

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: P641304

Luminaire Tested: GWS-SA5F-750-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641304
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-750-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42723.9 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

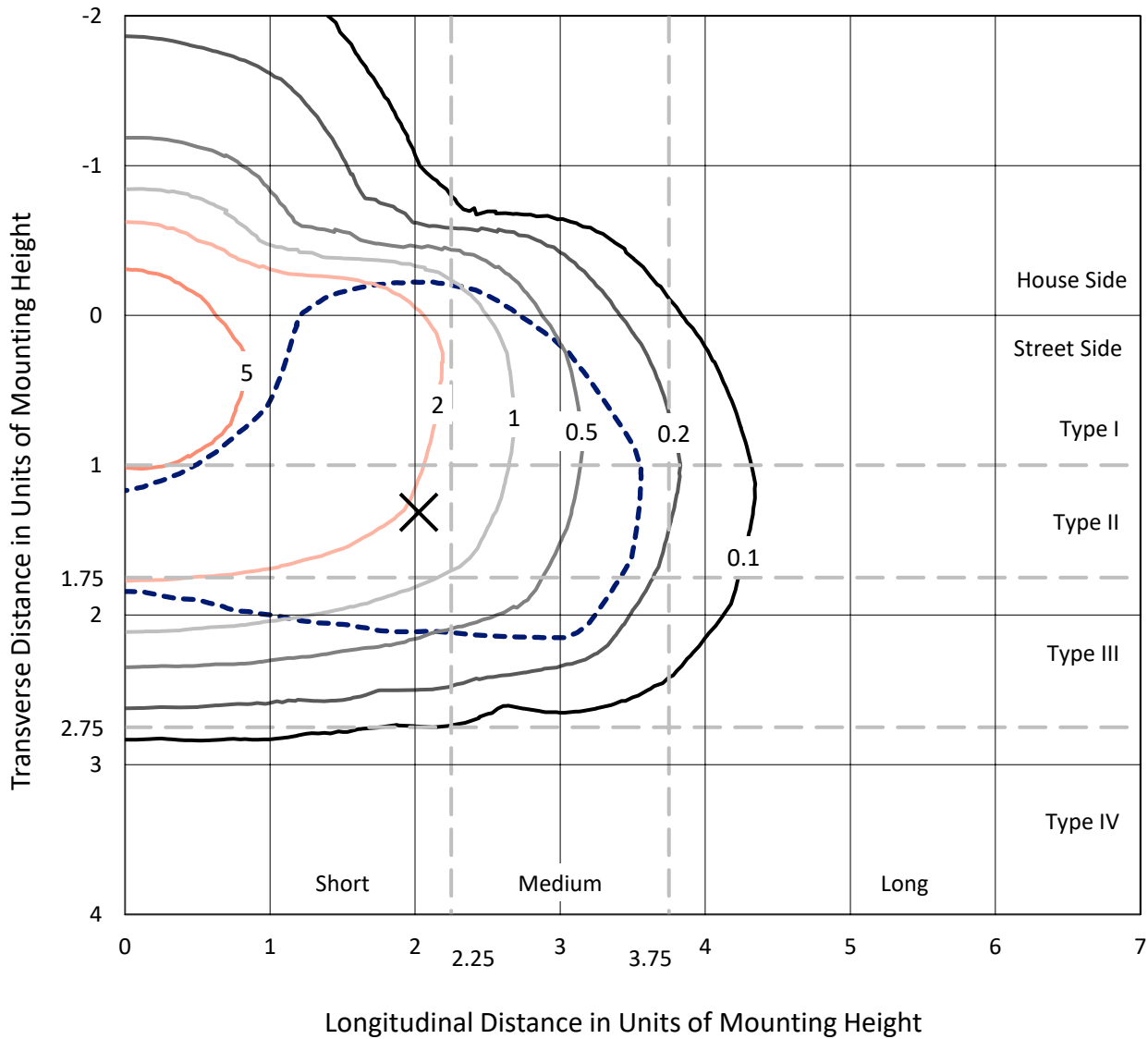
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

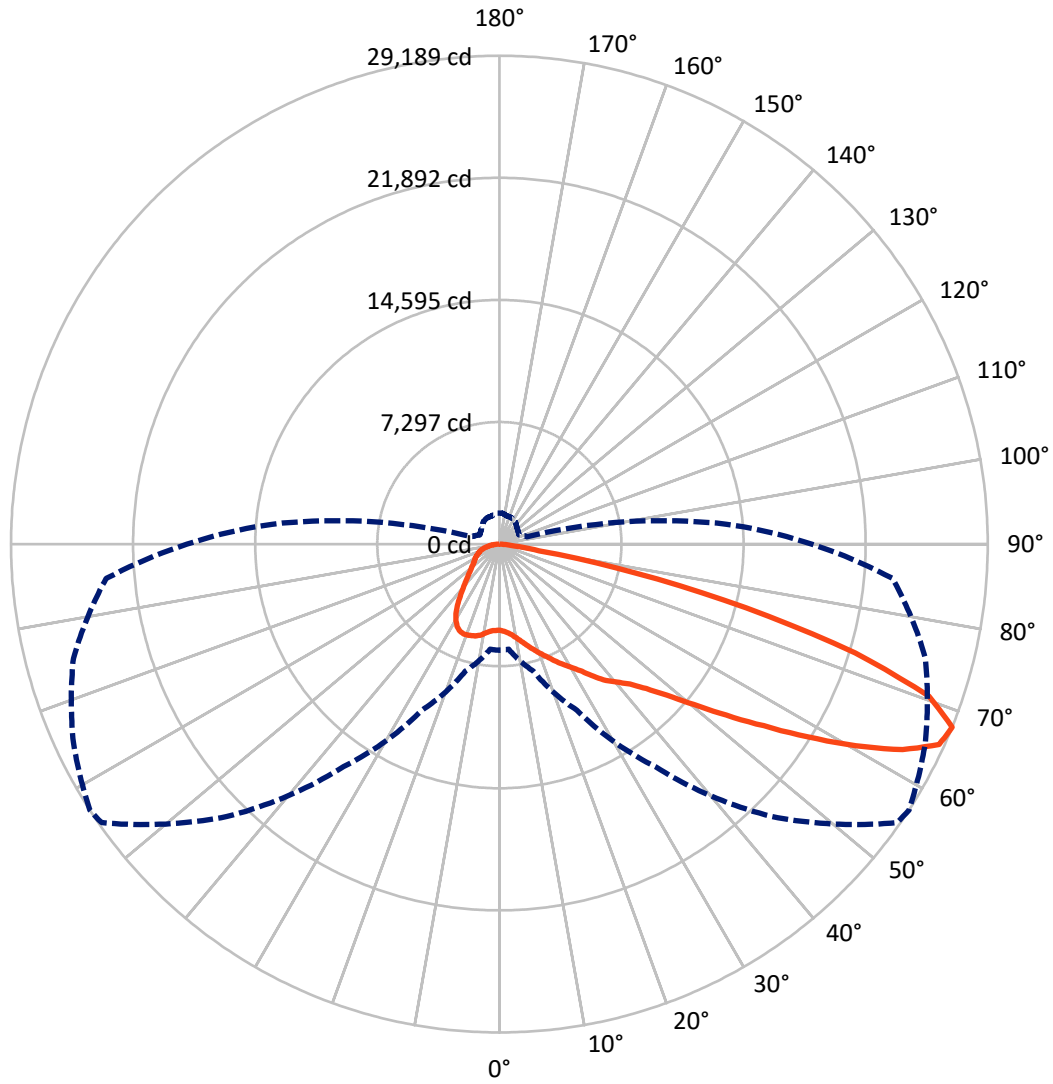
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9393.4	0.0	9393.4
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	33330.5	0.0	33330.5
	% Fixture	78.0	0.0	78.0
Total	Lumens	42723.9	0.0	42723.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.6	1.2
10°-20°	1690.2	4.0
20°-30°	3013.4	7.1
30°-40°	4381.1	10.3
40°-50°	6340.9	14.8
50°-60°	9923.3	23.2
60°-70°	11576.1	27.1
70°-80°	4832.4	11.3
80°-90°	456.0	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°	42723.9	100.0
0°-180°	42723.9	100.0

Coefficient of Utilization



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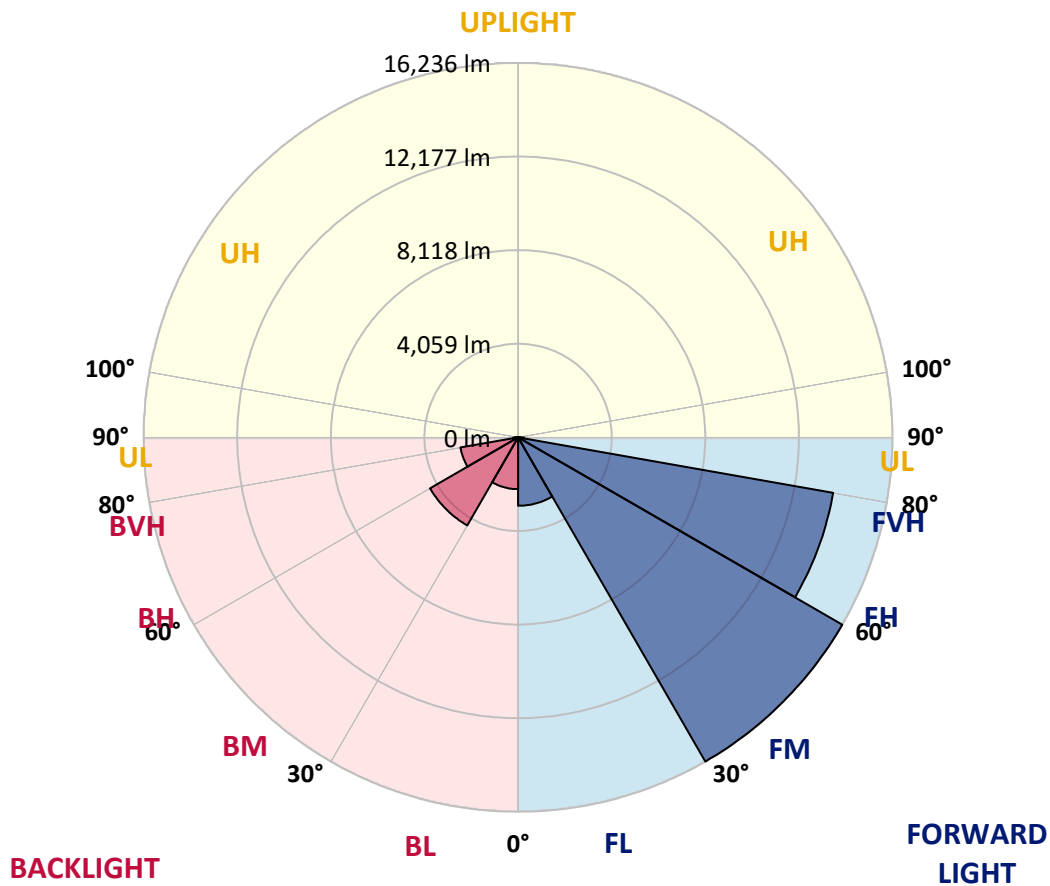
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2967.6	6.9			
FM (30°-60°)	16235.7	38.0			
FH (60°-80°)	13873.2	32.5			G5
FVH (80°-90°)	254.1	0.6			G3/500
BL (0°-30°)	2246.6	5.3	B3/2500		
BM (30°-60°)	4409.5	10.3	B3/5000		
BH (60°-80°)	2535.3	5.9	B4/5000		G4/5000
BVH (80°-90°)	202.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	5147.9	5147.9	5147.9	5147.9	5147.9	5147.9	5147.9	5147.9	5147.9	5147.9	5147.9
2.5°	5221.4	5215.3	5212.2	5230.6	5224.5	5221.4	5221.4	5218.3	5212.2	5187.7	5154.1
5°	5365.2	5353.0	5340.8	5356.1	5343.8	5331.6	5328.5	5322.4	5301.0	5264.2	5212.2
7.5°	5515.2	5503.0	5506.0	5515.2	5506.0	5499.9	5490.7	5484.6	5450.9	5392.8	5322.4
10°	5726.4	5726.4	5732.5	5741.7	5744.8	5735.6	5717.2	5708.0	5668.2	5594.8	5496.8
12.5°	6032.5	6026.3	6026.3	6020.2	6029.4	6020.2	6001.8	5986.5	5937.6	5842.7	5701.9
15°	6436.5	6412.0	6390.5	6350.8	6338.5	6304.8	6311.0	6301.8	6255.9	6127.3	5949.8
17.5°	6868.0	6864.9	6831.3	6751.7	6672.1	6617.0	6629.3	6626.2	6601.7	6427.3	6200.8
20°	7247.5	7262.8	7232.2	7171.0	7063.9	6959.8	6953.7	6969.0	6938.4	6763.9	6448.7
22.5°	7672.9	7660.7	7630.1	7550.5	7470.9	7360.8	7324.0	7311.8	7299.5	7100.6	6702.7
25°	8076.9	8113.7	8073.9	8000.4	7878.0	7758.6	7728.0	7740.3	7706.6	7443.4	6975.1
27.5°	8588.1	8603.4	8578.9	8477.9	8373.8	8205.5	8147.3	8147.3	8135.1	7764.8	7189.4
30°	9132.8	9175.7	9132.8	9050.2	8943.1	8701.3	8575.8	8563.6	8526.8	8095.3	7440.3
32.5°	9680.7	9711.3	9680.7	9601.1	9478.7	9267.5	9086.9	9059.4	9010.4	8456.5	7697.4
35°	10167.3	10194.9	10188.8	10207.1	10106.1	9839.8	9729.7	9717.4	9588.9	8927.8	8046.3
37.5°	10699.9	10733.5	10687.6	10724.4	10684.6	10433.6	10399.9	10338.7	10155.1	9371.6	8413.6
40°	11305.9	11336.5	11263.0	11278.3	11232.4	11091.6	10920.2	10837.6	10565.2	9852.1	8992.1
42.5°	11954.7	12025.1	12058.8	12031.2	11924.1	11844.5	11544.6	11440.5	11214.1	10718.2	9943.9
45°	12894.3	12998.4	13047.4	12977.0	12931.1	12817.8	12450.5	12325.1	12205.7	11939.4	11272.2
47.5°	13907.4	14002.3	14158.4	14189.0	14225.7	14140.0	13622.8	13500.3	13521.8	13491.2	12906.6
50°	14715.4	14795.0	15146.9	15523.4	15835.6	15860.1	15199.0	15067.4	15183.7	15281.6	14874.5
52.5°	15303.0	15373.4	15838.6	16616.0	17323.0	17846.4	17133.3	16983.3	17078.2	17298.5	17111.8
55°	15780.5	15878.4	16365.1	17558.7	18988.0	19814.4	19358.3	19168.6	19128.8	19401.2	19508.3
57.5°	16031.5	16062.1	16744.6	18296.3	20209.2	21745.6	21944.5	21730.3	21350.8	21500.8	22057.8
60°	15459.1	15511.2	16444.6	18486.1	21173.3	23661.5	24659.3	24481.8	23673.8	23756.4	24371.6
62.5°	13876.8	13950.2	15073.5	17583.2	21252.8	24940.9	27165.9	27052.7	25969.2	25522.4	25706.0
65°	11131.4	11155.9	12318.9	15348.9	19670.5	25100.0	28913.5	28886.0	27573.0	26526.3	25739.7
67.5°	6347.7	6304.8	7859.6	10947.8	16233.5	23031.1	29026.8	29189.0	28093.3	26361.0	23597.3
70°	2751.5	2757.6	3473.8	5402.0	10507.1	18614.6	26960.9	27239.4	26587.5	23609.5	18773.8
72.5°	1273.2	1291.6	1600.7	2338.3	4486.8	11547.7	21984.3	22235.3	21675.2	18896.2	13659.5
75°	899.8	915.1	1068.2	1340.5	2062.8	4499.1	14706.2	15232.6	15505.0	14133.9	9001.2
77.5°	682.5	703.9	780.5	930.4	1273.2	1594.6	7036.3	8291.2	9876.6	8793.1	4636.8
80°	434.6	434.6	517.2	621.3	777.4	829.4	2032.2	2408.7	4832.7	3623.8	1821.1
82.5°	293.8	303.0	352.0	394.8	446.8	471.3	872.3	930.4	1395.6	1233.4	749.8
85°	156.1	162.2	183.6	180.6	214.2	186.7	367.3	364.2	511.1	560.1	284.6
87.5°	0.0	0.0	3.1	3.1	6.1	9.2	39.8	42.8	107.1	171.4	94.9
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°	5147.9	5147.9	5147.9	5147.9	5147.9	5147.9	5147.9	5147.9	5147.9	5147.9	5147.9
2.5°	5172.4	5135.7	5154.1	5147.9	5166.3	5166.3	5132.6	5123.5	5126.5	5089.8	5077.5
5°	5218.3	5175.5	5184.7	5172.4	5190.8	5206.1	5190.8	5190.8	5209.2	5181.6	5166.3
7.5°	5322.4	5273.4	5273.4	5258.1	5279.5	5291.8	5279.5	5297.9	5331.6	5304.0	5288.7
10°	5487.7	5429.5	5432.6	5414.2	5423.4	5417.3	5368.3	5353.0	5362.2	5337.7	5325.5
12.5°	5701.9	5622.3	5622.3	5585.6	5564.2	5499.9	5398.9	5362.2	5368.3	5346.9	5337.7
15°	5907.0	5833.5	5818.2	5744.8	5646.8	5527.5	5435.6	5411.2	5417.3	5395.8	5380.5
17.5°	6148.8	6053.9	5998.8	5864.1	5683.5	5561.1	5469.3	5411.2	5362.2	5313.2	5301.0
20°	6372.2	6252.8	6151.8	5943.7	5723.3	5555.0	5383.6	5239.8	5120.4	5056.1	5040.8
22.5°	6601.7	6448.7	6271.2	5998.8	5720.3	5444.8	5129.6	4912.3	4734.8	4639.9	4658.2
25°	6819.0	6626.2	6384.4	6050.8	5622.3	5200.0	4771.5	4447.1	4245.1	4171.6	4150.2
27.5°	6999.6	6760.9	6488.5	6026.3	5420.3	4848.0	4281.8	3920.6	3724.8	3642.1	3620.7
30°	7201.6	6932.3	6638.5	5913.1	5102.0	4355.2	3727.8	3434.0	3293.2	3213.6	3216.7
32.5°	7434.2	7152.6	6849.6	5695.8	4695.0	3822.7	3271.8	3069.8	2956.5	2877.0	2864.7
35°	7746.4	7467.9	6990.4	5368.3	4177.7	3333.0	2959.6	2794.3	2653.5	2549.5	2528.1
37.5°	8132.0	7942.3	7005.7	4930.6	3623.8	2996.3	2736.2	2558.7	2387.3	2249.5	2234.2
40°	8793.1	8575.8	6880.2	4382.8	3152.4	2779.0	2549.5	2344.4	2145.5	1992.5	1971.0
42.5°	9735.8	9288.9	6610.9	3764.5	2797.4	2607.6	2372.0	2111.8	1909.8	1802.7	1787.4
45°	10935.5	10084.7	6206.9	3183.0	2534.2	2439.3	2185.3	1912.9	1805.8	1729.2	1713.9
47.5°	12404.6	11012.1	5741.7	2730.1	2329.1	2286.3	1995.5	1845.5	1750.7	1686.4	1671.1
50°	14161.4	12193.5	5359.1	2375.0	2145.5	2108.8	1934.3	1805.8	1729.2	1677.2	1665.0
52.5°	16166.1	13506.5	5172.4	2121.0	1986.3	1949.6	1912.9	1796.6	1732.3	1692.5	1677.2
55°	18247.3	14889.8	4998.0	1925.1	1851.7	1873.1	1915.9	1827.2	1778.2	1726.2	1710.9
57.5°	20258.2	16187.5	4569.5	1772.1	1753.7	1836.4	1931.2	1857.8	1799.6	1747.6	1729.2
60°	21644.6	16897.6	3844.1	1649.7	1680.3	1790.5	1891.5	1811.9	1738.4	1717.0	1707.8
62.5°	22018.0	16811.9	2984.1	1524.2	1591.5	1689.5	1787.4	1735.4	1658.8	1692.5	1695.6
65°	21145.7	15893.7	2240.4	1401.8	1475.2	1557.8	1680.3	1658.8	1631.3	1723.1	1726.2
67.5°	18675.8	13638.1	1707.8	1294.6	1355.8	1456.8	1646.6	1735.4	1741.5	1857.8	1845.5
70°	14130.8	10188.8	1337.5	1193.6	1264.0	1456.8	1753.7	1793.5	1720.1	1827.2	1802.7
72.5°	9769.5	6724.2	1138.5	1104.9	1150.8	1389.5	1750.7	1750.7	1671.1	1671.1	1625.2
75°	6069.2	3954.3	991.6	991.6	991.6	1215.1	1701.7	1612.9	1472.2	1407.9	1371.2
77.5°	2996.3	1922.1	832.5	863.1	829.4	1016.1	1389.5	1319.1	1233.4	1166.1	1141.6
80°	1279.3	961.0	673.3	707.0	667.2	765.2	1101.8	1086.5	1003.9	915.1	887.6
82.5°	587.6	495.8	538.7	554.0	486.6	575.4	804.9	804.9	759.0	636.6	590.7
85°	251.0	263.2	373.4	373.4	306.1	324.4	431.5	410.1	367.3	299.9	275.5
87.5°	85.7	128.5	189.8	165.3	64.3	27.5	15.3	6.1	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)