

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: P642759

Luminaire Tested: GWS-SA6D-750-U-SL2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642759  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6D-750-U-SL2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

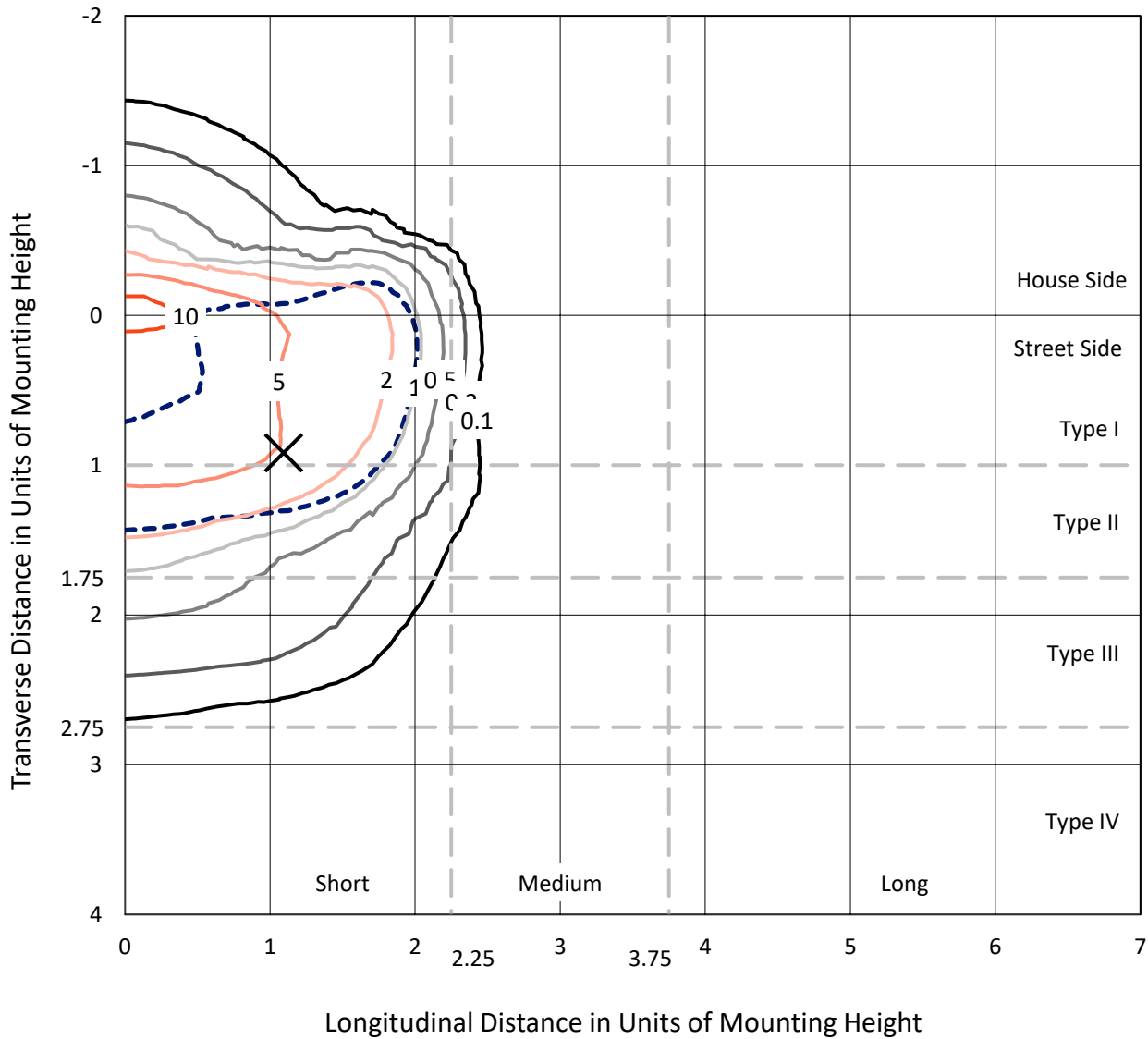
Lumens per Lamp: N/A  
Luminaire Lumens: 21516.1 lumens  
Efficiency: N/A  
Efficacy: 87.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

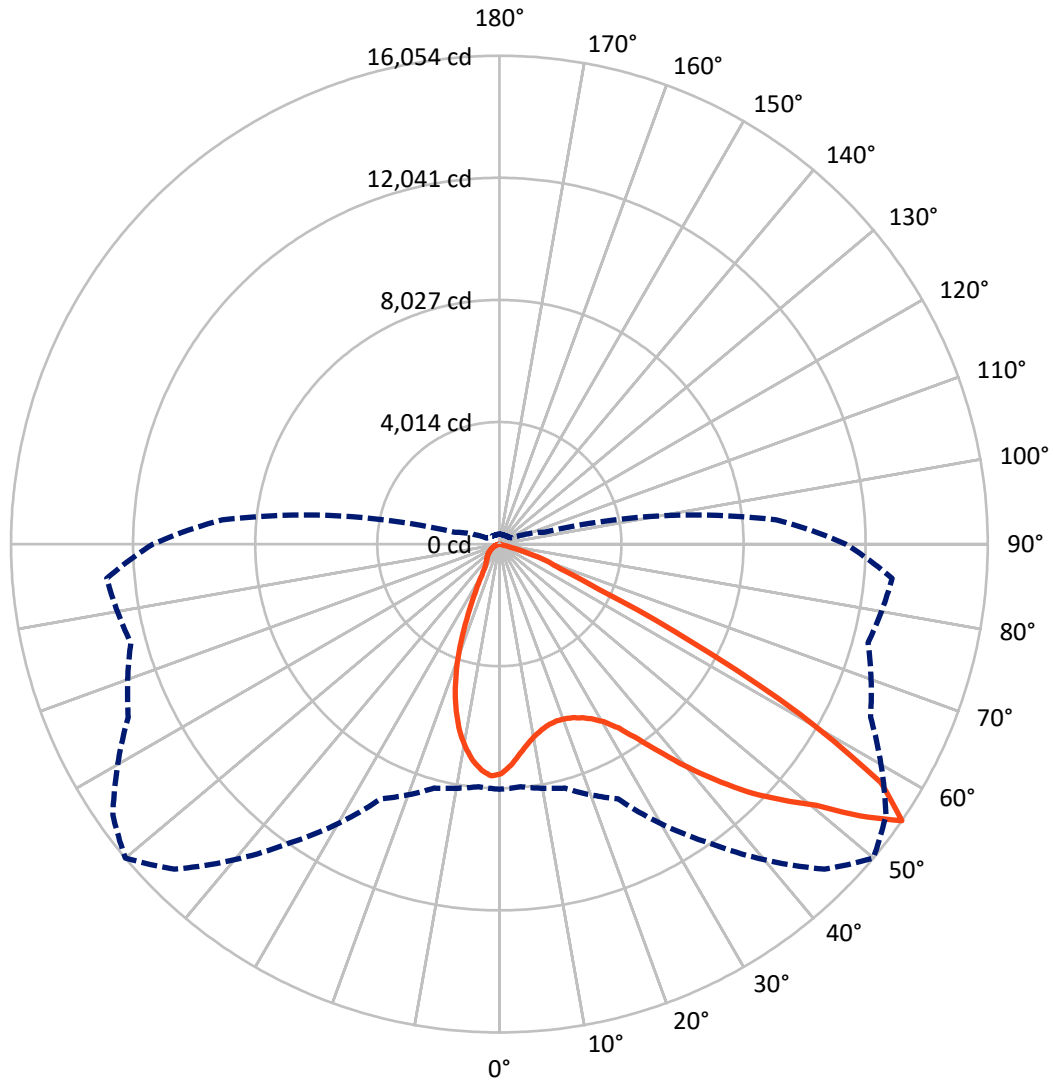
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4239.7	0.0	4239.7
	% Fixture	19.7	0.0	19.7
<b>Street Side</b>	Lumens	17276.4	0.0	17276.4
	% Fixture	80.3	0.0	80.3
<b>Total</b>	Lumens	21516.1	0.0	21516.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	663.0	3.1
10°-20°	1631.4	7.6
20°-30°	2301.2	10.7
30°-40°	3405.3	15.8
40°-50°	4912.8	22.8
50°-60°	5795.0	26.9
60°-70°	2585.0	12.0
70°-80°	222.2	1.0
80°-90°	0.1	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°	21516.1	100.0
0°-180°	21516.1	100.0

**Coefficient of Utilization**



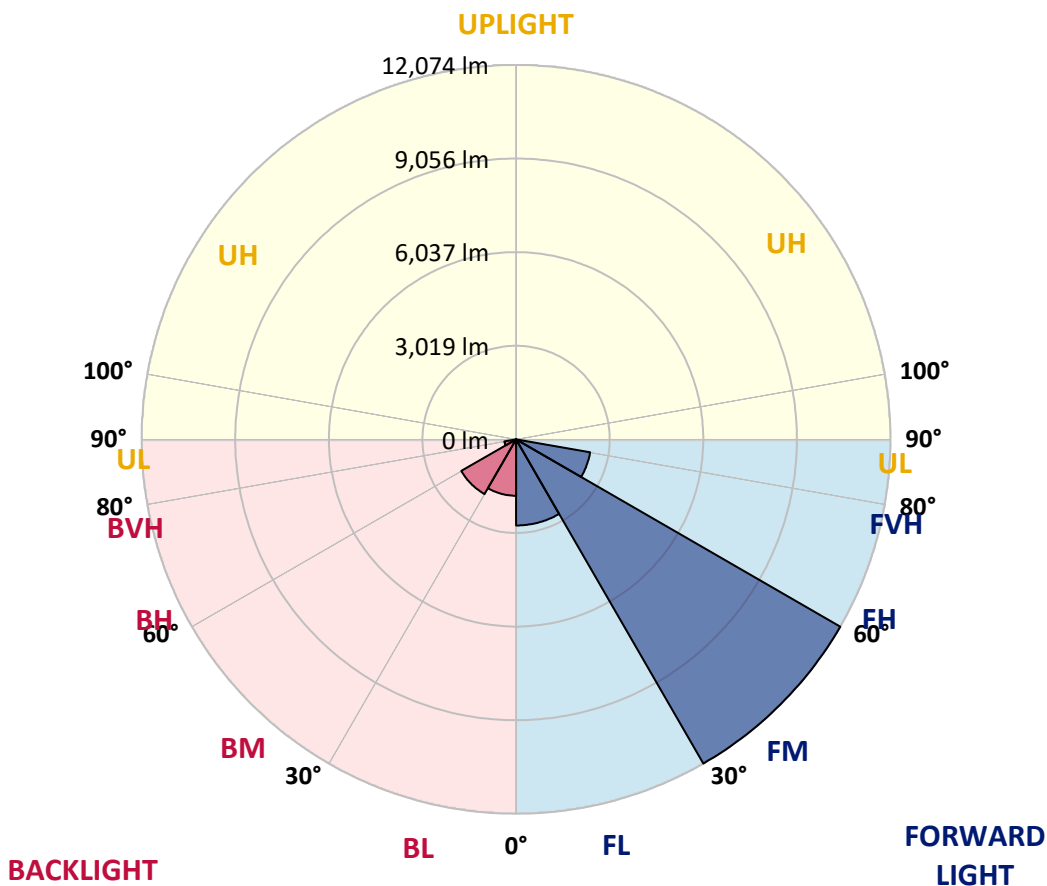
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2777.8	12.9			
FM (30°-60°)	12074.1	56.1			
FH (60°-80°)	2424.5	11.3			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1817.8	8.4	B3/2500		
BM (30°-60°)	2039.0	9.5	B2/2500		
BH (60°-80°)	382.8	1.8	B1/500		G1/500
BVH (80°-90°)	0.1	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°	50°	55°	65°	75°	85°
0°	7549.0	7549.0	7549.0	7549.0	7549.0	7549.0	7549.0	7549.0	7549.0	7549.0	7549.0
2.5°	7013.2	7018.5	7021.1	7092.0	7118.3	7223.3	7278.5	7307.4	7383.6	7472.9	7546.4
5°	6543.0	6535.2	6548.3	6637.6	6695.4	6850.4	6934.4	6992.2	7160.3	7370.4	7546.4
7.5°	6133.3	6149.0	6164.8	6262.0	6348.7	6516.8	6637.6	6724.3	6958.0	7270.6	7567.4
10°	5844.3	5844.3	5868.0	5978.3	6080.7	6288.2	6409.1	6519.4	6797.8	7181.3	7591.1
12.5°	5631.6	5634.2	5663.1	5789.2	5907.4	6122.8	6248.8	6356.5	6663.9	7092.0	7596.3
15°	5531.8	5523.9	5547.5	5681.5	5812.8	6015.1	6146.4	6251.5	6569.3	7042.1	7622.6
17.5°	5505.5	5500.2	5518.6	5650.0	5783.9	5980.9	6109.6	6214.7	6556.2	7057.9	7701.4
20°	5581.7	5571.2	5563.3	5676.2	5802.3	5996.7	6130.6	6248.8	6619.2	7144.5	7822.2
22.5°	5762.9	5762.9	5744.5	5799.7	5883.7	6059.7	6198.9	6353.9	6784.7	7317.9	8000.8
25°	6096.5	6070.2	6036.1	6059.7	6049.2	6159.5	6325.0	6540.4	7097.3	7604.2	8218.8
27.5°	6477.4	6501.0	6443.2	6445.8	6353.9	6314.5	6506.3	6832.0	7562.2	8008.7	8541.9
30°	6994.8	6976.4	6979.1	6971.2	6758.4	6571.9	6779.4	7212.8	8147.9	8626.0	8962.2
32.5°	7399.3	7425.6	7512.3	7562.2	7283.8	6984.3	7205.0	7730.3	8815.1	9329.9	9477.0
35°	7827.5	7874.8	8050.7	8213.6	7979.8	7635.7	7872.1	8415.8	9442.9	10026.0	10068.0
37.5°	8279.3	8373.8	8584.0	8870.3	8833.5	8528.8	8744.2	9222.2	9936.7	10446.3	10556.6
40°	8796.7	8888.6	9232.7	9645.1	9731.8	9663.5	9734.4	10012.9	10262.4	10464.6	10766.7
42.5°	9364.1	9490.2	9926.2	10477.8	10803.5	10863.9	10698.4	10669.5	10404.2	10254.5	10722.1
45°	10033.9	10181.0	10674.8	11389.2	11906.7	11988.1	11701.8	11331.4	10493.5	10099.5	10588.1
47.5°	10785.1	10924.3	11415.5	12274.4	13044.0	13075.6	12576.5	11980.2	10758.8	10278.2	10690.5
50°	11037.3	11123.9	11549.5	12558.1	13976.5	14218.2	13495.8	12710.4	11292.0	10803.5	11189.6
52.5°	10170.5	10204.6	10575.0	11594.1	13787.4	15339.7	14838.0	13800.5	12240.3	11604.6	11959.2
55°	8058.6	8003.5	8302.9	9238.0	11982.9	15111.2	16054.2	15513.1	13461.7	12545.0	12960.0
57.5°	5636.8	5571.2	5502.9	6135.9	8941.2	12810.3	14793.4	15752.1	14625.3	13477.4	14039.5
60°	4633.4	4570.4	4239.4	3947.9	5405.7	9198.6	11363.0	13167.5	14530.7	13430.2	14005.4
62.5°	4003.0	3966.3	3832.3	3435.7	3180.9	5250.7	7115.6	8844.0	11150.2	10546.1	10577.6
65°	3144.1	3133.6	3225.5	3267.6	2813.2	2905.1	3630.1	4596.7	6028.2	5684.1	5389.9
67.5°	2148.6	2125.0	2298.3	2826.3	2705.5	2293.1	2125.0	2143.4	2608.3	1594.4	1266.1
70°	1365.9	1310.7	1313.3	1752.0	2201.1	1809.8	1639.0	1442.0	1297.6	236.4	267.9
72.5°	874.7	840.5	722.3	790.6	1019.1	882.6	890.4	767.0	512.2	126.1	147.1
75°	367.7	338.8	260.0	207.5	204.9	128.7	112.9	105.1	70.9	70.9	76.2
77.5°	2.6	0.0	0.0	2.6	5.3	2.6	2.6	5.3	10.5	15.8	18.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
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°	7549.0	7549.0	7549.0	7549.0	7549.0	7549.0	7549.0	7549.0	7549.0	7549.0	7549.0
2.5°	7591.1	7528.0	7599.0	7625.2	7622.6	7625.2	7549.0	7496.5	7493.9	7428.2	7396.7
5°	7620.0	7570.1	7622.6	7588.4	7507.0	7404.6	7268.0	7149.8	7097.3	7021.1	6984.3
7.5°	7675.1	7622.6	7614.7	7478.1	7275.9	7060.5	6818.8	6603.4	6487.9	6348.7	6356.5
10°	7714.5	7654.1	7551.7	7273.2	6937.0	6592.9	6233.1	5912.6	5710.4	5523.9	5492.4
12.5°	7730.3	7641.0	7402.0	6981.7	6508.9	6059.7	5531.8	5074.7	4759.5	4515.2	4481.1
15°	7759.2	7614.7	7210.2	6629.7	5980.9	5345.3	4672.8	4047.7	3630.1	3349.0	3372.6
17.5°	7803.8	7585.8	6994.8	6235.7	5413.6	4515.2	3606.4	2889.3	2505.8	2343.0	2345.6
20°	7866.9	7551.7	6758.4	5802.3	4733.3	3577.5	2521.6	1980.5	1872.8	1867.6	1859.7
22.5°	7950.9	7517.5	6506.3	5326.9	3926.9	2505.8	1678.4	1510.3	1555.0	1641.7	1657.4
25°	8050.7	7475.5	6225.2	4791.0	3046.9	1644.3	1258.2	1231.9	1339.6	1455.2	1481.4
27.5°	8205.7	7454.5	5904.7	4181.7	2138.1	1179.4	1029.7	1045.4	1142.6	1239.8	1263.4
30°	8468.4	7493.9	5555.4	3498.7	1373.7	940.3	893.1	916.7	969.2	1019.1	1040.2
32.5°	8825.6	7609.5	5216.6	2752.7	979.7	816.9	806.4	819.5	840.5	869.4	877.3
35°	9243.2	7809.1	4867.2	1970.0	809.0	746.0	735.5	735.5	746.0	751.2	753.9
37.5°	9587.3	8019.2	4538.9	1310.7	725.0	690.8	675.1	667.2	664.5	669.8	672.4
40°	9737.1	8105.9	4181.7	953.5	664.5	640.9	617.3	593.6	593.6	612.0	614.6
42.5°	9632.0	8008.7	3769.3	788.0	622.5	588.4	551.6	530.6	541.1	559.5	564.7
45°	9408.7	7769.7	3314.9	696.1	580.5	535.8	493.8	480.7	491.2	514.8	520.1
47.5°	9372.0	7612.1	2771.1	635.7	535.8	491.2	446.5	433.4	446.5	464.9	470.2
50°	9737.1	7748.7	2167.0	583.1	493.8	443.9	407.1	394.0	401.9	412.4	417.6
52.5°	10404.2	8255.6	1749.4	533.2	443.9	396.6	373.0	357.2	357.2	367.7	370.4
55°	11389.2	9140.8	1510.3	475.4	386.1	359.9	338.8	323.1	323.1	328.3	331.0
57.5°	12524.0	10212.5	1565.5	399.3	338.8	325.7	307.3	294.2	299.4	299.4	299.4
60°	12366.4	10133.7	1675.8	336.2	299.4	294.2	278.4	273.2	286.3	275.8	270.5
62.5°	9109.3	7000.1	877.3	275.8	257.4	252.2	241.7	252.2	270.5	241.7	231.1
65°	4423.3	3388.4	352.0	225.9	218.0	212.8	207.5	223.3	233.8	189.1	178.6
67.5°	1040.2	845.8	228.5	191.7	181.2	170.7	176.0	178.6	170.7	128.7	123.5
70°	270.5	265.3	178.6	160.2	144.5	134.0	134.0	131.3	112.9	81.4	76.2
72.5°	147.1	144.5	128.7	120.8	99.8	89.3	91.9	81.4	63.0	47.3	44.7
75°	73.5	78.8	73.5	68.3	55.2	49.9	49.9	44.7	31.5	18.4	18.4
77.5°	15.8	18.4	18.4	15.8	13.1	10.5	10.5	13.1	5.3	0.0	0.0
80°	2.6	2.6	2.6	2.6	2.6	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)