

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: P643329

Luminaire Tested: GWS-SA6E-760-U-T2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643329  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-760-U-T2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH  
Light Source: (96) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

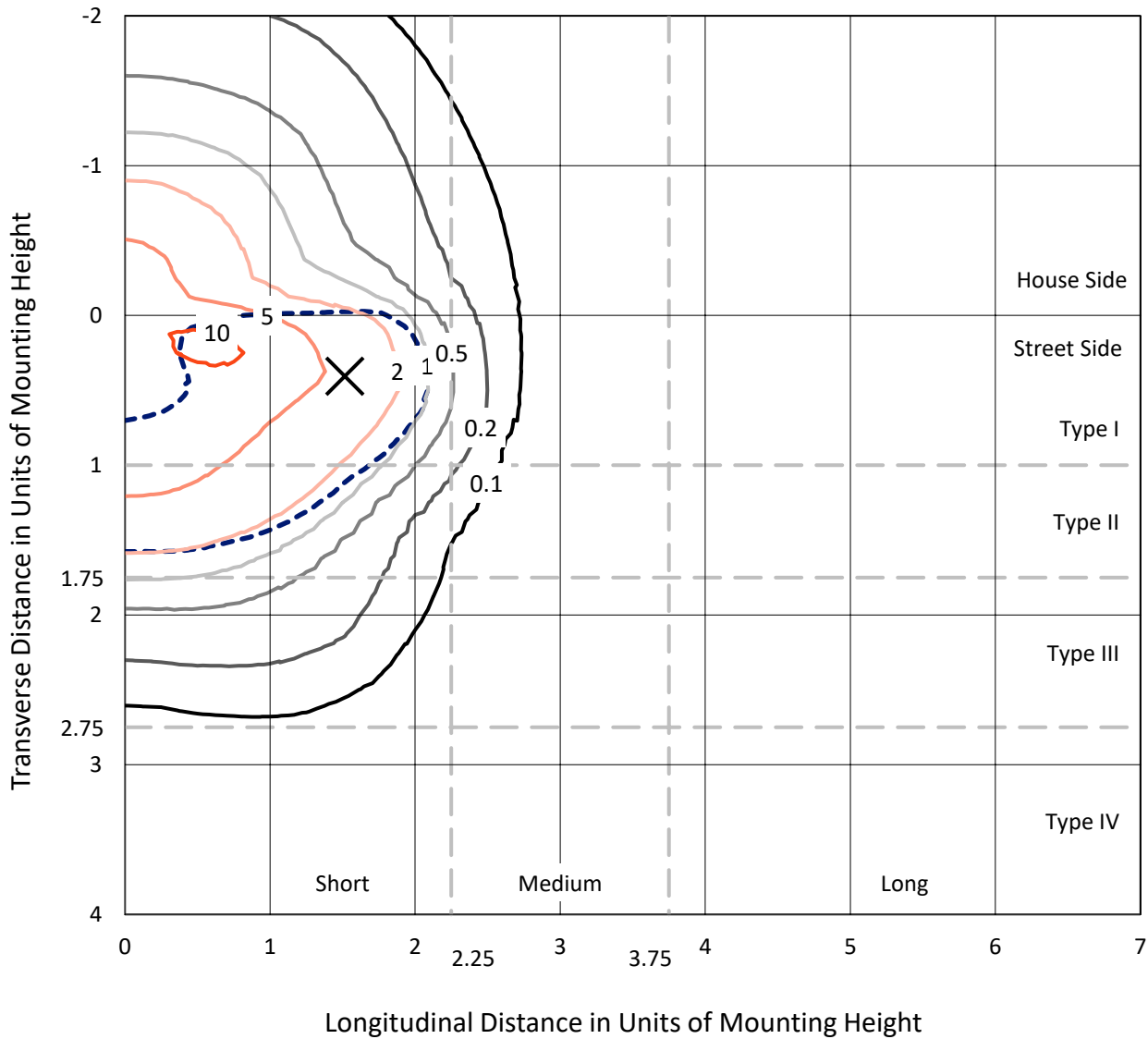
Lumens per Lamp: N/A  
Luminaire Lumens: 37653.2 lumens  
Efficiency: N/A  
Efficacy: 116.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

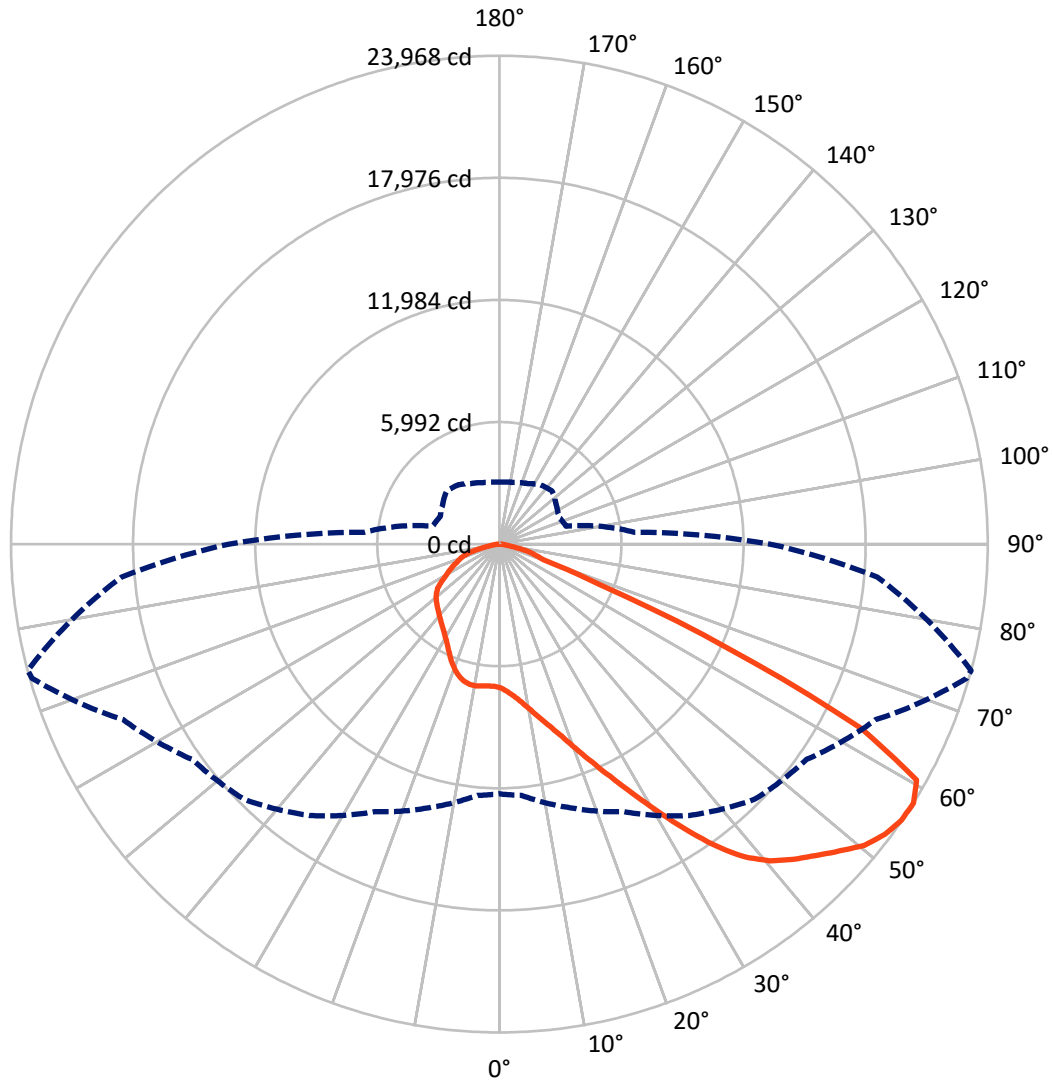
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.1 fc  
 Type II - Short - N/A

REPORT NUMBER: P643329  
CATALOG NUMBER: GWS-SA6E-760-U-T2-W-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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CATALOG NUMBER: GWS-SA6E-760-U-T2-W-GRSWH

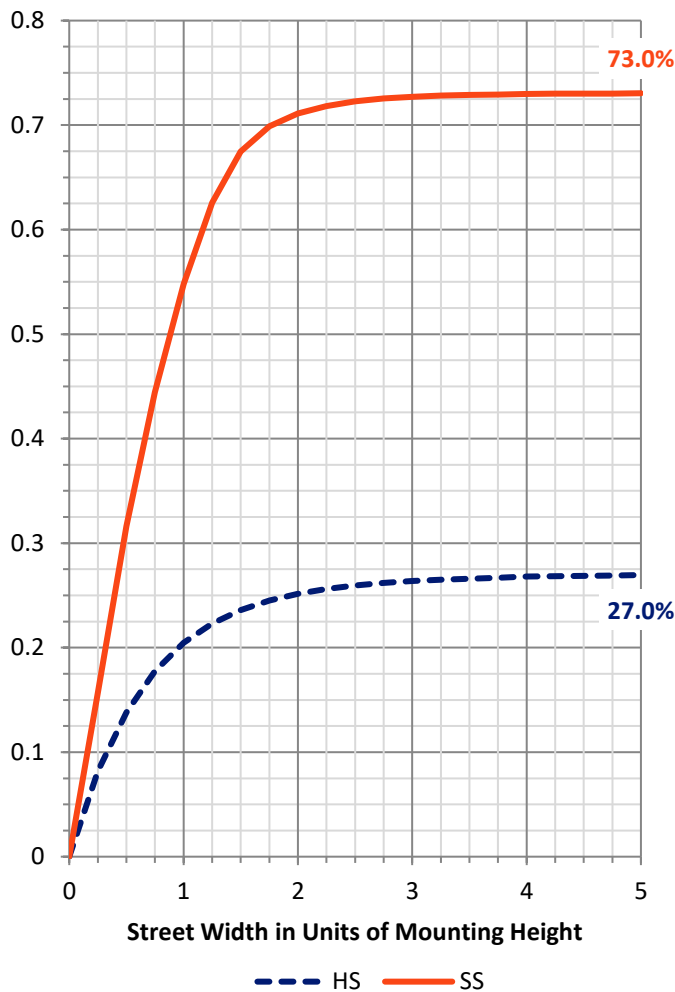
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10186.0	0.0	10186.0
	% Fixture	27.1	0.0	27.1
<b>Street Side</b>	Lumens	27467.3	0.0	27467.3
	% Fixture	72.9	0.0	72.9
<b>Total</b>	Lumens	37653.2	0.0	37653.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	705.6	1.9
10°-20°	2246.6	6.0
20°-30°	3984.3	10.6
30°-40°	6099.3	16.2
40°-50°	8492.8	22.6
50°-60°	9731.1	25.8
60°-70°	5000.0	13.3
70°-80°	1258.8	3.3
80°-90°	134.6	0.4
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°	37653.2	100.0
0°-180°	37653.2	100.0

**Coefficient of Utilization**



REPORT NUMBER: P643329

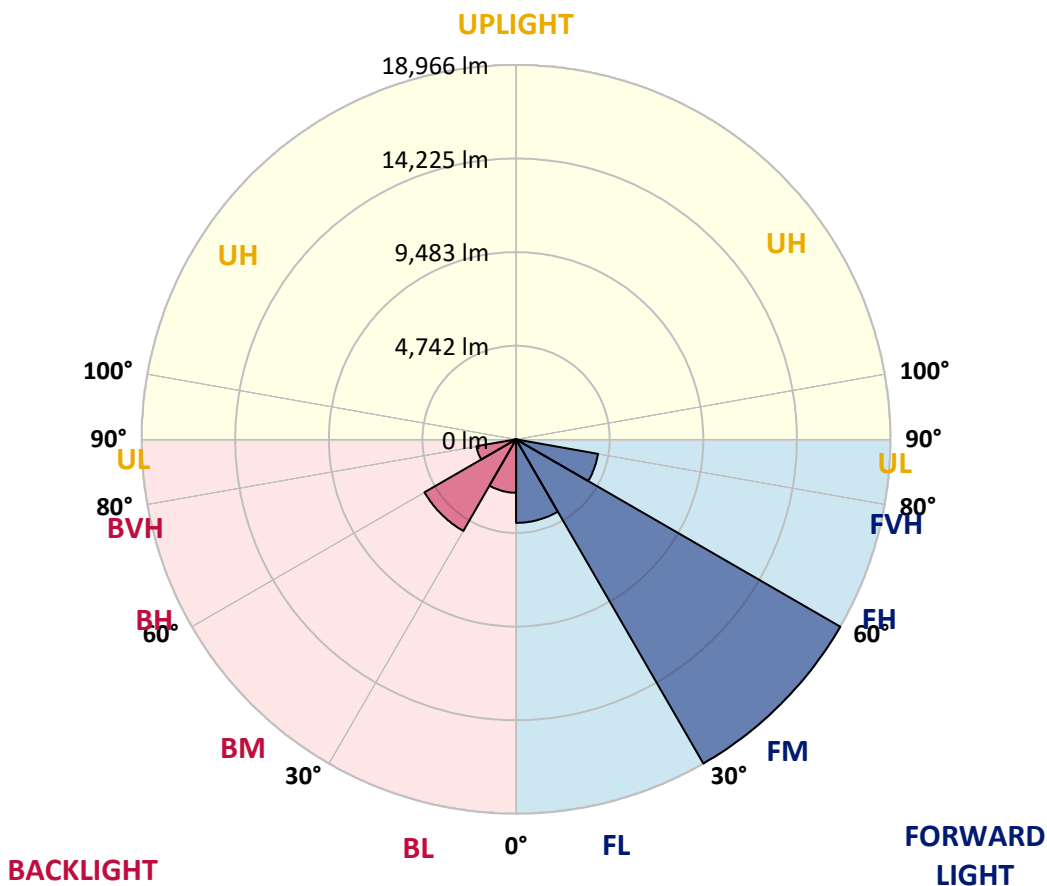
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4230.6	11.2			
FM (30°-60°)	18966.3	50.4			
FH (60°-80°)	4220.5	11.2			G2/5000
FVH (80°-90°)	49.8	0.1			G1/100
BL (0°-30°)	2706.0	7.2	B4/5000		
BM (30°-60°)	5356.9	14.2	B4/8500		
BH (60°-80°)	2038.3	5.4	B3/2500		G3/2500
BVH (80°-90°)	84.8	0.2			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°	65°	74°	75°	85°
0°	7051.5	7051.5	7051.5	7051.5	7051.5	7051.5	7051.5	7051.5	7051.5	7051.5	7051.5
2.5°	7576.0	7595.5	7576.0	7608.4	7543.7	7514.5	7443.3	7336.5	7252.3	7239.3	7145.4
5°	8165.3	8207.4	8181.5	8168.5	8081.1	8016.4	7909.5	7695.8	7521.0	7495.1	7310.6
7.5°	8544.1	8573.2	8573.2	8582.9	8550.6	8476.1	8362.8	8110.2	7864.2	7825.3	7546.9
10°	8670.4	8693.0	8735.1	8816.0	8880.8	8903.5	8829.0	8586.2	8285.1	8246.2	7857.7
12.5°	8699.5	8725.4	8790.1	8939.1	9117.1	9279.0	9292.0	9113.9	8777.2	8735.1	8217.1
15°	8754.5	8780.4	8867.8	9052.4	9314.6	9625.4	9816.5	9693.4	9321.1	9275.8	8625.0
17.5°	8748.1	8777.2	8906.7	9152.8	9505.7	9955.7	10324.8	10376.6	9991.3	9913.6	9088.0
20°	8731.9	8757.8	8897.0	9198.1	9635.2	10253.5	10920.5	11189.2	10774.8	10703.6	9628.7
22.5°	8861.4	8890.5	8997.4	9246.6	9703.2	10483.4	11470.9	12118.4	11704.0	11603.6	10250.3
25°	9152.8	9194.8	9259.6	9431.2	9826.2	10687.4	12034.2	13170.6	12746.5	12626.7	10927.0
27.5°	9602.8	9654.6	9745.2	9826.2	10101.4	10946.4	12594.3	14349.1	13925.0	13798.7	11642.5
30°	10153.2	10221.2	10337.7	10392.8	10580.5	11328.4	13203.0	15563.2	15317.2	15142.4	12448.7
32.5°	10914.0	11007.9	11118.0	11134.2	11247.5	11908.0	13805.2	16767.6	16764.4	16641.4	13364.9
35°	11904.7	12005.1	12027.8	12050.4	12105.5	12704.4	14533.7	17865.2	18289.3	18146.9	14362.1
37.5°	12986.1	13131.8	13167.4	13067.0	13144.7	13662.8	15352.8	18745.8	19616.8	19464.6	15326.9
40°	14141.9	14200.2	14297.3	14138.7	14235.8	14760.3	16155.7	19309.2	20607.5	20445.6	16087.7
42.5°	14970.8	15077.6	15223.3	15165.0	15220.1	15699.2	16719.1	19581.1	21313.3	21151.4	16634.9
45°	15870.8	15903.2	15997.1	15984.1	16016.5	16463.3	17123.8	19700.9	21944.6	21798.9	17101.1
47.5°	16654.3	16702.9	16764.4	16693.2	16622.0	16913.3	17454.0	19804.5	22673.1	22498.2	17590.0
50°	17408.7	17450.8	17525.2	17318.0	17052.6	17127.0	17615.9	19947.0	23356.2	23233.2	17975.3
52.5°	17547.9	17593.2	17942.9	17985.0	17645.0	17382.8	17900.8	20261.0	23757.7	23680.0	18114.5
55°	15796.4	15877.3	16573.4	17373.1	18211.6	18127.4	18357.3	20426.2	23916.3	23935.7	18363.8
57.5°	12260.9	12377.4	13394.0	14491.6	16256.1	17716.3	18415.6	20384.1	23861.3	23968.1	18619.6
60°	8042.3	8110.2	9314.6	10544.9	12374.2	14394.5	16482.7	19626.5	23372.4	23524.6	18554.8
62.5°	4856.4	4934.1	5902.2	6834.6	7912.7	9262.8	11179.5	15773.7	19590.8	19930.8	14860.7
65°	3389.8	3493.4	4341.7	5109.0	5481.3	5202.9	5662.6	8809.6	12205.8	12348.3	9081.5
67.5°	2457.4	2528.6	3224.7	4137.7	4548.9	3674.7	2800.5	3901.3	5316.2	5368.0	3745.9
70°	1609.1	1690.0	2321.4	3150.2	3713.6	2978.6	2094.7	2110.9	2237.2	2263.1	2175.7
72.5°	883.9	932.4	1434.3	2091.5	2195.1	1780.7	1635.0	1754.8	1842.2	1842.2	1864.9
75°	456.5	498.6	586.0	689.6	832.1	974.5	1178.5	1356.6	1450.5	1456.9	1447.2
77.5°	233.1	249.3	314.0	340.0	372.3	433.8	563.3	722.0	806.2	838.5	832.1
80°	110.1	116.6	132.7	155.4	191.0	242.8	304.3	362.6	414.4	420.9	456.5
82.5°	58.3	64.8	71.2	84.2	103.6	129.5	178.1	213.7	246.1	252.5	281.7
85°	22.7	25.9	29.1	32.4	45.3	55.0	74.5	100.4	123.0	123.0	145.7
87.5°	0.0	0.0	0.0	0.0	3.2	6.5	13.0	16.2	22.7	22.7	38.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P643329

CATALOG NUMBER: GWS-SA6E-760-U-T2-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7051.5	7051.5	7051.5	7051.5	7051.5	7051.5	7051.5	7051.5	7051.5	7051.5	7051.5
2.5°	7122.8	7028.9	6986.8	6918.8	6863.8	6802.2	6753.7	6718.1	6695.4	6682.5	6669.5
5°	7239.3	7096.9	6983.6	6847.6	6753.7	6663.0	6588.6	6536.8	6510.9	6491.4	6478.5
7.5°	7420.6	7229.6	7015.9	6805.5	6640.4	6494.7	6400.8	6345.7	6310.1	6297.2	6287.5
10°	7669.9	7404.4	7051.5	6718.1	6472.0	6313.4	6248.6	6222.7	6225.9	6219.5	6216.2
12.5°	7951.6	7589.0	7041.8	6562.7	6290.7	6196.8	6200.0	6242.1	6290.7	6303.6	6306.9
15°	8255.9	7770.3	6947.9	6361.9	6148.2	6158.0	6242.1	6342.5	6433.2	6468.8	6475.2
17.5°	8586.2	7922.5	6776.3	6141.8	6031.7	6135.3	6290.7	6455.8	6588.6	6646.8	6663.0
20°	8955.3	8052.0	6533.5	5924.8	5921.6	6093.2	6319.8	6536.8	6705.1	6782.8	6795.8
22.5°	9347.0	8132.9	6235.7	5724.1	5808.3	6038.2	6297.2	6523.8	6701.9	6779.6	6795.8
25°	9742.0	8158.8	5908.7	5539.6	5691.7	5950.7	6187.1	6368.4	6536.8	6604.7	6617.7
27.5°	10111.1	8084.3	5597.8	5380.9	5584.9	5821.2	5979.9	6077.0	6193.6	6245.4	6255.1
30°	10486.7	7935.4	5335.6	5254.7	5465.1	5643.2	5714.4	5720.9	5766.2	5766.2	5772.7
32.5°	10865.5	7715.3	5105.7	5131.6	5316.2	5432.7	5442.4	5368.0	5312.9	5222.3	5219.0
35°	11302.5	7491.9	4917.9	4992.4	5141.3	5212.6	5183.4	5041.0	4908.2	4759.3	4752.8
37.5°	11707.2	7262.0	4759.3	4850.0	4943.8	4995.7	4927.7	4756.1	4646.0	4493.8	4471.2
40°	12040.7	7054.8	4607.1	4701.0	4746.4	4791.7	4681.6	4542.4	4558.6	4474.4	4471.2
42.5°	12235.0	6854.0	4464.7	4535.9	4565.0	4597.4	4500.3	4396.7	4484.1	4419.4	4422.6
45°	12377.4	6679.2	4335.2	4361.1	4432.3	4480.9	4390.2	4273.7	4293.1	4043.8	3985.5
47.5°	12539.3	6582.1	4212.1	4186.2	4312.5	4396.7	4257.5	4089.1	3972.6	3726.5	3703.8
50°	12710.9	6546.5	4082.6	4011.4	4163.6	4244.5	4082.6	3872.2	3720.0	3587.3	3574.3
52.5°	12769.2	6543.2	3920.8	3801.0	3953.1	4066.5	3930.5	3716.8	3535.5	3406.0	3399.5
55°	12999.1	6637.1	3713.6	3512.8	3655.3	3888.4	3788.0	3480.4	3334.8	3276.5	3270.0
57.5°	13267.8	6653.3	3386.6	3198.8	3396.3	3671.5	3545.2	3279.7	3121.1	3049.8	3043.4
60°	13157.7	6255.1	3036.9	2959.2	3176.1	3467.5	3350.9	3121.1	2936.5	2868.5	2862.1
62.5°	10026.9	4416.1	2781.1	2752.0	2939.8	3172.9	3150.2	2910.6	2735.8	2687.2	2680.8
65°	6031.7	3101.6	2535.1	2531.8	2664.6	2888.0	2917.1	2722.8	2538.3	2470.3	2470.3
67.5°	2981.8	2373.2	2256.6	2240.4	2324.6	2483.3	2606.3	2447.6	2292.2	2227.5	2217.8
70°	2107.7	2091.5	2052.7	2007.3	2023.5	2088.3	2140.1	2007.3	1842.2	1777.5	1764.5
72.5°	1822.8	1826.0	1800.1	1764.5	1751.6	1706.2	1660.9	1563.8	1463.4	1395.4	1401.9
75°	1414.8	1421.3	1437.5	1424.6	1388.9	1340.4	1291.8	1168.8	1087.8	1023.1	1010.1
77.5°	825.6	858.0	909.8	896.8	903.3	835.3	815.9	696.1	621.6	576.3	566.6
80°	466.2	485.6	508.3	524.5	505.1	475.9	433.8	369.1	346.4	314.0	307.6
82.5°	281.7	301.1	310.8	323.8	317.3	278.4	246.1	204.0	184.5	168.4	165.1
85°	142.5	155.4	165.1	171.6	152.2	126.3	113.3	90.7	77.7	68.0	68.0
87.5°	35.6	38.9	45.3	38.9	35.6	16.2	13.0	3.2	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)