

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: P643148

Luminaire Tested: GWS-SA6E-735-U-SL3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643148  
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-735-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) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

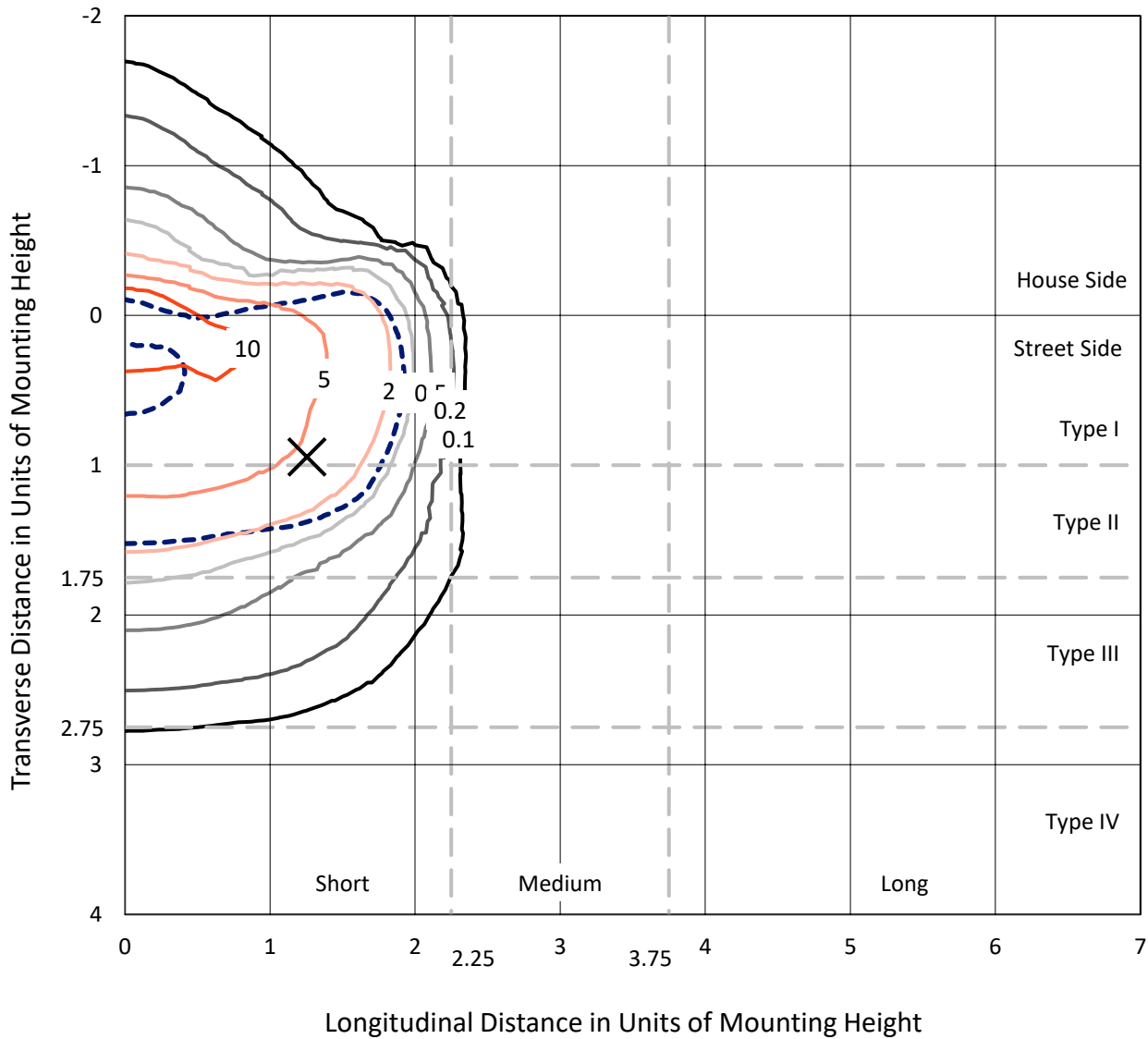
Lumens per Lamp: N/A  
Luminaire Lumens: 25823.7 lumens  
Efficiency: N/A  
Efficacy: 79.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

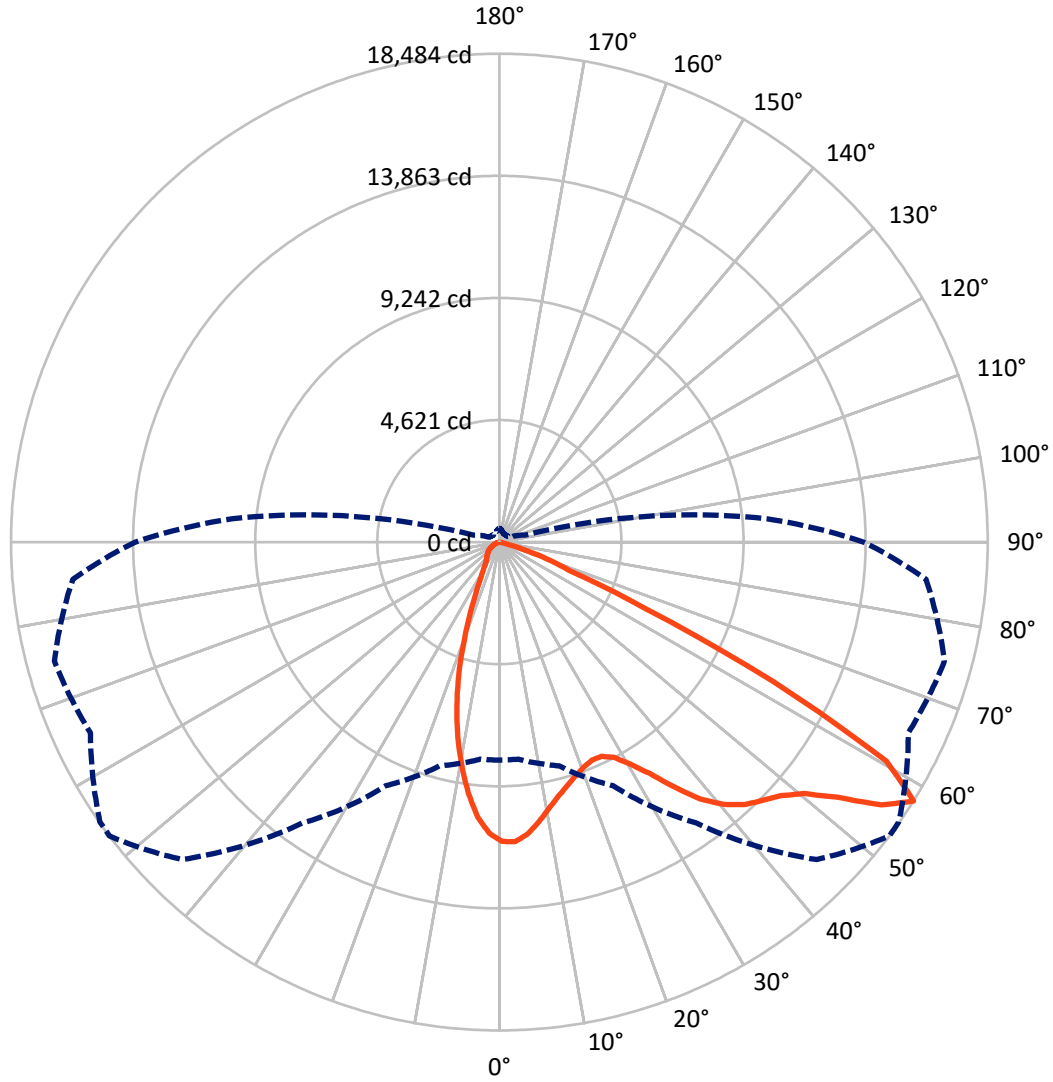
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.1 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	4265.7	0.0	4265.7
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	21558.0	0.0	21558.0
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	25823.7	0.0	25823.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	969.2	3.8
10°-20°	2127.7	8.2
20°-30°	2771.9	10.7
30°-40°	4020.6	15.6
40°-50°	5801.4	22.5
50°-60°	7016.3	27.2
60°-70°	2859.6	11.1
70°-80°	257.0	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°	25823.7	100.0
0°-180°	25823.7	100.0

**Coefficient of Utilization**



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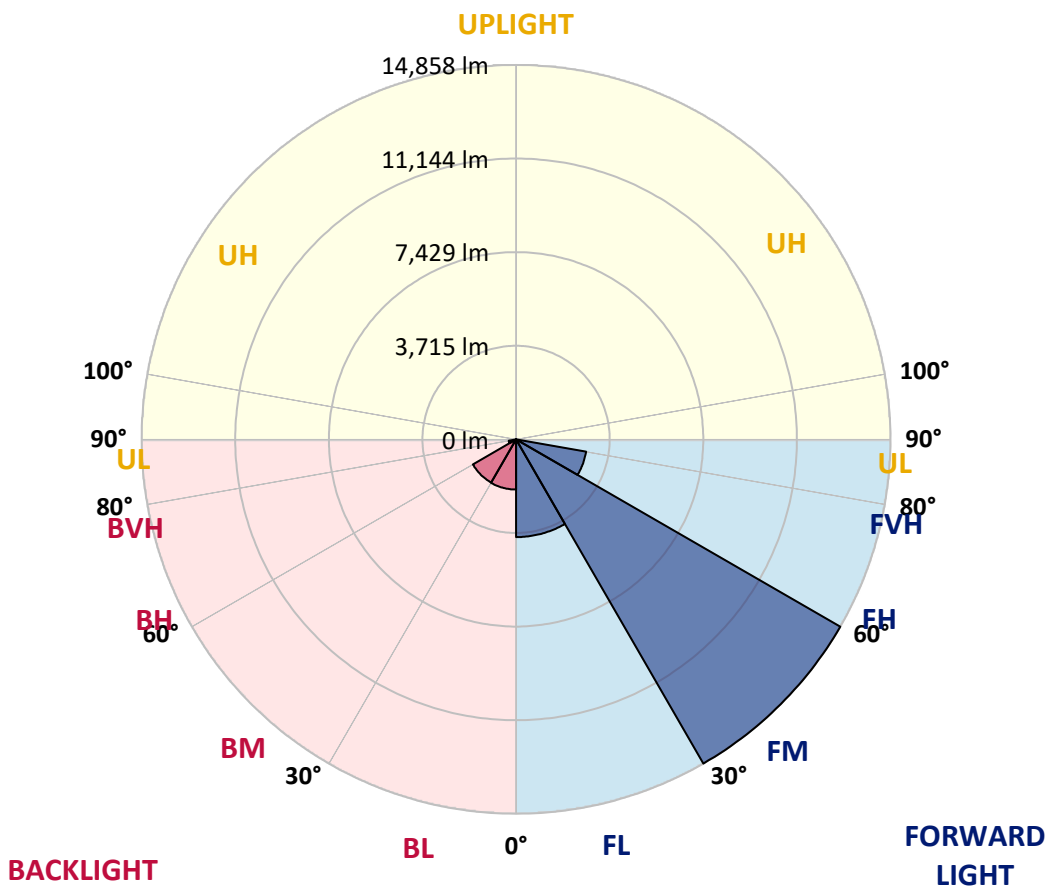
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3877.9	15.0			
FM (30°-60°)	14858.5	57.5			
FH (60°-80°)	2821.7	10.9			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1990.9	7.7	B3/2500		
BM (30°-60°)	1979.9	7.7	B2/2500		
BH (60°-80°)	294.9	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°	11327.7	11327.7	11327.7	11327.7	11327.7	11327.7	11327.7	11327.7	11327.7	11327.7	11327.7
2.5°	11169.5	11194.8	11239.1	11296.1	11334.1	11353.1	11353.1	11406.9	11372.1	11343.6	11311.9
5°	10691.6	10716.9	10777.0	10868.8	10960.6	11027.1	11103.0	11160.0	11182.2	11182.2	11128.3
7.5°	10017.4	10052.2	10090.2	10216.8	10416.2	10565.0	10694.7	10777.0	10897.3	10935.3	10859.3
10°	9292.6	9327.4	9412.9	9587.0	9814.8	10036.4	10258.0	10362.4	10568.1	10675.7	10590.3
12.5°	8678.6	8694.4	8808.4	9017.3	9308.4	9612.3	9881.3	9988.9	10280.1	10441.5	10340.2
15°	8172.2	8181.7	8295.6	8526.7	8862.2	9235.6	9574.3	9685.1	10042.7	10286.4	10134.5
17.5°	7789.2	7792.4	7890.5	8140.5	8491.9	8906.5	9308.4	9444.5	9906.6	10201.0	9973.1
20°	7596.1	7586.6	7656.3	7874.7	8207.0	8621.6	9096.4	9264.1	9830.7	10188.3	9849.7
22.5°	7599.3	7577.2	7605.6	7760.7	8042.4	8431.7	8963.4	9153.4	9837.0	10242.1	9745.2
25°	7779.7	7748.1	7754.4	7836.7	8036.1	8390.6	8982.4	9185.0	9963.6	10422.5	9707.2
27.5°	8083.6	8048.7	8048.7	8089.9	8197.5	8520.3	9219.8	9450.9	10302.3	10773.9	9786.4
30°	8476.0	8441.2	8428.6	8469.7	8558.3	8855.8	9748.4	9988.9	10881.5	11349.9	10039.6
32.5°	8925.5	8884.3	8906.5	8963.4	9048.9	9460.4	10428.9	10748.5	11606.3	12125.3	10495.3
35°	9400.2	9365.4	9466.7	9590.1	9723.1	10299.1	11368.9	11647.4	12495.7	13090.7	11191.6
37.5°	9852.8	9837.0	10049.1	10308.6	10584.0	11305.6	12324.7	12540.0	13258.4	14141.5	12043.1
40°	10305.4	10302.3	10666.2	11122.0	11562.0	12308.9	13049.5	13226.8	13723.7	14958.1	12859.6
42.5°	10811.8	10811.8	11315.1	11922.8	12508.3	13157.2	13581.3	13660.4	13932.6	15429.7	13473.7
45°	11296.1	11324.6	11907.0	12612.8	13305.9	13818.6	13948.4	13954.7	14018.0	15708.2	13983.2
47.5°	11679.1	11704.4	12400.7	13214.1	13961.1	14321.9	14340.9	14312.4	14242.8	15974.1	14375.7
50°	11989.2	12027.2	12755.2	13616.1	14410.5	14806.1	14951.7	14923.3	14746.0	16258.9	14651.1
52.5°	12141.2	12195.0	12878.6	13815.5	14910.6	15635.4	16040.5	16107.0	15499.3	16417.2	14913.8
55°	10925.8	11004.9	11634.8	12916.6	15189.1	16917.2	17553.4	17540.8	16315.9	16888.8	15553.1
57.5°	8251.3	8245.0	8767.2	10169.3	12973.6	16990.0	18483.9	18458.6	17078.7	17436.3	16208.3
60°	5618.0	5580.0	5719.3	6396.6	9071.1	13840.8	16822.3	17164.1	16537.4	16107.0	13761.7
62.5°	4624.2	4589.3	4545.0	4358.3	5209.7	8621.6	11622.1	12141.2	12058.9	11194.8	8631.1
65°	3785.4	3813.9	3937.3	3858.2	3624.0	4421.6	6032.6	6339.6	5795.2	4877.4	3016.3
67.5°	2791.6	2804.2	2965.7	3383.4	3256.8	2943.5	2839.1	2889.7	1693.3	778.6	503.2
70°	1649.0	1658.5	1807.2	2367.5	2642.8	2259.9	1918.0	1889.5	671.0	208.9	227.9
72.5°	933.7	914.7	943.2	1126.8	1440.1	1199.6	987.5	898.9	202.6	117.1	117.1
75°	443.1	430.4	370.3	348.2	316.5	202.6	126.6	107.6	50.6	47.5	47.5
77.5°	3.2	9.5	6.3	9.5	9.5	6.3	3.2	3.2	9.5	9.5	12.7
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°	11327.7	11327.7	11327.7	11327.7	11327.7	11327.7	11327.7	11327.7	11327.7	11327.7	11327.7
2.5°	11255.0	11160.0	11137.8	11131.5	11042.9	10947.9	10849.8	10811.8	10754.9	10720.1	10748.5
5°	11042.9	10906.8	10786.5	10675.7	10479.5	10264.3	10077.5	9957.3	9843.3	9767.4	9786.4
7.5°	10742.2	10565.0	10289.6	10007.9	9647.1	9324.3	8963.4	8741.9	8536.2	8422.2	8476.0
10°	10422.5	10188.3	9748.4	9270.5	8703.9	8197.5	7681.6	7260.6	7016.9	6785.9	6811.2
12.5°	10109.2	9799.0	9140.7	8415.9	7700.6	6953.6	6175.0	5592.7	5193.9	4905.8	4861.5
15°	9818.0	9419.2	8548.8	7593.0	6618.1	5624.3	4630.5	3798.1	3336.0	3051.1	3032.1
17.5°	9558.5	9064.7	7934.8	6732.1	5510.4	4238.0	3095.4	2471.9	2206.0	2082.6	2069.9
20°	9308.4	8707.1	7308.1	5858.5	4301.3	2975.2	2136.4	1848.4	1762.9	1712.3	1718.6
22.5°	9067.9	8317.8	6649.8	4890.0	3225.2	2088.9	1655.3	1544.5	1535.1	1541.4	1544.5
25°	8865.3	7960.1	5972.5	3956.3	2301.0	1592.0	1383.1	1351.5	1380.0	1421.1	1427.4
27.5°	8760.9	7668.9	5311.0	3016.3	1664.8	1294.5	1199.6	1212.2	1262.9	1307.2	1313.5
30°	8789.4	7450.5	4627.3	2187.1	1281.8	1091.9	1060.3	1085.6	1136.3	1177.4	1183.7
32.5°	8991.9	7339.8	3927.8	1592.0	1054.0	952.7	940.0	959.0	1003.3	1035.0	1038.1
35°	9393.9	7365.1	3263.2	1218.5	905.2	848.2	845.1	857.7	879.9	902.0	905.2
37.5°	9985.8	7570.8	2608.0	1012.8	819.8	778.6	765.9	765.9	781.8	791.3	797.6
40°	10621.9	7881.0	2088.9	895.7	759.6	715.3	690.0	680.5	693.1	705.8	709.0
42.5°	11147.3	8191.2	1696.5	813.4	712.1	652.0	620.4	614.0	629.8	652.0	658.3
45°	11549.3	8431.7	1414.8	747.0	658.3	591.9	557.1	557.1	585.5	623.5	629.8
47.5°	11916.4	8624.8	1205.9	686.8	607.7	538.1	503.2	509.6	557.1	607.7	617.2
50°	12166.5	8779.9	1050.8	633.0	566.5	493.7	462.1	474.8	531.7	591.9	601.4
52.5°	12435.5	8969.8	949.5	585.5	528.6	458.9	430.4	439.9	503.2	569.7	582.4
55°	13179.3	9606.0	946.4	522.2	462.1	411.5	398.8	402.0	465.3	541.2	557.1
57.5°	13787.0	10166.2	1009.7	439.9	386.1	360.8	354.5	357.7	414.6	500.1	519.1
60°	11406.9	7900.0	835.6	364.0	322.8	316.5	307.0	313.3	367.1	443.1	458.9
62.5°	6751.1	4516.5	398.8	278.5	275.4	269.0	259.5	272.2	322.8	389.3	398.8
65°	2307.3	1338.8	253.2	227.9	234.2	224.7	215.2	227.9	272.2	310.2	313.3
67.5°	443.1	354.5	202.6	189.9	193.1	174.1	170.9	183.6	208.9	215.2	212.1
70°	231.0	205.7	155.1	155.1	148.8	123.4	123.4	136.1	136.1	126.6	123.4
72.5°	120.3	113.9	101.3	113.9	95.0	76.0	76.0	82.3	76.0	63.3	63.3
75°	47.5	47.5	44.3	57.0	41.1	34.8	31.7	38.0	28.5	22.2	22.2
77.5°	12.7	12.7	12.7	15.8	9.5	9.5	6.3	6.3	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)