

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: P642987

Luminaire Tested: GWS-SA6E-722-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642987
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-722-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25980.1 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

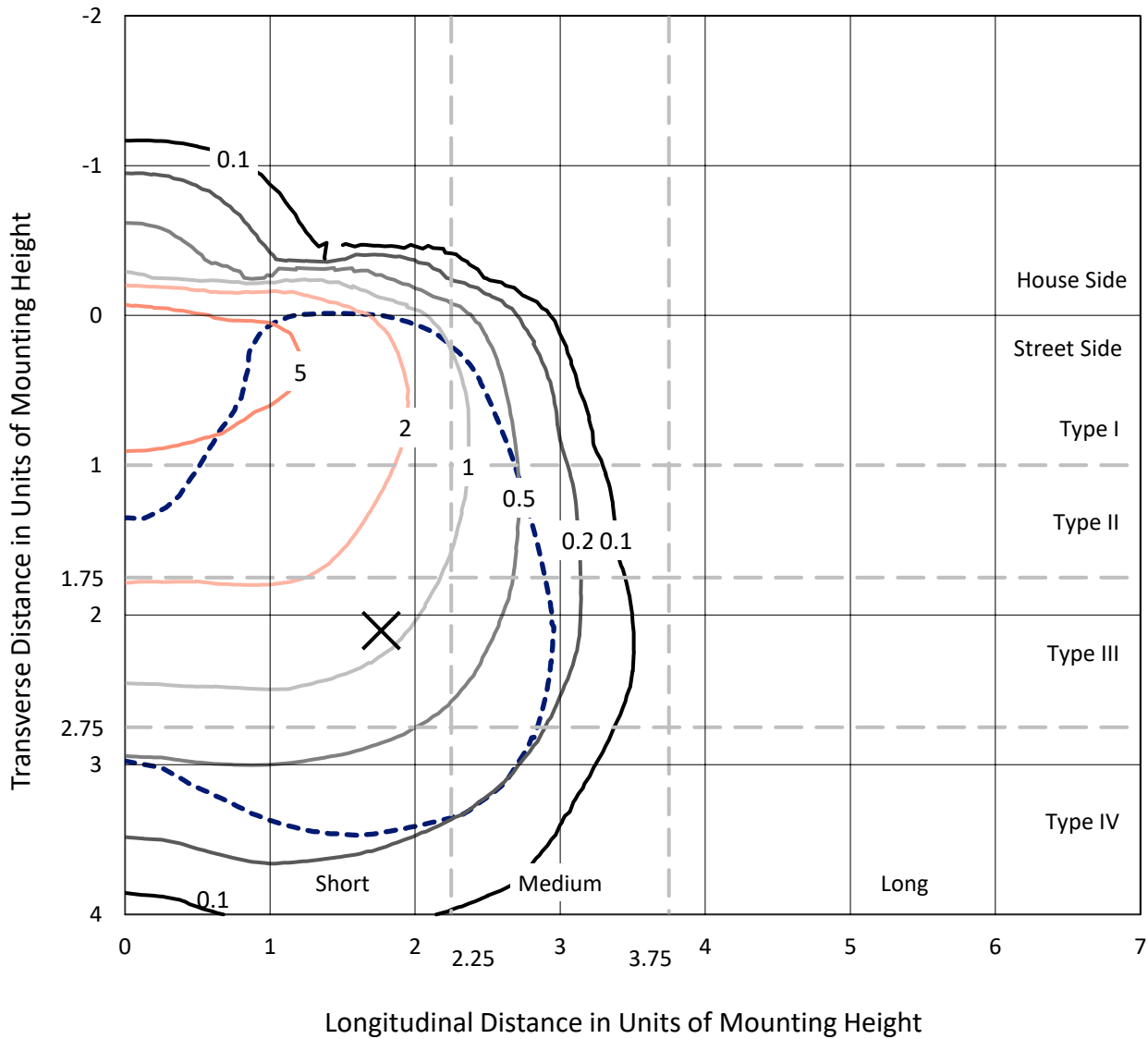
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

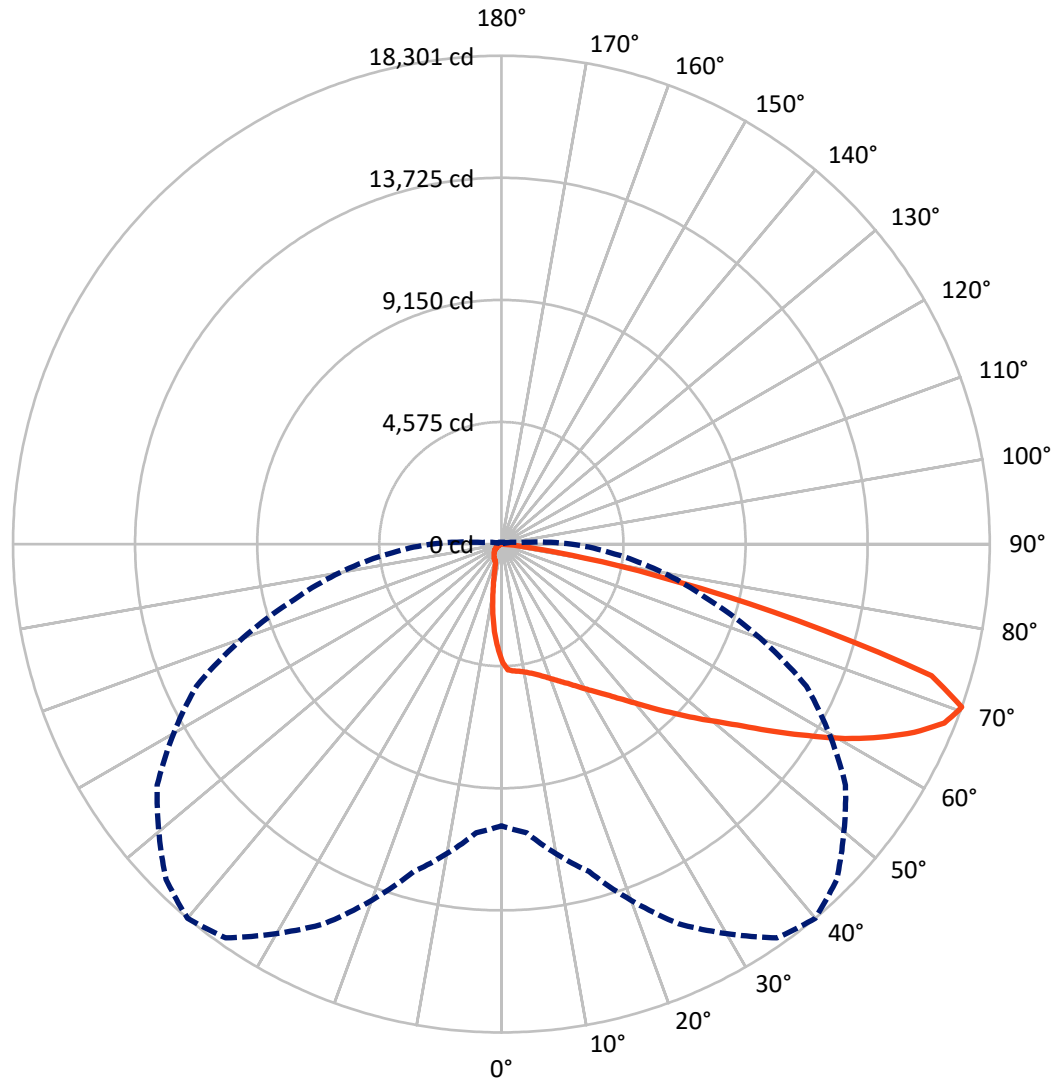
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2124.5	0.0	2124.5
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	23855.6	0.0	23855.6
	% Fixture	91.8	0.0	91.8
Total	Lumens	25980.1	0.0	25980.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.6	1.4
10°-20°	945.0	3.6
20°-30°	1581.7	6.1
30°-40°	2484.2	9.6
40°-50°	3929.4	15.1
50°-60°	5732.0	22.1
60°-70°	7105.6	27.4
70°-80°	3595.0	13.8
80°-90°	234.7	0.9
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°	25980.1	100.0
0°-180°	25980.1	100.0

Coefficient of Utilization



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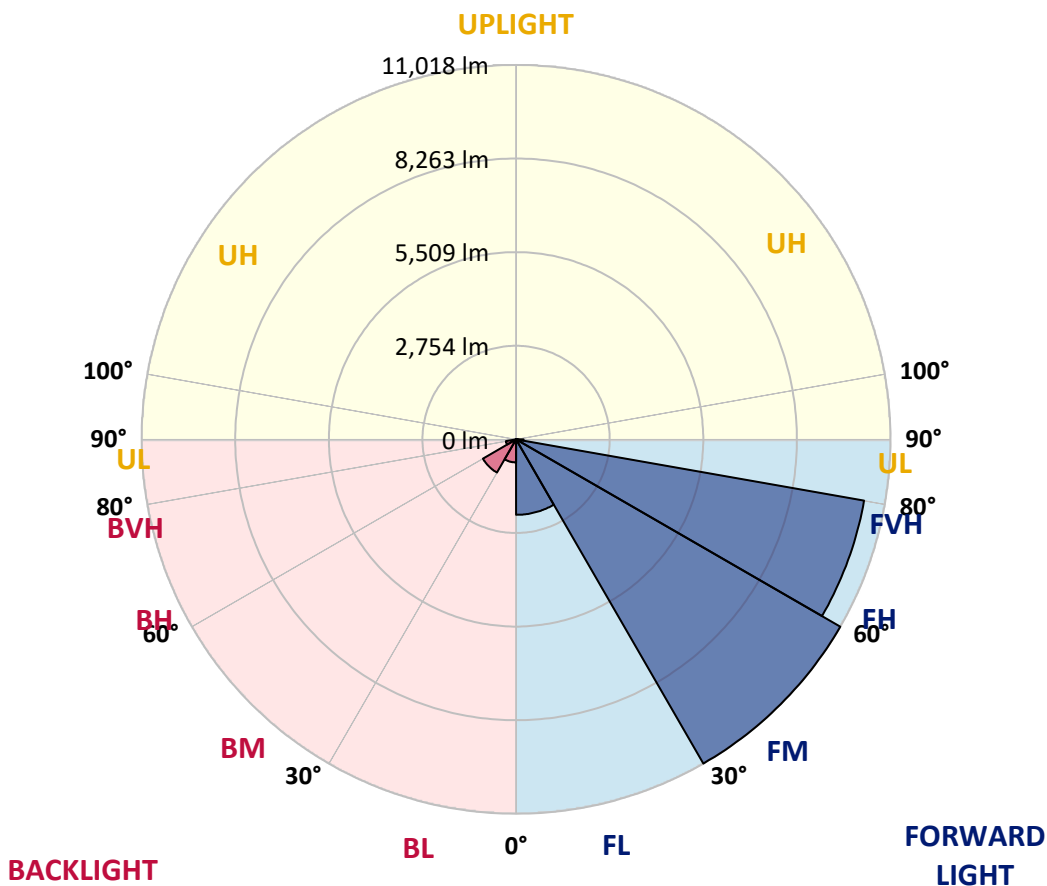
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2220.8	8.5			
FM (30°-60°)	11017.9	42.4			
FH (60°-80°)	10397.7	40.0			G4/12000
FVH (80°-90°)	219.2	0.8			G2/225
BL (0°-30°)	678.4	2.6	B2/1000		
BM (30°-60°)	1127.7	4.3	B2/2500		
BH (60°-80°)	302.9	1.2	B1/500		G1/500
BVH (80°-90°)	15.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4408.5	4408.5	4408.5	4408.5	4408.5	4408.5	4408.5	4408.5	4408.5	4408.5	4408.5
2.5°	4739.4	4756.0	4753.6	4760.7	4744.2	4718.2	4713.4	4678.0	4614.2	4533.8	4444.0
5°	4836.4	4855.3	4841.1	4834.0	4803.3	4774.9	4767.8	4730.0	4656.7	4548.0	4392.0
7.5°	4919.1	4923.8	4914.4	4897.8	4852.9	4815.1	4789.1	4737.1	4649.6	4540.9	4361.2
10°	4933.3	4930.9	4935.6	4938.0	4909.6	4876.5	4855.3	4784.4	4673.3	4557.4	4363.6
12.5°	4916.7	4916.7	4947.5	4982.9	4982.9	4966.4	4945.1	4881.3	4751.3	4614.2	4410.9
15°	4938.0	4945.1	5004.2	5070.4	5091.7	5075.1	5065.7	4999.5	4864.7	4713.4	4496.0
17.5°	5013.6	5020.7	5115.3	5214.6	5240.6	5221.7	5202.8	5136.6	4992.4	4826.9	4592.9
20°	5124.7	5143.7	5264.2	5391.9	5415.5	5391.9	5354.0	5261.8	5117.7	4949.8	4685.1
22.5°	5328.0	5339.9	5469.9	5604.6	5616.4	5578.6	5521.9	5394.2	5242.9	5079.8	4789.1
25°	5597.5	5614.1	5744.1	5874.1	5843.3	5786.6	5708.6	5564.4	5391.9	5233.5	4921.5
27.5°	5919.0	5937.9	6065.5	6179.0	6098.6	6032.5	5945.0	5765.3	5590.4	5446.2	5091.7
30°	6266.5	6283.0	6396.5	6498.1	6391.8	6313.7	6209.7	6025.4	5848.1	5739.3	5332.8
32.5°	6602.1	6599.8	6708.5	6791.2	6682.5	6621.0	6526.5	6339.7	6197.9	6150.6	5692.1
35°	6914.2	6914.2	7004.0	7086.7	7008.7	6975.6	6888.2	6739.2	6658.9	6715.6	6171.9
37.5°	7228.5	7212.0	7297.1	7389.3	7382.2	7384.6	7334.9	7264.0	7268.7	7469.6	6831.4
40°	7488.6	7481.5	7580.7	7701.3	7795.9	7871.5	7840.8	7866.8	8015.7	8391.5	7675.3
42.5°	7696.6	7713.1	7840.8	8032.2	8271.0	8424.6	8445.9	8552.3	8935.2	9516.7	8627.9
45°	7935.3	7937.7	8115.0	8408.1	8788.7	9032.1	9117.2	9391.4	9935.1	10684.4	9672.7
47.5°	8228.4	8200.1	8398.6	8809.9	9360.7	9720.0	9871.3	10214.0	11055.6	11823.8	10523.7
50°	8552.3	8500.3	8724.8	9285.1	10001.3	10450.4	10757.7	11258.8	12166.5	12759.9	11157.2
52.5°	8928.1	8878.5	9133.8	9831.1	10769.5	11315.6	11710.3	12216.2	13119.2	13473.7	11535.4
55°	9405.6	9356.0	9625.4	10485.9	11677.2	12386.4	12800.0	13225.5	14005.6	14000.9	11809.6
57.5°	9935.1	9866.6	10240.0	11313.2	12809.5	13547.0	13967.8	14175.8	14679.3	14409.8	11994.0
60°	10542.6	10481.1	10998.8	12298.9	14116.7	14799.8	15064.6	14979.5	15232.4	14650.9	11930.2
62.5°	11091.0	11062.6	11705.6	13343.7	15362.4	15939.2	16012.5	15641.4	15639.0	14655.6	11500.0
65°	11660.7	11715.1	12670.0	14546.9	16615.2	17002.9	16877.6	16298.5	15802.1	14076.5	10228.2
67.5°	11873.4	12031.8	13305.9	15634.3	17603.3	17905.9	17686.0	16627.1	15123.7	12128.7	7788.8
70°	10559.2	10857.0	12705.5	15695.7	18012.3	18300.6	17773.5	15743.0	12608.6	8034.6	4266.7
72.5°	8029.9	8377.4	10587.5	12852.1	16199.2	16856.4	15955.7	12826.1	8126.8	3519.7	1432.5
75°	4493.6	4869.5	7885.7	9677.5	10875.9	11476.3	11145.4	8228.4	3600.1	919.5	427.9
77.5°	1519.9	1645.2	3668.6	5987.5	7178.9	6640.0	5621.1	4087.0	1323.7	349.8	226.9
80°	900.6	947.9	1366.3	2980.8	3777.4	3132.1	2472.5	1510.5	673.7	186.7	158.4
82.5°	269.5	319.1	754.1	1106.3	1479.7	921.9	780.1	862.8	349.8	101.6	132.4
85°	0.0	0.0	160.7	342.8	387.7	151.3	151.3	489.3	63.8	42.5	96.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.4	11.8	7.1	9.5	21.3
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°	4408.5	4408.5	4408.5	4408.5	4408.5	4408.5	4408.5	4408.5	4408.5	4408.5	4408.5
2.5°	4380.1	4297.4	4200.5	4108.3	4020.8	3907.4	3853.0	3786.8	3730.1	3699.4	3715.9
5°	4292.7	4162.7	3964.1	3763.2	3559.9	3368.4	3195.9	3080.0	2976.0	2921.7	2933.5
7.5°	4217.0	4042.1	3732.5	3403.9	3077.7	2749.1	2482.0	2274.0	2113.2	2047.1	2035.2
10°	4183.9	3964.1	3526.8	3054.0	2552.9	2110.9	1732.7	1503.4	1340.3	1259.9	1274.1
12.5°	4200.5	3923.9	3351.9	2711.3	2061.2	1545.9	1184.3	969.2	853.3	806.1	794.2
15°	4247.8	3914.5	3195.9	2361.4	1590.8	1080.3	817.9	730.4	706.8	702.1	702.1
17.5°	4302.1	3916.8	3035.1	2006.9	1207.9	801.3	699.7	683.1	676.1	671.3	673.7
20°	4356.5	3916.8	2850.8	1647.6	907.7	692.6	666.6	654.8	647.7	645.3	645.3
22.5°	4422.7	3916.8	2645.1	1314.3	728.1	657.1	635.9	628.8	621.7	619.3	617.0
25°	4503.1	3919.2	2418.2	1028.3	661.9	626.4	609.9	602.8	595.7	591.0	591.0
27.5°	4618.9	3938.1	2167.6	801.3	624.0	598.0	583.9	576.8	569.7	562.6	562.6
30°	4786.7	3985.4	1886.3	661.9	588.6	567.3	553.1	548.4	541.3	534.2	531.9
32.5°	5037.3	4068.1	1595.6	593.3	555.5	534.2	517.7	512.9	505.9	498.8	496.4
35°	5387.1	4219.4	1311.9	550.8	512.9	491.7	482.2	479.9	470.4	463.3	463.3
37.5°	5900.1	4465.2	1040.1	508.2	477.5	460.9	449.1	444.4	434.9	427.9	425.5
40°	6526.5	4784.4	808.4	475.1	444.4	427.9	416.0	408.9	397.1	387.7	382.9
42.5°	7325.5	5174.4	638.2	439.7	413.7	397.1	387.7	373.5	356.9	342.8	340.4
45°	8157.5	5576.2	527.1	406.6	385.3	371.1	359.3	340.4	316.8	300.2	295.5
47.5°	8795.7	5826.8	460.9	371.1	354.6	342.8	328.6	304.9	276.6	257.7	252.9
50°	9252.0	5864.6	411.3	338.0	328.6	316.8	295.5	267.1	236.4	217.5	212.7
52.5°	9476.5	5694.4	371.1	307.3	300.2	288.4	262.4	231.7	198.6	179.6	174.9
55°	9578.2	5372.9	333.3	281.3	271.8	257.7	229.3	196.2	163.1	146.6	141.8
57.5°	9538.0	4897.8	300.2	255.3	243.5	226.9	196.2	160.7	134.7	118.2	115.8
60°	9240.1	4231.2	267.1	229.3	215.1	196.2	165.5	132.4	108.7	96.9	94.6
62.5°	8597.2	3403.9	234.0	198.6	189.1	170.2	141.8	108.7	89.8	82.7	80.4
65°	7280.5	2406.4	200.9	167.8	163.1	144.2	118.2	89.8	78.0	73.3	70.9
67.5°	5233.5	1463.2	170.2	144.2	139.5	122.9	99.3	78.0	70.9	68.6	68.6
70°	2630.9	692.6	134.7	118.2	118.2	101.6	85.1	70.9	68.6	66.2	66.2
72.5°	893.5	295.5	101.6	92.2	96.9	87.5	73.3	66.2	66.2	66.2	66.2
75°	304.9	156.0	70.9	66.2	70.9	70.9	63.8	63.8	66.2	66.2	66.2
77.5°	198.6	104.0	49.6	44.9	54.4	54.4	54.4	59.1	63.8	63.8	63.8
80°	163.1	56.7	33.1	30.7	40.2	40.2	44.9	54.4	59.1	59.1	59.1
82.5°	139.5	35.5	18.9	21.3	28.4	30.7	37.8	44.9	52.0	54.4	54.4
85°	94.6	18.9	14.2	16.5	18.9	23.6	30.7	37.8	42.5	47.3	47.3
87.5°	26.0	7.1	9.5	11.8	11.8	16.5	23.6	28.4	33.1	35.5	35.5
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)