

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: P643203

Luminaire Tested: GWS-SA6E-740-U-SL3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643203  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-740-U-SL3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

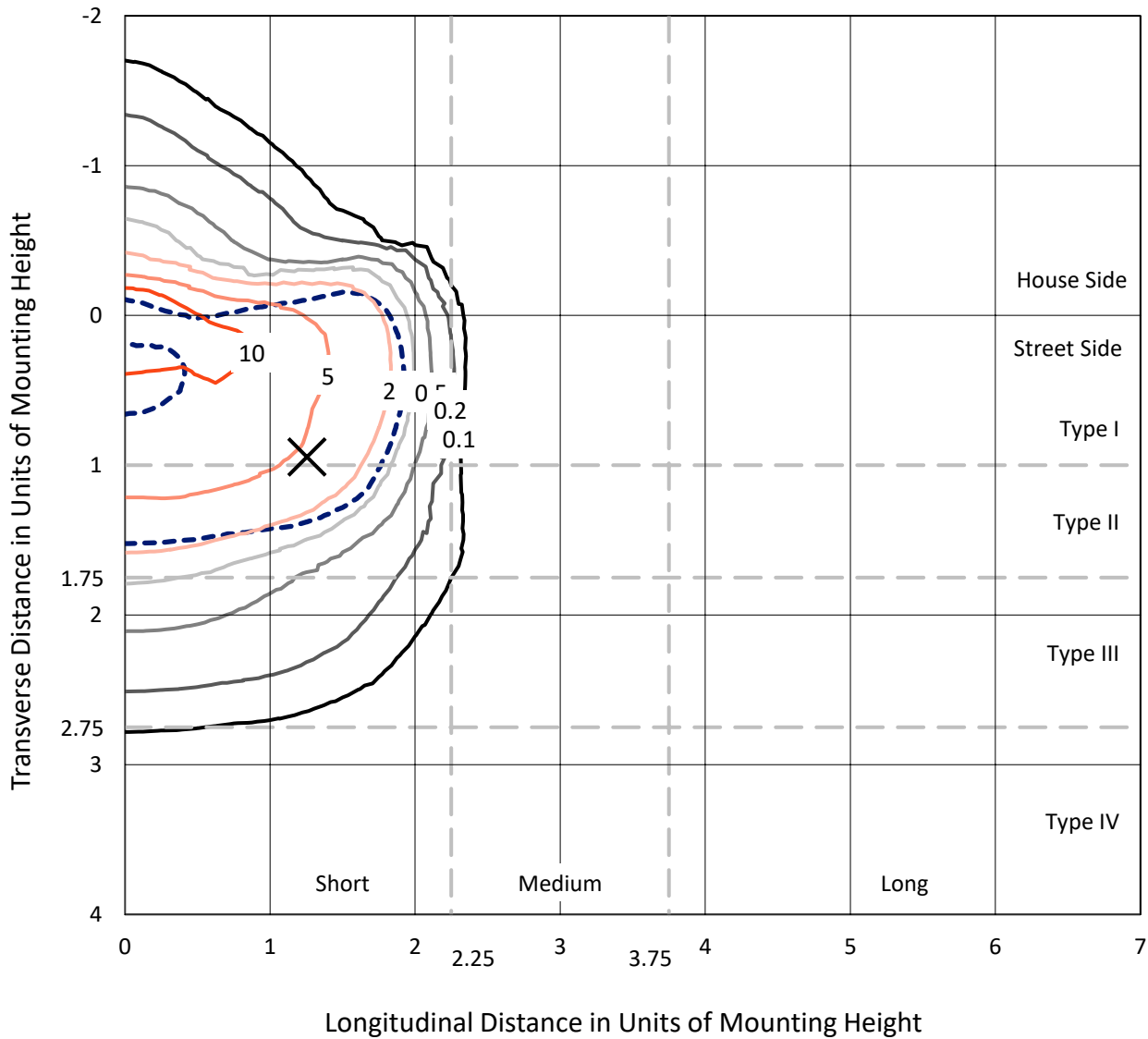
Lumens per Lamp: N/A  
Luminaire Lumens: 26182.6 lumens  
Efficiency: N/A  
Efficacy: 80.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

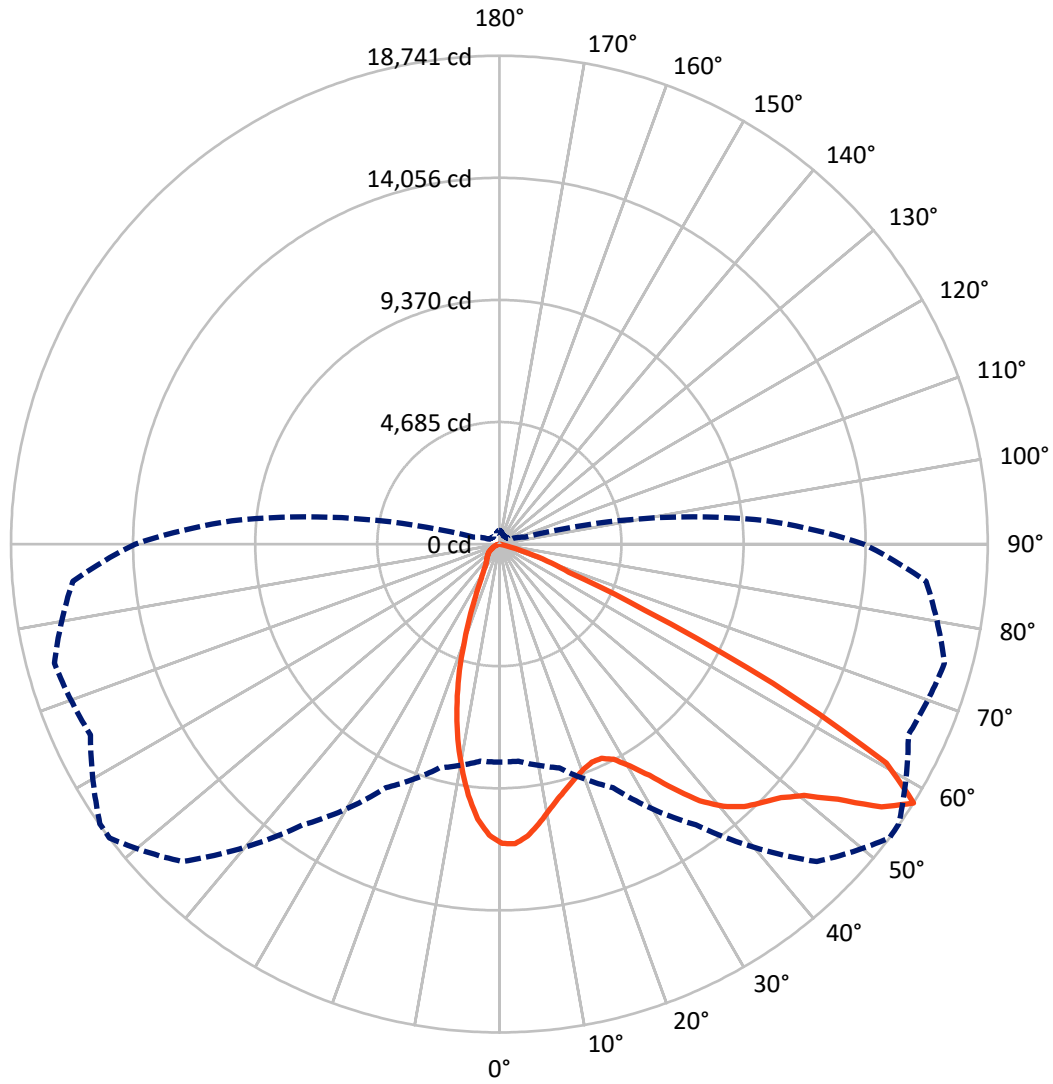
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4325.0	0.0	4325.0
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	21857.6	0.0	21857.6
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	26182.6	0.0	26182.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	982.7	3.8
10°-20°	2157.3	8.2
20°-30°	2810.4	10.7
30°-40°	4076.5	15.6
40°-50°	5882.1	22.5
50°-60°	7113.8	27.2
60°-70°	2899.3	11.1
70°-80°	260.5	1.0
80°-90°	0.0	0.0
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°	26182.6	100.0
0°-180°	26182.6	100.0

**Coefficient of Utilization**



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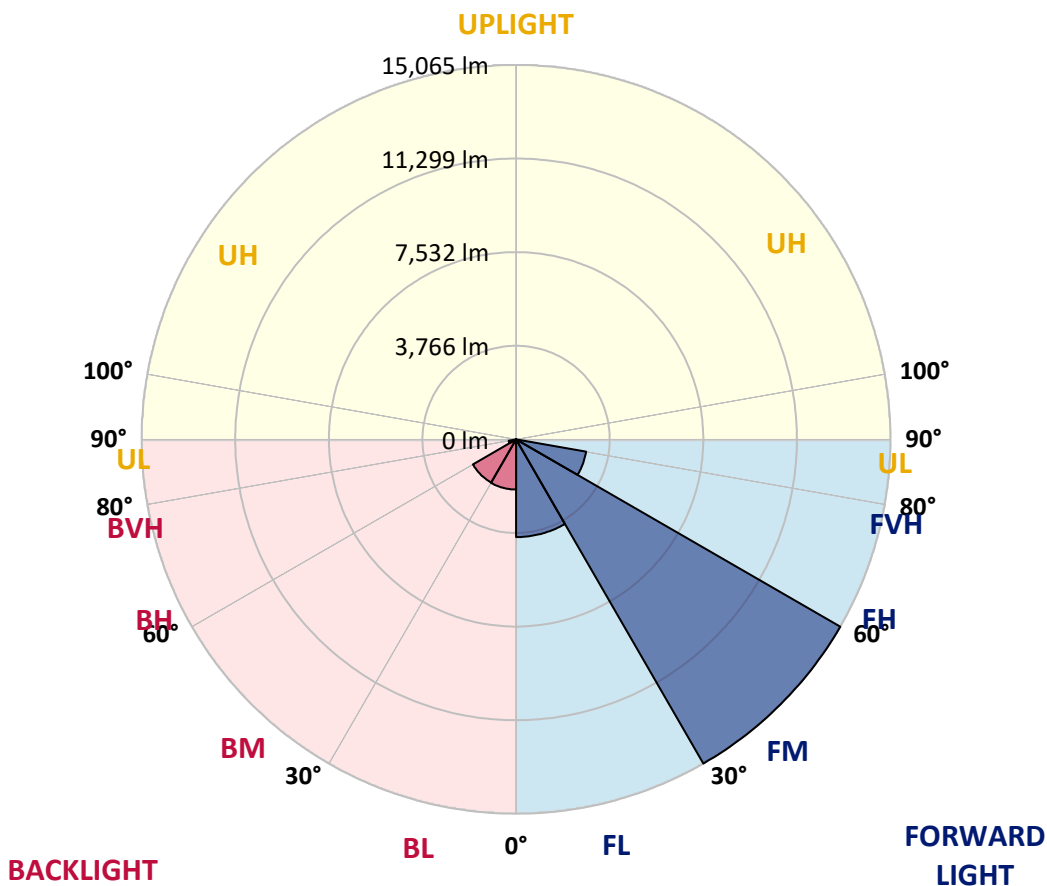
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3931.8	15.0			
FM (30°-60°)	15065.0	57.5			
FH (60°-80°)	2860.9	10.9			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	2018.5	7.7	B3/2500		
BM (30°-60°)	2007.5	7.7	B2/2500		
BH (60°-80°)	299.0	1.1	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
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°	53°	55°	65°	75°	85°
0°	11485.2	11485.2	11485.2	11485.2	11485.2	11485.2	11485.2	11485.2	11485.2	11485.2	11485.2
2.5°	11324.7	11350.4	11395.3	11453.1	11491.6	11510.9	11510.9	11565.4	11530.1	11501.2	11469.1
5°	10840.2	10865.8	10926.8	11019.9	11112.9	11180.3	11257.3	11315.1	11337.6	11337.6	11283.0
7.5°	10156.6	10191.9	10230.4	10358.8	10561.0	10711.8	10843.4	10926.8	11048.8	11087.3	11010.2
10°	9421.8	9457.1	9543.7	9720.2	9951.3	10175.9	10400.5	10506.4	10715.0	10824.1	10737.5
12.5°	8799.2	8815.3	8930.8	9142.6	9437.8	9745.9	10018.6	10127.8	10423.0	10586.6	10484.0
15°	8285.8	8295.4	8410.9	8645.2	8985.3	9364.0	9707.4	9819.7	10182.3	10429.4	10275.4
17.5°	7897.5	7900.7	8000.2	8253.7	8609.9	9030.3	9437.8	9575.8	10044.3	10342.8	10111.7
20°	7701.7	7692.1	7762.7	7984.1	8321.1	8741.4	9222.8	9392.9	9967.3	10329.9	9986.6
22.5°	7704.9	7682.5	7711.3	7868.6	8154.2	8548.9	9088.0	9280.6	9973.7	10384.5	9880.7
25°	7887.8	7855.7	7862.2	7945.6	8147.8	8507.2	9107.3	9312.7	10102.1	10567.4	9842.1
27.5°	8195.9	8160.6	8160.6	8202.3	8311.4	8638.8	9348.0	9582.2	10445.4	10923.6	9922.4
30°	8593.8	8558.5	8545.7	8587.4	8677.3	8978.9	9883.9	10127.8	11032.7	11507.6	10179.1
32.5°	9049.5	9007.8	9030.3	9088.0	9174.7	9591.8	10573.8	10897.9	11767.6	12293.9	10641.2
35°	9530.9	9495.6	9598.3	9723.4	9858.2	10442.2	11526.9	11809.3	12669.3	13272.6	11347.2
37.5°	9989.8	9973.7	10188.7	10451.9	10731.1	11462.7	12496.0	12714.2	13442.7	14338.0	12210.4
40°	10448.7	10445.4	10814.5	11276.6	11722.7	12480.0	13230.9	13410.6	13914.4	15166.0	13038.4
42.5°	10962.1	10962.1	11472.3	12088.5	12682.2	13340.0	13770.0	13850.2	14126.2	15644.1	13660.9
45°	11453.1	11482.0	12072.4	12788.1	13490.8	14010.7	14142.3	14148.7	14212.9	15926.5	14177.6
47.5°	11841.4	11867.1	12573.0	13397.8	14155.1	14520.9	14540.2	14511.3	14440.7	16196.1	14575.5
50°	12155.9	12194.4	12932.5	13805.3	14610.8	15011.9	15159.5	15130.7	14951.0	16484.9	14854.7
52.5°	12309.9	12364.5	13057.6	14007.5	15117.8	15852.7	16263.5	16330.8	15714.7	16645.3	15121.0
55°	11077.6	11157.9	11796.5	13096.1	15400.2	17152.4	17797.4	17784.5	16542.6	17123.5	15769.3
57.5°	8366.0	8359.6	8889.1	10310.7	13153.9	17226.2	18740.8	18715.2	17316.0	17678.6	16433.5
60°	5696.1	5657.6	5798.7	6485.5	9197.1	14033.2	17056.1	17402.7	16767.3	16330.8	13952.9
62.5°	4688.4	4653.1	4608.2	4418.9	5282.1	8741.4	11783.6	12309.9	12226.5	11350.4	8751.1
65°	3838.0	3866.9	3992.1	3911.8	3674.4	4483.0	6116.4	6427.7	5875.8	4945.1	3058.2
67.5°	2830.4	2843.2	3006.9	3430.5	3302.1	2984.4	2878.5	2929.9	1716.8	789.4	510.2
70°	1671.9	1681.5	1832.4	2400.4	2679.6	2291.3	1944.7	1915.8	680.3	211.8	231.1
72.5°	946.7	927.4	956.3	1142.4	1460.1	1216.2	1001.2	911.4	205.4	118.7	118.7
75°	449.3	436.4	375.5	353.0	320.9	205.4	128.4	109.1	51.3	48.1	48.1
77.5°	3.2	9.6	6.4	9.6	9.6	6.4	3.2	3.2	9.6	9.6	12.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11485.2	11485.2	11485.2	11485.2	11485.2	11485.2	11485.2	11485.2	11485.2	11485.2	11485.2
2.5°	11411.4	11315.1	11292.6	11286.2	11196.4	11100.1	11000.6	10962.1	10904.3	10869.0	10897.9
5°	11196.4	11058.4	10936.4	10824.1	10625.2	10406.9	10217.6	10095.7	9980.1	9903.1	9922.4
7.5°	10891.5	10711.8	10432.6	10147.0	9781.2	9453.9	9088.0	8863.4	8654.8	8539.3	8593.8
10°	10567.4	10329.9	9883.9	9399.3	8824.9	8311.4	7788.4	7361.6	7114.5	6880.2	6905.9
12.5°	10249.7	9935.2	9267.7	8532.9	7807.6	7050.3	6260.9	5670.4	5266.0	4974.0	4929.1
15°	9954.5	9550.1	8667.6	7698.5	6710.1	5702.5	4694.8	3850.9	3382.3	3093.5	3074.3
17.5°	9691.3	9190.7	8045.1	6825.6	5587.0	4296.9	3138.4	2506.3	2236.7	2111.6	2098.7
20°	9437.8	8828.1	7409.7	5939.9	4361.1	3016.5	2166.1	1874.1	1787.4	1736.1	1742.5
22.5°	9193.9	8433.4	6742.2	4958.0	3270.0	2118.0	1678.3	1566.0	1556.4	1562.8	1566.0
25°	8988.5	8070.8	6055.5	4011.3	2333.0	1614.2	1402.4	1370.3	1399.1	1440.9	1447.3
27.5°	8882.6	7775.5	5384.8	3058.2	1688.0	1312.5	1216.2	1229.1	1280.4	1325.3	1331.8
30°	8911.5	7554.1	4691.6	2217.5	1299.7	1107.1	1075.0	1100.7	1152.0	1193.8	1200.2
32.5°	9116.9	7441.8	3982.4	1614.2	1068.6	965.9	953.1	972.3	1017.3	1049.4	1052.6
35°	9524.5	7467.5	3308.5	1235.5	917.8	860.0	856.8	869.7	892.1	914.6	917.8
37.5°	10124.5	7676.0	2644.3	1026.9	831.1	789.4	776.6	776.6	792.6	802.3	808.7
40°	10769.6	7990.5	2118.0	908.2	770.2	725.2	699.6	689.9	702.8	715.6	718.8
42.5°	11302.3	8305.0	1720.0	824.7	722.0	661.1	629.0	622.6	638.6	661.1	667.5
45°	11709.8	8548.9	1434.4	757.3	667.5	600.1	564.8	564.8	593.7	632.2	638.6
47.5°	12082.1	8744.7	1222.6	696.4	616.1	545.5	510.2	516.7	564.8	616.1	625.8
50°	12335.6	8901.9	1065.4	641.8	574.4	500.6	468.5	481.4	539.1	600.1	609.7
52.5°	12608.3	9094.4	962.7	593.7	535.9	465.3	436.4	446.1	510.2	577.6	590.5
55°	13362.5	9739.5	959.5	529.5	468.5	417.2	404.3	407.5	471.7	548.7	564.8
57.5°	13978.6	10307.5	1023.7	446.1	391.5	365.8	359.4	362.6	420.4	507.0	526.3
60°	11565.4	8009.8	847.2	369.0	327.3	320.9	311.3	317.7	372.2	449.3	465.3
62.5°	6844.9	4579.3	404.3	282.4	279.2	272.8	263.1	276.0	327.3	394.7	404.3
65°	2339.4	1357.4	256.7	231.1	237.5	227.8	218.2	231.1	276.0	314.5	317.7
67.5°	449.3	359.4	205.4	192.5	195.8	176.5	173.3	186.1	211.8	218.2	215.0
70°	234.3	208.6	157.2	157.2	150.8	125.2	125.2	138.0	138.0	128.4	125.2
72.5°	121.9	115.5	102.7	115.5	96.3	77.0	77.0	83.4	77.0	64.2	64.2
75°	48.1	48.1	44.9	57.8	41.7	35.3	32.1	38.5	28.9	22.5	22.5
77.5°	12.8	12.8	12.8	16.0	9.6	9.6	6.4	6.4	3.2	0.0	0.0
80°	0.0	3.2	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)