

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: P643248

Luminaire Tested: GWS-SA6E-750-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-750-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41541 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

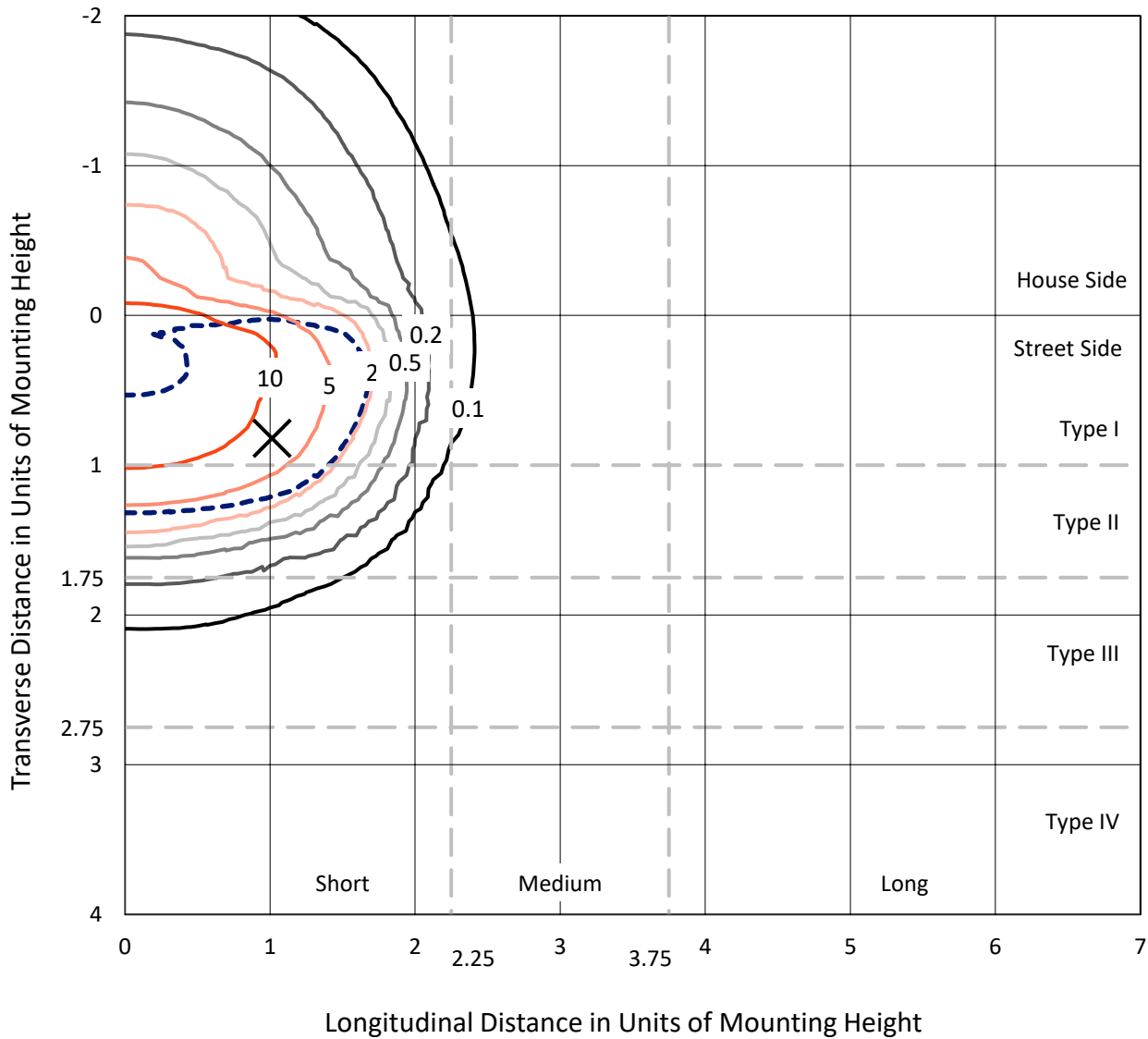
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

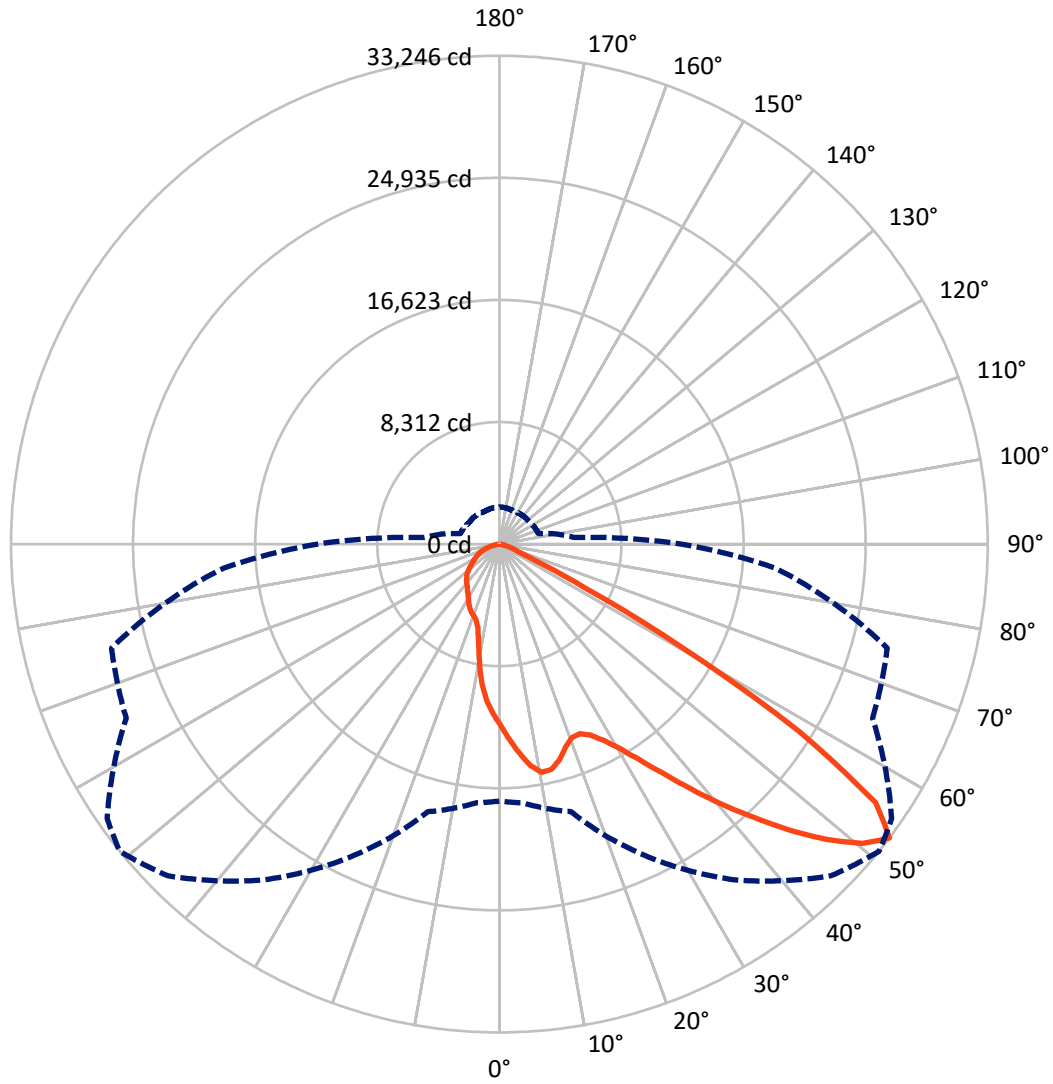
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8093.9	0.0	8093.9
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	33447.1	0.0	33447.1
	% Fixture	80.5	0.0	80.5
Total	Lumens	41541.0	0.0	41541.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1154.2	2.8
10°-20°	2999.0	7.2
20°-30°	4876.2	11.7
30°-40°	7727.6	18.6
40°-50°	11655.0	28.1
50°-60°	10082.4	24.3
60°-70°	2285.8	5.5
70°-80°	674.0	1.6
80°-90°	86.8	0.2
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°	41541.0	100.0
0°-180°	41541.0	100.0

Coefficient of Utilization



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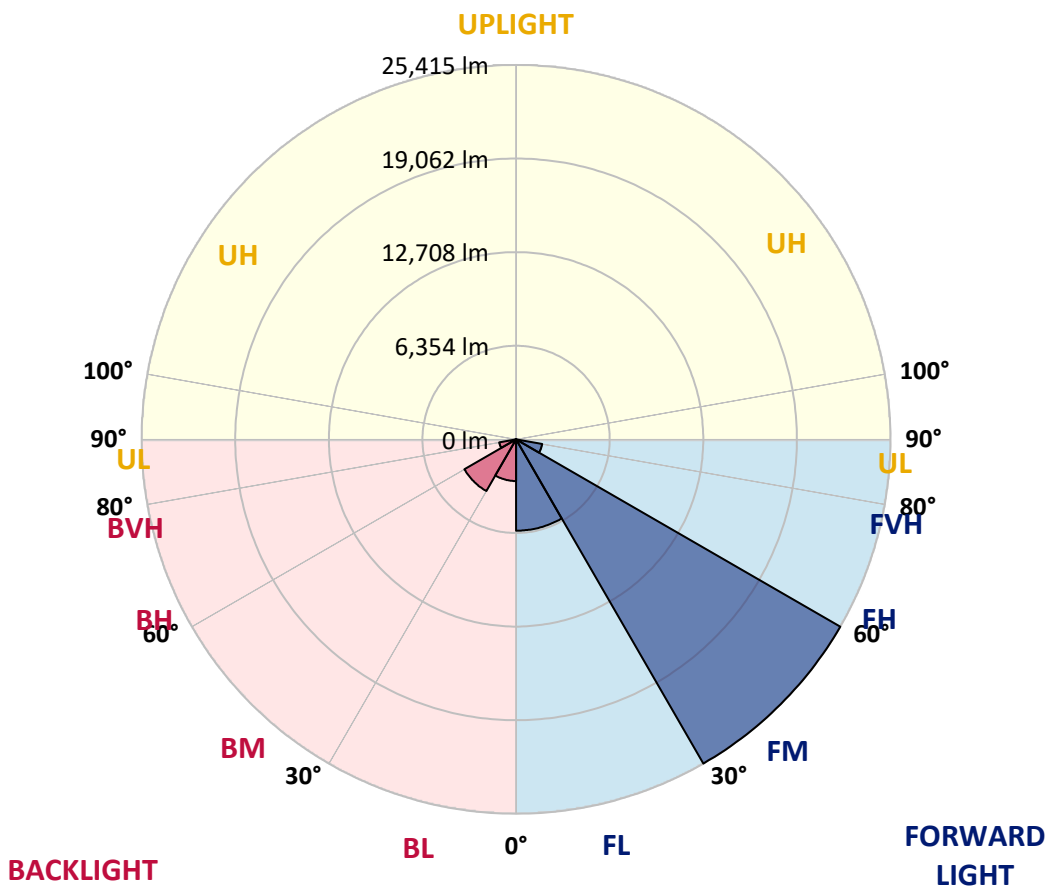
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6200.1	14.9			
FM (30°-60°)	25415.4	61.2			
FH (60°-80°)	1798.9	4.3			G1/1800
FVH (80°-90°)	32.7	0.1			G1/100
BL (0°-30°)	2829.3	6.8	B4/5000		
BM (30°-60°)	4049.7	9.7	B3/5000		
BH (60°-80°)	1160.9	2.8	B3/2500		G3/2500
BVH (80°-90°)	54.1	0.1			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°	51°	55°	65°	75°	85°
0°	12368.8	12368.8	12368.8	12368.8	12368.8	12368.8	12368.8	12368.8	12368.8	12368.8	12368.8
2.5°	13783.6	13862.4	13741.0	13695.0	13619.5	13488.2	13337.2	13294.5	12969.5	12756.2	12516.5
5°	15168.9	15211.6	15113.1	15014.6	14827.5	14594.4	14302.3	14239.9	13649.0	13159.9	12651.1
7.5°	15477.4	15461.0	15546.4	15602.2	15579.2	15487.3	15228.0	15106.5	14400.8	13626.1	12874.3
10°	14256.3	14164.4	14479.5	14853.8	15303.5	15822.1	15792.6	15782.7	15168.9	14253.0	13159.9
12.5°	12638.0	12592.0	12848.1	13317.5	14167.7	15316.6	15746.6	16081.4	15861.5	14850.5	13478.3
15°	11712.3	11695.9	11869.9	12208.0	12884.2	14335.1	15254.2	15917.3	16455.7	15490.6	13816.5
17.5°	11544.9	11554.7	11613.8	11807.5	12293.3	13488.2	14551.8	15477.4	16918.5	16193.1	14239.9
20°	12034.0	12099.7	11997.9	12027.4	12290.0	13182.9	14072.5	15034.3	17213.9	16898.8	14696.2
22.5°	13120.5	13097.6	12874.3	12743.0	12746.3	13370.0	14020.0	14827.5	17407.6	17584.9	15109.8
25°	14351.5	14325.3	14059.4	13767.2	13583.4	13878.8	14397.5	15047.4	17581.6	18211.9	15441.3
27.5°	15805.7	15723.6	15428.2	15054.0	14647.0	14775.0	15126.2	15641.6	17850.8	18829.0	15661.3
30°	17213.9	17309.1	16885.7	16442.5	16012.5	15933.7	16137.3	16603.4	18399.0	19551.2	15923.9
32.5°	19081.7	19048.9	18579.5	18001.8	17387.9	17328.8	17489.7	17916.4	19383.7	20549.1	16324.4
35°	21343.5	21350.0	20683.6	19902.4	19029.2	18871.7	19140.8	19554.4	20851.1	21901.5	16957.9
37.5°	23693.8	23683.9	23102.9	22216.6	21025.0	20801.8	21110.4	21419.0	22686.0	23743.0	17942.7
40°	25341.7	25407.3	25134.9	24668.7	23539.5	22994.6	23267.1	23480.4	24681.9	25909.5	19239.3
42.5°	26277.2	26375.7	26434.8	26713.8	26119.6	25538.6	25440.1	25551.7	26464.3	27921.8	20457.1
45°	26477.4	26608.7	27038.8	28072.8	28302.6	28138.4	27816.7	27547.6	27793.8	29349.7	21254.8
47.5°	25594.4	25824.2	26743.3	28552.0	29894.6	30410.0	30052.2	29641.9	28561.9	29717.4	21172.8
50°	22095.2	22364.3	24435.7	27573.8	30121.1	31998.8	32031.6	31424.3	28470.0	28657.1	20142.0
52.5°	17493.0	17676.8	18861.8	23375.4	27898.8	31933.1	33246.1	32596.2	28026.8	27330.9	18852.0
55°	10455.1	10750.5	11856.7	15421.6	21734.1	28302.6	31099.3	31414.5	27810.2	26218.1	17972.2
57.5°	3528.8	3673.2	4730.2	6811.4	12808.7	20723.0	24028.6	25308.8	25246.5	24517.7	16255.4
60°	1680.7	1713.5	1926.9	2583.4	5127.4	10829.3	14223.5	15700.7	17046.5	17181.1	10113.7
62.5°	1280.2	1299.9	1408.2	1549.4	2061.5	4562.8	6519.2	7648.5	8170.4	7011.6	3683.1
65°	1070.1	1086.5	1168.6	1257.2	1401.7	1976.1	2501.3	2885.4	2599.8	2025.4	1756.2
67.5°	892.9	906.0	968.4	1063.6	1162.0	1322.9	1388.5	1427.9	1496.9	1680.7	1615.0
70°	699.2	712.3	778.0	860.0	955.2	994.6	1057.0	1096.4	1234.3	1470.6	1464.0
72.5°	538.3	554.8	590.9	643.4	722.2	761.6	830.5	876.5	955.2	1145.6	1224.4
75°	393.9	403.8	436.6	453.0	462.8	453.0	521.9	574.5	679.5	751.7	771.4
77.5°	160.8	180.5	174.0	174.0	206.8	249.5	285.6	318.4	390.6	433.3	436.6
80°	65.7	72.2	85.3	95.2	114.9	147.7	170.7	183.8	216.7	242.9	262.6
82.5°	39.4	42.7	49.2	52.5	65.7	85.3	98.5	108.3	134.6	160.8	170.7
85°	19.7	19.7	23.0	26.3	32.8	39.4	46.0	52.5	68.9	85.3	95.2
87.5°	3.3	3.3	3.3	6.6	9.8	13.1	16.4	19.7	23.0	26.3	32.8
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°	12368.8	12368.8	12368.8	12368.8	12368.8	12368.8	12368.8	12368.8	12368.8	12368.8	12368.8
2.5°	12375.4	12198.1	11991.3	11827.2	11636.8	11495.7	11295.4	11170.7	11052.5	10954.0	10881.8
5°	12388.5	12089.8	11659.8	11279.0	10885.1	10510.9	10126.8	9815.0	9535.9	9302.9	9283.2
7.5°	12464.0	12034.0	11361.1	10694.7	9926.6	9184.7	8442.8	7838.8	7379.3	7139.7	7090.4
10°	12592.0	12027.4	11055.8	9992.2	8682.5	7487.6	6607.9	6148.3	5882.4	5787.2	5754.4
12.5°	12726.6	12011.0	10665.2	9000.9	7182.3	6135.2	5652.6	5596.8	5646.1	5652.6	5649.4
15°	12890.8	12001.2	10172.8	7838.8	6085.9	5508.2	5541.0	5659.2	5774.1	5800.4	5800.4
17.5°	13091.0	11978.2	9503.1	6703.1	5399.9	5386.7	5560.7	5718.3	5826.6	5846.3	5846.3
20°	13301.1	11919.1	8679.2	5777.4	5120.9	5311.2	5498.4	5619.8	5695.3	5721.6	5724.9
22.5°	13445.5	11761.5	7730.5	5091.3	4946.9	5166.8	5301.4	5426.1	5426.1	5360.5	5340.8
25°	13475.1	11423.4	6703.1	4621.9	4740.1	4943.6	5081.5	5009.2	4874.7	4822.1	4818.9
27.5°	13366.7	10931.1	5688.7	4287.1	4490.6	4694.1	4671.1	4566.1	4507.0	4454.5	4474.2
30°	13235.4	10340.2	4809.0	4011.3	4201.7	4402.0	4323.2	4287.1	4244.4	4185.3	4198.4
32.5°	13146.8	9680.4	4132.8	3798.0	4008.1	4040.9	4096.7	4093.4	4054.0	3942.4	3935.8
35°	13173.1	9014.0	3679.8	3624.0	3847.2	3834.1	3939.1	3919.4	3647.0	3492.7	3482.8
37.5°	13383.2	8373.9	3413.9	3486.1	3591.2	3673.2	3765.1	3528.8	3433.6	3335.1	3341.7
40°	13783.6	7779.8	3269.5	3410.6	3436.9	3558.3	3345.0	3341.7	3299.0	3210.4	3207.1
42.5°	14236.6	7277.5	3171.0	3374.5	3338.4	3361.4	3134.9	3161.1	3157.9	3102.1	3085.6
45°	14512.4	6814.7	3092.2	3239.9	3249.8	3020.0	2951.1	2980.6	2997.0	2967.5	2964.2
47.5°	14226.8	6282.9	3010.1	3033.1	3118.5	2865.7	2780.4	2783.6	2813.2	2816.5	2803.3
50°	13425.8	5688.7	2911.7	2855.9	2800.1	2704.9	2626.1	2609.7	2639.2	2668.8	2678.6
52.5°	12391.8	5120.9	2747.5	2662.2	2530.9	2530.9	2494.8	2442.3	2481.6	2521.0	2534.2
55°	11633.5	4700.7	2514.5	2419.3	2274.8	2324.1	2317.5	2271.6	2324.1	2353.6	2363.5
57.5°	10080.9	3778.3	2212.5	2182.9	2061.5	2120.6	2133.7	2074.6	2048.3	2054.9	2064.8
60°	5984.2	2439.0	1995.8	1992.5	1884.2	1953.1	1992.5	1933.5	1854.7	1864.5	1877.6
62.5°	2685.2	1864.5	1723.4	1710.2	1707.0	1795.6	1838.3	1782.5	1670.8	1680.7	1693.8
65°	1690.5	1611.8	1496.9	1496.9	1549.4	1624.9	1657.7	1611.8	1483.7	1467.3	1480.5
67.5°	1569.1	1500.1	1382.0	1359.0	1385.3	1447.6	1450.9	1362.3	1286.8	1273.6	1273.6
70°	1408.2	1355.7	1240.8	1194.9	1185.0	1181.7	1171.9	1148.9	1099.7	1086.5	1093.1
72.5°	1165.3	1129.2	1057.0	1007.8	981.5	978.2	938.8	919.1	876.5	869.9	866.6
75°	771.4	781.3	781.3	774.7	751.7	741.9	699.2	679.5	630.3	610.6	607.3
77.5°	456.3	466.1	479.3	482.5	479.3	479.3	439.9	416.9	367.7	341.4	334.8
80°	279.0	285.6	292.2	302.0	288.9	279.0	242.9	219.9	197.0	180.5	177.3
82.5°	180.5	187.1	190.4	197.0	190.4	177.3	147.7	134.6	118.2	105.0	101.8
85°	101.8	105.0	111.6	111.6	101.8	91.9	75.5	65.7	55.8	49.2	49.2
87.5°	36.1	36.1	36.1	39.4	32.8	29.5	19.7	13.1	9.8	9.8	9.8
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)