

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: P643502

Luminaire Tested: GWS-SA6F-722-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643502
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-722-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31289.9 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

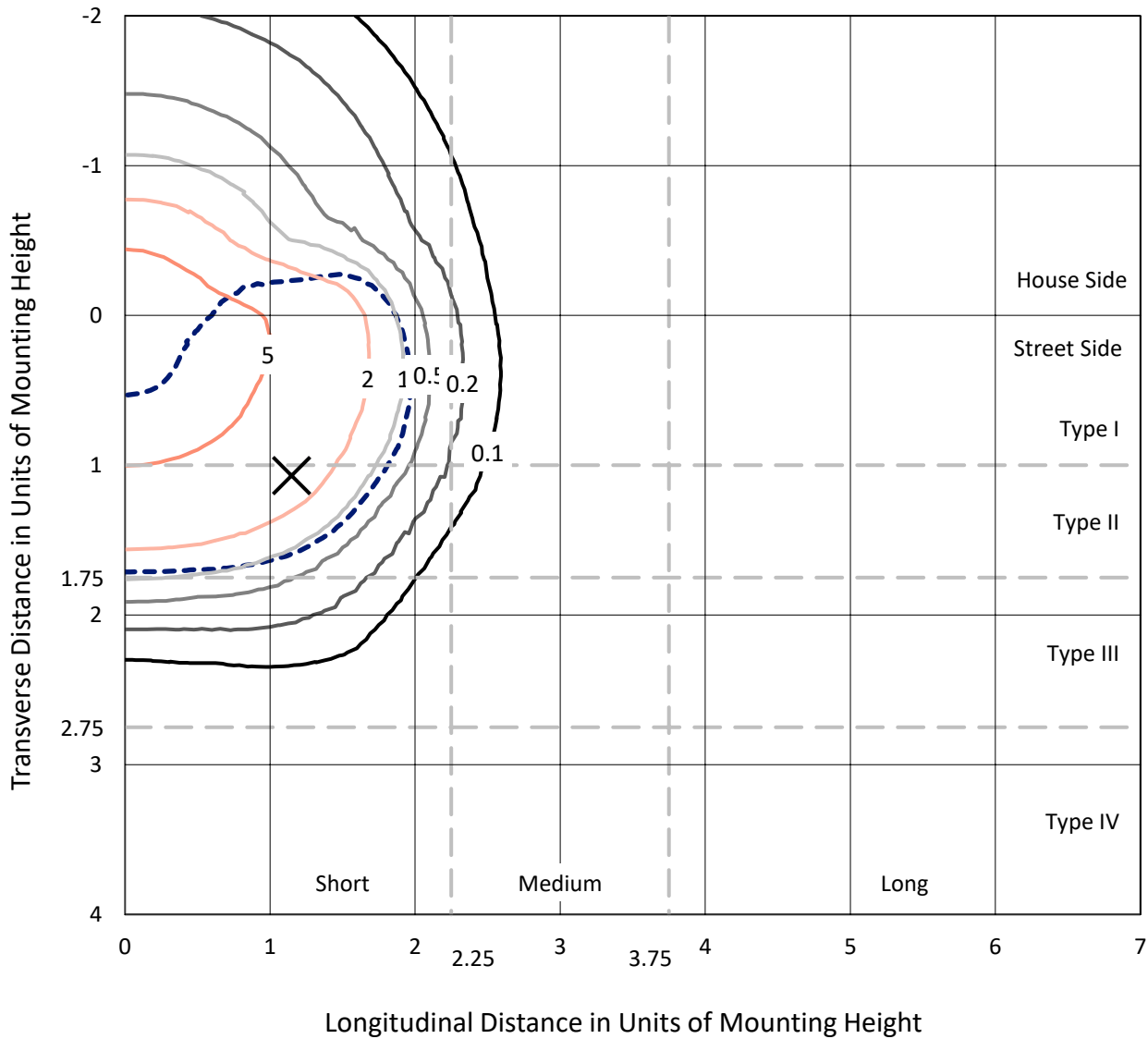
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

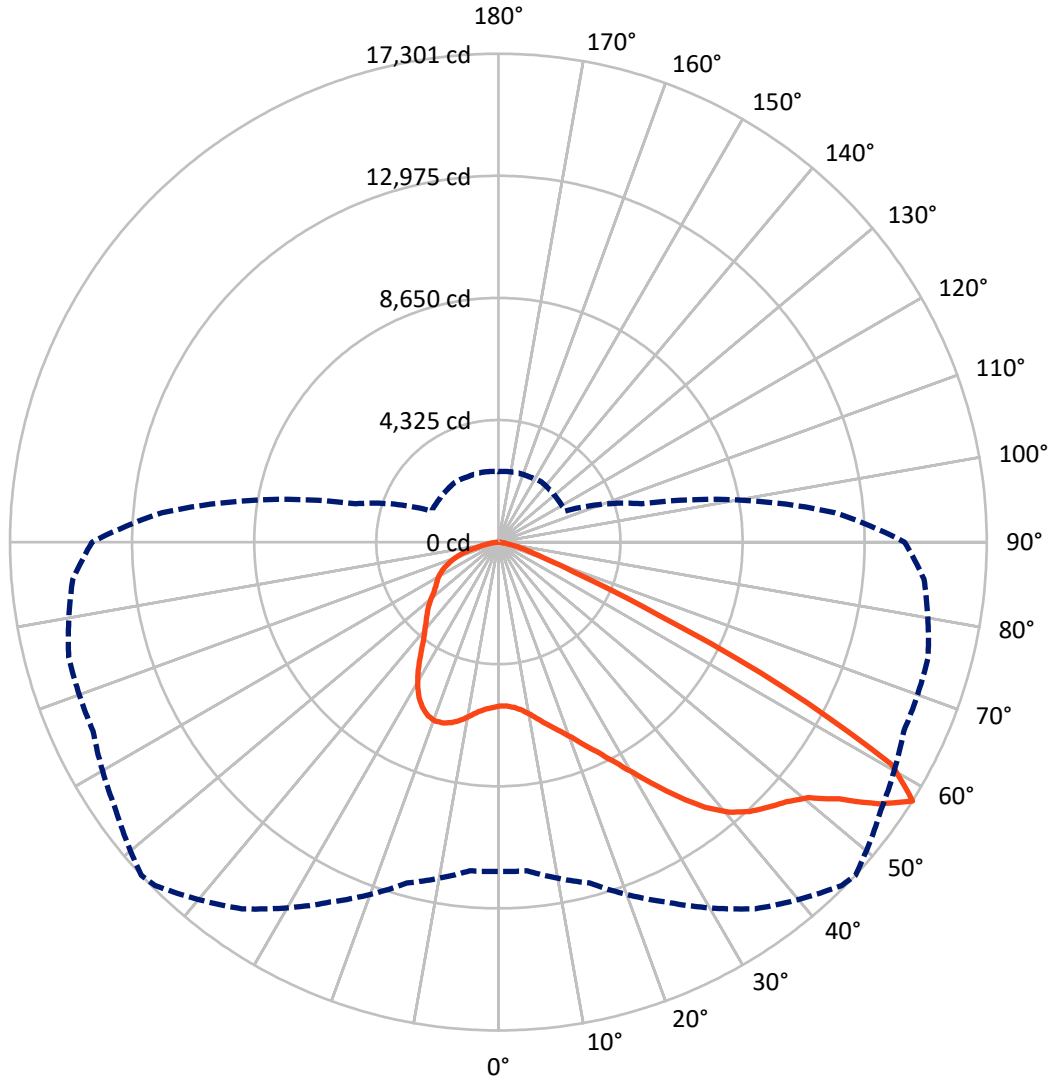
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9903.2	0.0	9903.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	21386.7	0.0	21386.7
	% Fixture	68.4	0.0	68.4
Total	Lumens	31289.9	0.0	31289.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	572.3	1.8
10°-20°	1882.4	6.0
20°-30°	3389.5	10.8
30°-40°	5119.5	16.4
40°-50°	6894.0	22.0
50°-60°	8284.1	26.5
60°-70°	4034.5	12.9
70°-80°	993.9	3.2
80°-90°	119.5	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°	31289.9	100.0
0°-180°	31289.9	100.0

Coefficient of Utilization



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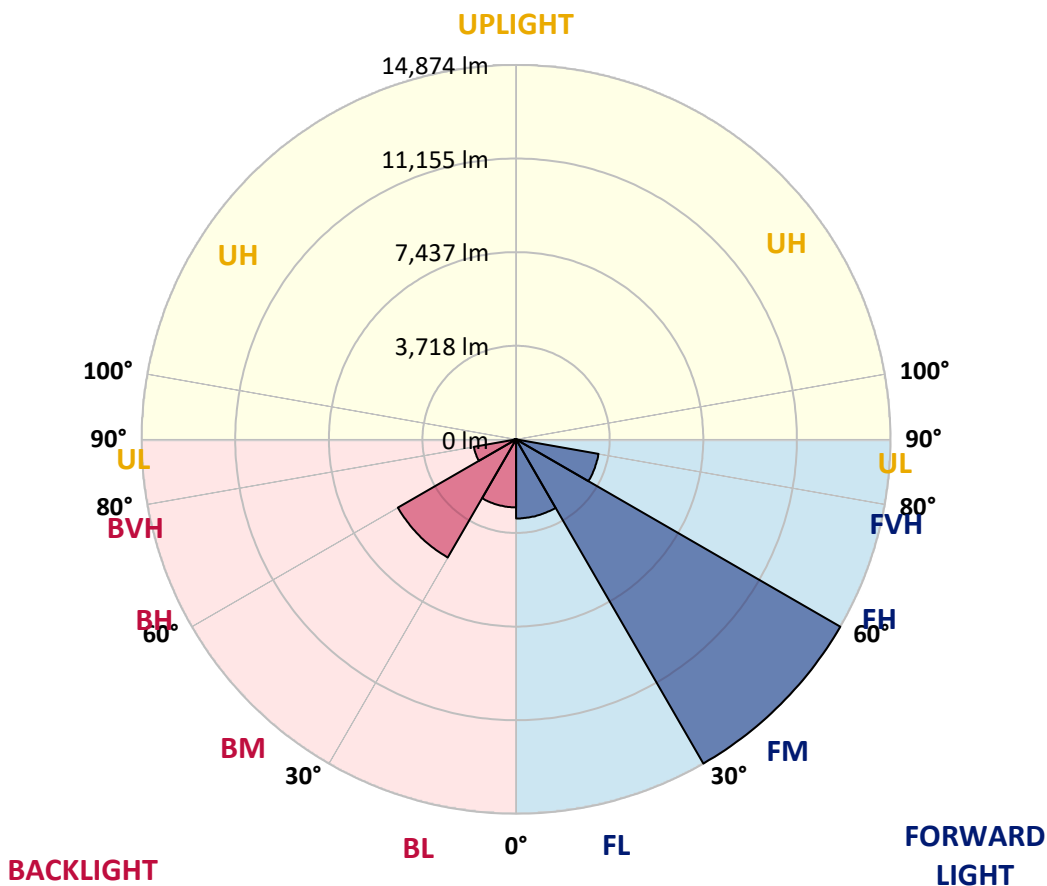
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3142.9	10.0			
FM (30°-60°)	14873.7	47.5			
FH (60°-80°)	3325.2	10.6			G2/5000
FVH (80°-90°)	44.9	0.1			G1/100
BL (0°-30°)	2701.4	8.6	B4/5000		
BM (30°-60°)	5423.9	17.3	B4/8500		
BH (60°-80°)	1703.3	5.4	B3/2500		G3/2500
BVH (80°-90°)	74.6	0.2			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°	47°	55°	65°	75°	85°
0°	5802.8	5802.8	5802.8	5802.8	5802.8	5802.8	5802.8	5802.8	5802.8	5802.8	5802.8
2.5°	5792.2	5789.6	5789.6	5805.4	5805.4	5810.6	5818.5	5826.4	5829.0	5815.9	5787.0
5°	5855.3	5855.3	5855.3	5868.5	5868.5	5873.7	5884.2	5886.9	5884.2	5863.2	5834.3
7.5°	5955.2	5955.2	5957.8	5973.6	5986.7	5994.6	6013.0	6010.4	6002.5	5968.3	5931.5
10°	6118.1	6126.0	6133.9	6152.3	6178.6	6197.0	6210.1	6210.1	6199.6	6147.0	6099.7
12.5°	6349.4	6359.9	6367.8	6383.6	6404.6	6436.1	6465.0	6465.0	6451.9	6386.2	6315.2
15°	6620.1	6630.6	6628.0	6633.2	6672.6	6717.3	6741.0	6756.7	6762.0	6670.0	6559.6
17.5°	6930.2	6940.7	6930.2	6914.4	6919.7	6990.6	7032.7	7090.5	7124.7	7001.2	6825.1
20°	7211.4	7200.9	7200.9	7211.4	7227.2	7313.9	7377.0	7471.6	7513.6	7363.8	7090.5
22.5°	7508.4	7532.0	7521.5	7521.5	7584.6	7729.1	7805.3	7928.9	7973.5	7779.1	7411.1
25°	7892.1	7913.1	7907.8	7913.1	7986.7	8191.7	8267.9	8496.5	8541.2	8262.6	7765.9
27.5°	8312.6	8346.7	8362.5	8357.2	8475.5	8743.6	8838.2	9156.2	9237.6	8804.0	8144.4
30°	8859.2	8896.0	8909.1	8903.9	9043.2	9408.5	9516.2	9878.9	9994.5	9445.2	8625.3
32.5°	9492.6	9529.3	9568.8	9584.5	9763.2	10136.4	10291.5	10667.3	10832.9	10186.4	9206.1
35°	10120.7	10152.2	10228.4	10351.9	10596.3	10977.4	11114.1	11484.6	11644.9	10956.4	9907.8
37.5°	10814.5	10835.5	10901.2	11072.0	11424.2	11786.9	11923.5	12278.3	12296.7	11700.1	10701.5
40°	11574.0	11574.0	11560.8	11729.0	12097.0	12462.3	12580.5	12785.5	12677.8	12273.0	11474.1
42.5°	12217.9	12207.3	12217.9	12375.5	12648.9	12945.8	13048.3	13008.9	12872.2	12711.9	12173.2
45°	12798.7	12806.5	12901.1	13022.0	13164.0	13340.0	13400.5	13177.1	13053.6	13064.1	12733.0
47.5°	13192.9	13200.7	13421.5	13623.9	13710.6	13765.8	13739.5	13429.4	13366.3	13484.6	13164.0
50°	13245.4	13287.5	13668.5	14083.8	14299.3	14307.2	14233.6	13855.1	13836.7	13970.8	13395.2
52.5°	13255.9	13298.0	13773.7	14522.7	15082.4	15200.7	15116.6	14722.4	14530.5	14396.5	13679.1
55°	13216.5	13263.8	13789.4	14817.0	15889.3	16362.3	16370.2	15813.0	15200.7	15111.3	14488.5
57.5°	11668.6	11687.0	12501.7	14068.0	15857.7	17198.0	17300.5	16543.6	15844.6	15760.5	15137.6
60°	8128.6	8202.2	9087.8	11156.1	13321.6	15684.3	16015.4	15794.6	15326.8	14714.5	12987.9
62.5°	4070.9	4133.9	5022.2	6977.5	9187.7	11053.6	11408.4	11642.3	11752.7	11095.7	8843.4
65°	1752.9	1800.2	2352.1	3645.1	5200.9	6102.4	6225.9	6507.1	7195.6	6420.4	4764.7
67.5°	1172.1	1203.7	1484.9	2223.3	3064.3	3122.1	3103.7	3164.2	3314.0	2735.8	2152.4
70°	898.8	925.1	1114.3	1629.4	2202.3	1884.3	1784.5	1618.9	1758.2	1792.3	1745.0
72.5°	651.8	672.8	814.7	1111.7	1379.7	1203.7	1187.9	1272.0	1461.2	1513.8	1484.9
75°	420.5	431.0	517.7	609.7	712.2	772.6	804.2	956.6	1148.5	1187.9	1153.7
77.5°	281.2	289.1	339.0	391.6	404.7	407.3	417.9	486.2	617.6	691.2	683.3
80°	147.2	147.2	165.6	165.6	189.2	226.0	236.5	281.2	341.6	378.4	381.1
82.5°	57.8	60.4	71.0	78.8	94.6	115.6	123.5	147.2	178.7	205.0	228.6
85°	23.7	26.3	28.9	34.2	42.0	52.6	55.2	63.1	84.1	105.1	118.3
87.5°	0.0	0.0	2.6	2.6	5.3	7.9	7.9	10.5	13.1	23.7	31.5
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°	5802.8	5802.8	5802.8	5802.8	5802.8	5802.8	5802.8	5802.8	5802.8	5802.8	5802.8
2.5°	5821.2	5787.0	5821.2	5831.7	5860.6	5871.1	5852.7	5850.1	5850.1	5823.8	5815.9
5°	5860.6	5829.0	5863.2	5879.0	5921.0	5947.3	5952.6	5973.6	5986.7	5976.2	5973.6
7.5°	5957.8	5918.4	5955.2	5978.8	6034.0	6076.1	6094.5	6141.8	6175.9	6170.7	6168.1
10°	6128.6	6076.1	6118.1	6157.5	6218.0	6267.9	6270.6	6296.8	6331.0	6320.5	6315.2
12.5°	6325.7	6275.8	6323.1	6362.5	6433.5	6454.5	6420.4	6409.8	6415.1	6402.0	6391.4
15°	6567.5	6496.6	6538.6	6583.3	6622.7	6599.1	6525.5	6496.6	6493.9	6475.5	6465.0
17.5°	6809.3	6720.0	6751.5	6775.1	6756.7	6683.2	6591.2	6541.2	6517.6	6480.8	6470.3
20°	7048.5	6935.5	6930.2	6911.8	6827.7	6693.7	6570.2	6470.3	6409.8	6359.9	6341.5
22.5°	7321.8	7164.1	7085.3	7001.2	6817.2	6599.1	6412.5	6270.6	6173.3	6110.2	6089.2
25°	7616.1	7392.7	7229.8	7061.6	6712.1	6396.7	6136.5	5942.0	5826.4	5758.1	5734.4
27.5°	7907.8	7600.4	7355.9	7069.5	6501.8	6105.0	5755.5	5492.6	5377.0	5321.8	5303.4
30°	8302.0	7876.3	7505.7	6967.0	6225.9	5700.3	5264.0	4998.6	4922.4	4882.9	4867.2
32.5°	8756.7	8225.8	7705.5	6751.5	5873.7	5227.2	4767.3	4583.3	4530.8	4454.6	4451.9
35°	9355.9	8725.2	7894.7	6433.5	5429.6	4720.0	4386.2	4254.8	4160.2	4039.3	4028.8
37.5°	10055.0	9348.0	7997.2	6028.8	4911.8	4302.1	4102.4	3955.2	3802.8	3642.5	3621.5
40°	10777.7	10076.0	8005.1	5550.5	4404.6	4026.2	3858.0	3666.1	3476.9	3298.2	3274.6
42.5°	11537.2	10754.0	7865.8	4998.6	3989.4	3787.0	3616.2	3374.4	3161.6	3040.7	3027.5
45°	12215.2	11300.7	7550.4	4417.8	3681.9	3587.3	3369.2	3109.0	2996.0	2909.3	2890.9
47.5°	12748.7	11663.3	7124.7	3897.4	3432.2	3382.3	3098.5	2964.5	2877.7	2798.9	2780.5
50°	13011.5	11744.8	6570.2	3474.3	3201.0	3140.5	2946.1	2843.6	2785.7	2722.7	2706.9
52.5°	13337.4	11836.8	6091.8	3119.5	2975.0	2893.5	2819.9	2738.4	2696.4	2657.0	2643.8
55°	14086.4	12183.7	5839.5	2835.7	2759.5	2722.7	2712.2	2643.8	2630.7	2604.4	2580.8
57.5°	14391.3	11960.3	5243.0	2604.4	2588.6	2593.9	2620.2	2557.1	2544.0	2512.4	2496.7
60°	11574.0	9040.5	3550.5	2404.7	2446.7	2480.9	2507.2	2444.1	2425.7	2420.4	2399.4
62.5°	7416.4	5561.0	2478.3	2218.1	2281.2	2323.2	2339.0	2278.5	2265.4	2307.4	2310.1
65°	3860.6	3030.2	2010.5	2018.4	2070.9	2134.0	2165.5	2144.5	2139.2	2183.9	2186.5
67.5°	1971.0	1852.8	1752.9	1781.8	1823.9	1905.3	1978.9	2070.9	2102.4	2107.7	2110.3
70°	1679.3	1626.8	1576.8	1595.2	1639.9	1684.6	1755.5	1800.2	1747.7	1734.5	1729.3
72.5°	1429.7	1390.2	1366.6	1387.6	1411.3	1403.4	1382.4	1403.4	1411.3	1413.9	1416.5
75°	1111.7	1082.8	1064.4	1067.0	1067.0	1038.1	998.7	975.0	948.7	927.7	927.7
77.5°	680.7	685.9	704.3	701.7	699.1	688.6	649.1	628.1	565.0	546.6	546.6
80°	389.0	396.8	415.2	420.5	420.5	407.3	367.9	344.3	315.4	302.2	299.6
82.5°	236.5	247.0	257.5	262.8	265.4	249.7	215.5	197.1	181.3	168.2	168.2
85°	123.5	128.8	139.3	141.9	134.0	118.3	99.9	92.0	76.2	73.6	73.6
87.5°	34.2	36.8	42.0	34.2	31.5	23.7	13.1	10.5	5.3	2.6	2.6
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)