

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: P643333

Luminaire Tested: GWS-SA6E-760-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643333  
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-SAGE-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39747.9 lumens  
Efficiency: N/A  
Efficacy: 122.8 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

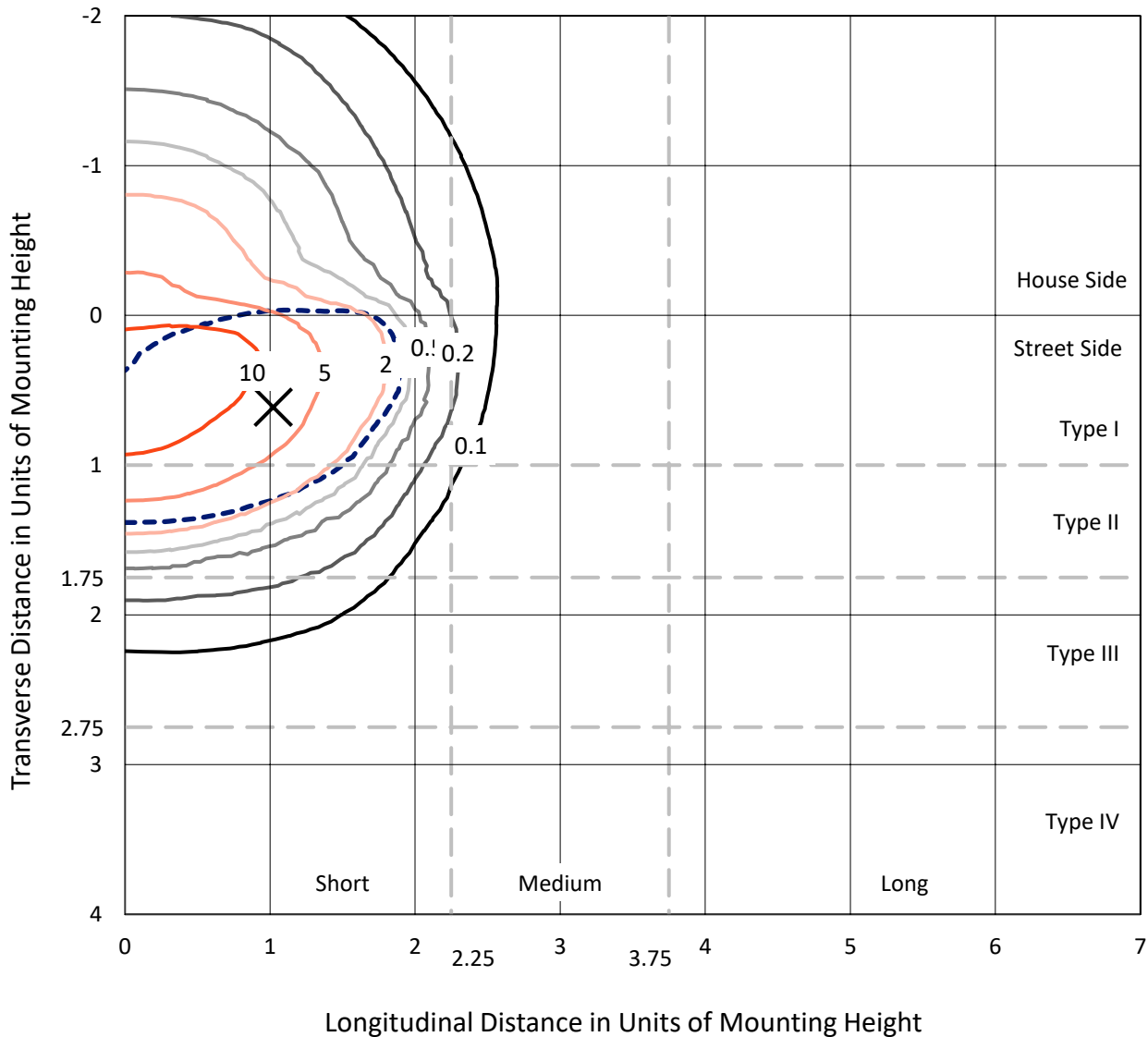


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### Iso-Footcandle Lines of Horizontal Illumination

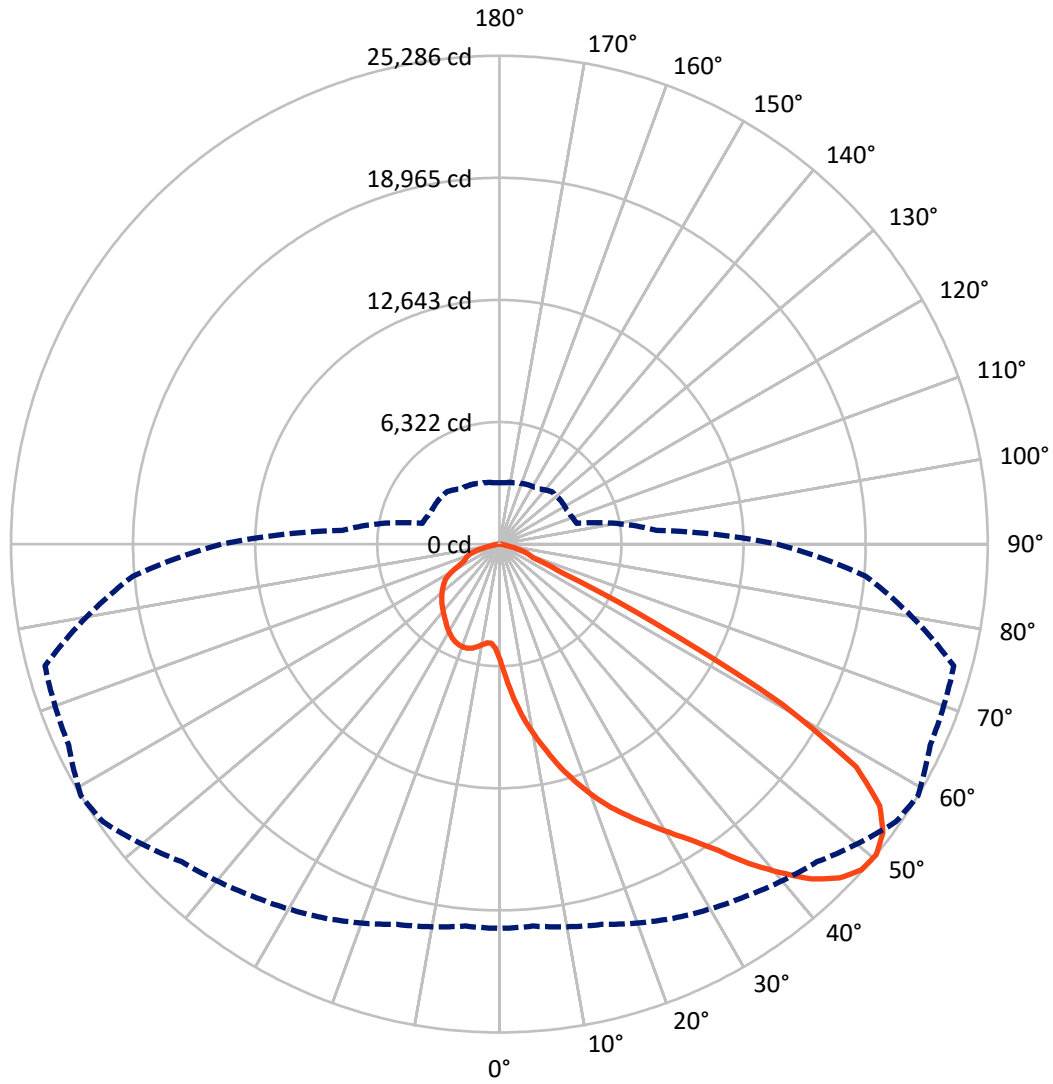
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.2 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	9142.8	0.0	9142.8
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	30605.1	0.0	30605.1
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	39747.9	0.0	39747.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	675.6	1.7
10°-20°	2452.5	6.2
20°-30°	4643.9	11.7
30°-40°	7701.1	19.4
40°-50°	10520.2	26.5
50°-60°	9549.6	24.0
60°-70°	3180.1	8.0
70°-80°	927.5	2.3
80°-90°	97.4	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°	39747.9	100.0
0°-180°	39747.9	100.0

**Coefficient of Utilization**



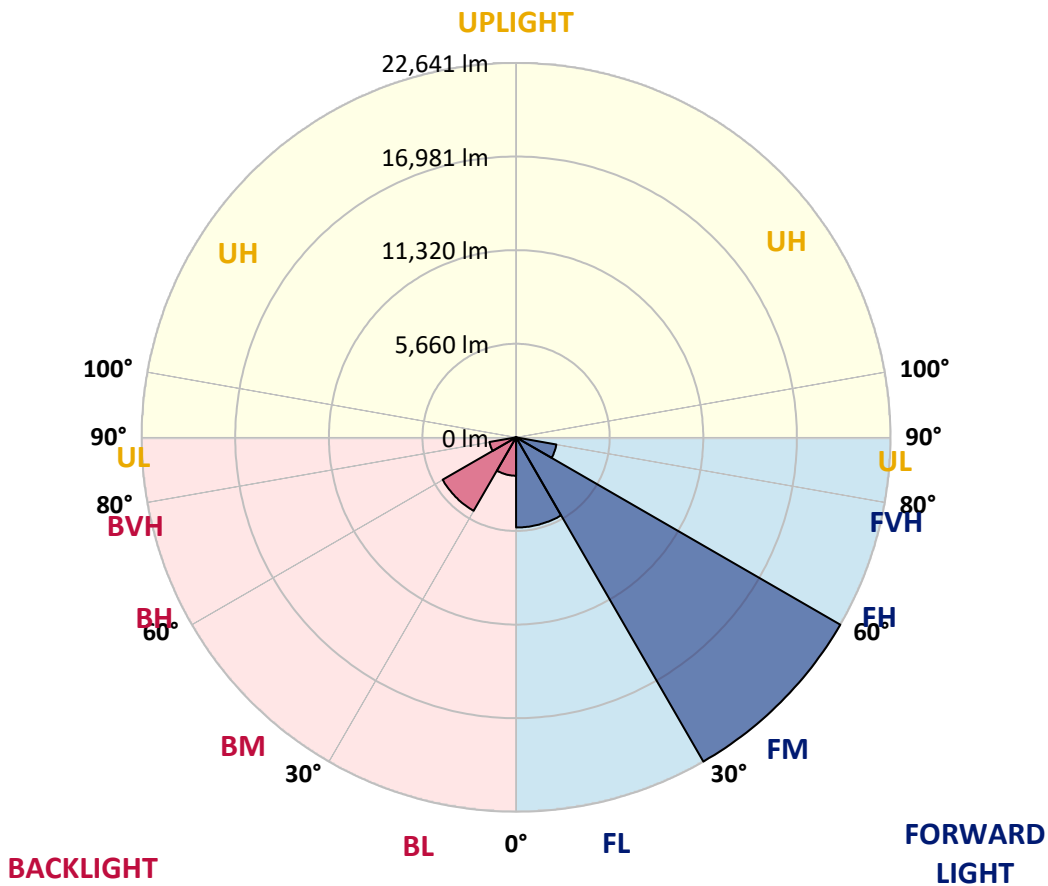
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5450.4	13.7			
FM (30°-60°)	22640.9	57.0			
FH (60°-80°)	2475.7	6.2			G2/5000
FVH (80°-90°)	38.1	0.1			G1/100
BL (0°-30°)	2321.6	5.8	B3/2500		
BM (30°-60°)	5130.0	12.9	B4/8500		
BH (60°-80°)	1631.9	4.1	B3/2500		G3/2500
BVH (80°-90°)	59.3	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°	6022.1	6022.1	6022.1	6022.1	6022.1	6022.1	6022.1	6022.1	6022.1	6022.1	6022.1
2.5°	7802.8	7861.1	7770.4	7776.9	7550.3	7446.7	7155.3	6983.7	6870.4	6553.1	6264.9
5°	9376.3	9308.3	9237.1	9195.0	8997.5	8719.1	8356.5	8068.3	7802.8	7181.2	6582.2
7.5°	10341.2	10305.5	10257.0	10231.1	10036.8	9745.4	9382.8	9136.7	8751.5	7909.7	6967.5
10°	11160.3	11118.2	11089.1	11108.5	10949.8	10762.1	10367.1	10085.4	9651.5	8680.2	7433.7
12.5°	11794.9	11817.5	11827.3	11930.9	11862.9	11749.5	11341.6	11043.7	10561.3	9492.9	7980.9
15°	12296.7	12290.2	12403.6	12601.1	12711.1	12639.9	12312.9	12063.6	11474.3	10292.6	8570.1
17.5°	12413.3	12419.7	12597.8	12944.3	13303.6	13478.5	13293.9	12996.1	12413.3	11082.6	9182.1
20°	12507.2	12520.1	12704.7	13099.7	13624.2	14113.1	14142.2	13928.5	13426.7	11937.3	9803.7
22.5°	13099.7	13128.8	13177.4	13426.7	13899.4	14517.8	14857.7	14812.4	14391.5	12834.2	10473.9
25°	14657.0	14569.6	14333.2	14262.0	14443.3	14945.1	15524.7	15612.1	15404.9	13821.7	11195.9
27.5°	16580.2	16486.3	16136.6	15767.5	15375.8	15550.6	16169.0	16431.2	16434.5	14909.5	11921.1
30°	18325.3	18250.8	17965.9	17438.2	16761.5	16508.9	16965.5	17318.4	17528.8	16165.7	12746.8
32.5°	19817.8	19749.9	19364.6	18934.0	18273.5	17765.2	17930.3	18270.2	18762.4	17791.1	13773.1
35°	21074.1	21006.1	20637.0	20203.1	19591.2	19286.9	19228.6	19461.7	20099.5	19487.6	14951.6
37.5°	22093.9	22025.9	21640.7	21232.7	20766.5	20785.9	20873.3	20986.7	21352.5	21303.9	16211.1
40°	22754.4	22683.2	22408.0	22116.6	21822.0	22055.1	22488.9	22353.0	22547.2	22770.6	17370.2
42.5°	23049.1	22958.4	22799.8	22735.0	22644.3	23007.0	23842.3	23706.3	23473.2	23748.4	18231.4
45°	22754.4	22676.7	22673.5	22871.0	23081.4	23547.7	24778.0	24667.9	24078.6	24221.1	18746.2
47.5°	21851.1	21783.1	21967.7	22485.7	23003.7	23683.6	25195.6	25215.1	24509.3	24418.6	19079.7
50°	19898.8	19853.5	20387.7	21368.7	22262.3	23259.5	25062.9	25286.3	24612.9	24357.1	19037.6
52.5°	15929.4	16139.8	17302.2	18940.4	20675.8	22514.8	24570.8	24862.2	24114.3	23952.4	18810.9
55°	10904.5	11001.6	12164.0	14556.6	17308.6	20902.5	23440.8	23890.9	23525.0	23884.4	19047.3
57.5°	5646.5	5724.2	6640.5	8764.4	11739.8	16518.7	20303.5	21779.9	22336.8	24227.6	19782.2
60°	2318.2	2382.9	2761.7	3788.1	5921.7	9619.2	14611.7	16800.3	18108.4	22126.3	17567.7
62.5°	1683.6	1716.0	1897.3	2259.9	3101.7	4714.1	8269.0	9075.2	9994.7	13867.0	11153.8
65°	1418.1	1453.7	1599.4	1819.6	2263.1	2891.2	3532.3	3551.7	3914.4	5649.8	4134.5
67.5°	1188.2	1220.6	1350.1	1537.9	1829.3	2052.7	1897.3	1900.5	1894.0	2049.5	1981.5
70°	926.0	951.9	1081.4	1282.1	1434.3	1317.7	1482.9	1641.5	1573.5	1635.0	1728.9
72.5°	676.7	705.8	819.1	971.3	932.5	938.9	1201.2	1363.1	1324.2	1392.2	1479.6
75°	488.9	508.3	566.6	485.7	511.6	618.4	845.0	932.5	971.3	1029.6	1107.3
77.5°	158.6	158.6	178.1	223.4	278.4	343.2	430.6	466.2	524.5	589.3	644.3
80°	80.9	84.2	100.4	123.0	155.4	197.5	252.5	268.7	297.9	333.5	356.1
82.5°	38.9	42.1	48.6	61.5	80.9	103.6	139.2	155.4	174.8	197.5	213.7
85°	9.7	9.7	13.0	19.4	25.9	38.9	51.8	61.5	77.7	93.9	103.6
87.5°	0.0	0.0	0.0	0.0	0.0	3.2	9.7	13.0	16.2	19.4	25.9
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°	6022.1	6022.1	6022.1	6022.1	6022.1	6022.1	6022.1	6022.1	6022.1	6022.1	6022.1
2.5°	6135.4	5954.1	5721.0	5523.5	5342.2	5203.0	5083.2	5024.9	4969.8	4931.0	4943.9
5°	6303.8	5992.9	5559.1	5258.0	5073.4	4979.6	4914.8	4882.4	4875.9	4850.0	4840.3
7.5°	6549.8	6106.3	5526.7	5222.4	5099.3	5050.8	5015.2	4995.7	5005.5	4979.6	4969.8
10°	6854.2	6294.1	5607.7	5338.9	5232.1	5196.5	5157.6	5131.7	5118.8	5079.9	5073.4
12.5°	7233.0	6527.2	5753.4	5487.9	5381.0	5319.5	5267.7	5222.4	5193.2	5144.7	5131.7
15°	7640.9	6786.2	5925.0	5633.6	5507.3	5416.6	5332.5	5264.5	5212.7	5147.9	5138.2
17.5°	8084.5	7058.1	6067.4	5733.9	5572.1	5452.3	5329.2	5228.9	5157.6	5073.4	5063.7
20°	8547.5	7333.3	6174.3	5782.5	5575.3	5413.4	5248.3	5115.5	5024.9	4940.7	4934.2
22.5°	9026.7	7585.9	6239.0	5769.5	5523.5	5322.7	5125.3	4976.3	4869.5	4769.1	4762.6
25°	9509.1	7828.7	6255.2	5717.7	5419.9	5186.8	4989.3	4814.4	4694.6	4581.3	4568.4
27.5°	9998.0	8032.7	6216.3	5614.1	5280.7	5028.1	4830.6	4659.0	4536.0	4422.7	4403.2
30°	10519.2	8207.5	6132.2	5478.2	5118.8	4859.8	4665.5	4536.0	4419.4	4306.1	4286.7
32.5°	11076.1	8359.7	6012.4	5313.0	4931.0	4691.4	4548.9	4432.4	4315.8	4215.5	4196.0
35°	11739.8	8460.1	5834.3	5099.3	4756.2	4568.4	4471.2	4335.3	4192.8	4082.7	4073.0
37.5°	12426.2	8537.8	5620.6	4895.4	4604.0	4497.1	4416.2	4231.6	4053.6	3920.8	3904.6
40°	13089.9	8602.5	5355.1	4704.4	4464.8	4445.3	4335.3	4105.4	3797.8	3648.9	3635.9
42.5°	13708.3	8621.9	5076.7	4500.4	4338.5	4328.8	4205.7	3849.6	3613.3	3519.4	3506.4
45°	14132.5	8605.8	4788.5	4309.4	4212.2	4160.4	4030.9	3665.1	3519.4	3435.2	3419.0
47.5°	14446.5	8521.6	4464.8	4108.6	4069.8	3998.5	3720.1	3548.5	3412.5	3328.3	3312.1
50°	14391.5	8171.9	4137.8	3914.4	3898.2	3836.7	3493.5	3402.8	3283.0	3192.4	3179.4
52.5°	14106.6	7508.2	3804.3	3700.7	3733.0	3613.3	3331.6	3228.0	3124.4	3020.8	2998.1
55°	14177.8	7029.0	3551.7	3493.5	3551.7	3279.8	3150.3	3040.2	2943.1	2842.7	2823.3
57.5°	14488.6	6556.3	3283.0	3270.1	3331.6	3024.0	2917.2	2777.9	2638.7	2557.8	2557.8
60°	12167.2	4778.8	2810.3	2842.7	2981.9	2816.8	2722.9	2580.4	2428.3	2357.0	2357.0
62.5°	7194.1	2998.1	2331.1	2295.5	2382.9	2486.5	2538.3	2421.8	2240.5	2146.6	2149.8
65°	3169.7	2182.2	2055.9	2026.8	2000.9	2072.1	2214.6	2224.3	2033.3	1923.2	1926.4
67.5°	1952.3	1975.0	1923.2	1900.5	1877.9	1864.9	1852.0	1858.4	1806.6	1706.3	1703.0
70°	1761.3	1822.8	1787.2	1767.8	1738.6	1716.0	1638.3	1512.0	1424.6	1398.7	1427.8
72.5°	1515.2	1599.4	1580.0	1570.3	1534.7	1479.6	1376.0	1253.0	1149.4	1084.6	1097.6
75°	1142.9	1210.9	1220.6	1223.8	1185.0	1133.2	1026.3	922.7	832.1	764.1	780.3
77.5°	657.2	696.1	705.8	715.5	686.4	667.0	595.7	521.3	472.7	401.5	420.9
80°	365.9	382.0	382.0	385.3	369.1	346.4	297.9	255.8	233.1	200.7	204.0
82.5°	220.2	226.6	229.9	233.1	223.4	200.7	165.1	136.0	123.0	106.8	103.6
85°	106.8	113.3	113.3	116.6	100.4	87.4	68.0	51.8	45.3	32.4	35.6
87.5°	25.9	29.1	29.1	25.9	22.7	16.2	9.7	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)