

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: P640728

Luminaire Tested: GWS-SA5E-740-U-SL3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640728  
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-SA5E-740-U-SL3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

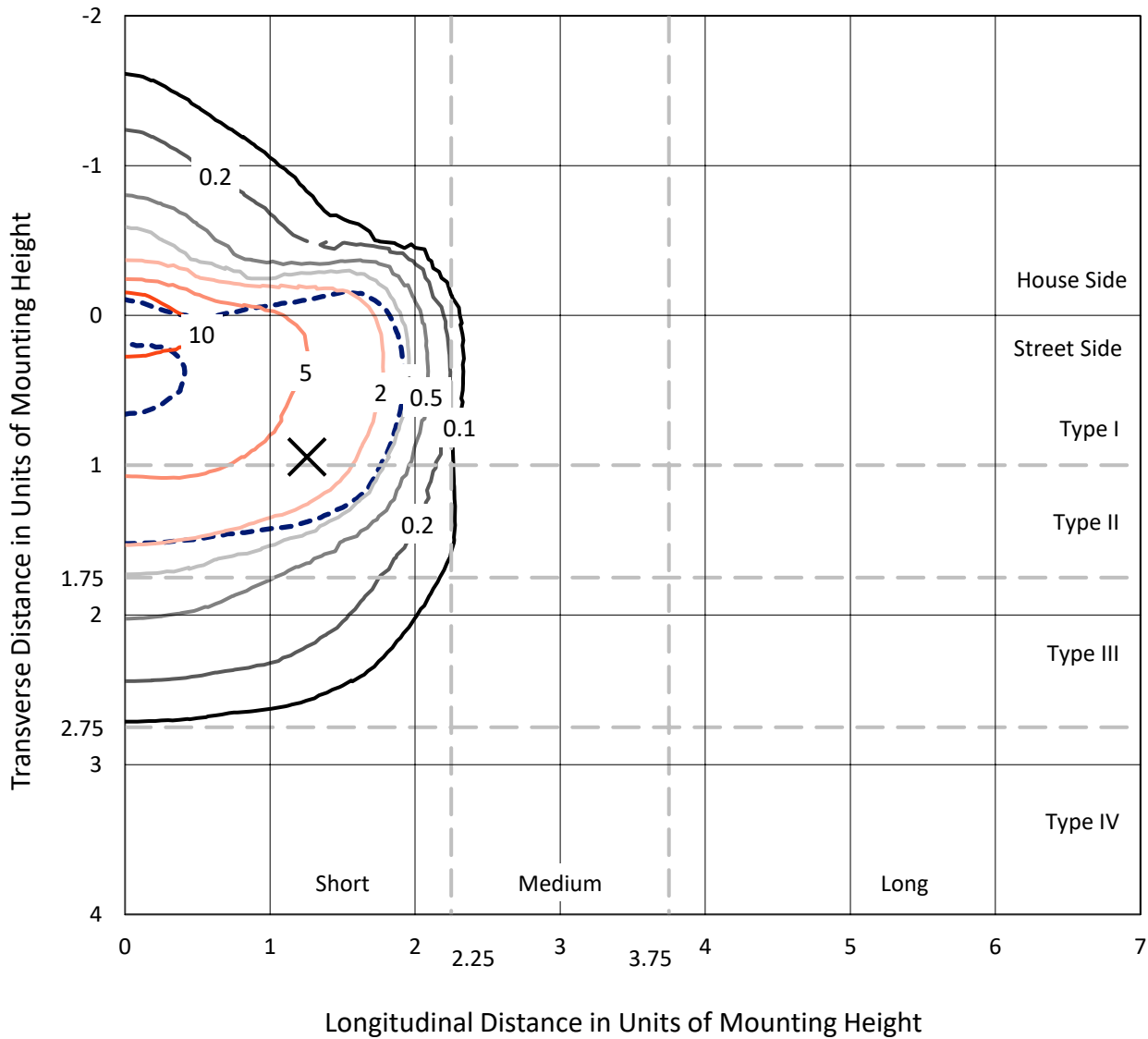
Lumens per Lamp: N/A  
Luminaire Lumens: 21957.3 lumens  
Efficiency: N/A  
Efficacy: 81.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

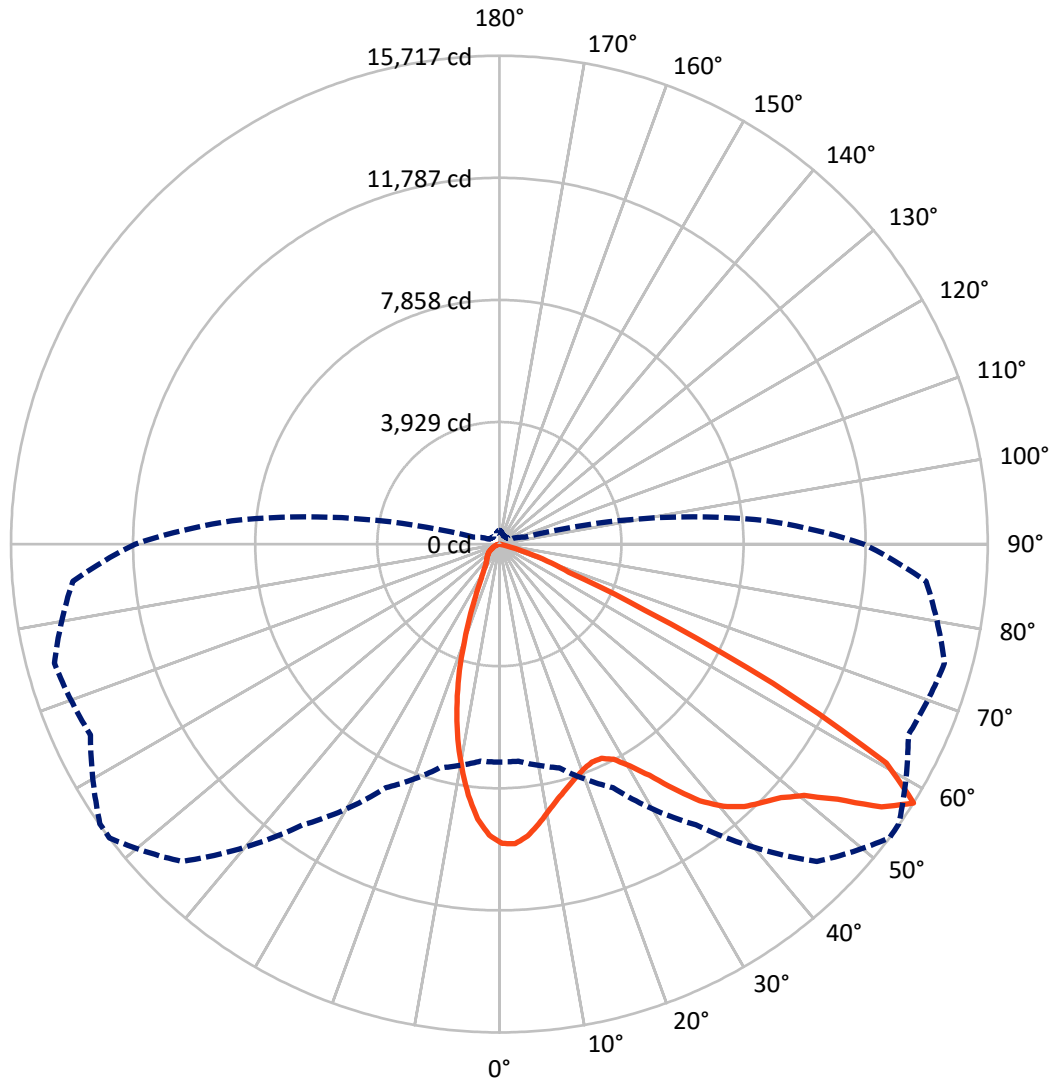
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 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	3627.1	0.0	3627.1
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	18330.2	0.0	18330.2
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	21957.3	0.0	21957.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	824.1	3.8
10°-20°	1809.1	8.2
20°-30°	2356.8	10.7
30°-40°	3418.6	15.6
40°-50°	4932.8	22.5
50°-60°	5965.8	27.2
60°-70°	2431.4	11.1
70°-80°	218.5	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°	21957.3	100.0
0°-180°	21957.3	100.0

**Coefficient of Utilization**



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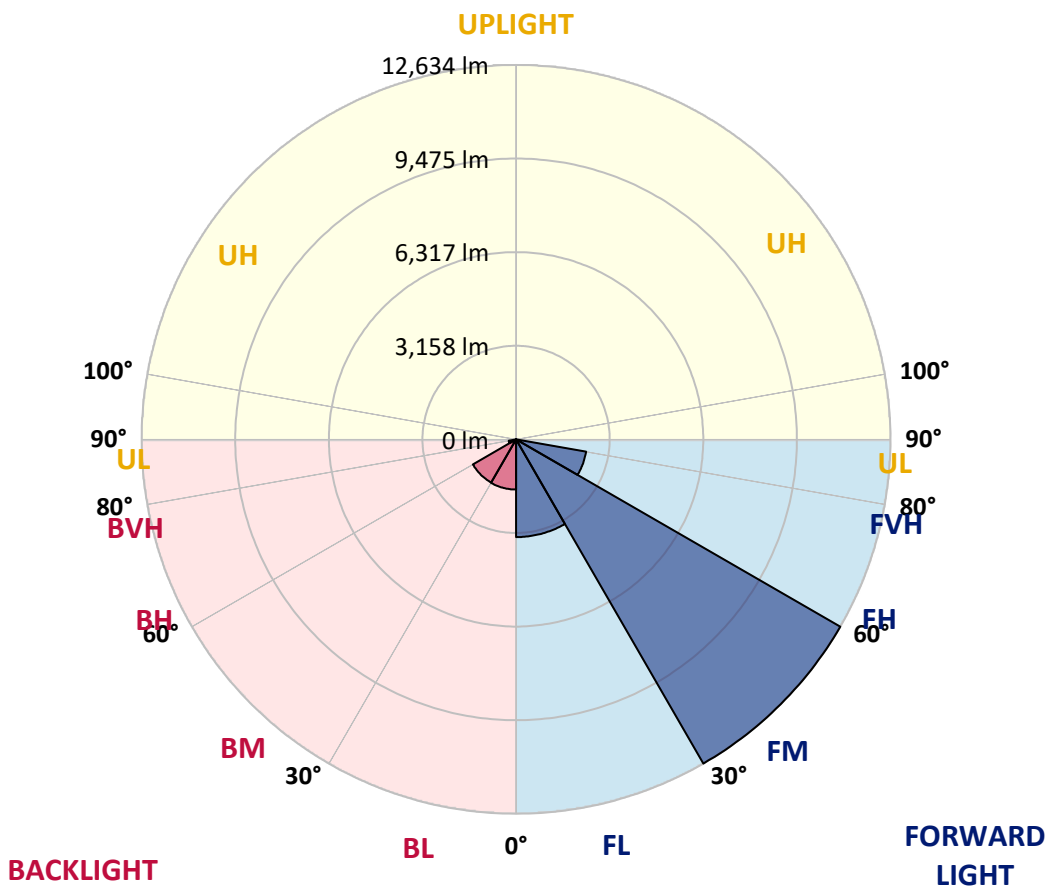
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3297.3	15.0			
FM (30°-60°)	12633.8	57.5			
FH (60°-80°)	2399.2	10.9			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1692.8	7.7	B3/2500		
BM (30°-60°)	1683.5	7.7	B2/2500		
BH (60°-80°)	250.7	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°	9631.7	9631.7	9631.7	9631.7	9631.7	9631.7	9631.7	9631.7	9631.7	9631.7	9631.7
2.5°	9497.2	9518.7	9556.4	9604.8	9637.1	9653.3	9653.3	9699.0	9669.4	9645.2	9618.3
5°	9090.8	9112.3	9163.5	9241.5	9319.5	9376.1	9440.6	9489.1	9507.9	9507.9	9462.2
7.5°	8517.6	8547.2	8579.5	8687.1	8856.7	8983.1	9093.5	9163.5	9265.7	9298.0	9233.4
10°	7901.3	7930.9	8003.6	8151.6	8345.3	8533.7	8722.1	8810.9	8985.8	9077.3	9004.7
12.5°	7379.2	7392.7	7489.5	7667.2	7914.8	8173.1	8401.9	8493.4	8740.9	8878.2	8792.1
15°	6948.6	6956.7	7053.6	7250.0	7535.3	7852.9	8140.8	8235.0	8539.1	8746.3	8617.1
17.5°	6623.0	6625.7	6709.1	6921.7	7220.4	7573.0	7914.8	8030.5	8423.4	8673.7	8479.9
20°	6458.8	6450.8	6510.0	6695.6	6978.2	7330.8	7734.4	7877.1	8358.8	8662.9	8374.9
22.5°	6461.5	6442.7	6466.9	6598.8	6838.3	7169.3	7621.4	7782.9	8364.2	8708.6	8286.1
25°	6614.9	6588.0	6593.4	6663.4	6832.9	7134.3	7637.6	7809.8	8471.8	8862.0	8253.8
27.5°	6873.3	6843.7	6843.7	6878.6	6970.1	7244.6	7839.4	8035.9	8759.8	9160.8	8321.1
30°	7207.0	7177.4	7166.6	7201.6	7276.9	7529.9	8288.8	8493.4	9252.3	9650.6	8536.4
32.5°	7589.1	7554.1	7573.0	7621.4	7694.1	8043.9	8867.4	9139.2	9868.5	10309.9	8923.9
35°	7992.8	7963.2	8049.3	8154.3	8267.3	8757.1	9666.7	9903.5	10624.8	11130.7	9516.0
37.5°	8377.6	8364.2	8544.5	8765.2	8999.3	9612.9	10479.4	10662.4	11273.3	12024.2	10239.9
40°	8762.5	8759.8	9069.3	9456.8	9830.9	10466.0	11095.7	11246.4	11668.9	12718.5	10934.3
42.5°	9193.1	9193.1	9621.0	10137.7	10635.5	11187.2	11547.8	11615.1	11846.6	13119.5	11456.3
45°	9604.8	9629.0	10124.2	10724.3	11313.7	11749.7	11860.0	11865.4	11919.2	13356.3	11889.6
47.5°	9930.4	9952.0	10544.0	11235.7	11870.8	12177.6	12193.7	12169.5	12110.3	13582.4	12223.3
50°	10194.2	10226.5	10845.4	11577.4	12252.9	12589.3	12713.1	12688.9	12538.2	13824.6	12457.5
52.5°	10323.4	10369.1	10950.4	11747.0	12678.1	13294.4	13638.9	13695.4	13178.7	13959.1	12680.8
55°	9289.9	9357.2	9892.8	10982.7	12915.0	14384.3	14925.3	14914.5	13873.0	14360.1	13224.4
57.5°	7015.9	7010.5	7454.6	8646.8	11031.1	14446.2	15716.5	15694.9	14521.6	14825.7	13781.5
60°	4776.8	4744.5	4863.0	5438.9	7712.9	11768.5	14303.6	14594.3	14061.4	13695.4	11701.2
62.5°	3931.8	3902.2	3864.5	3705.8	4429.7	7330.8	9882.0	10323.4	10253.4	9518.7	7338.8
65°	3218.6	3242.9	3347.8	3280.5	3081.4	3759.6	5129.4	5390.4	4927.5	4147.1	2564.7
67.5°	2373.6	2384.4	2521.6	2876.9	2769.2	2502.8	2414.0	2457.0	1439.8	662.0	427.9
70°	1402.1	1410.2	1536.7	2013.0	2247.1	1921.5	1630.9	1606.6	570.5	177.6	193.8
72.5°	793.9	777.8	802.0	958.1	1224.5	1020.0	839.6	764.3	172.2	99.6	99.6
75°	376.8	366.0	314.9	296.0	269.1	172.2	107.6	91.5	43.1	40.4	40.4
77.5°	2.7	8.1	5.4	8.1	8.1	5.4	2.7	2.7	8.1	8.1	10.8
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°	9631.7	9631.7	9631.7	9631.7	9631.7	9631.7	9631.7	9631.7	9631.7	9631.7	9631.7
2.5°	9569.8	9489.1	9470.3	9464.9	9389.5	9308.8	9225.4	9193.1	9144.6	9115.0	9139.2
5°	9389.5	9273.8	9171.5	9077.3	8910.5	8727.5	8568.7	8466.4	8369.6	8305.0	8321.1
7.5°	9133.9	8983.1	8749.0	8509.5	8202.7	7928.2	7621.4	7433.0	7258.1	7161.2	7207.0
10°	8862.0	8662.9	8288.8	7882.5	7400.7	6970.1	6531.5	6173.6	5966.3	5769.9	5791.4
12.5°	8595.6	8331.9	7772.1	7155.8	6547.6	5912.5	5250.5	4755.3	4416.2	4171.3	4133.6
15°	8348.0	8008.9	7268.9	6456.1	5627.3	4782.2	3937.2	3229.4	2836.5	2594.3	2578.1
17.5°	8127.4	7707.5	6746.8	5724.1	4685.3	3603.5	2632.0	2101.8	1875.8	1770.8	1760.0
20°	7914.8	7403.4	6213.9	4981.4	3657.3	2529.7	1816.5	1571.6	1499.0	1455.9	1461.3
22.5°	7710.2	7072.4	5654.2	4157.9	2742.3	1776.2	1407.5	1313.3	1305.2	1310.6	1313.3
25°	7538.0	6768.3	5078.3	3364.0	1956.5	1353.7	1176.0	1149.1	1173.4	1208.3	1213.7
27.5°	7449.2	6520.7	4515.8	2564.7	1415.6	1100.7	1020.0	1030.7	1073.8	1111.5	1116.8
30°	7473.4	6335.0	3934.5	1859.6	1089.9	928.5	901.5	923.1	966.1	1001.1	1006.5
32.5°	7645.6	6240.8	3339.8	1353.7	896.2	810.0	799.3	815.4	853.1	880.0	882.7
35°	7987.4	6262.4	2774.6	1036.1	769.7	721.2	718.5	729.3	748.1	767.0	769.7
37.5°	8490.7	6437.3	2217.5	861.2	697.0	662.0	651.3	651.3	664.7	672.8	678.2
40°	9031.6	6701.0	1776.2	761.6	645.9	608.2	586.7	578.6	589.4	600.1	602.8
42.5°	9478.3	6964.8	1442.5	691.6	605.5	554.4	527.5	522.1	535.5	554.4	559.8
45°	9820.1	7169.3	1203.0	635.1	559.8	503.3	473.6	473.6	497.9	530.2	535.5
47.5°	10132.3	7333.5	1025.3	584.0	516.7	457.5	427.9	433.3	473.6	516.7	524.8
50°	10344.9	7465.3	893.5	538.2	481.7	419.8	392.9	403.7	452.1	503.3	511.3
52.5°	10573.6	7626.8	807.4	497.9	449.4	390.2	366.0	374.1	427.9	484.4	495.2
55°	11206.1	8167.7	804.7	444.0	392.9	349.9	339.1	341.8	395.6	460.2	473.6
57.5°	11722.8	8644.1	858.5	374.1	328.3	306.8	301.4	304.1	352.5	425.2	441.4
60°	9699.0	6717.2	710.5	309.5	274.5	269.1	261.0	266.4	312.2	376.8	390.2
62.5°	5740.3	3840.3	339.1	236.8	234.1	228.8	220.7	231.4	274.5	331.0	339.1
65°	1961.9	1138.4	215.3	193.8	199.1	191.1	183.0	193.8	231.4	263.7	266.4
67.5°	376.8	301.4	172.2	161.5	164.2	148.0	145.3	156.1	177.6	183.0	180.3
70°	196.5	174.9	131.9	131.9	126.5	105.0	105.0	115.7	115.7	107.6	105.0
72.5°	102.3	96.9	86.1	96.9	80.7	64.6	64.6	70.0	64.6	53.8	53.8
75°	40.4	40.4	37.7	48.4	35.0	29.6	26.9	32.3	24.2	18.8	18.8
77.5°	10.8	10.8	10.8	13.5	8.1	8.1	5.4	5.4	2.7	0.0	0.0
80°	0.0	2.7	0.0	2.7	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)