21540.2	21466.3	21047.6	20579.5	19861.6	19309.1	19488.6	19858.1	20393.0	19337.3	14970.1
35°	22905.6	22831.7	22430.5	21959.0	21293.9	20963.1	20899.8	21153.1	21846.4	21181.3	16251.1
37.5°	24014.1	23940.2	23521.5	23078.1	22571.3	22592.4	22687.4	22810.6	23208.3	23155.5	17620.0
40°	24732.0	24654.6	24355.5	24038.8	23718.5	23971.9	24443.5	24295.7	24506.8	24749.6	18879.8
42.5°	25052.3	24953.7	24781.3	24710.9	24612.4	25006.5	25914.4	25766.6	25513.3	25812.4	19815.9
45°	24732.0	24647.6	24644.0	24858.7	25087.4	25594.2	26931.4	26811.8	26171.3	26326.2	20375.4
47.5°	23750.2	23676.3	23876.9	24439.9	25003.0	25742.0	27385.4	27406.5	26639.4	26540.8	20737.9
50°	21628.2	21578.9	22159.6	23225.9	24197.1	25281.0	27241.1	27483.9	26752.0	26474.0	20692.1
52.5°	17313.8	17542.6	18805.9	20586.6	22472.8	24471.6	26706.2	27022.9	26210.0	26034.1	20445.8
55°	11852.2	11957.8	13221.1	15821.7	18812.9	22719.1	25478.1	25967.2	25569.6	25960.2	20702.7
57.5°	6137.3	6221.7	7217.6	9526.1	12760.1	17954.3	22068.1	23672.8	24278.1	26333.2	21501.5
60°	2519.7	2590.0	3001.8	4117.3	6436.4	10455.2	15881.6	18260.5	19682.2	24049.3	19094.5
62.5°	1829.9	1865.1	2062.2	2456.3	3371.3	5123.8	8987.7	9864.0	10863.4	15072.2	12123.2
65°	1541.4	1580.1	1738.4	1977.7	2459.8	3142.5	3839.3	3860.4	4254.6	6140.8	4493.9
67.5°	1291.5	1326.7	1467.5	1671.6	1988.3	2231.1	2062.2	2065.7	2058.7	2227.6	2153.7
70°	1006.5	1034.6	1175.4	1393.6	1558.9	1432.3	1611.7	1784.2	1710.3	1777.1	1879.2
72.5°	735.5	767.2	890.3	1055.7	1013.5	1020.5	1305.6	1481.5	1439.3	1513.2	1608.2
75°	531.4	552.5	615.8	527.9	556.0	672.1	918.5	1013.5	1055.7	1119.1	1203.5
77.5°	172.4	172.4	193.5	242.8	302.6	373.0	468.0	506.7	570.1	640.5	700.3
80°	88.0	91.5	109.1	133.7	168.9	214.7	274.5	292.1	323.8	362.5	387.1
82.5°	42.2	45.7	52.8	66.9	88.0	112.6	151.3	168.9	190.0	214.7	232.3
85°	10.6	10.6	14.1	21.1	28.2	42.2	56.3	66.9	84.5	102.1	112.6
87.5°	0.0	0.0	0.0	0.0	0.0	3.5	10.6	14.1	17.6	21.1	28.2
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°	6545.5	6545.5	6545.5	6545.5	6545.5	6545.5	6545.5	6545.5	6545.5	6545.5	6545.5
2.5°	6668.6	6471.6	6218.2	6003.5	5806.5	5655.1	5524.9	5461.6	5401.8	5359.5	5373.6
5°	6851.6	6513.8	6042.2	5715.0	5514.4	5412.3	5341.9	5306.8	5299.7	5271.6	5261.0
7.5°	7119.1	6637.0	6007.1	5676.3	5542.5	5489.7	5451.0	5429.9	5440.5	5412.3	5401.8
10°	7449.9	6841.1	6095.0	5802.9	5686.8	5648.1	5605.9	5577.7	5563.6	5521.4	5514.4
12.5°	7861.6	7094.4	6253.4	5964.8	5848.7	5781.8	5725.5	5676.3	5644.6	5591.8	5577.7
15°	8305.0	7376.0	6439.9	6123.2	5985.9	5887.4	5795.9	5722.0	5665.7	5595.3	5584.8
17.5°	8787.1	7671.6	6594.7	6232.3	6056.3	5926.1	5792.4	5683.3	5605.9	5514.4	5503.8
20°	9290.3	7970.7	6710.9	6285.1	6059.8	5883.9	5704.4	5560.1	5461.6	5370.1	5363.1
22.5°	9811.2	8245.2	6781.2	6271.0	6003.5	5785.4	5570.7	5408.8	5292.7	5183.6	5176.6
25°	10335.5	8509.1	6798.8	6214.7	5890.9	5637.5	5422.9	5232.9	5102.7	4979.5	4965.4
27.5°	10866.9	8730.8	6756.6	6102.1	5739.6	5465.1	5250.5	5063.9	4930.2	4807.0	4785.9
30°	11433.5	8920.8	6665.1	5954.3	5563.6	5282.1	5071.0	4930.2	4803.5	4680.4	4659.2
32.5°	12038.7	9086.2	6534.9	5774.8	5359.5	5099.1	4944.3	4817.6	4690.9	4581.8	4560.7
35°	12760.1	9195.3	6341.4	5542.5	5169.5	4965.4	4859.8	4712.0	4557.2	4437.5	4427.0
37.5°	13506.2	9279.8	6109.1	5320.8	5004.1	4888.0	4800.0	4599.4	4405.9	4261.6	4244.0
40°	14227.6	9350.2	5820.5	5113.2	4852.8	4831.7	4712.0	4462.2	4127.9	3966.0	3951.9
42.5°	14899.7	9371.3	5517.9	4891.5	4715.6	4705.0	4571.3	4184.2	3927.3	3825.2	3811.2
45°	15360.7	9353.7	5204.7	4683.9	4578.3	4522.0	4381.2	3983.6	3825.2	3733.7	3716.1
47.5°	15702.1	9262.2	4852.8	4465.7	4423.5	4346.1	4043.4	3856.9	3709.1	3617.6	3600.0
50°	15642.3	8882.1	4497.4	4254.6	4237.0	4170.1	3797.1	3698.5	3568.3	3469.8	3455.7
52.5°	15332.6	8160.7	4134.9	4022.3	4057.5	3927.3	3621.1	3508.5	3395.9	3283.3	3258.7
55°	15410.0	7639.9	3860.4	3797.1	3860.4	3564.8	3424.1	3304.4	3198.8	3089.7	3068.6
57.5°	15747.8	7126.1	3568.3	3554.3	3621.1	3286.8	3170.7	3019.4	2868.0	2780.1	2780.1
60°	13224.7	5194.1	3054.6	3089.7	3241.1	3061.6	2959.5	2804.7	2639.3	2561.9	2561.9
62.5°	7819.4	3258.7	2533.7	2495.0	2590.0	2702.6	2759.0	2632.3	2435.2	2333.1	2336.7
65°	3445.2	2371.9	2234.6	2202.9	2174.8	2252.2	2407.0	2417.6	2210.0	2090.3	2093.8
67.5°	2122.0	2146.6	2090.3	2065.7	2041.1	2027.0	2012.9	2019.9	1963.6	1854.5	1851.0
70°	1914.4	1981.2	1942.5	1921.4	1889.7	1865.1	1780.6	1643.4	1548.4	1520.2	1551.9
72.5°	1646.9	1738.4	1717.3	1706.7	1668.0	1608.2	1495.6	1361.9	1249.3	1178.9	1193.0
75°	1242.2	1316.1	1326.7	1330.2	1288.0	1231.7	1115.5	1002.9	904.4	830.5	848.1
77.5°	714.4	756.6	767.2	777.7	746.0	724.9	647.5	566.6	513.8	436.4	457.5
80°	397.7	415.3	415.3	418.8	401.2	376.5	323.8	278.0	253.4	218.2	221.7
82.5°	239.3	246.3	249.9	253.4	242.8	218.2	179.5	147.8	133.7	116.1	112.6
85°	116.1	123.2	123.2	126.7	109.1	95.0	73.9	56.3	49.3	35.2	38.7
87.5°	28.2	31.7	31.7	28.2	24.6	17.6	10.6	3.5	0.0	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)