

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: P641300

Luminaire Tested: GWS-SA5F-750-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641300
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-750-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43535 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

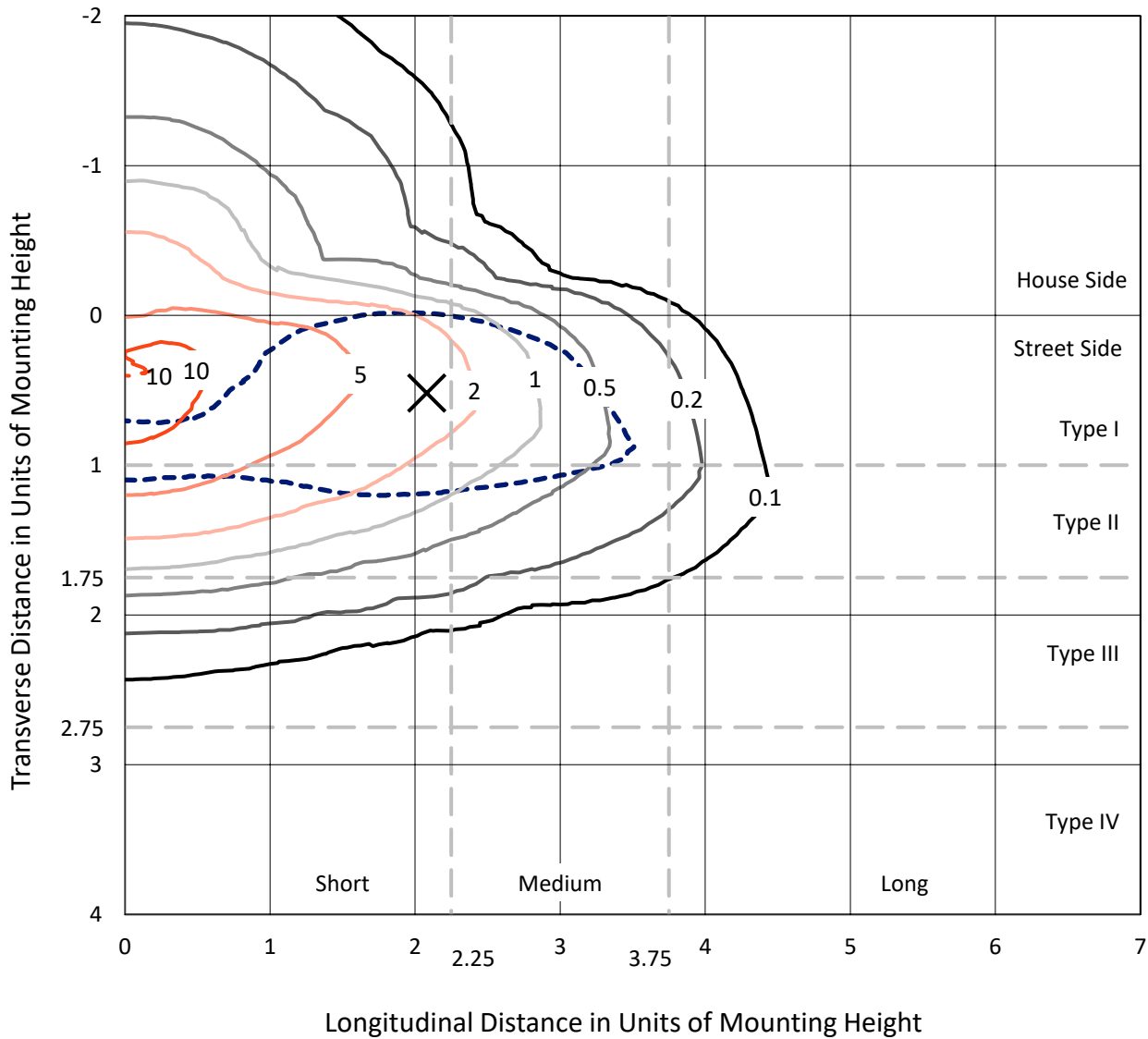
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

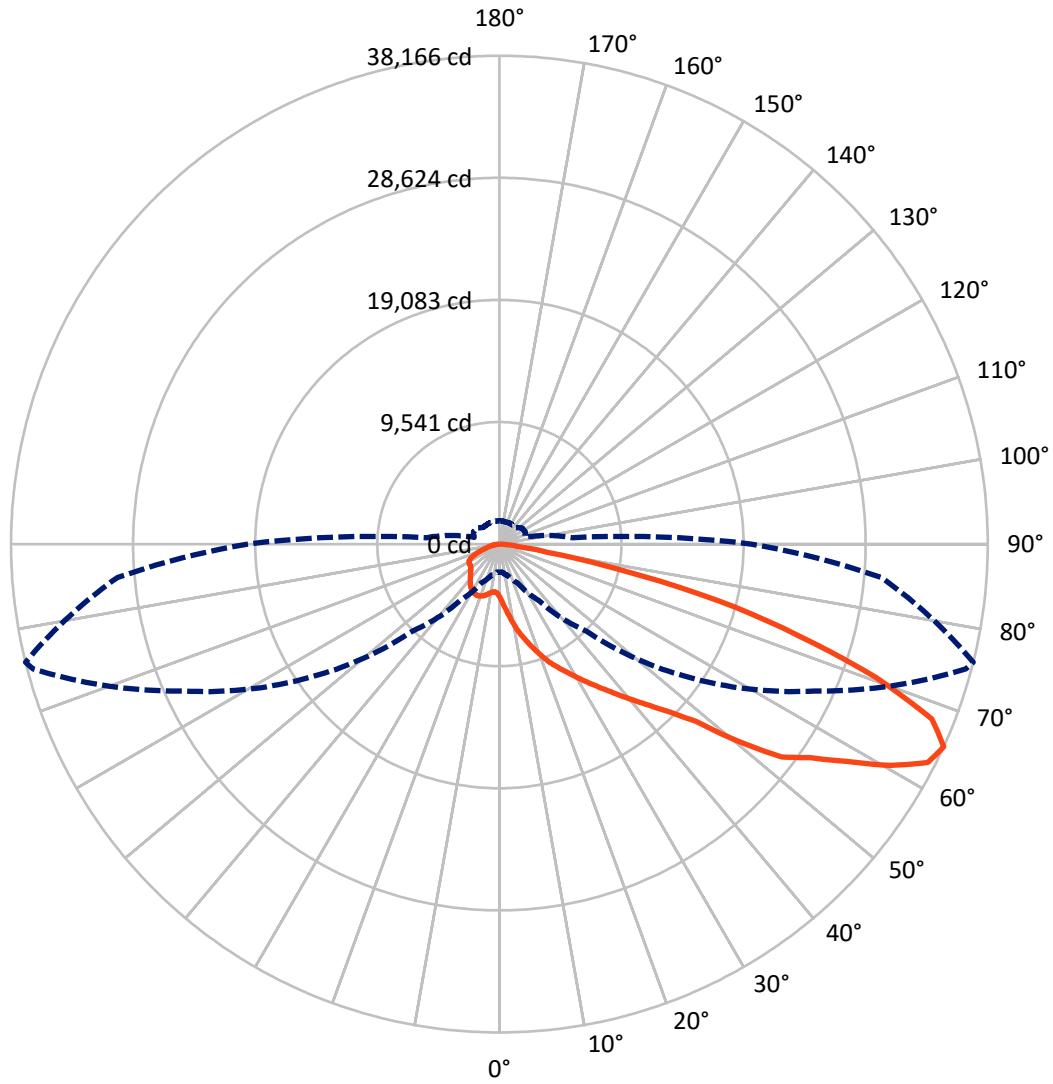
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7276.9	0.0	7276.9
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	36258.1	0.0	36258.1
	% Fixture	83.3	0.0	83.3
Total	Lumens	43535.0	0.0	43535.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	489.8	1.1
10°-20°	1865.5	4.3
20°-30°	3635.7	8.4
30°-40°	6080.5	14.0
40°-50°	8706.1	20.0
50°-60°	10306.8	23.7
60°-70°	8570.1	19.7
70°-80°	3507.1	8.1
80°-90°	373.4	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°	43535.0	100.0
0°-180°	43535.0	100.0

Coefficient of Utilization



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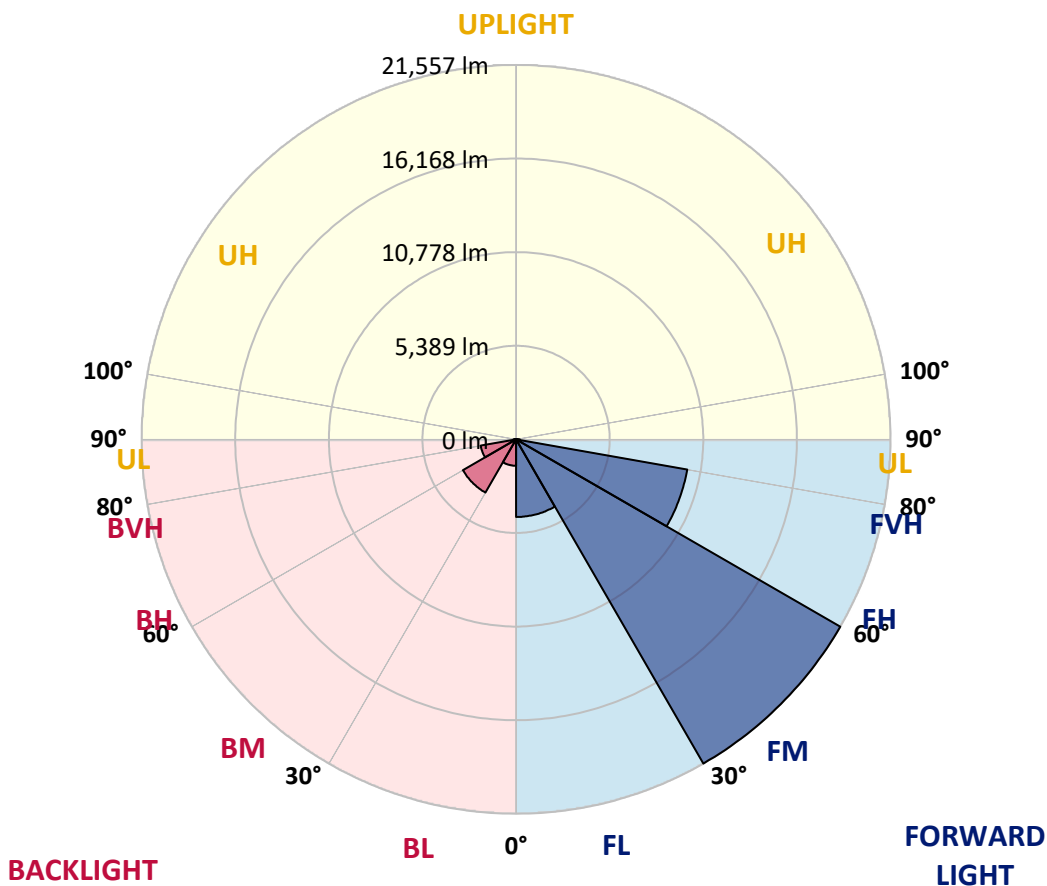
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4468.7	10.3			
FM (30°-60°)	21556.9	49.5			
FH (60°-80°)	10009.8	23.0			G4/12000
FVH (80°-90°)	222.7	0.5			G2/225
BL (0°-30°)	1522.3	3.5	B3/2500		
BM (30°-60°)	3536.4	8.1	B3/5000		
BH (60°-80°)	2067.5	4.7	B3/2500		G3/2500
BVH (80°-90°)	150.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4122.6	4122.6	4122.6	4122.6	4122.6	4122.6	4122.6	4122.6	4122.6	4122.6	4122.6
2.5°	5778.4	5799.8	5729.4	5704.9	5539.7	5316.2	5129.5	4848.0	4587.8	4548.0	4315.4
5°	7339.3	7247.5	7167.9	7115.9	6886.3	6632.3	6237.5	5708.0	5154.0	5086.7	4584.8
7.5°	8266.6	8251.3	8153.4	8122.8	7945.3	7691.2	7284.2	6626.2	5821.2	5711.0	4949.0
10°	9010.4	9001.2	8952.2	8979.7	8817.5	8569.6	8174.8	7495.4	6552.7	6442.5	5356.0
12.5°	9659.2	9674.5	9665.3	9766.3	9683.7	9490.9	9080.7	8334.0	7284.2	7164.8	5851.8
15°	10133.6	10145.8	10191.7	10412.1	10458.0	10418.2	10002.0	9157.3	8006.5	7835.1	6362.9
17.5°	10268.3	10292.7	10402.9	10757.9	11005.9	11171.1	10862.0	9995.9	8716.5	8529.8	6883.2
20°	10448.8	10476.4	10586.6	10956.9	11321.1	11697.5	11642.5	10846.7	9432.7	9279.7	7409.7
22.5°	11284.4	11262.9	11214.0	11391.5	11651.6	12119.9	12257.6	11663.9	10173.4	10026.5	7991.2
25°	12894.2	12854.4	12542.3	12380.1	12294.4	12579.0	12823.8	12407.6	10895.7	10675.3	8532.9
27.5°	14669.4	14647.9	14250.1	13864.4	13338.0	13215.6	13359.4	13056.4	11596.5	11373.1	9004.2
30°	16349.6	16285.4	15869.1	15385.5	14681.6	14155.2	13944.0	13693.0	12364.8	12132.1	9555.1
32.5°	17852.4	17769.7	17280.0	16744.4	16006.8	15385.5	14755.1	14369.4	13234.0	12964.6	10118.3
35°	19085.8	19003.2	18501.2	17931.9	17120.9	16661.8	15798.7	15104.0	14118.5	13846.1	10782.4
37.5°	20040.7	19964.2	19440.8	18880.7	18173.7	17809.5	17059.7	15930.3	15137.6	14853.0	11486.4
40°	20576.3	20521.2	20101.9	19658.1	19064.4	18749.1	18412.5	16974.0	16279.2	15994.6	12315.8
42.5°	20738.5	20701.8	20408.0	20178.4	19777.5	19538.8	19731.6	18201.3	17497.3	17249.4	13249.3
45°	20331.4	20331.4	20245.7	20362.1	20380.4	20377.4	21053.7	19587.7	18994.0	18721.6	14565.3
47.5°	19290.8	19358.2	19483.7	20056.0	20658.9	21163.9	22599.3	21436.3	20919.1	20695.7	16429.2
50°	17387.2	17570.8	17999.3	19116.4	20398.8	21684.2	24062.3	24169.4	24662.2	24267.4	19171.5
52.5°	14599.0	14571.4	15664.1	17255.6	19211.3	21705.6	24867.2	26581.2	27906.4	27634.0	21209.8
55°	11602.7	11556.8	12575.9	14770.4	17390.2	20885.4	25350.8	27686.0	29706.0	29461.2	23043.1
57.5°	8884.9	8826.7	9732.6	11712.8	14819.3	19143.9	25259.0	29002.1	32182.0	32056.5	25534.4
60°	6115.0	6044.6	6892.4	8624.7	11777.1	16481.2	24242.9	29678.5	35080.4	35123.2	28200.2
62.5°	3672.7	3632.9	4248.1	5591.7	8471.7	13181.9	21864.8	29268.3	37388.1	37580.9	29914.1
65°	2215.9	2188.3	2549.5	3336.0	5374.4	9619.4	18198.2	27171.8	37721.7	38165.5	29953.9
67.5°	1612.9	1616.0	1720.0	2032.2	3134.0	6213.0	13656.3	23413.5	35983.3	36442.3	28065.5
70°	1401.7	1407.9	1463.0	1533.4	1894.5	3556.4	8878.7	18482.9	30844.5	31199.6	23538.9
72.5°	1245.7	1245.7	1282.4	1319.1	1481.3	2166.9	4756.1	12918.7	24343.9	24438.7	17965.6
75°	1095.7	1086.5	1104.9	1123.2	1285.4	1515.0	2313.8	9001.2	17980.9	17760.6	11611.8
77.5°	872.3	863.1	866.1	884.5	1031.4	1083.4	1172.2	5622.3	10133.6	9564.3	5129.5
80°	621.3	615.2	648.8	694.8	762.1	664.1	734.5	2720.9	4018.5	3740.0	1989.4
82.5°	370.3	382.6	434.6	471.3	526.4	416.2	474.4	909.0	1423.2	1386.4	808.0
85°	52.0	55.1	156.1	180.6	226.5	162.2	251.0	410.1	569.3	609.1	284.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	21.4	73.5	162.2	165.3	70.4
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°	4122.6	4122.6	4122.6	4122.6	4122.6	4122.6	4122.6	4122.6	4122.6	4122.6	4122.6
2.5°	4196.1	4052.2	3847.2	3675.8	3531.9	3415.6	3317.7	3244.2	3222.8	3192.2	3192.2
5°	4349.1	4088.9	3721.7	3461.5	3311.5	3222.8	3161.6	3131.0	3115.7	3097.3	3088.1
7.5°	4560.3	4196.1	3700.2	3437.0	3320.7	3265.6	3225.9	3207.5	3195.2	3176.9	3176.9
10°	4851.0	4355.2	3767.6	3522.7	3430.9	3375.8	3329.9	3299.3	3271.8	3244.2	3238.1
12.5°	5166.3	4563.3	3890.0	3639.0	3541.1	3473.8	3409.5	3363.6	3329.9	3296.2	3287.1
15°	5515.2	4777.6	4021.6	3752.3	3629.8	3538.0	3461.5	3391.1	3345.2	3296.2	3290.1
17.5°	5858.0	4994.9	4131.8	3828.8	3672.7	3559.5	3449.3	3357.5	3299.3	3244.2	3228.9
20°	6268.1	5212.2	4208.3	3850.2	3663.5	3513.5	3381.9	3265.6	3201.4	3137.1	3127.9
22.5°	6644.5	5414.2	4245.0	3819.6	3593.1	3415.6	3262.6	3137.1	3066.7	3002.4	2990.2
25°	7008.7	5591.7	4229.7	3746.2	3486.0	3280.9	3121.8	2996.3	2929.0	2861.6	2843.3
27.5°	7360.7	5711.0	4168.5	3632.9	3351.3	3131.0	2977.9	2864.7	2806.6	2748.4	2723.9
30°	7706.5	5821.2	4073.6	3486.0	3179.9	2974.9	2849.4	2769.8	2711.7	2650.5	2632.1
32.5°	8055.5	5900.8	3929.8	3314.6	3005.5	2837.2	2760.6	2702.5	2641.3	2580.1	2561.7
35°	8407.4	5934.5	3755.3	3118.7	2858.6	2748.4	2720.9	2653.5	2570.9	2497.4	2473.0
37.5°	8826.7	5965.1	3538.0	2925.9	2730.0	2705.6	2699.4	2598.4	2500.5	2399.5	2372.0
40°	9331.7	6004.9	3314.6	2751.5	2626.0	2690.3	2665.8	2528.0	2332.2	2234.2	2203.6
42.5°	9950.0	6078.3	3082.0	2592.3	2549.5	2632.1	2604.6	2356.6	2225.0	2170.0	2154.6
45°	10858.9	6347.6	2849.4	2466.8	2491.3	2549.5	2506.6	2255.6	2203.6	2166.9	2148.5
47.5°	12478.0	6760.8	2647.4	2372.0	2445.4	2476.0	2310.7	2228.1	2188.3	2139.3	2117.9
50°	14161.3	6941.4	2485.2	2313.8	2393.4	2408.7	2203.6	2191.4	2163.8	2111.8	2090.4
52.5°	15299.8	6916.9	2387.3	2292.4	2350.5	2292.4	2154.6	2151.6	2133.2	2072.0	2047.5
55°	16585.3	6959.8	2344.4	2298.5	2332.2	2096.5	2093.4	2102.6	2093.4	2026.1	2013.9
57.5°	18320.6	7091.4	2323.0	2319.9	2319.9	2001.6	2035.3	2047.5	2029.2	1998.6	1989.4
60°	19988.7	7100.5	2283.2	2344.4	2310.7	1943.5	1968.0	1980.2	1958.8	1952.7	1949.6
62.5°	20616.1	6659.8	2194.4	2326.0	2274.0	1879.2	1897.6	1903.7	1882.3	1897.6	1894.5
65°	19682.6	5723.3	2047.5	2237.3	2160.8	1821.0	1808.8	1824.1	1787.4	1827.2	1830.2
67.5°	17475.9	4548.0	1824.1	2069.0	2001.6	1756.8	1732.3	1732.3	1671.1	1732.3	1729.2
70°	14090.9	3213.6	1496.6	1799.6	1827.2	1680.3	1668.0	1597.6	1499.7	1591.5	1582.3
72.5°	10681.4	2307.7	1178.3	1423.2	1573.1	1573.1	1576.2	1456.8	1343.6	1386.4	1349.7
75°	6766.9	1625.2	942.7	1089.6	1233.4	1380.3	1450.7	1230.4	1129.4	1111.0	1092.6
77.5°	3048.3	1068.1	734.5	835.5	875.3	1089.6	1325.2	1059.0	921.2	881.4	869.2
80°	1276.3	664.1	523.4	590.7	538.7	915.1	1169.1	823.3	676.4	621.3	581.5
82.5°	560.1	394.8	333.6	318.3	336.7	679.4	872.3	547.8	422.4	572.3	578.4
85°	235.7	208.1	171.4	156.1	137.7	260.1	410.1	214.2	263.2	150.0	122.4
87.5°	55.1	61.2	45.9	30.6	18.4	3.1	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)