

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: P641985

Luminaire Tested: GWS-SA6C-722-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641985
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6C-722-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21298.5 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

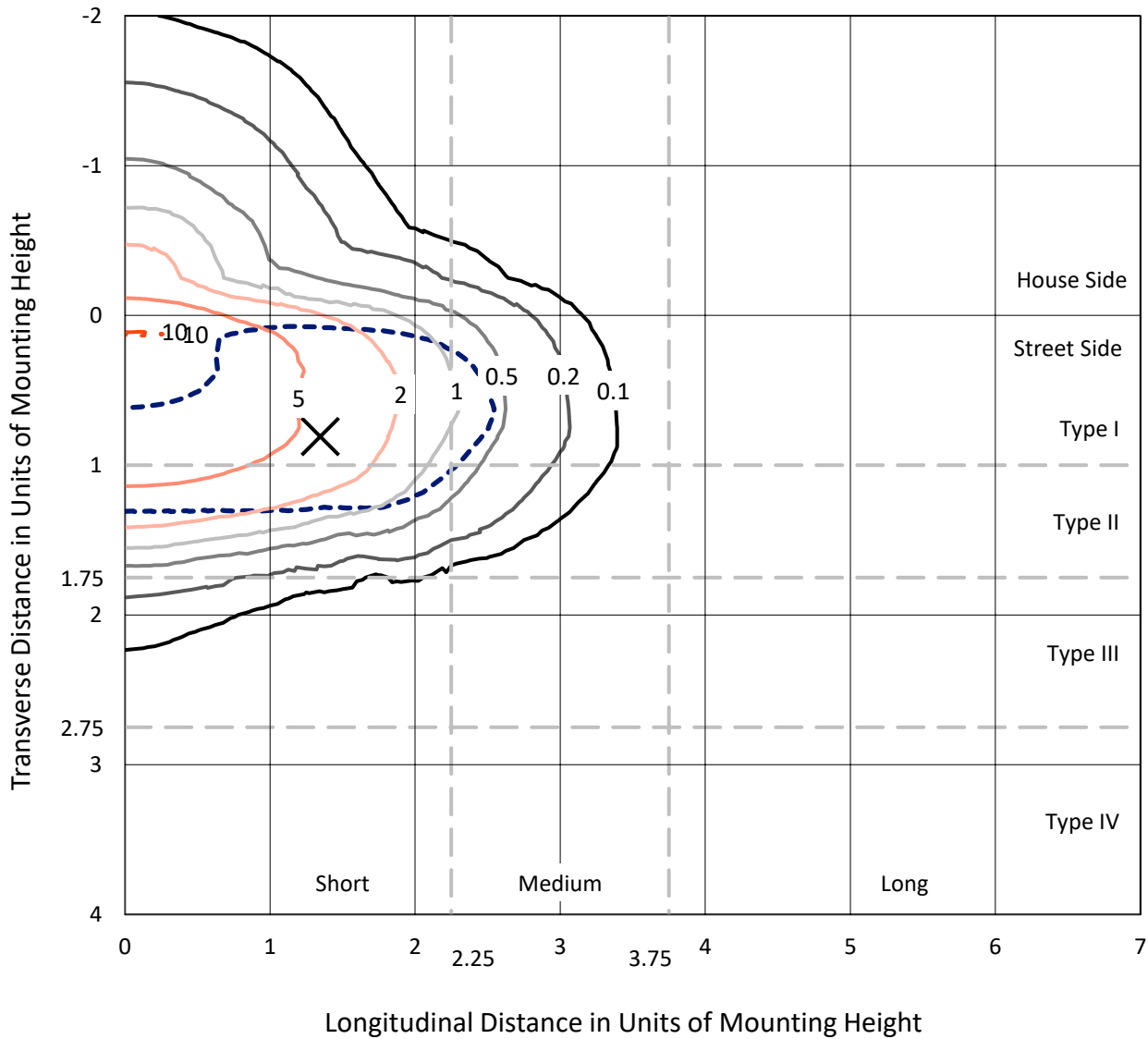
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

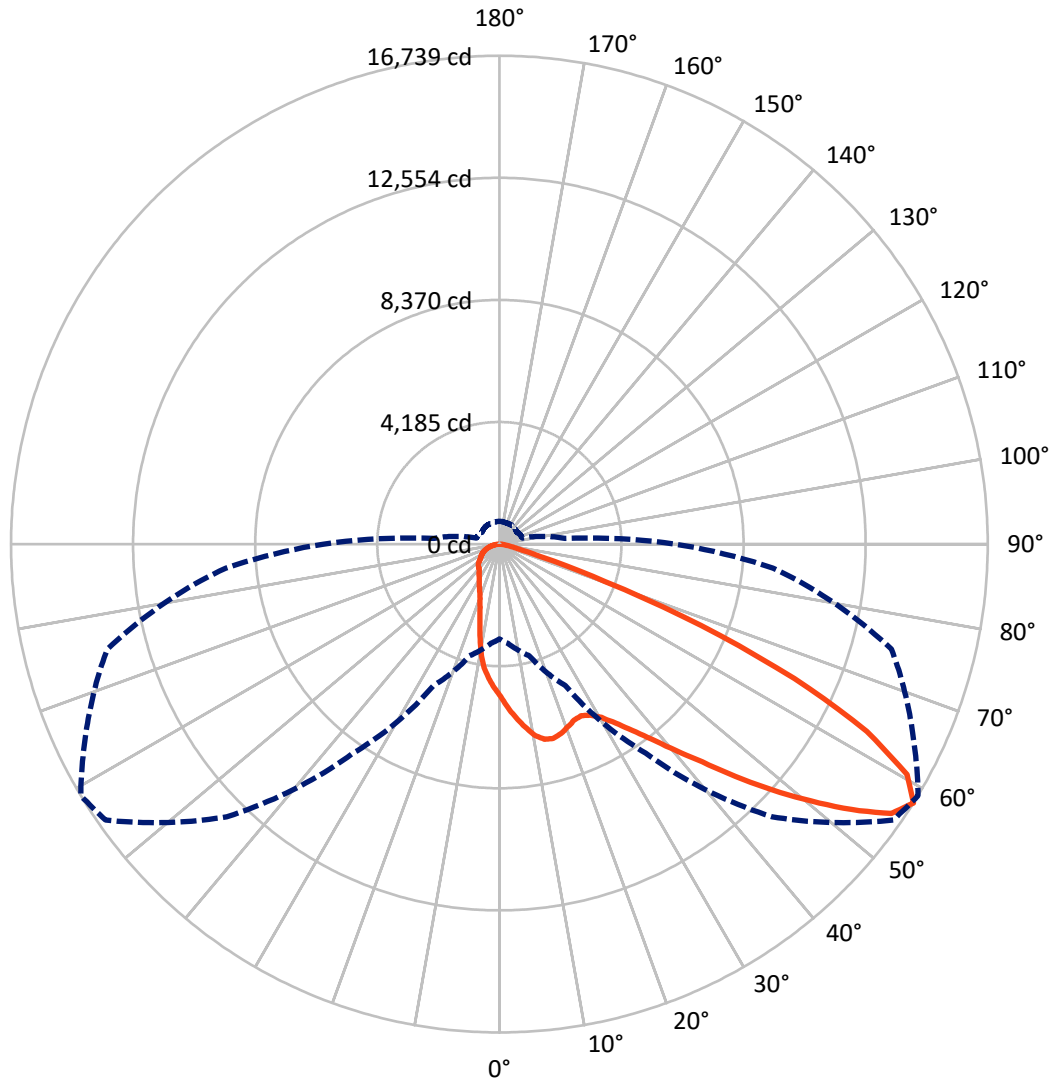
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3305.4	0.0	3305.4
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	17993.1	0.0	17993.1
	% Fixture	84.5	0.0	84.5
Total	Lumens	21298.5	0.0	21298.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.5	2.3
10°-20°	1230.2	5.8
20°-30°	1994.1	9.4
30°-40°	3207.8	15.1
40°-50°	4981.4	23.4
50°-60°	5365.6	25.2
60°-70°	3114.0	14.6
70°-80°	812.9	3.8
80°-90°	107.1	0.5
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°	21298.5	100.0
0°-180°	21298.5	100.0

Coefficient of Utilization



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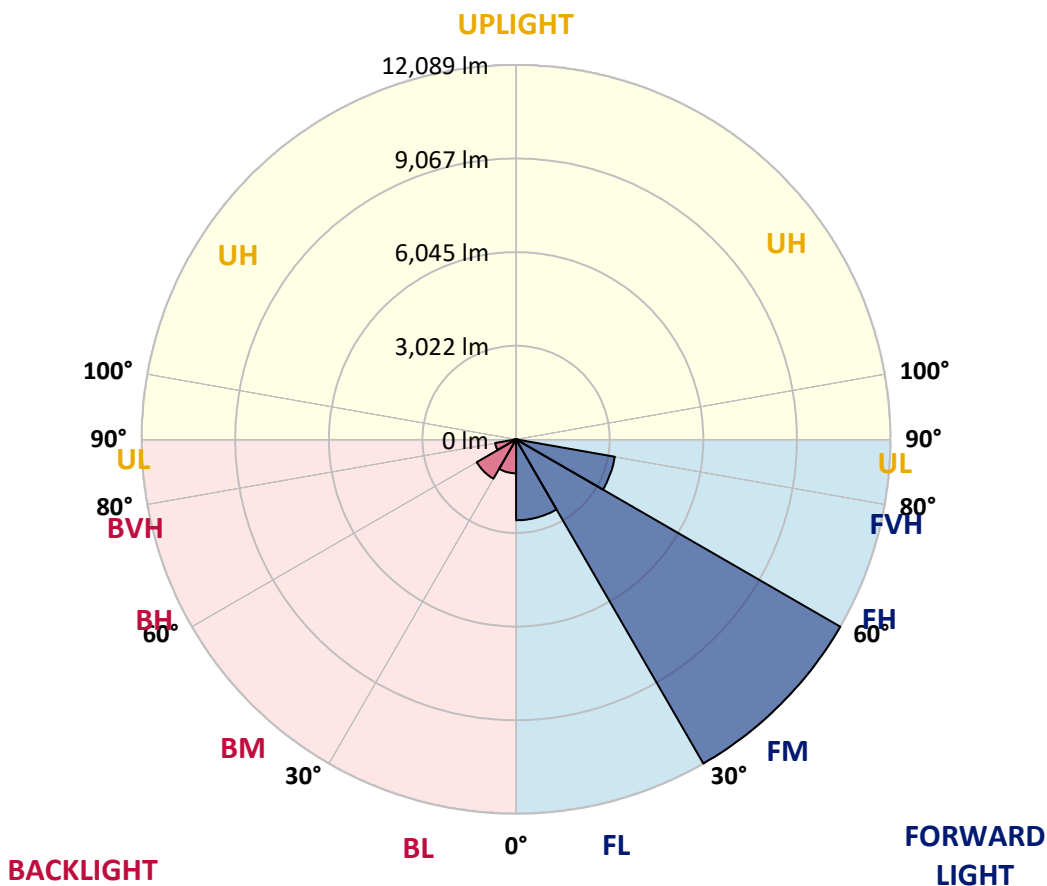
CATALOG NUMBER: GWS-SA6C-722-U-AFL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2613.1	12.3			
FM (30°-60°)	12089.3	56.8			
FH (60°-80°)	3239.4	15.2			G2/5000
FVH (80°-90°)	51.3	0.2			G1/100
BL (0°-30°)	1096.6	5.1	B3/2500		
BM (30°-60°)	1465.5	6.9	B2/2500		
BH (60°-80°)	687.5	3.2	B2/1000		G2/1000
BVH (80°-90°)	55.8	0.3			G1/100
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°	55°	59°	65°	75°	85°
0°	5228.4	5228.4	5228.4	5228.4	5228.4	5228.4	5228.4	5228.4	5228.4	5228.4	5228.4
2.5°	5930.1	5880.6	5915.1	5853.6	5828.1	5760.6	5673.7	5615.2	5525.2	5408.3	5306.3
5°	6519.3	6484.8	6492.3	6426.4	6367.9	6255.4	6077.0	5978.0	5825.1	5589.7	5370.8
7.5°	6501.3	6541.8	6564.3	6621.3	6637.8	6627.3	6466.8	6328.9	6161.0	5807.1	5477.3
10°	5828.1	5904.6	5973.6	6168.5	6405.4	6705.3	6742.7	6660.3	6490.8	6084.5	5604.7
12.5°	5094.9	5153.4	5214.9	5448.8	5811.6	6411.4	6817.7	6868.7	6801.2	6358.9	5748.6
15°	4735.1	4762.0	4820.5	4975.0	5264.3	5930.1	6687.3	6910.7	7032.1	6649.8	5910.6
17.5°	4720.1	4732.1	4760.5	4843.0	5043.9	5558.2	6451.9	6826.7	7213.5	6957.1	6099.5
20°	5030.4	4998.9	4981.0	4979.5	5078.4	5433.8	6223.9	6691.8	7299.0	7272.0	6301.9
22.5°	5460.8	5471.3	5432.3	5336.3	5324.3	5522.2	6110.0	6555.3	7324.5	7550.9	6489.3
25°	6071.0	6123.5	6008.0	5825.1	5735.1	5778.6	6180.5	6513.3	7321.5	7783.3	6606.3
27.5°	6783.2	6823.7	6706.7	6466.8	6280.9	6176.0	6390.4	6637.8	7347.0	7984.2	6676.8
30°	7594.4	7607.9	7447.4	7195.5	6924.2	6699.3	6739.7	6894.2	7477.4	8248.1	6759.2
32.5°	8585.5	8642.5	8399.6	8000.7	7621.4	7333.5	7209.0	7308.0	7759.3	8560.0	6886.7
35°	9843.5	9863.0	9554.1	8982.8	8446.0	8047.2	7786.3	7838.8	8188.1	8996.3	7078.6
37.5°	11029.5	11049.0	10720.6	10189.8	9422.1	8876.4	8498.5	8474.5	8736.9	9612.6	7392.0
40°	11782.2	11837.6	11690.7	11357.8	10624.6	9888.4	9375.7	9293.2	9456.6	10366.7	7828.3
42.5°	12187.0	12211.0	12208.0	12251.5	11815.2	11083.5	10365.2	10200.3	10309.8	11180.9	8269.1
45°	12190.0	12250.0	12410.4	12828.7	12848.2	12392.4	11615.7	11357.8	11257.4	12001.1	8729.4
47.5°	11644.2	11708.7	12149.5	12972.7	13579.9	13683.4	13113.6	12596.3	12173.5	12707.3	9107.3
50°	9991.9	10153.8	10993.5	12449.4	13723.9	14718.0	14542.5	13840.8	12987.7	13253.1	9344.2
52.5°	8557.0	8551.0	9068.3	10971.0	13122.6	15173.8	15925.0	15121.3	13792.8	13599.4	9404.1
55°	6265.9	6300.4	6829.7	8390.6	11518.3	14733.0	16685.2	16299.8	14716.5	13783.8	9380.2
57.5°	3249.2	3420.1	3962.9	5354.3	8751.9	13215.6	16482.7	16739.1	15655.1	13914.3	9411.6
60°	1641.8	1608.8	1803.8	2556.5	5070.9	10321.8	15235.3	16052.4	15824.5	14016.3	9431.1
62.5°	1096.1	1087.1	1033.1	1184.5	2072.2	6113.0	12987.7	14133.2	14647.5	13776.4	9182.2
65°	949.1	931.1	832.2	826.2	1006.1	2535.5	9519.6	11110.4	12106.0	12710.3	8587.0
67.5°	854.6	827.7	727.2	677.7	722.7	1114.0	5364.8	7451.9	8939.3	10749.1	7282.5
70°	763.2	749.7	649.2	577.3	572.8	679.2	1976.2	3845.9	5469.8	7333.5	5324.3
72.5°	683.7	659.7	574.3	505.3	470.8	481.3	857.6	1481.4	2830.8	4574.6	3184.7
75°	592.3	574.3	499.3	430.3	388.3	352.4	523.3	685.2	1291.0	2174.1	1503.9
77.5°	457.3	445.3	394.3	341.9	317.9	262.4	317.9	431.8	596.8	916.1	782.7
80°	265.4	272.9	293.9	266.9	233.9	187.4	206.9	248.9	358.4	496.3	443.8
82.5°	133.4	142.4	190.4	154.4	139.4	109.5	122.9	146.9	187.4	274.4	173.9
85°	10.5	10.5	34.5	39.0	48.0	39.0	49.5	60.0	85.5	109.5	58.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.5	7.5	13.5	25.5	16.5
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°	5228.4	5228.4	5228.4	5228.4	5228.4	5228.4	5228.4	5228.4	5228.4	5228.4	5228.4
2.5°	5237.4	5160.9	5069.4	4994.5	4879.0	4817.5	4739.6	4643.6	4604.6	4586.6	4576.1
5°	5247.8	5112.9	4918.0	4738.1	4538.6	4381.2	4205.8	4022.9	3917.9	3892.4	3874.4
7.5°	5286.8	5097.9	4787.5	4490.7	4120.3	3777.0	3442.6	3111.2	2941.8	2877.3	2871.3
10°	5340.8	5091.9	4655.6	4162.3	3537.0	2994.3	2602.9	2343.5	2234.1	2198.1	2186.1
12.5°	5408.3	5087.4	4481.7	3706.5	2863.8	2351.0	2127.6	2085.6	2100.6	2097.6	2097.6
15°	5493.7	5093.4	4271.7	3190.7	2316.5	2040.7	2045.2	2094.6	2141.1	2148.6	2148.6
17.5°	5586.7	5087.4	3967.4	2673.4	1988.2	1967.2	2036.2	2105.1	2147.1	2153.1	2153.1
20°	5687.2	5058.9	3583.5	2186.1	1844.2	1920.7	1995.7	2049.7	2075.1	2081.1	2081.1
22.5°	5747.1	4978.0	3166.7	1850.2	1752.8	1847.2	1896.7	1952.2	1955.2	1907.2	1905.7
25°	5738.1	4826.5	2691.4	1634.3	1655.3	1737.8	1800.8	1761.8	1713.8	1686.8	1682.3
27.5°	5681.2	4598.6	2207.1	1470.9	1539.9	1632.8	1613.3	1580.4	1568.4	1538.4	1535.4
30°	5609.2	4318.2	1772.3	1343.4	1419.9	1505.4	1475.4	1472.4	1460.4	1427.4	1427.4
32.5°	5540.2	4028.8	1443.9	1249.0	1343.4	1349.4	1391.4	1394.4	1388.4	1331.5	1325.5
35°	5520.7	3739.5	1222.0	1174.0	1268.5	1265.5	1325.5	1324.0	1220.5	1141.0	1139.5
37.5°	5579.2	3445.6	1090.1	1112.5	1165.0	1204.0	1252.0	1165.0	1130.5	1082.6	1079.6
40°	5703.7	3174.2	1022.6	1076.6	1099.0	1156.0	1081.1	1087.1	1078.1	1042.1	1037.6
42.5°	5868.6	2943.3	985.1	1064.6	1061.6	1076.6	994.1	1018.1	1031.6	1004.6	1000.1
45°	6027.5	2742.4	965.6	1019.6	1034.6	947.6	931.1	953.6	974.6	964.1	959.6
47.5°	6144.5	2568.4	955.1	958.1	1000.1	904.1	877.1	887.6	913.1	917.6	916.1
50°	6180.5	2420.0	943.1	907.1	898.1	860.6	839.7	836.7	866.6	887.6	890.6
52.5°	6111.5	2288.1	911.6	862.1	818.7	824.7	817.2	802.2	832.2	860.6	863.6
55°	6009.5	2213.1	862.1	818.7	767.7	791.7	794.7	781.2	800.7	820.2	820.2
57.5°	6017.0	2256.6	814.2	778.2	722.7	754.2	770.7	764.7	764.7	779.7	781.2
60°	6066.5	2319.5	782.7	727.2	677.7	710.7	748.2	742.2	728.7	748.2	748.2
62.5°	5924.1	2235.6	761.7	677.7	629.7	668.7	713.7	710.7	695.7	727.2	730.2
65°	5504.2	2010.7	737.7	616.2	581.8	626.7	665.7	676.2	662.7	704.7	712.2
67.5°	4613.6	1691.3	691.2	557.8	533.8	575.8	613.2	628.2	617.7	667.2	673.2
70°	3439.6	1368.9	617.7	493.3	475.3	512.8	547.3	553.3	554.8	613.2	619.2
72.5°	2193.6	1064.6	520.3	421.3	407.8	436.3	461.8	485.8	496.3	551.8	550.3
75°	1223.5	791.7	418.3	356.9	332.9	355.4	385.3	413.8	443.8	524.8	533.8
77.5°	704.7	556.3	331.4	286.4	257.9	281.9	307.4	347.9	437.8	508.3	499.3
80°	397.3	361.4	250.4	209.9	191.9	209.9	229.4	305.9	344.9	374.8	379.3
82.5°	185.9	202.4	170.9	128.9	128.9	140.9	158.9	236.9	260.9	212.9	185.9
85°	67.5	91.5	84.0	66.0	58.5	57.0	99.0	134.9	84.0	75.0	64.5
87.5°	18.0	25.5	24.0	16.5	9.0	7.5	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)