

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: P641310

Luminaire Tested: GWS-SA5F-750-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641310
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-750-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41239.5 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

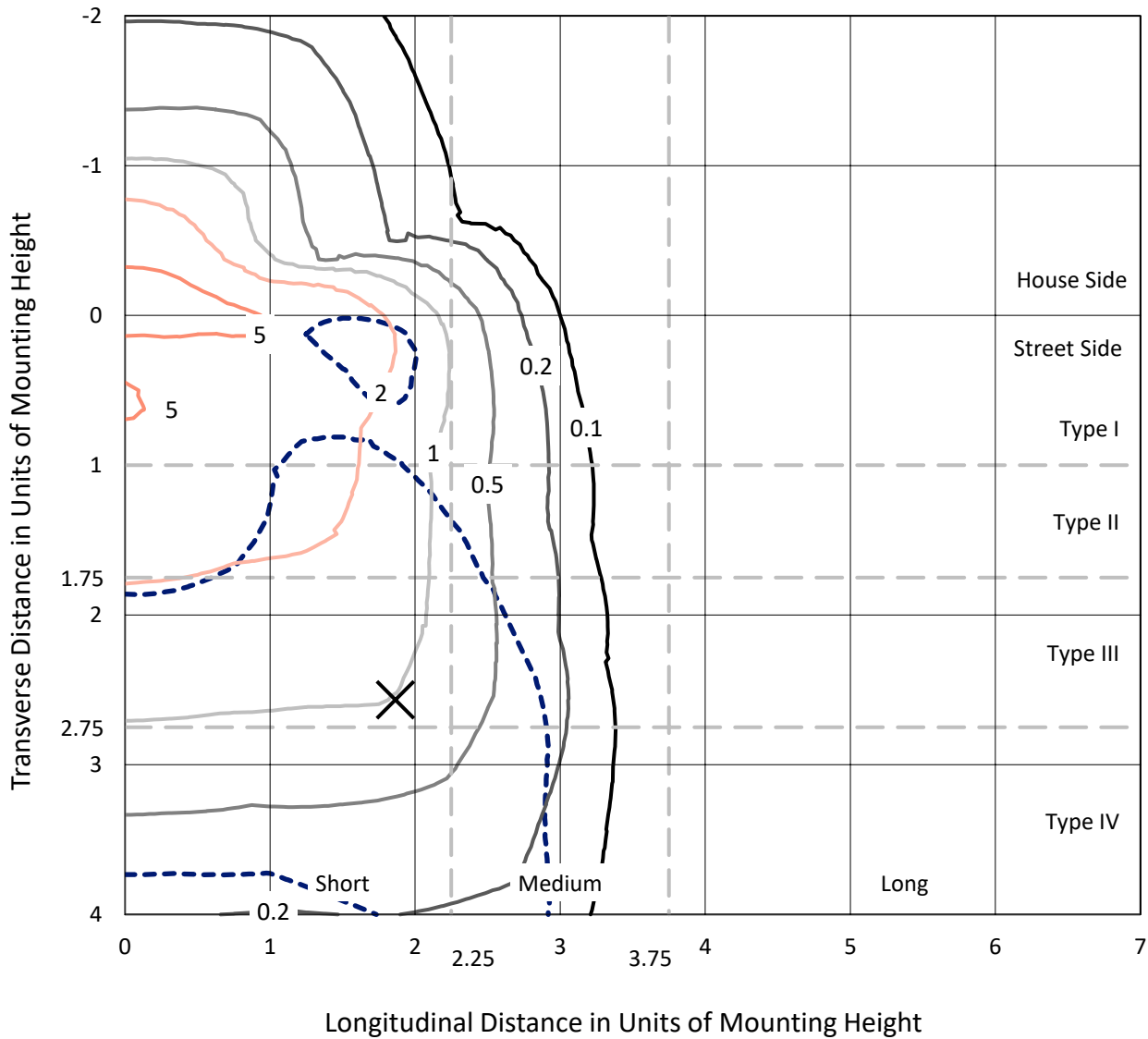
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

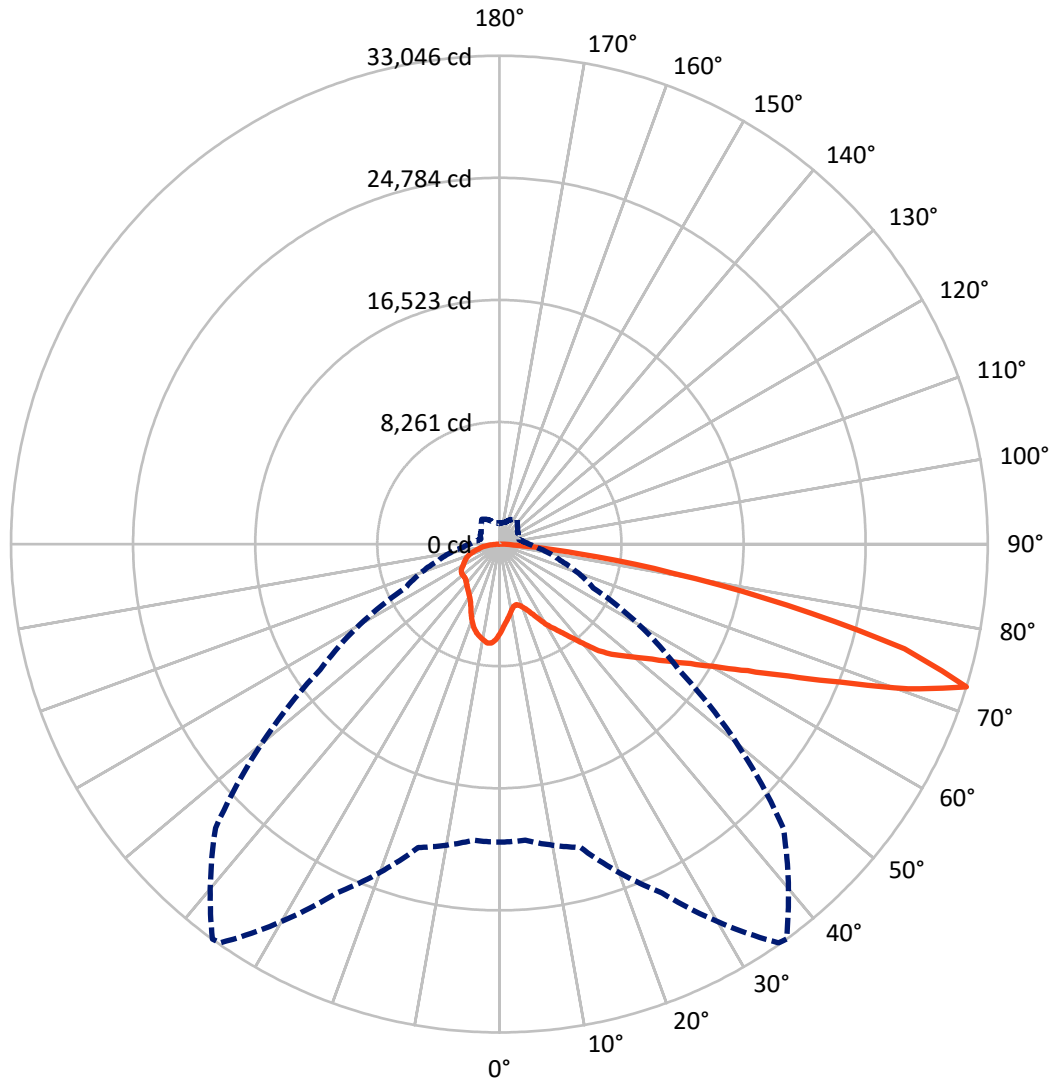
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9507.5	0.0	9507.5
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	31732.0	0.0	31732.0
	% Fixture	76.9	0.0	76.9
Total	Lumens	41239.5	0.0	41239.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	564.2	1.4
10°-20°	1591.7	3.9
20°-30°	2636.1	6.4
30°-40°	3947.8	9.6
40°-50°	5759.5	14.0
50°-60°	8197.5	19.9
60°-70°	10356.9	25.1
70°-80°	7380.2	17.9
80°-90°	805.7	2.0
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°	41239.5	100.0
0°-180°	41239.5	100.0

Coefficient of Utilization



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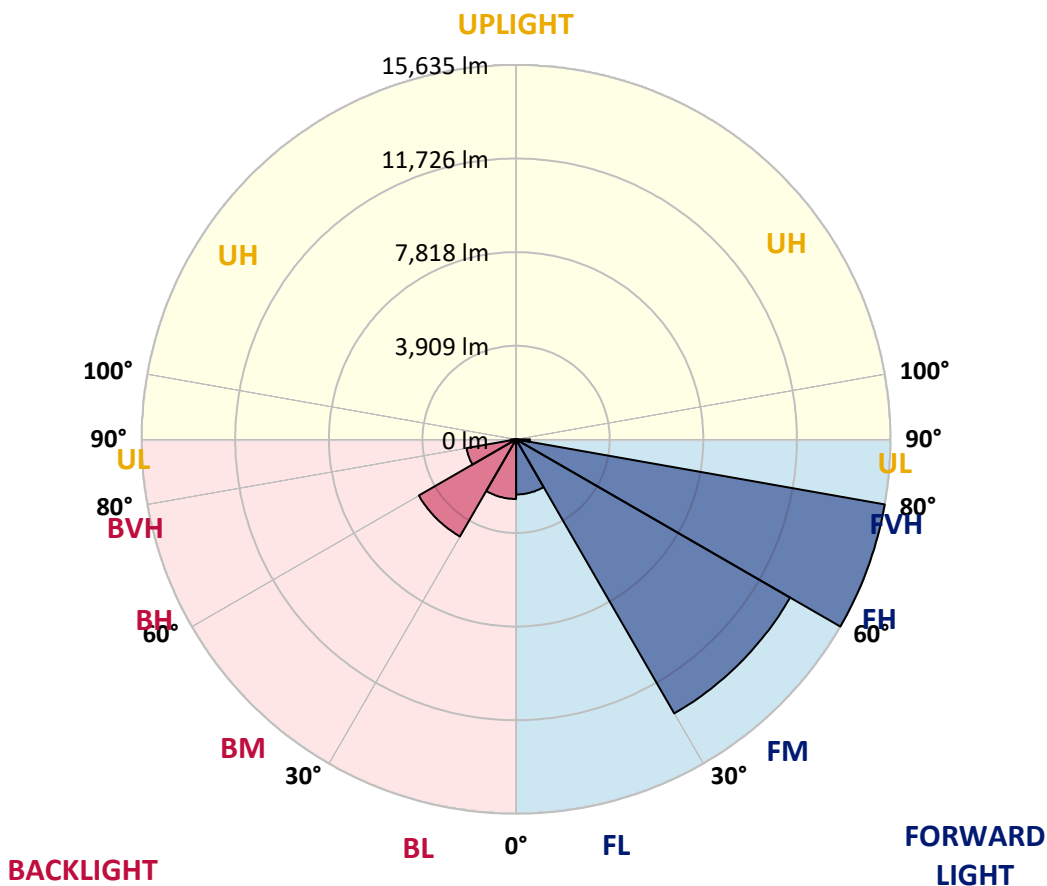
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2302.3	5.6			
FM (30°-60°)	13216.2	32.0			
FH (60°-80°)	15635.2	37.9			G5
FVH (80°-90°)	578.3	1.4			G4/750
BL (0°-30°)	2489.7	6.0	B3/2500		
BM (30°-60°)	4688.5	11.4	B3/5000		
BH (60°-80°)	2101.9	5.1	B3/2500		G3/2500
BVH (80°-90°)	227.4	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	6035.6	6035.6	6035.6	6035.6	6035.6	6035.6	6035.6	6035.6	6035.6	6035.6	6035.6
2.5°	5506.1	5496.9	5478.5	5533.6	5588.7	5582.6	5659.1	5732.6	5812.2	5894.8	6005.0
5°	5065.4	5059.2	5043.9	5126.6	5209.2	5206.2	5331.6	5451.0	5613.2	5790.7	6011.1
7.5°	4624.6	4609.3	4630.8	4734.8	4851.1	4863.4	5034.8	5230.6	5466.3	5732.6	6044.8
10°	4235.9	4232.9	4242.0	4358.4	4532.8	4545.1	4765.4	5037.8	5350.0	5705.0	6121.3
12.5°	4134.9	4128.8	4104.3	4162.5	4294.1	4312.4	4554.2	4887.8	5270.4	5720.3	6225.3
15°	4300.2	4284.9	4199.2	4171.7	4235.9	4251.2	4456.3	4799.1	5224.5	5747.9	6357.0
17.5°	4584.8	4575.7	4413.4	4300.2	4343.1	4355.3	4508.3	4783.8	5212.3	5803.0	6519.2
20°	5001.1	4961.3	4707.3	4535.9	4535.9	4554.2	4646.1	4851.1	5227.6	5870.3	6702.8
22.5°	5552.0	5472.4	5114.3	4881.7	4820.5	4845.0	4884.8	5019.5	5291.8	5983.6	6932.4
25°	6170.3	6096.8	5671.4	5343.9	5258.2	5267.4	5233.7	5258.2	5432.6	6139.6	7217.0
27.5°	6828.3	6779.3	6326.3	5910.1	5775.4	5775.4	5656.1	5597.9	5628.5	6317.2	7535.3
30°	7415.9	7348.6	6966.0	6510.0	6332.5	6332.5	6106.0	5980.5	5907.0	6534.5	7960.7
32.5°	7725.1	7685.3	7431.2	7082.3	6865.0	6831.4	6635.5	6488.6	6317.2	6855.8	8536.1
35°	8129.1	8119.9	7966.9	7694.5	7419.0	7370.0	7235.4	7119.1	6822.2	7256.8	9301.3
37.5°	8637.1	8621.8	8597.3	8435.1	8104.6	8095.4	7976.0	7835.2	7449.6	7835.2	10228.7
40°	9206.4	9178.9	9148.3	9145.2	8946.3	8912.6	8903.4	8744.3	8205.6	8533.1	11195.8
42.5°	9989.9	9895.1	9607.4	9735.9	9882.8	9852.2	9968.5	9729.8	9148.3	9362.5	12111.0
45°	10954.0	10721.4	10152.1	10188.9	10559.2	10620.4	11024.4	10966.3	10185.8	10320.5	13075.1
47.5°	11532.5	11330.5	10801.0	10770.4	11232.6	11309.1	12187.5	12297.7	11302.9	11474.3	14265.7
50°	12006.9	11866.1	11431.5	11474.3	11964.0	12040.6	13341.3	13577.0	12355.8	12655.8	15649.1
52.5°	12579.2	12377.2	12040.6	12242.6	12842.5	12934.3	14623.7	14877.8	13304.6	13953.5	17081.4
55°	12900.6	12818.0	12824.1	13133.2	13886.1	14011.6	15967.4	15924.5	14173.8	15064.5	18158.8
57.5°	13641.3	13610.7	13892.3	14008.6	15104.3	15266.5	17311.0	16943.7	14963.5	15924.5	18676.0
60°	14948.2	14871.7	15116.5	15294.0	16610.1	16839.7	18810.7	17941.5	15499.1	16564.2	18501.6
62.5°	16784.6	16689.7	16698.9	16980.4	18627.1	18868.9	20478.8	18774.0	15664.4	16662.1	17396.7
65°	19067.8	18930.1	18774.0	19156.6	21305.1	21507.1	22293.7	19380.0	15269.5	15719.5	15089.0
67.5°	21476.5	21363.3	21179.6	21981.5	24772.8	24895.3	24329.0	19328.0	14017.7	13197.5	10583.7
70°	21617.3	21644.9	22514.1	25415.6	29299.5	29330.1	26254.2	18281.2	11351.9	8554.5	5273.5
72.5°	20166.6	20120.7	21253.1	26043.0	32941.7	33045.7	27163.2	14810.4	7015.0	4266.5	2473.0
75°	16380.6	16460.1	17650.7	22786.5	28234.4	28326.2	22143.7	8732.0	3333.0	2087.4	1582.4
77.5°	7051.7	7495.5	9843.0	16053.1	20221.7	19937.0	11413.1	3538.1	1778.2	1487.5	1212.0
80°	2035.3	2209.8	3507.5	7633.2	12117.1	11902.8	4517.5	1325.3	1239.6	1117.1	869.2
82.5°	658.0	728.4	1285.5	3039.2	5429.6	5423.5	1714.0	783.5	811.1	759.0	560.1
85°	183.6	211.2	394.8	921.3	1680.3	1646.6	495.8	370.3	431.6	437.7	278.5
87.5°	0.0	0.0	3.1	6.1	6.1	6.1	12.2	55.1	125.5	159.2	113.2
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°	6035.6	6035.6	6035.6	6035.6	6035.6	6035.6	6035.6	6035.6	6035.6	6035.6	6035.6
2.5°	6072.3	6063.1	6188.6	6286.6	6378.4	6439.6	6458.0	6470.2	6494.7	6506.9	6494.7
5°	6115.2	6161.1	6369.2	6522.2	6644.7	6718.1	6721.2	6715.0	6733.4	6718.1	6708.9
7.5°	6207.0	6295.7	6559.0	6721.2	6800.7	6803.8	6730.4	6644.7	6601.8	6565.1	6552.8
10°	6329.4	6461.0	6748.7	6855.8	6831.4	6718.1	6555.9	6421.2	6344.7	6289.6	6277.4
12.5°	6497.7	6644.7	6917.1	6914.0	6761.0	6559.0	6369.2	6207.0	6096.8	6032.5	6011.1
15°	6656.9	6843.6	7039.5	6895.6	6653.8	6409.0	6164.1	5946.8	5799.9	5698.9	5680.6
17.5°	6852.8	7051.7	7128.2	6837.5	6519.2	6203.9	5876.4	5591.8	5392.9	5273.5	5264.3
20°	7079.3	7256.8	7171.1	6736.5	6344.7	5931.5	5487.7	5169.4	4955.2	4838.9	4848.1
22.5°	7342.5	7471.0	7183.3	6598.7	6102.9	5545.9	5050.1	4744.0	4600.1	4538.9	4542.0
25°	7624.1	7706.7	7161.9	6412.0	5732.6	5074.5	4600.1	4459.4	4447.1	4431.8	4437.9
27.5°	7957.7	7939.3	7097.6	6148.8	5233.7	4526.7	4284.9	4321.6	4370.6	4364.5	4370.6
30°	8404.5	8230.1	7015.0	5784.6	4639.9	4067.6	4098.2	4202.3	4266.5	4272.7	4291.0
32.5°	8915.6	8551.4	6883.4	5288.8	4073.7	3810.5	3923.7	4049.2	4125.7	4141.0	4165.5
35°	9524.7	8918.7	6650.8	4670.5	3666.6	3657.5	3761.5	3847.2	3929.9	3936.0	3936.0
37.5°	10225.6	9286.0	6280.4	3988.0	3415.7	3525.9	3623.8	3642.2	3663.6	3645.2	3654.4
40°	10868.3	9641.0	5754.0	3366.7	3210.6	3409.6	3492.2	3431.0	3363.6	3317.7	3326.9
42.5°	11407.0	9882.8	5056.2	2932.1	3002.5	3305.5	3369.8	3244.3	3112.7	3027.0	3039.2
45°	12013.0	10106.2	4235.9	2638.3	2825.0	3232.0	3274.9	3112.7	2944.3	2815.8	2797.4
47.5°	12848.6	10562.3	3507.5	2433.2	2699.5	3192.2	3262.6	3042.3	2821.9	2629.1	2607.7
50°	13880.0	11208.1	2898.4	2298.5	2641.3	3170.8	3259.6	2965.8	2702.5	2476.1	2460.8
52.5°	15006.3	11838.6	2448.5	2194.5	2583.2	3106.6	3244.3	2880.1	2577.1	2332.2	2313.8
55°	15756.2	12086.5	2145.5	2096.5	2488.3	3005.6	3183.1	2797.4	2387.3	2163.9	2136.3
57.5°	15976.5	11768.2	1934.3	2007.8	2365.9	2864.8	3066.8	2623.0	2271.0	2093.5	2072.1
60°	15597.0	10966.3	1802.7	1934.3	2231.2	2684.2	2864.8	2522.0	2179.2	2020.0	2004.7
62.5°	14525.8	9729.8	1701.7	1857.8	2093.5	2494.4	2736.2	2399.5	2078.2	1952.7	1931.3
65°	12371.1	7979.1	1619.1	1778.2	1961.9	2313.8	2595.4	2277.1	1968.0	1873.1	1848.6
67.5°	8652.4	5604.0	1530.3	1683.4	1830.3	2139.4	2448.5	2163.9	1854.7	1784.4	1759.9
70°	4229.8	2971.9	1423.2	1573.2	1689.5	1961.9	2301.6	2026.1	1704.8	1665.0	1631.3
72.5°	2013.9	1661.9	1297.7	1423.2	1496.7	1726.2	2056.8	1827.2	1527.3	1441.6	1383.4
75°	1349.7	1181.4	1132.4	1245.7	1264.0	1447.7	1762.9	1576.2	1346.7	1248.7	1199.8
77.5°	1022.3	902.9	951.9	1052.9	1016.1	1190.6	1450.7	1404.8	1215.1	1126.3	1101.8
80°	719.3	658.0	756.0	817.2	789.6	1013.1	1306.9	1202.8	1000.8	902.9	884.5
82.5°	453.0	440.7	557.0	566.2	575.4	801.9	1074.3	945.7	777.4	639.7	593.8
85°	226.5	251.0	333.6	333.6	330.5	413.2	612.1	532.6	419.3	333.6	324.4
87.5°	76.5	107.1	143.9	116.3	88.8	70.4	79.6	97.9	104.1	101.0	101.0
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)