

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: P641224

Luminaire Tested: GWS-SA5F-740-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641224
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-740-U-SL3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34953.8 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

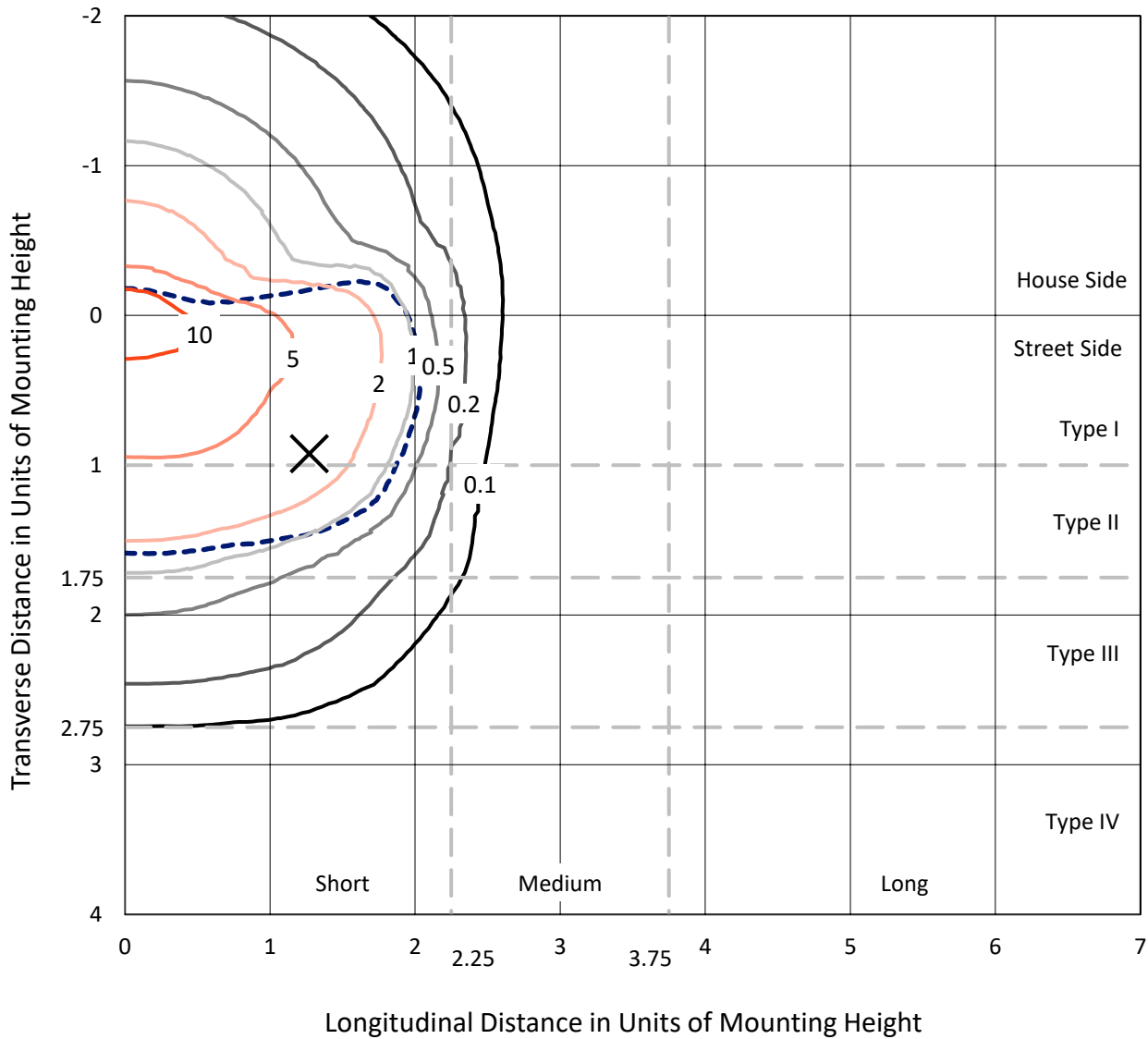
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

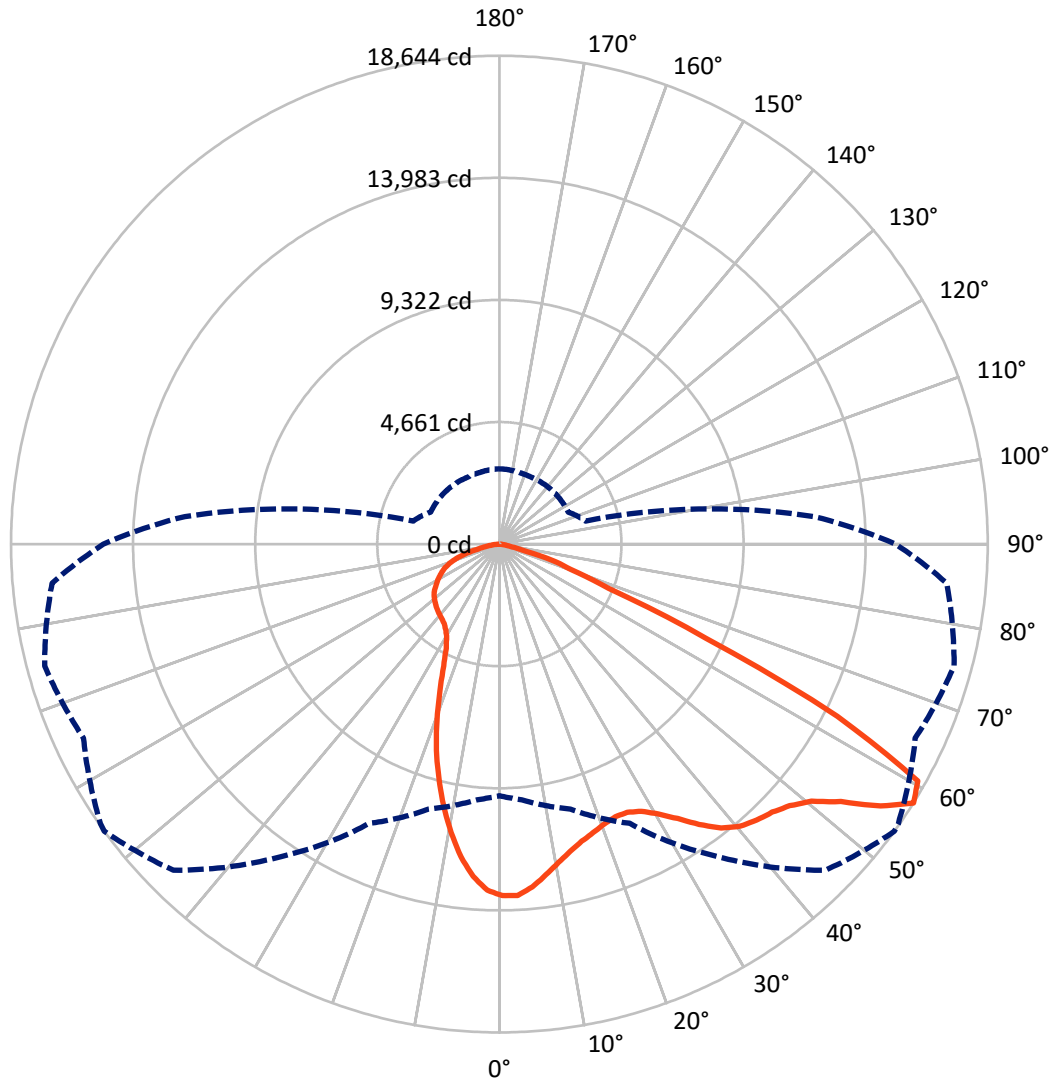
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10161.5	0.0	10161.5
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	24792.3	0.0	24792.3
	% Fixture	70.9	0.0	70.9
Total	Lumens	34953.8	0.0	34953.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1179.6	3.4
10°-20°	2814.6	8.1
20°-30°	3895.0	11.1
30°-40°	5412.1	15.5
40°-50°	7147.7	20.4
50°-60°	8494.0	24.3
60°-70°	4705.8	13.5
70°-80°	1171.8	3.4
80°-90°	133.3	0.4
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°	34953.8	100.0
0°-180°	34953.8	100.0

Coefficient of Utilization



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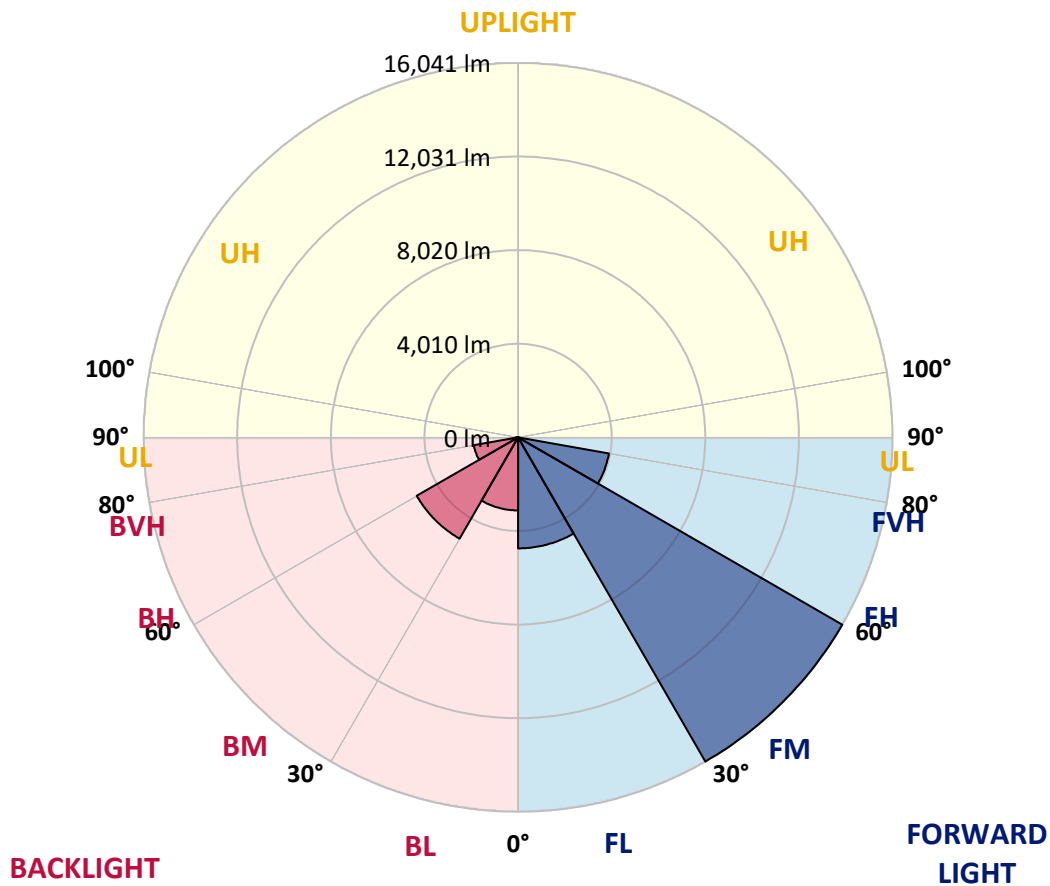
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4757.8	13.6			
FM (30°-60°)	16040.9	45.9			
FH (60°-80°)	3952.0	11.3			G2/5000
FVH (80°-90°)	41.7	0.1			G1/100
BL (0°-30°)	3131.3	9.0	B4/5000		
BM (30°-60°)	5012.9	14.3	B4/8500		
BH (60°-80°)	1925.7	5.5	B3/2500		G3/2500
BVH (80°-90°)	91.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	13419.6	13419.6	13419.6	13419.6	13419.6	13419.6	13419.6	13419.6	13419.6	13419.6	13419.6
2.5°	13168.2	13195.2	13213.1	13275.9	13329.8	13377.7	13428.5	13428.5	13425.5	13416.6	13398.6
5°	12647.6	12677.5	12719.4	12806.2	12922.9	13006.6	13144.3	13156.3	13216.1	13240.0	13228.1
7.5°	12043.2	12052.2	12106.0	12219.7	12405.2	12554.8	12752.3	12776.3	12919.9	13003.7	12988.7
10°	11381.9	11352.0	11447.8	11615.3	11857.7	12109.0	12363.3	12384.3	12614.7	12773.3	12761.3
12.5°	10777.5	10780.5	10876.3	11079.7	11381.9	11693.1	12034.2	12082.1	12366.3	12569.8	12548.9
15°	10271.9	10283.8	10400.5	10630.9	10975.0	11346.0	11770.9	11815.8	12174.8	12444.1	12384.3
17.5°	9867.9	9879.9	9981.6	10244.9	10613.0	11061.8	11579.4	11624.3	12070.1	12390.3	12267.6
20°	9589.7	9583.7	9682.4	9933.8	10313.8	10801.5	11411.9	11477.7	12037.2	12411.2	12189.8
22.5°	9476.0	9473.0	9544.8	9751.2	10107.3	10601.0	11310.1	11399.9	12073.1	12504.0	12141.9
25°	9532.8	9520.9	9583.7	9736.3	10020.5	10523.2	11340.0	11435.8	12225.7	12695.5	12150.9
27.5°	9709.4	9694.4	9748.3	9885.9	10101.3	10604.0	11549.5	11660.2	12548.9	13045.5	12270.6
30°	9978.6	9969.7	10023.5	10155.2	10343.7	10873.3	11950.4	12076.1	13048.5	13590.1	12530.9
32.5°	10292.8	10277.9	10373.6	10526.2	10744.6	11364.0	12489.0	12653.6	13641.0	14290.3	12967.8
35°	10645.9	10633.9	10765.6	10987.0	11301.2	12046.2	13141.3	13320.8	14245.4	15083.2	13548.2
37.5°	10990.0	10990.0	11244.3	11573.4	11968.4	12788.2	13754.7	13868.4	14664.3	15786.3	14170.6
40°	11295.2	11313.1	11696.1	12189.8	12692.5	13458.5	14158.6	14254.4	14849.8	16271.0	14712.1
42.5°	11633.3	11648.2	12094.1	12740.4	13338.8	14000.0	14404.0	14451.8	14885.7	16513.4	15095.1
45°	11902.6	11923.5	12477.0	13168.2	13901.3	14406.9	14598.4	14640.3	14936.6	16645.0	15373.4
47.5°	12043.2	12073.1	12707.4	13512.3	14281.3	14772.0	14918.6	14936.6	15146.0	16875.4	15708.5
50°	12019.3	12079.1	12794.2	13682.9	14562.5	15140.0	15433.2	15463.2	15573.9	17213.5	16100.5
52.5°	12231.7	12258.6	12979.7	13886.3	14963.5	15819.2	16327.9	16369.8	16318.9	17467.9	16333.9
55°	11878.6	12007.3	12749.3	13856.4	15573.9	16869.4	17653.4	17632.4	16995.1	17752.1	16722.8
57.5°	9607.6	9796.1	10475.3	11761.9	14568.5	17605.5	18643.8	18592.9	17518.7	17970.5	17144.7
60°	6651.4	6681.4	7294.7	8207.3	11244.3	15552.9	18353.5	18464.2	17614.5	17695.3	16363.8
62.5°	5319.9	5311.0	5367.8	5391.8	7151.1	10933.1	14487.7	14891.7	14634.3	13787.6	11597.4
65°	4542.0	4574.9	4742.5	4655.7	4667.7	6157.7	8656.1	8713.0	8533.5	8228.3	6133.8
67.5°	3554.6	3611.5	3907.7	4245.8	4138.1	3964.5	4491.1	4464.2	3518.7	2722.8	2250.1
70°	2226.1	2262.0	2579.2	3333.2	3602.5	3255.4	2887.4	2875.4	1885.0	1549.9	1699.5
72.5°	1298.6	1304.6	1394.3	1858.1	2390.7	2226.1	2124.4	2046.6	1211.8	1235.7	1355.4
75°	715.1	715.1	712.1	801.9	942.5	834.8	807.9	786.9	810.9	918.6	1008.3
77.5°	149.6	152.6	161.6	212.4	275.3	335.1	421.9	424.9	529.6	613.4	685.2
80°	68.8	71.8	89.8	113.7	146.6	194.5	257.3	260.3	320.2	386.0	433.9
82.5°	35.9	38.9	47.9	59.8	77.8	101.7	143.6	143.6	191.5	227.4	257.3
85°	12.0	12.0	18.0	23.9	32.9	41.9	56.8	56.8	83.8	110.7	128.7
87.5°	0.0	0.0	0.0	0.0	3.0	6.0	12.0	12.0	15.0	18.0	29.9
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°	13419.6	13419.6	13419.6	13419.6	13419.6	13419.6	13419.6	13419.6	13419.6	13419.6	13419.6
2.5°	13359.7	13267.0	13270.0	13287.9	13231.1	13144.3	13087.4	13015.6	12970.7	12961.8	12994.7
5°	13168.2	13060.5	12985.7	12907.9	12746.3	12554.8	12405.2	12282.6	12201.8	12171.9	12135.9
7.5°	12904.9	12764.3	12575.8	12357.4	12064.1	11723.0	11483.7	11259.3	11103.7	11058.8	11037.8
10°	12641.6	12438.1	12103.0	11696.1	11208.4	10747.6	10313.8	9981.6	9718.3	9568.7	9616.6
12.5°	12369.3	12118.0	11594.4	10969.0	10289.8	9595.7	9027.2	8476.6	8051.7	7839.3	7776.5
15°	12130.0	11788.9	11058.8	10212.0	9308.4	8434.7	7611.9	6786.1	6247.5	5954.3	5873.5
17.5°	11926.5	11483.7	10493.3	9440.1	8359.9	7115.2	6103.9	5337.9	4969.9	4808.3	4796.3
20°	11726.0	11184.5	9933.8	8608.3	7264.8	5870.5	4966.9	4607.8	4476.2	4419.3	4416.3
22.5°	11546.5	10870.3	9344.3	7776.5	6175.7	4934.0	4437.3	4281.7	4245.8	4245.8	4239.8
25°	11393.9	10556.1	8739.9	6893.8	5191.3	4392.4	4162.0	4096.2	4111.1	4138.1	4141.1
27.5°	11331.1	10310.8	8156.5	5987.2	4512.1	4078.2	3973.5	3964.5	4006.4	4048.3	4054.3
30°	11396.9	10143.2	7558.0	5119.5	4105.2	3886.7	3838.9	3856.8	3907.7	3949.6	3949.6
32.5°	11600.4	10059.4	6947.7	4485.2	3868.8	3752.1	3737.1	3755.1	3794.0	3817.9	3820.9
35°	11944.5	10092.3	6316.3	4057.3	3716.2	3653.4	3650.4	3662.3	3677.3	3692.2	3695.2
37.5°	12378.3	10239.0	5640.1	3808.9	3617.4	3581.5	3575.6	3572.6	3575.6	3575.6	3578.5
40°	12803.2	10460.4	5035.7	3662.3	3548.6	3518.7	3503.7	3482.8	3479.8	3473.8	3470.8
42.5°	13117.4	10630.9	4554.0	3557.6	3485.8	3449.9	3431.9	3399.0	3396.0	3393.0	3390.0
45°	13353.7	10774.5	4153.0	3455.9	3420.0	3387.1	3348.2	3318.2	3324.2	3330.2	3330.2
47.5°	13620.0	10900.2	3859.8	3360.1	3339.2	3306.3	3258.4	3237.4	3258.4	3279.3	3279.3
50°	13943.2	11076.7	3620.4	3264.4	3255.4	3216.5	3174.6	3165.6	3189.6	3219.5	3219.5
52.5°	14179.6	11229.3	3449.9	3168.6	3168.6	3117.8	3081.9	3078.9	3105.8	3135.7	3138.7
55°	14622.4	11585.4	3390.0	3057.9	3046.0	3007.1	2980.1	2959.2	2992.1	3019.0	3019.0
57.5°	15122.1	12058.2	3405.0	2899.3	2884.4	2872.4	2851.5	2827.5	2836.5	2866.4	2869.4
60°	14062.9	11142.6	3240.4	2740.8	2731.8	2725.8	2698.9	2657.0	2669.0	2692.9	2695.9
62.5°	9823.1	7405.4	2621.1	2543.3	2573.2	2570.2	2534.3	2486.4	2489.4	2522.3	2522.3
65°	5098.5	4006.4	2300.9	2363.8	2408.6	2390.7	2330.8	2289.0	2283.0	2324.9	2315.9
67.5°	2199.2	2187.2	2094.5	2175.3	2223.1	2184.2	2121.4	2052.6	2058.6	2073.5	2061.6
70°	1771.3	1825.2	1864.1	1950.8	1989.7	1917.9	1849.1	1810.2	1777.3	1774.3	1753.4
72.5°	1415.3	1490.1	1576.8	1666.6	1678.6	1606.8	1520.0	1484.1	1433.2	1430.2	1409.3
75°	1065.2	1128.0	1196.8	1268.6	1268.6	1199.8	1143.0	1125.0	1065.2	1047.2	1029.3
77.5°	727.1	766.0	819.8	837.8	855.7	828.8	772.0	742.0	673.2	655.3	631.3
80°	457.8	484.7	517.6	529.6	547.6	514.6	469.8	436.8	389.0	374.0	362.0
82.5°	275.3	293.2	314.2	320.2	335.1	311.2	269.3	245.4	218.4	206.5	197.5
85°	140.6	149.6	161.6	164.6	161.6	137.6	122.7	110.7	92.8	89.8	83.8
87.5°	35.9	41.9	44.9	41.9	38.9	29.9	20.9	15.0	6.0	6.0	3.0
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)