

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: P642257

Luminaire Tested: GWS-SA6C-750-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642257  
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-SA6C-750-U-AFL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

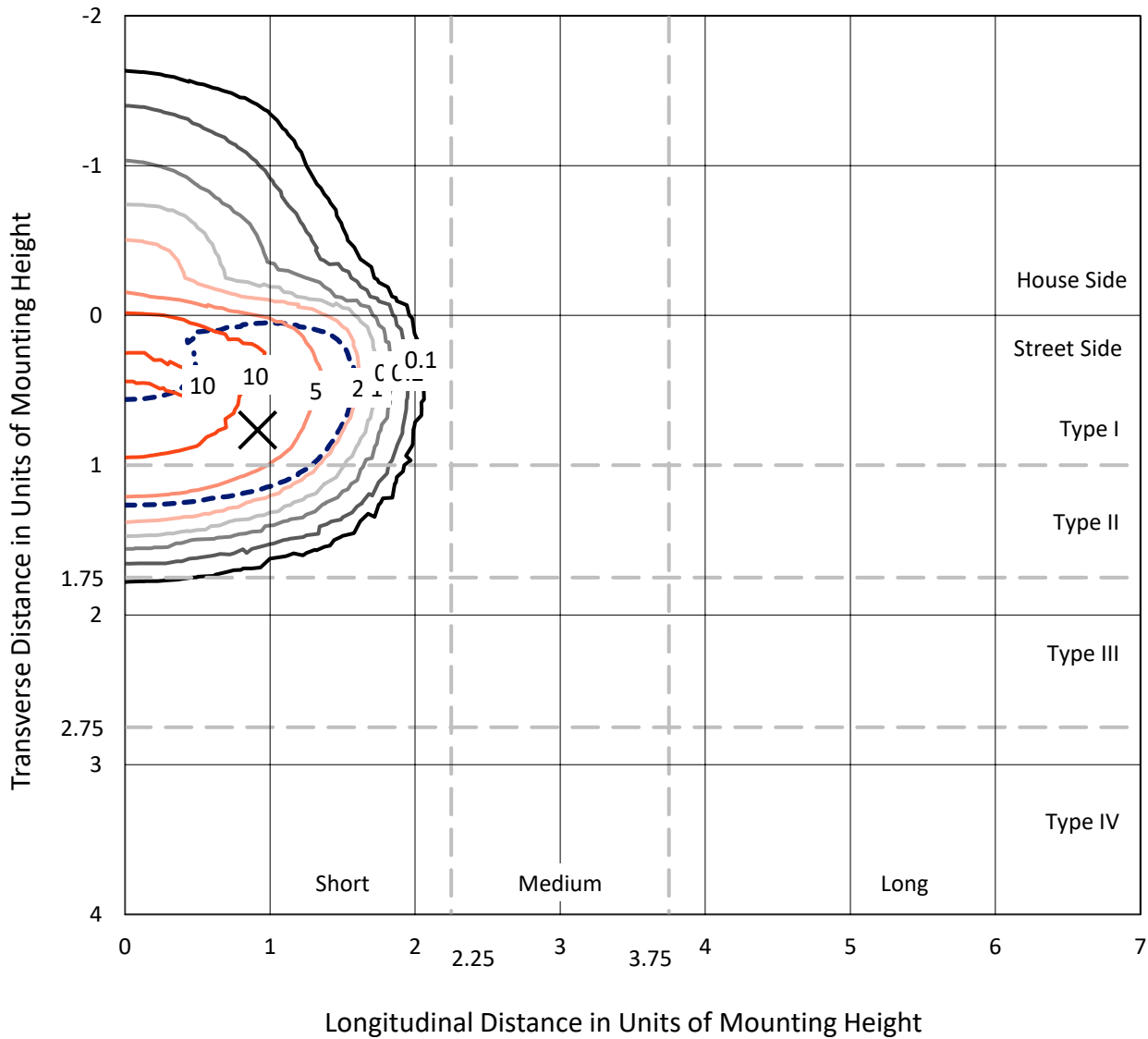
Lumens per Lamp: N/A  
Luminaire Lumens: 21875.4 lumens  
Efficiency: N/A  
Efficacy: 115.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 189.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

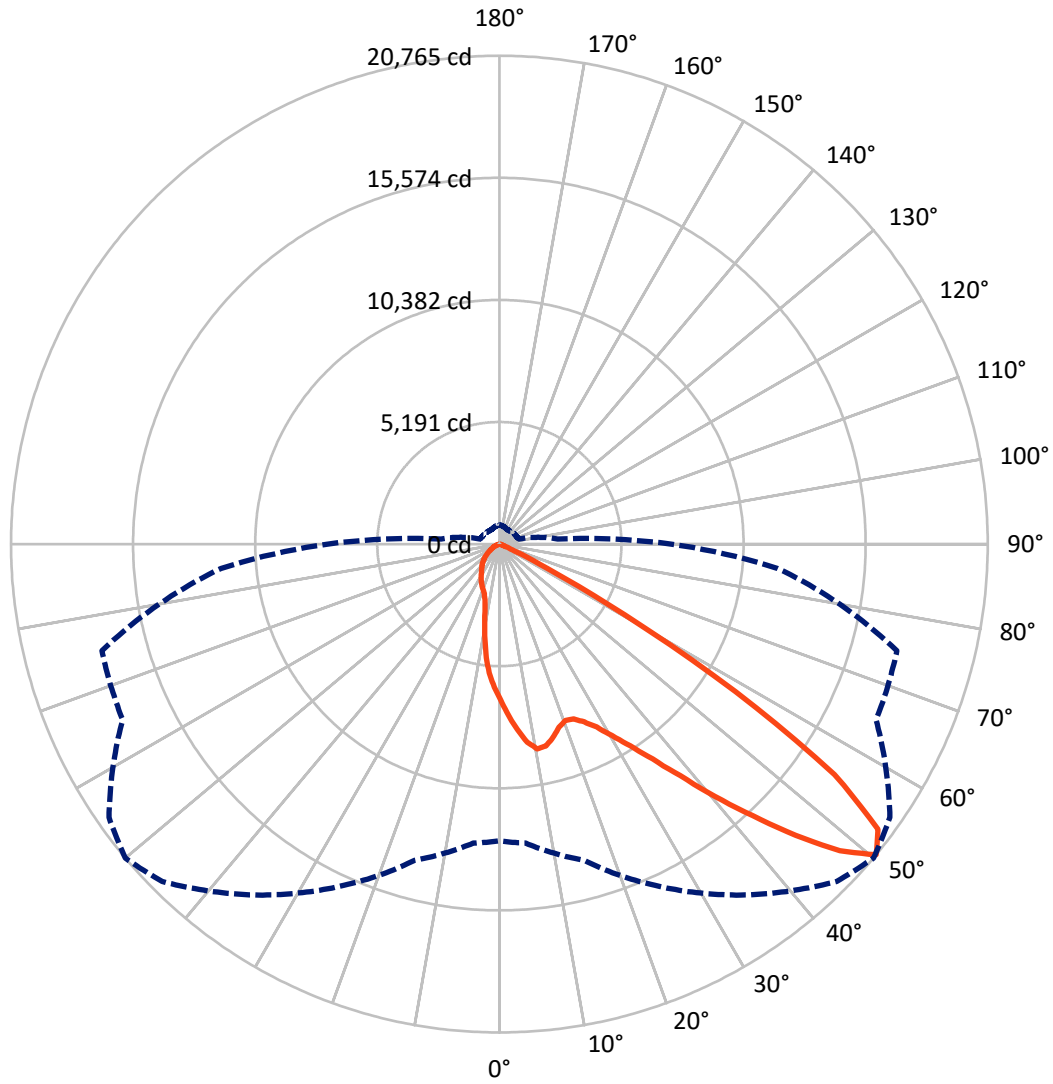
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 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	2810.6	0.0	2810.6
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	19064.8	0.0	19064.8
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	21875.4	0.0	21875.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	614.8	2.8
10°-20°	1586.2	7.3
20°-30°	2617.8	12.0
30°-40°	4319.9	19.7
40°-50°	6835.1	31.2
50°-60°	5175.0	23.7
60°-70°	647.7	3.0
70°-80°	73.3	0.3
80°-90°	5.6	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°	21875.4	100.0
0°-180°	21875.4	100.0

**Coefficient of Utilization**



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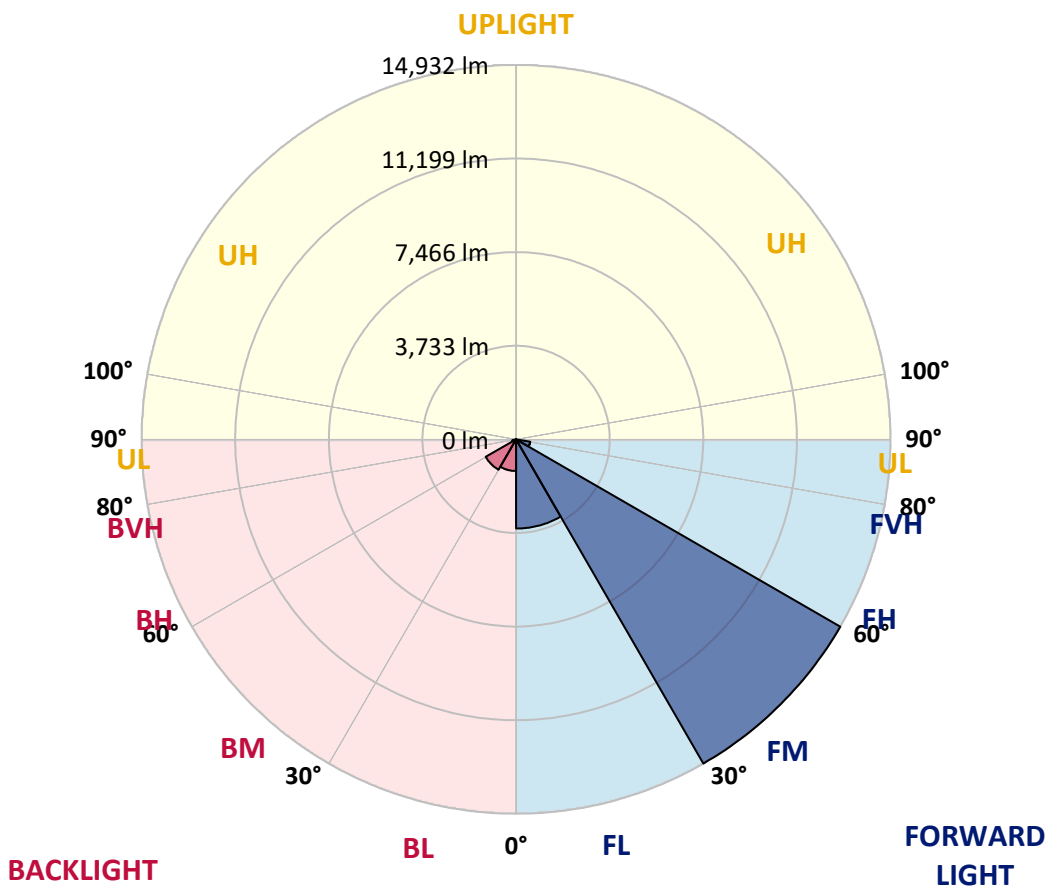
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3557.3	16.3			
FM (30°-60°)	14932.3	68.3			
FH (60°-80°)	572.6	2.6			G0/660
FVH (80°-90°)	2.6	0.0			G0/10
BL (0°-30°)	1261.5	5.8	B3/2500		
BM (30°-60°)	1397.8	6.4	B2/2500		
BH (60°-80°)	148.3	0.7	B1/500		G1/500
BVH (80°-90°)	3.0	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	6627.4	6627.4	6627.4	6627.4	6627.4	6627.4	6627.4	6627.4	6627.4	6627.4	6627.4
2.5°	7551.8	7612.2	7595.6	7516.4	7431.1	7370.7	7277.0	7247.8	7035.5	6887.6	6731.5
5°	8463.8	8482.5	8461.7	8365.9	8216.0	8072.4	7918.3	7828.8	7472.7	7152.1	6825.2
7.5°	8682.4	8659.5	8699.1	8747.0	8726.1	8663.7	8501.3	8403.4	7978.7	7456.1	6960.5
10°	7999.5	7947.4	8095.3	8343.0	8603.3	8896.9	8855.2	8863.6	8472.1	7839.2	7137.5
12.5°	7093.8	7072.9	7183.3	7470.6	7980.8	8647.0	8807.4	9075.9	8924.0	8253.5	7339.5
15°	6696.1	6706.5	6773.1	6954.3	7320.7	8149.4	8534.6	9019.7	9327.9	8655.4	7562.2
17.5°	6756.5	6793.9	6791.9	6852.2	7075.0	7739.2	8189.0	8842.7	9640.2	9117.6	7818.3
20°	7166.6	7204.1	7147.9	7102.1	7177.1	7635.1	8007.8	8663.7	9850.5	9584.0	8089.0
22.5°	7780.9	7824.6	7691.3	7560.2	7512.3	7805.9	8076.5	8590.8	10010.8	10010.8	8330.5
25°	8524.2	8584.6	8378.4	8145.2	8012.0	8166.1	8370.1	8755.3	10175.3	10393.9	8495.0
27.5°	9354.9	9357.0	9180.1	8917.7	8667.9	8686.6	8809.4	9125.9	10356.4	10806.2	8624.1
30°	10289.8	10296.1	10060.8	9746.4	9432.0	9346.6	9450.7	9690.2	10733.3	11324.6	8803.2
32.5°	11497.4	11526.6	11189.3	10727.1	10319.0	10158.6	10219.0	10471.0	11333.0	11974.3	9071.8
35°	13129.8	13161.1	12663.4	12053.4	11403.8	11162.2	11222.6	11476.6	12201.2	12896.6	9500.7
37.5°	14741.4	14783.0	14279.2	13710.7	12819.6	12419.8	12482.3	12723.8	13504.6	14170.9	10187.8
40°	15855.3	15911.5	15755.4	15372.3	14545.7	14021.0	14095.9	14183.4	14939.2	15695.0	11078.9
42.5°	16442.5	16521.6	16588.2	16783.9	16348.8	15909.5	15782.4	15788.7	16398.7	17248.3	12005.5
45°	16477.9	16554.9	16896.4	17652.2	17983.2	17891.6	17660.5	17504.4	17512.7	18283.1	12584.3
47.5°	15332.7	15476.4	16115.6	17596.0	18841.1	19601.0	19484.4	19113.8	17981.2	18351.8	12521.8
50°	12619.7	12761.3	13923.1	16053.1	18216.4	20284.0	20764.9	20267.3	17675.1	17496.0	11878.5
52.5°	9165.5	9180.1	9933.8	12421.9	15684.6	19024.3	20157.0	20109.1	17208.7	16459.1	10999.8
55°	4353.7	4301.7	5149.1	7010.5	10847.8	15386.8	17296.1	17837.5	16546.6	15709.6	10319.0
57.5°	1268.0	1293.0	1669.9	2735.9	5426.0	9833.8	11845.2	12852.9	13581.6	12915.4	8003.7
60°	568.4	570.5	635.0	832.8	1807.3	4574.4	6123.5	7370.7	8120.3	7524.8	3970.6
62.5°	412.3	414.3	439.3	470.6	614.2	1549.1	2296.6	3060.7	3116.9	2040.5	1005.7
65°	343.5	343.5	347.7	347.7	368.5	553.8	697.5	899.5	757.9	562.2	393.5
67.5°	276.9	279.0	283.2	283.2	276.9	276.9	299.8	329.0	351.9	435.2	362.3
70°	216.5	214.5	214.5	216.5	210.3	179.1	193.6	220.7	241.5	339.4	314.4
72.5°	168.7	170.7	168.7	160.3	145.7	106.2	114.5	143.7	154.1	212.4	212.4
75°	127.0	129.1	120.8	91.6	60.4	33.3	43.7	70.8	89.5	104.1	77.0
77.5°	16.7	16.7	12.5	12.5	10.4	12.5	12.5	16.7	25.0	25.0	18.7
80°	2.1	2.1	2.1	4.2	6.2	8.3	8.3	8.3	8.3	10.4	10.4
82.5°	2.1	2.1	2.1	2.1	6.2	6.2	8.3	8.3	8.3	8.3	8.3
85°	0.0	0.0	0.0	2.1	4.2	6.2	6.2	8.3	8.3	8.3	8.3
87.5°	0.0	0.0	0.0	2.1	4.2	6.2	6.2	6.2	8.3	8.3	8.3
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°	6627.4	6627.4	6627.4	6627.4	6627.4	6627.4	6627.4	6627.4	6627.4	6627.4	6627.4
2.5°	6637.8	6517.0	6371.3	6271.3	6129.8	6036.1	5902.8	5813.3	5736.2	5675.8	5709.2
5°	6639.9	6448.3	6150.6	5896.6	5619.6	5365.6	5092.9	4878.4	4684.8	4597.3	4645.2
7.5°	6681.5	6406.7	5950.7	5498.9	4967.9	4443.2	3951.9	3552.1	3354.3	3260.6	3289.7
10°	6762.7	6387.9	5727.9	4978.3	4116.3	3400.1	2923.3	2652.6	2542.3	2484.0	2494.4
12.5°	6837.7	6375.4	5438.5	4293.3	3248.1	2638.0	2390.3	2352.8	2375.7	2377.8	2375.7
15°	6939.7	6352.5	5080.4	3589.6	2598.5	2279.9	2286.2	2340.3	2394.4	2411.1	2406.9
17.5°	7048.0	6317.1	4618.1	2915.0	2205.0	2175.8	2248.7	2321.6	2375.7	2384.0	2386.1
20°	7160.4	6244.3	4091.4	2379.9	2021.7	2096.7	2177.9	2232.0	2271.6	2284.1	2288.2
22.5°	7212.5	6090.2	3483.4	1996.7	1898.9	1998.8	2059.2	2130.0	2142.5	2096.7	2105.0
25°	7185.4	5829.9	2890.0	1738.6	1776.0	1876.0	1965.5	1930.1	1878.1	1844.8	1855.2
27.5°	7100.0	5484.3	2309.1	1549.1	1644.9	1771.9	1782.3	1742.7	1734.4	1707.3	1715.7
30°	7008.4	5086.6	1857.2	1397.1	1511.6	1644.9	1613.6	1628.2	1630.3	1599.1	1609.5
32.5°	6952.2	4670.2	1478.3	1295.1	1426.2	1451.2	1513.7	1542.8	1544.9	1472.1	1484.5
35°	6970.9	4260.0	1251.4	1211.8	1347.1	1340.9	1428.3	1445.0	1324.2	1224.3	1234.7
37.5°	7122.9	3881.1	1122.3	1147.2	1209.7	1257.6	1324.2	1213.9	1186.8	1141.0	1147.2
40°	7406.1	3558.3	1045.2	1107.7	1116.0	1193.1	1091.0	1105.6	1107.7	1078.5	1084.8
42.5°	7737.1	3289.7	999.4	1084.8	1064.0	1076.5	974.4	1003.6	1034.8	1022.3	1024.4
45°	7903.7	3027.4	959.9	1005.7	1011.9	893.2	870.3	901.6	941.1	947.4	949.4
47.5°	7755.9	2777.5	918.2	891.1	932.8	814.1	787.0	797.5	843.3	868.2	872.4
50°	7304.1	2490.2	855.7	789.1	766.2	730.8	705.8	707.9	760.0	803.7	812.0
52.5°	6669.0	2190.4	753.7	668.4	616.3	643.4	649.6	637.1	685.0	728.7	737.1
55°	6052.7	1815.6	597.6	543.4	495.5	553.8	570.5	553.8	568.4	597.6	599.6
57.5°	4262.1	1026.5	458.1	449.7	410.2	474.7	501.8	476.8	451.8	470.6	474.7
60°	1975.9	537.2	351.9	351.9	341.5	408.1	453.9	418.5	370.6	378.9	385.2
62.5°	618.4	339.4	258.2	243.6	279.0	347.7	385.2	349.8	293.6	293.6	301.9
65°	349.8	291.5	204.0	187.4	227.0	279.0	301.9	264.4	214.5	210.3	210.3
67.5°	324.8	276.9	181.1	152.0	160.3	179.1	187.4	162.4	147.8	145.7	147.8
70°	268.6	231.1	145.7	104.1	97.9	95.8	99.9	93.7	89.5	91.6	97.9
72.5°	166.6	139.5	91.6	62.5	54.1	52.1	52.1	52.1	50.0	50.0	50.0
75°	60.4	52.1	41.6	31.2	27.1	25.0	25.0	27.1	25.0	22.9	20.8
77.5°	18.7	16.7	16.7	16.7	14.6	12.5	10.4	10.4	8.3	6.2	6.2
80°	10.4	10.4	10.4	10.4	8.3	8.3	6.2	4.2	2.1	2.1	0.0
82.5°	10.4	10.4	10.4	8.3	8.3	8.3	6.2	4.2	2.1	0.0	0.0
85°	8.3	8.3	8.3	8.3	8.3	8.3	6.2	4.2	2.1	0.0	0.0
87.5°	8.3	8.3	8.3	8.3	8.3	8.3	6.2	4.2	2.1	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)