

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: P641001

Luminaire Tested: GWS-SA5F-722-U-SL2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641001
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-722-U-SL2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24371.5 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

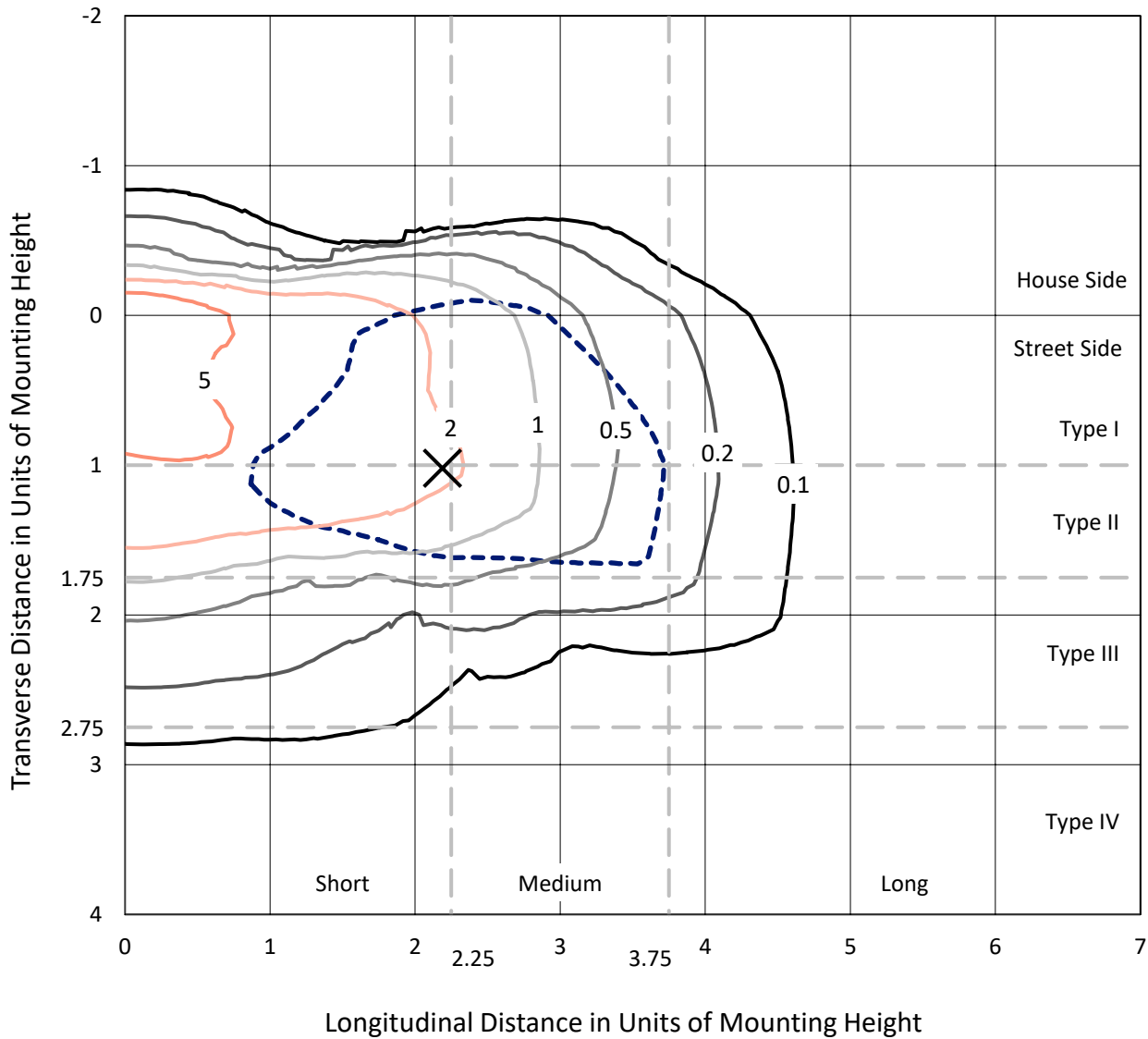
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

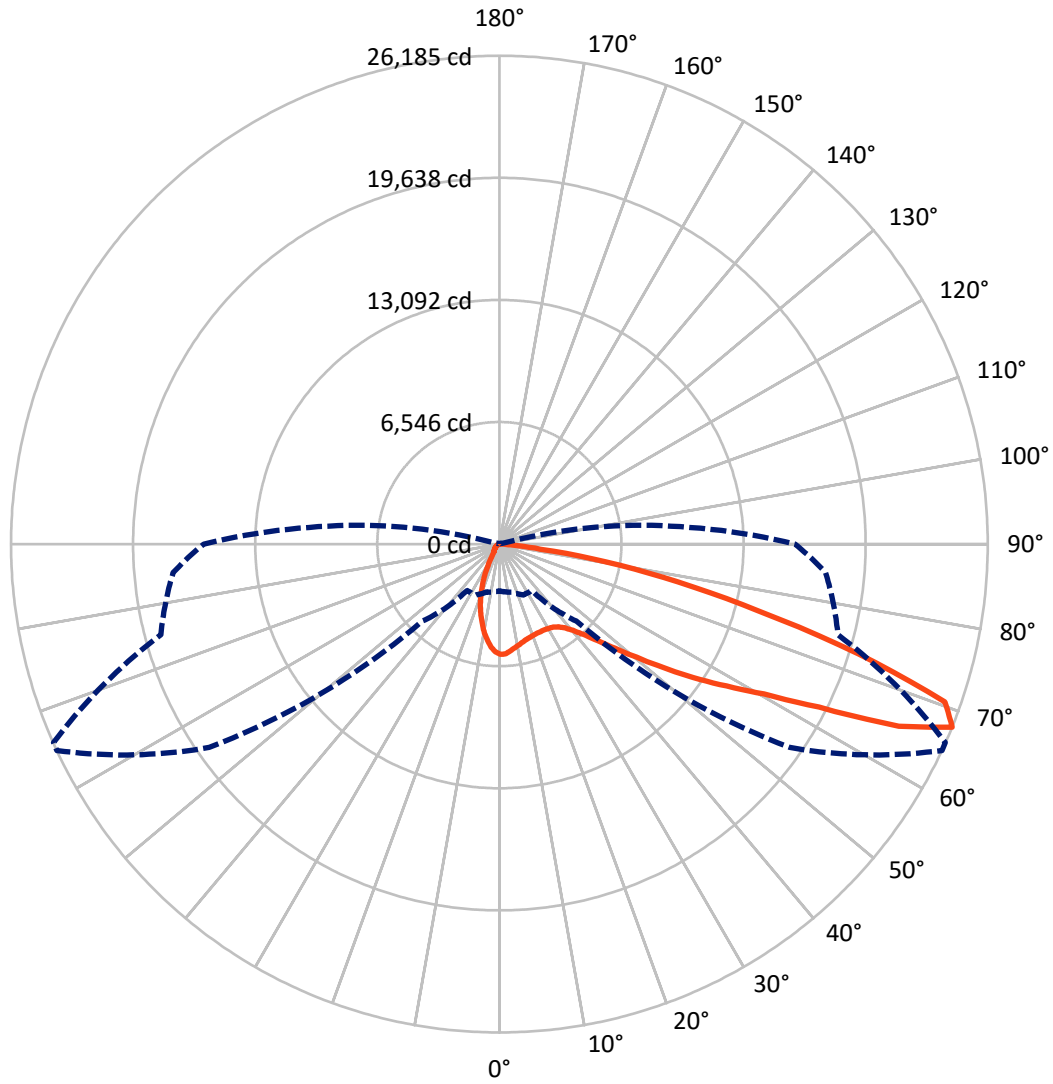
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3043.3	0.0	3043.3
	% Fixture	12.5	0.0	12.5
Street Side	Lumens	21328.2	0.0	21328.2
	% Fixture	87.5	0.0	87.5
Total	Lumens	24371.5	0.0	24371.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.9	2.0
10°-20°	1103.6	4.5
20°-30°	1577.0	6.5
30°-40°	2294.3	9.4
40°-50°	3593.2	14.7
50°-60°	5605.5	23.0
60°-70°	6157.4	25.3
70°-80°	3276.9	13.4
80°-90°	272.8	1.1
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°	24371.5	100.0
0°-180°	24371.5	100.0

Coefficient of Utilization

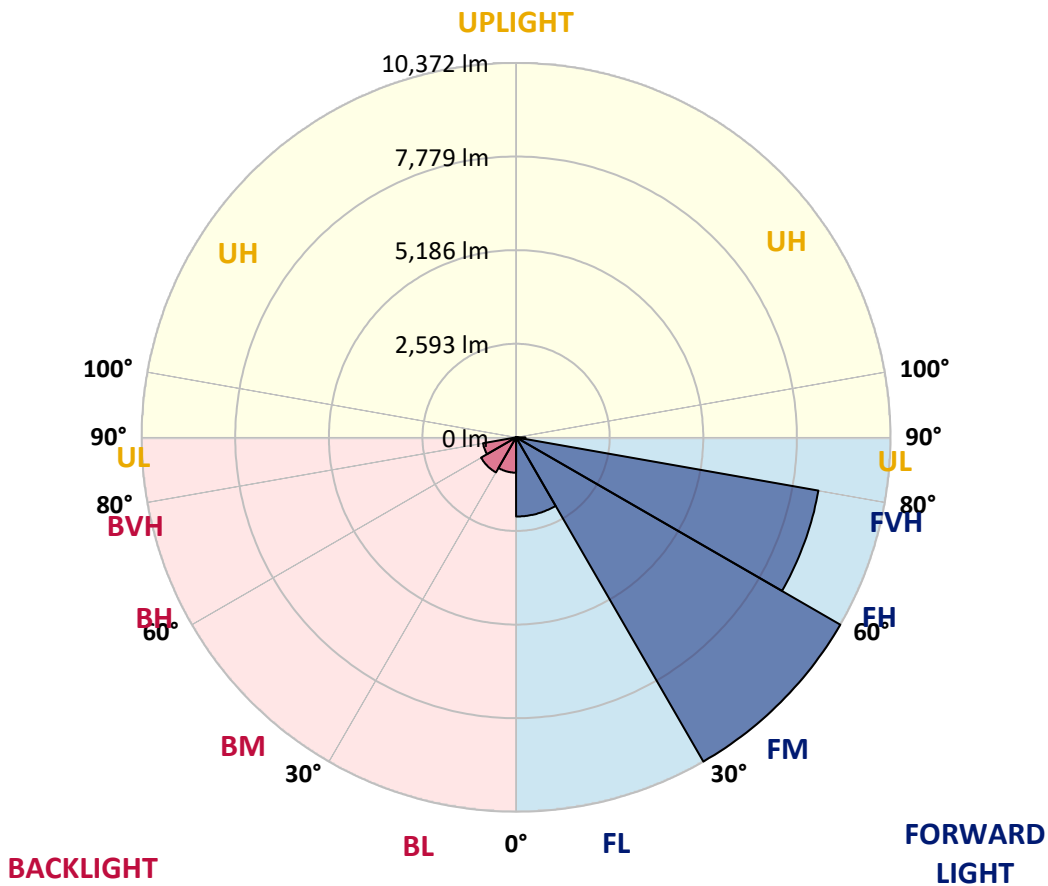


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2193.3	9.0			
FM (30°-60°)	10372.0	42.6			
FH (60°-80°)	8504.7	34.9			G4/12000
FVH (80°-90°)	258.2	1.1			G3/500
BL (0°-30°)	978.2	4.0	B2/1000		
BM (30°-60°)	1121.0	4.6	B2/2500		
BH (60°-80°)	929.5	3.8	B2/1000		G2/1000
BVH (80°-90°)	14.6	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5910.9	5910.9	5910.9	5910.9	5910.9	5910.9	5910.9	5910.9	5910.9	5910.9	5910.9
2.5°	5705.9	5723.5	5699.3	5758.8	5769.8	5835.9	5873.4	5899.8	5897.6	5930.7	5930.7
5°	5370.9	5388.5	5375.3	5439.2	5489.9	5593.5	5679.4	5778.6	5783.0	5884.4	5921.9
7.5°	5086.6	5088.8	5088.8	5168.1	5234.3	5362.1	5489.9	5642.0	5659.6	5816.1	5915.3
10°	4853.0	4859.6	4861.8	4952.2	5024.9	5179.2	5342.3	5525.2	5545.0	5756.6	5910.9
12.5°	4692.1	4694.3	4703.1	4797.9	4877.2	5038.1	5203.4	5412.8	5439.2	5688.3	5891.0
15°	4615.0	4610.6	4615.0	4694.3	4773.6	4927.9	5097.6	5322.4	5351.1	5631.0	5893.2
17.5°	4610.6	4603.9	4599.5	4659.0	4709.7	4846.4	5018.3	5262.9	5293.8	5604.5	5917.5
20°	4674.5	4670.1	4648.0	4674.5	4685.5	4797.9	4967.6	5216.6	5247.5	5600.1	5970.4
22.5°	4842.0	4830.9	4797.9	4773.6	4714.1	4780.3	4932.3	5183.6	5218.8	5611.1	6038.7
25°	5091.0	5086.6	5044.7	4985.2	4833.1	4806.7	4934.5	5183.6	5216.6	5624.3	6111.4
27.5°	5465.7	5439.2	5386.3	5282.7	5064.6	4910.3	4978.6	5196.8	5229.9	5642.0	6170.9
30°	5846.9	5844.7	5827.1	5721.3	5397.3	5108.6	5071.2	5232.1	5262.9	5657.4	6226.0
32.5°	6241.4	6248.1	6292.1	6210.6	5855.8	5404.0	5238.7	5304.8	5326.8	5688.3	6274.5
35°	6616.1	6629.3	6746.1	6774.8	6413.3	5851.4	5512.0	5450.2	5452.4	5756.6	6338.4
37.5°	6975.3	7019.4	7206.7	7345.6	7107.6	6393.5	5906.4	5697.1	5679.4	5893.2	6435.4
40°	7383.1	7466.8	7702.6	7938.4	7863.5	7109.8	6444.2	6076.1	6038.7	6144.5	6609.5
42.5°	7834.9	7925.2	8238.2	8568.8	8604.0	7975.9	7116.4	6629.3	6565.4	6567.6	6935.7
45°	8319.7	8440.9	8804.6	9280.6	9494.4	8941.2	7945.1	7376.4	7312.5	7217.8	7460.2
47.5°	8956.6	9062.4	9412.9	9961.6	10371.5	9977.0	9031.6	8337.3	8220.5	8081.7	8275.6
50°	9505.4	9598.0	9899.9	10587.5	11440.4	11312.6	10263.6	9538.5	9426.1	9190.3	9351.1
52.5°	9626.6	9699.4	9977.0	10750.6	12258.1	12998.6	11773.2	10990.8	10911.5	10475.1	10536.8
55°	9082.3	9192.5	9441.5	10301.0	12471.9	14647.1	13732.5	12628.3	12463.0	11766.6	11876.8
57.5°	7707.0	7903.2	8136.8	9254.2	11892.2	15524.3	16469.7	14362.8	14212.9	13009.6	13011.8
60°	5648.6	5807.3	5963.8	6986.4	10517.0	15464.8	18953.5	16311.1	16037.8	14025.6	13988.1
62.5°	4108.1	4189.6	4187.4	4551.1	7222.2	14446.6	20258.2	19246.6	18609.7	15112.1	14898.4
65°	3230.9	3228.7	3323.5	3442.5	4033.1	11151.7	20419.1	23533.2	22845.6	16568.9	16123.7
67.5°	2514.6	2563.1	2657.9	3008.3	3030.4	5835.9	19004.2	26184.5	26171.3	18792.6	17558.5
70°	1939.4	2005.5	2140.0	2651.3	2799.0	3266.2	14219.6	25344.8	25558.6	19786.6	16542.5
72.5°	1245.2	1240.8	1439.1	2142.2	2688.8	2721.8	7863.5	20132.6	20375.0	17922.1	13375.5
75°	696.4	700.8	813.2	1311.3	2505.8	2560.9	3894.3	14356.2	14547.9	13972.7	10276.8
77.5°	273.3	282.1	381.3	689.8	1652.9	2287.6	2314.1	9789.7	9818.4	8659.1	6303.2
80°	110.2	116.8	193.9	427.6	1007.2	1540.5	1652.9	5767.6	5650.8	3352.1	1833.6
82.5°	33.1	35.3	77.1	242.4	526.7	1095.3	1115.2	2212.7	2089.3	720.7	467.2
85°	2.2	2.2	17.6	74.9	187.3	275.5	742.7	720.7	639.1	180.7	207.2
87.5°	0.0	0.0	2.2	2.2	4.4	8.8	79.3	132.2	134.4	33.1	92.6
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°	5910.9	5910.9	5910.9	5910.9	5910.9	5910.9	5910.9	5910.9	5910.9	5910.9	5910.9
2.5°	5930.7	5851.4	5844.7	5783.0	5721.3	5644.2	5553.8	5487.7	5441.4	5359.9	5344.5
5°	5921.9	5816.1	5716.9	5540.6	5344.5	5132.9	4947.8	4775.8	4667.9	4595.1	4564.3
7.5°	5904.2	5769.8	5540.6	5207.8	4879.4	4509.2	4220.5	3956.0	3775.3	3669.5	3623.2
10°	5891.0	5710.3	5337.8	4833.1	4324.0	3812.7	3374.2	2981.9	2763.7	2591.8	2563.1
12.5°	5864.6	5624.3	5077.8	4394.6	3737.8	3059.0	2499.2	2018.8	1686.0	1536.1	1483.2
15°	5838.1	5534.0	4817.7	3931.8	3098.7	2261.2	1582.4	1119.6	890.4	819.9	815.4
17.5°	5833.7	5452.4	4535.6	3493.2	2428.7	1481.0	901.4	725.1	676.6	659.0	659.0
20°	5846.9	5384.1	4257.9	2988.5	1769.7	901.4	672.2	628.1	599.5	584.0	584.0
22.5°	5860.2	5313.6	3991.3	2479.4	1174.7	659.0	592.8	555.4	522.3	504.7	495.9
25°	5869.0	5236.5	3695.9	1968.1	767.0	573.0	520.1	471.6	432.0	409.9	409.9
27.5°	5866.8	5143.9	3398.4	1467.8	595.1	509.1	445.2	394.5	354.8	330.6	332.8
30°	5849.1	5042.5	3089.9	1024.8	520.1	445.2	381.3	328.4	288.7	268.9	266.7
32.5°	5835.9	4934.5	2732.8	720.7	467.2	390.1	324.0	273.3	240.2	224.8	222.6
35°	5820.5	4828.7	2393.4	548.8	420.9	337.2	273.3	231.4	205.0	191.7	191.7
37.5°	5824.9	4718.5	2025.4	471.6	374.7	293.1	233.6	198.4	176.3	163.1	160.9
40°	5893.2	4652.4	1663.9	427.6	332.8	253.4	202.8	171.9	149.9	136.6	134.4
42.5°	6062.9	4654.6	1317.9	394.5	295.3	216.0	176.3	147.7	127.8	112.4	110.2
45°	6402.3	4747.2	1011.6	359.2	255.7	187.3	152.1	125.6	105.8	92.6	90.4
47.5°	6957.7	5022.7	767.0	328.4	222.6	163.1	130.0	105.8	88.2	77.1	74.9
50°	7841.5	5520.8	603.9	290.9	187.3	141.0	110.2	88.2	72.7	61.7	59.5
52.5°	8903.8	6267.9	517.9	257.9	160.9	123.4	94.8	72.7	59.5	50.7	48.5
55°	10124.7	7160.5	478.2	224.8	136.6	105.8	77.1	59.5	48.5	41.9	37.5
57.5°	11244.3	7964.9	476.0	191.7	116.8	90.4	63.9	50.7	41.9	33.1	30.9
60°	12335.2	8637.1	447.4	158.7	101.4	74.9	55.1	41.9	35.3	28.7	26.4
62.5°	13324.8	9183.6	374.7	127.8	86.0	61.7	46.3	37.5	30.9	24.2	24.2
65°	14567.8	9880.1	286.5	103.6	70.5	50.7	39.7	33.1	28.7	22.0	22.0
67.5°	15852.6	10248.1	205.0	86.0	57.3	44.1	35.3	30.9	24.2	19.8	19.8
70°	14358.4	8659.1	147.7	70.5	48.5	37.5	30.9	28.7	24.2	19.8	17.6
72.5°	11213.4	6243.6	110.2	55.1	41.9	35.3	28.7	26.4	22.0	17.6	17.6
75°	8315.3	3640.8	83.7	44.1	33.1	28.7	28.7	26.4	22.0	17.6	15.4
77.5°	4520.2	1269.4	63.9	35.3	26.4	22.0	24.2	24.2	19.8	15.4	13.2
80°	1196.7	348.2	44.1	26.4	22.0	17.6	17.6	22.0	17.6	13.2	13.2
82.5°	348.2	101.4	30.9	22.0	17.6	15.4	15.4	15.4	13.2	11.0	8.8
85°	169.7	37.5	22.0	17.6	15.4	13.2	11.0	11.0	8.8	6.6	6.6
87.5°	74.9	15.4	17.6	15.4	15.4	11.0	8.8	6.6	6.6	4.4	2.2
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)