

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: P639672

Luminaire Tested: GWS-SA5C-735-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639672  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5C-735-U-AFL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

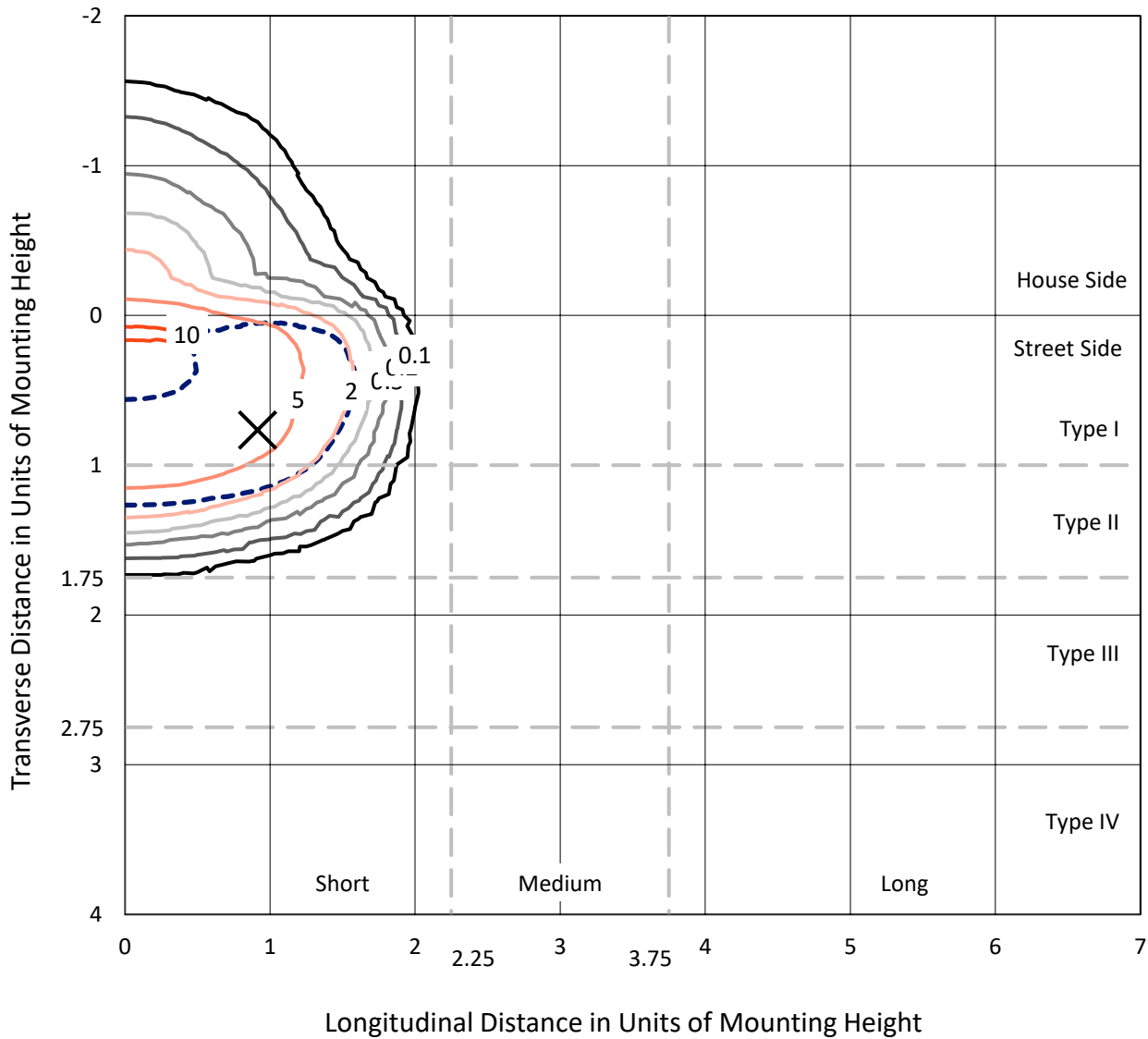
Lumens per Lamp: N/A  
Luminaire Lumens: 17688.5 lumens  
Efficiency: N/A  
Efficacy: 112.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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

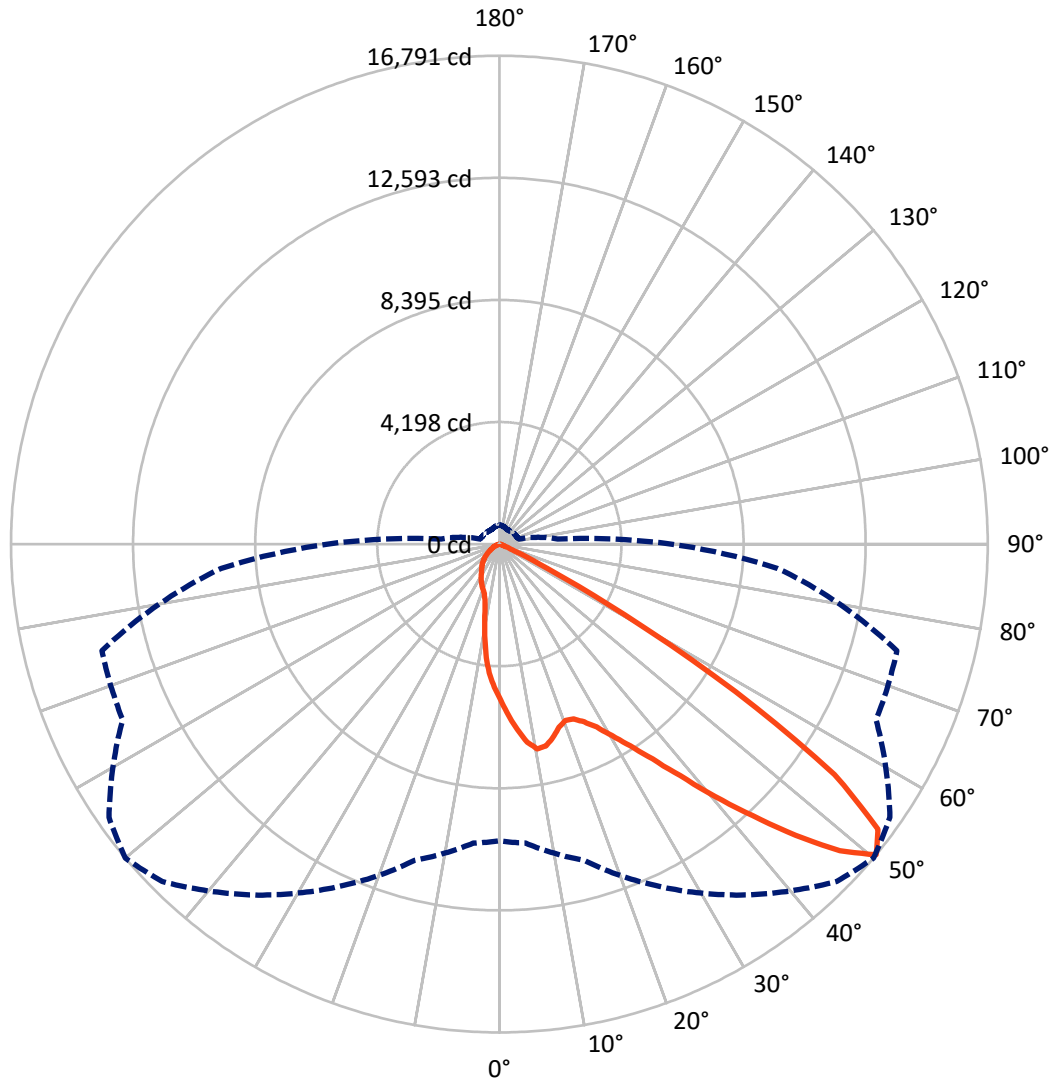
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2272.7	0.0	2272.7
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	15415.8	0.0	15415.8
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	17688.5	0.0	17688.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	497.1	2.8
10°-20°	1282.6	7.3
20°-30°	2116.8	12.0
30°-40°	3493.1	19.7
40°-50°	5526.9	31.2
50°-60°	4184.5	23.7
60°-70°	523.7	3.0
70°-80°	59.3	0.3
80°-90°	4.5	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°	17688.5	100.0
0°-180°	17688.5	100.0

**Coefficient of Utilization**



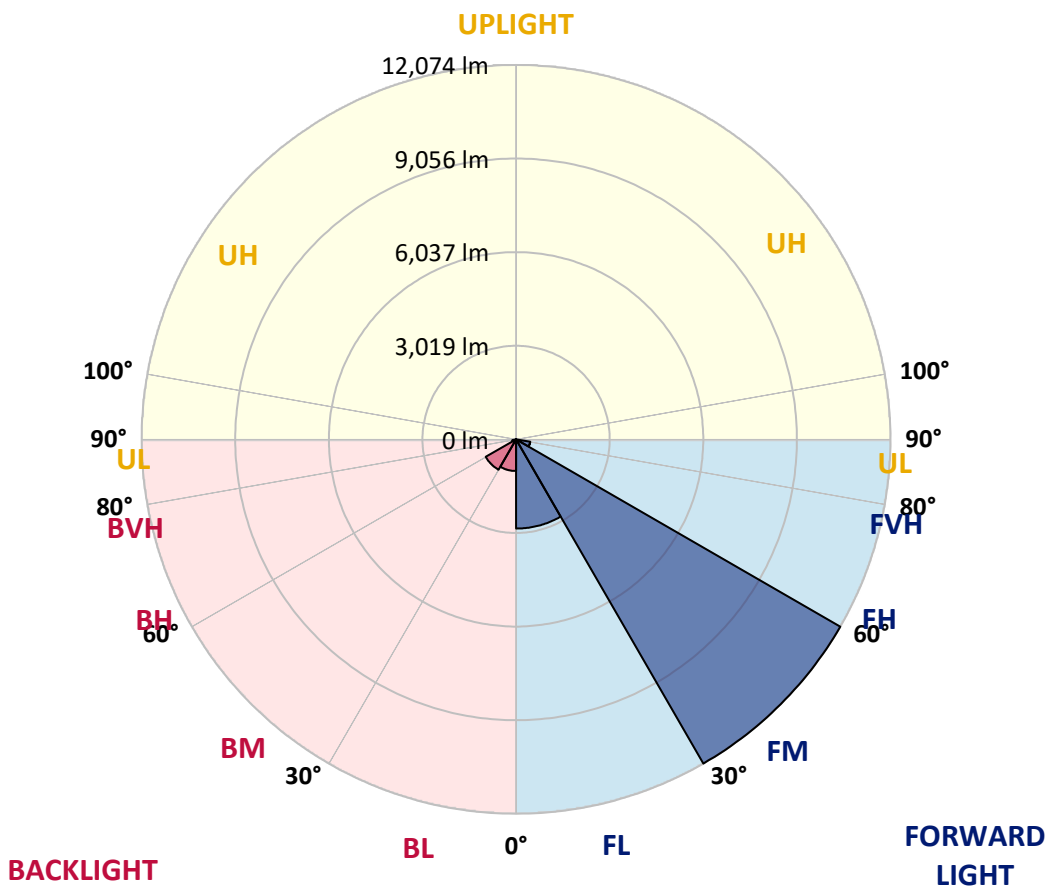
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2876.4	16.3			
FM (30°-60°)	12074.3	68.3			
FH (60°-80°)	463.0	2.6			G0/660
FVH (80°-90°)	2.1	0.0			G0/10
BL (0°-30°)	1020.1	5.8	B3/2500		
BM (30°-60°)	1130.3	6.4	B2/2500		
BH (60°-80°)	119.9	0.7	B1/500		G1/500
BVH (80°-90°)	2.4	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-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	5358.9	5358.9	5358.9	5358.9	5358.9	5358.9	5358.9	5358.9	5358.9	5358.9	5358.9
2.5°	6106.4	6155.3	6141.8	6077.8	6008.8	5960.0	5884.2	5860.6	5688.9	5569.4	5443.1
5°	6843.9	6859.0	6842.2	6764.7	6643.5	6527.3	6402.7	6330.4	6042.5	5783.2	5518.9
7.5°	7020.6	7002.1	7034.1	7072.8	7056.0	7005.5	6874.2	6795.0	6451.6	6029.0	5628.3
10°	6468.4	6426.3	6545.9	6746.2	6956.7	7194.0	7160.4	7167.1	6850.6	6338.8	5771.4
12.5°	5736.0	5719.2	5808.4	6040.8	6453.3	6992.0	7121.6	7338.8	7215.9	6673.8	5934.7
15°	5414.5	5422.9	5476.8	5623.2	5919.6	6589.6	6901.1	7293.4	7542.5	6998.7	6114.9
17.5°	5463.3	5493.6	5491.9	5540.7	5720.9	6258.0	6621.6	7150.3	7795.1	7372.5	6321.9
20°	5795.0	5825.3	5779.8	5742.8	5803.4	6173.8	6475.1	7005.5	7965.1	7749.6	6540.8
22.5°	6291.6	6327.0	6219.2	6113.2	6074.4	6311.8	6530.7	6946.6	8094.8	8094.8	6736.1
25°	6892.7	6941.5	6774.8	6586.3	6478.5	6603.1	6768.1	7079.6	8227.8	8404.6	6869.1
27.5°	7564.4	7566.1	7423.0	7210.9	7008.8	7024.0	7123.3	7379.2	8374.2	8737.9	6973.5
30°	8320.4	8325.4	8135.2	7881.0	7626.7	7557.7	7641.9	7835.5	8679.0	9157.1	7118.3
32.5°	9296.9	9320.4	9047.7	8673.9	8343.9	8214.3	8263.1	8466.8	9163.9	9682.4	7335.5
35°	10616.8	10642.1	10239.7	9746.4	9221.1	9025.8	9074.6	9280.0	9865.9	10428.2	7682.3
37.5°	11919.9	11953.6	11546.2	11086.5	10366.0	10042.7	10093.2	10288.5	10919.9	11458.6	8237.9
40°	12820.6	12866.1	12739.8	12430.1	11761.7	11337.4	11398.0	11468.7	12079.9	12691.0	8958.5
42.5°	13295.4	13359.4	13413.3	13571.5	13219.7	12864.4	12761.7	12766.8	13260.1	13947.0	9707.7
45°	13324.0	13386.3	13662.4	14273.6	14541.3	14467.2	14280.3	14154.1	14160.8	14783.7	10175.7
47.5°	12398.1	12514.2	13031.1	14228.1	15234.9	15849.5	15755.2	15455.5	14539.6	14839.3	10125.2
50°	10204.3	10318.8	11258.3	12980.6	14729.9	16401.7	16790.6	16388.2	14292.1	14147.3	9605.0
52.5°	7411.2	7423.0	8032.5	10044.4	12682.6	15383.1	16299.0	16260.2	13915.0	13308.9	8894.5
55°	3520.4	3478.3	4163.6	5668.7	8771.6	12441.8	13985.7	14423.4	13379.6	12702.8	8343.9
57.5°	1025.3	1045.5	1350.3	2212.3	4387.5	7951.7	9578.0	10392.9	10982.2	10443.4	6471.8
60°	459.6	461.3	513.5	673.4	1461.4	3698.9	4951.5	5960.0	6566.1	6084.5	3210.6
62.5°	333.4	335.0	355.2	380.5	496.7	1252.6	1857.0	2474.9	2520.4	1649.9	813.2
65°	277.8	277.8	281.2	281.2	298.0	447.8	564.0	727.3	612.8	454.6	318.2
67.5°	223.9	225.6	229.0	229.0	223.9	223.9	242.4	266.0	284.5	351.9	292.9
70°	175.1	173.4	173.4	175.1	170.0	144.8	156.6	178.5	195.3	274.4	254.2
72.5°	136.4	138.1	136.4	129.6	117.9	85.9	92.6	116.2	124.6	171.7	171.7
75°	102.7	104.4	97.6	74.1	48.8	26.9	35.4	57.2	72.4	84.2	62.3
77.5°	13.5	13.5	10.1	10.1	8.4	10.1	10.1	13.5	20.2	20.2	15.2
80°	1.7	1.7	1.7	3.4	5.1	6.7	6.7	6.7	6.7	8.4	8.4
82.5°	1.7	1.7	1.7	1.7	5.1	5.1	6.7	6.7	6.7	6.7	6.7
85°	0.0	0.0	0.0	1.7	3.4	5.1	5.1	6.7	6.7	6.7	6.7
87.5°	0.0	0.0	0.0	1.7	3.4	5.1	5.1	5.1	6.7	6.7	6.7
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°	5358.9	5358.9	5358.9	5358.9	5358.9	5358.9	5358.9	5358.9	5358.9	5358.9	5358.9
2.5°	5367.3	5269.7	5151.8	5071.0	4956.5	4880.8	4773.0	4700.6	4638.3	4589.5	4616.4
5°	5369.0	5214.1	4973.4	4768.0	4544.0	4338.6	4118.1	3944.7	3788.1	3717.4	3756.1
7.5°	5402.7	5180.5	4811.7	4446.4	4017.1	3592.8	3195.5	2872.2	2712.3	2636.5	2660.1
10°	5468.3	5165.3	4631.6	4025.5	3328.5	2749.3	2363.8	2144.9	2055.7	2008.5	2017.0
12.5°	5529.0	5155.2	4397.6	3471.6	2626.4	2133.1	1932.8	1902.5	1921.0	1922.7	1921.0
15°	5611.5	5136.7	4108.0	2902.5	2101.1	1843.5	1848.6	1892.4	1936.1	1949.6	1946.2
17.5°	5699.0	5108.1	3734.2	2357.0	1782.9	1759.4	1818.3	1877.2	1921.0	1927.7	1929.4
20°	5789.9	5049.1	3308.3	1924.4	1634.8	1695.4	1761.1	1804.8	1836.8	1846.9	1850.3
22.5°	5832.0	4924.5	2816.7	1614.6	1535.4	1616.3	1665.1	1722.3	1732.4	1695.4	1702.1
25°	5810.1	4714.1	2336.8	1405.8	1436.1	1516.9	1589.3	1560.7	1518.6	1491.7	1500.1
27.5°	5741.1	4434.6	1867.1	1252.6	1330.0	1432.7	1441.2	1409.2	1402.4	1380.6	1387.3
30°	5667.0	4113.0	1501.8	1129.7	1222.3	1330.0	1304.8	1316.6	1318.3	1293.0	1301.4
32.5°	5621.6	3776.3	1195.4	1047.2	1153.3	1173.5	1224.0	1247.6	1249.2	1190.3	1200.4
35°	5636.7	3444.7	1011.8	979.9	1089.3	1084.2	1155.0	1168.4	1070.8	990.0	998.4
37.5°	5759.6	3138.2	907.5	927.7	978.2	1016.9	1070.8	981.5	959.7	922.6	927.7
40°	5988.6	2877.3	845.2	895.7	902.4	964.7	882.2	894.0	895.7	872.1	877.2
42.5°	6256.3	2660.1	808.1	877.2	860.3	870.4	787.9	811.5	836.8	826.6	828.3
45°	6391.0	2448.0	776.1	813.2	818.2	722.3	703.7	729.0	761.0	766.0	767.7
47.5°	6271.4	2245.9	742.5	720.6	754.3	658.3	636.4	644.8	681.9	702.1	705.4
50°	5906.1	2013.6	692.0	638.1	619.6	590.9	570.7	572.4	614.5	649.9	656.6
52.5°	5392.6	1771.2	609.5	540.4	498.3	520.2	525.3	515.2	553.9	589.3	596.0
55°	4894.2	1468.1	483.2	439.4	400.7	447.8	461.3	447.8	459.6	483.2	484.9
57.5°	3446.3	830.0	370.4	363.7	331.7	383.9	405.7	385.5	365.3	380.5	383.9
60°	1597.7	434.4	284.5	284.5	276.1	330.0	367.0	338.4	299.7	306.4	311.5
62.5°	500.0	274.4	208.8	197.0	225.6	281.2	311.5	282.8	237.4	237.4	244.1
65°	282.8	235.7	165.0	151.5	183.5	225.6	244.1	213.8	173.4	170.0	170.0
67.5°	262.6	223.9	146.5	122.9	129.6	144.8	151.5	131.3	119.5	117.9	119.5
70°	217.2	186.9	117.9	84.2	79.1	77.4	80.8	75.8	72.4	74.1	79.1
72.5°	134.7	112.8	74.1	50.5	43.8	42.1	42.1	42.1	40.4	40.4	40.4
75°	48.8	42.1	33.7	25.3	21.9	20.2	20.2	21.9	20.2	18.5	16.8
77.5°	15.2	13.5	13.5	13.5	11.8	10.1	8.4	8.4	6.7	5.1	5.1
80°	8.4	8.4	8.4	8.4	6.7	6.7	5.1	3.4	1.7	1.7	0.0
82.5°	8.4	8.4	8.4	6.7	6.7	6.7	5.1	3.4	1.7	0.0	0.0
85°	6.7	6.7	6.7	6.7	6.7	6.7	5.1	3.4	1.7	0.0	0.0
87.5°	6.7	6.7	6.7	6.7	6.7	6.7	5.1	3.4	1.7	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)