

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: P641298

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641298
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
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-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37575.9 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

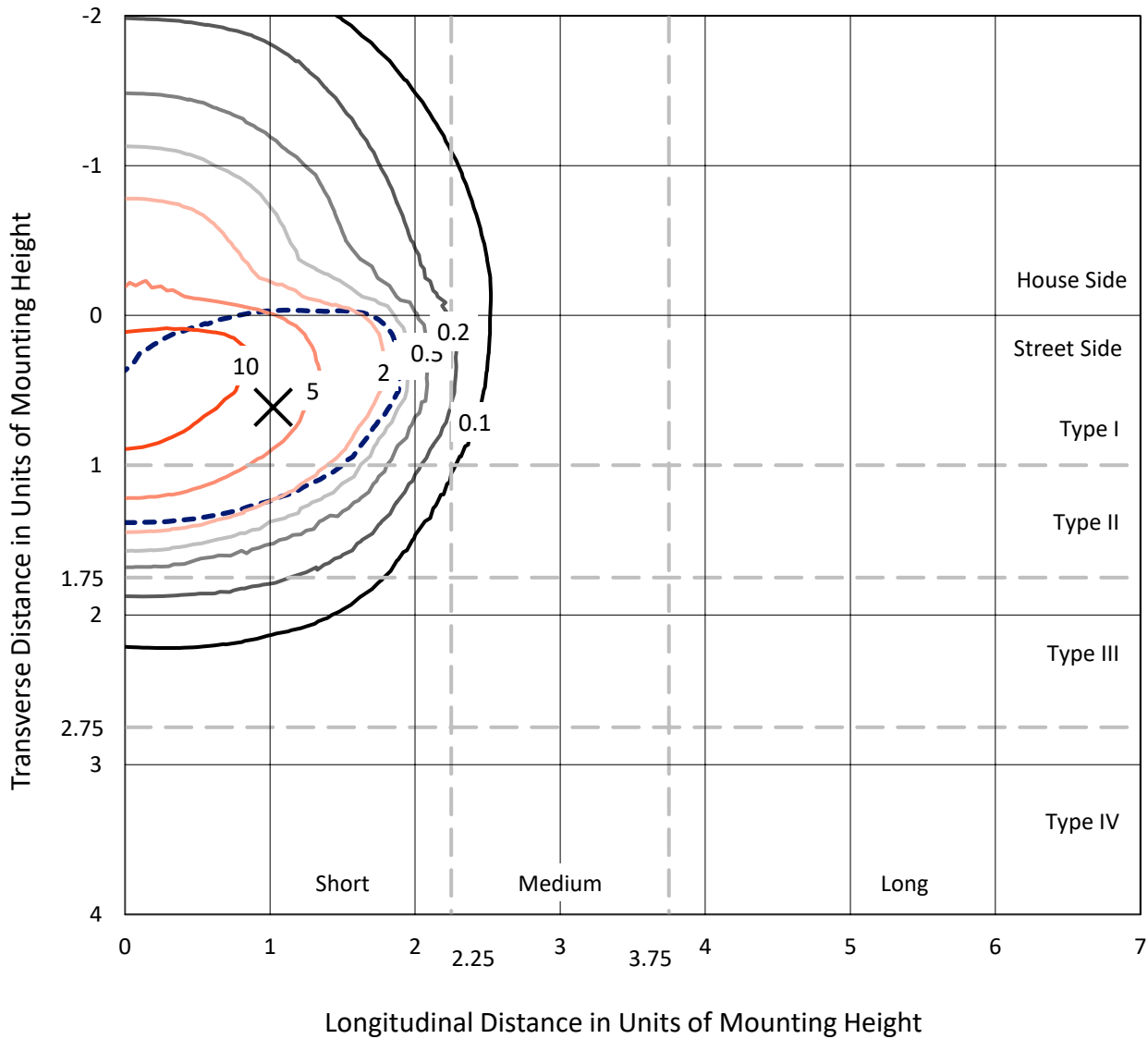
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

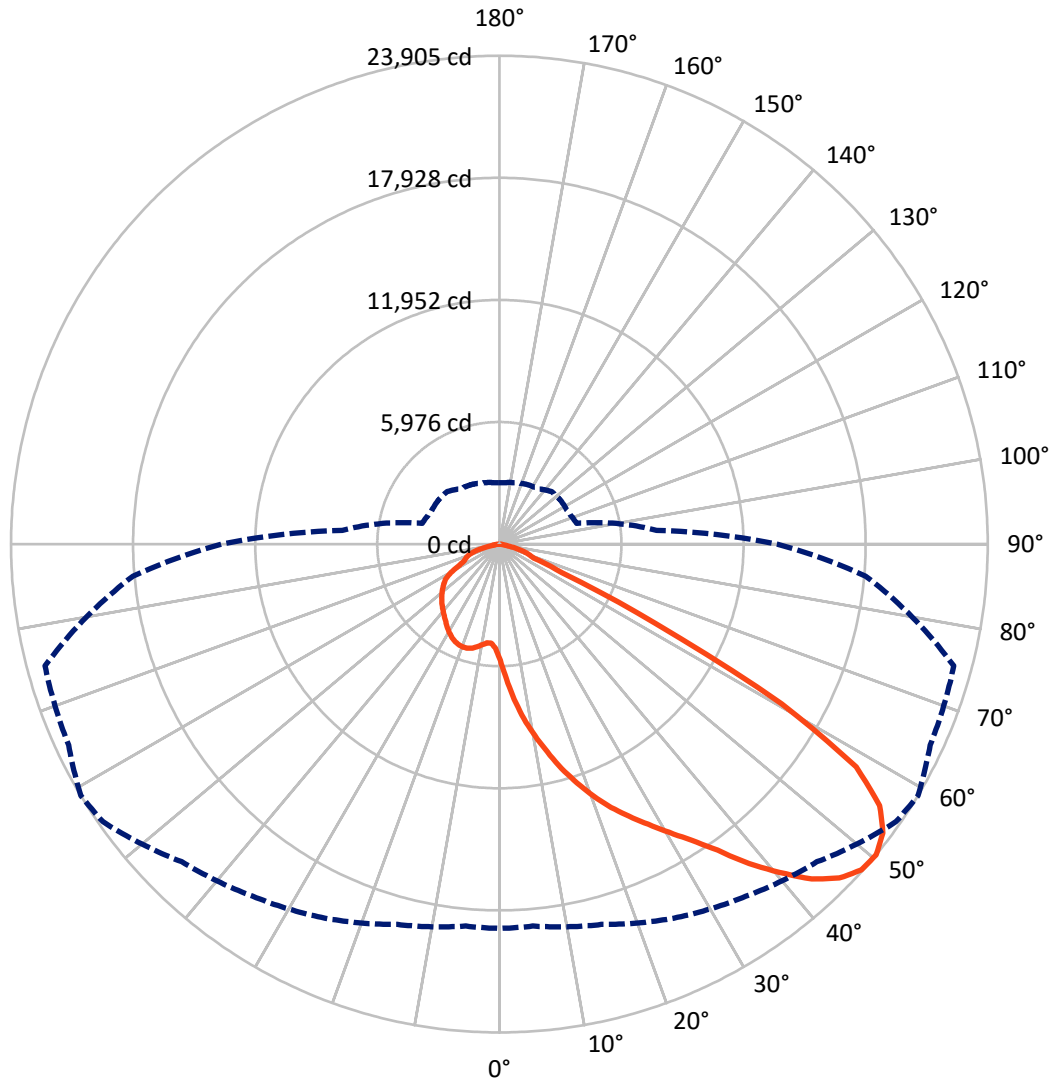
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8643.2	0.0	8643.2
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	28932.7	0.0	28932.7
	% Fixture	77.0	0.0	77.0
Total	Lumens	37575.9	0.0	37575.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	638.7	1.7
10°-20°	2318.5	6.2
20°-30°	4390.2	11.7
30°-40°	7280.3	19.4
40°-50°	9945.3	26.5
50°-60°	9027.8	24.0
60°-70°	3006.3	8.0
70°-80°	876.8	2.3
80°-90°	92.1	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°	37575.9	100.0
0°-180°	37575.9	100.0

Coefficient of Utilization



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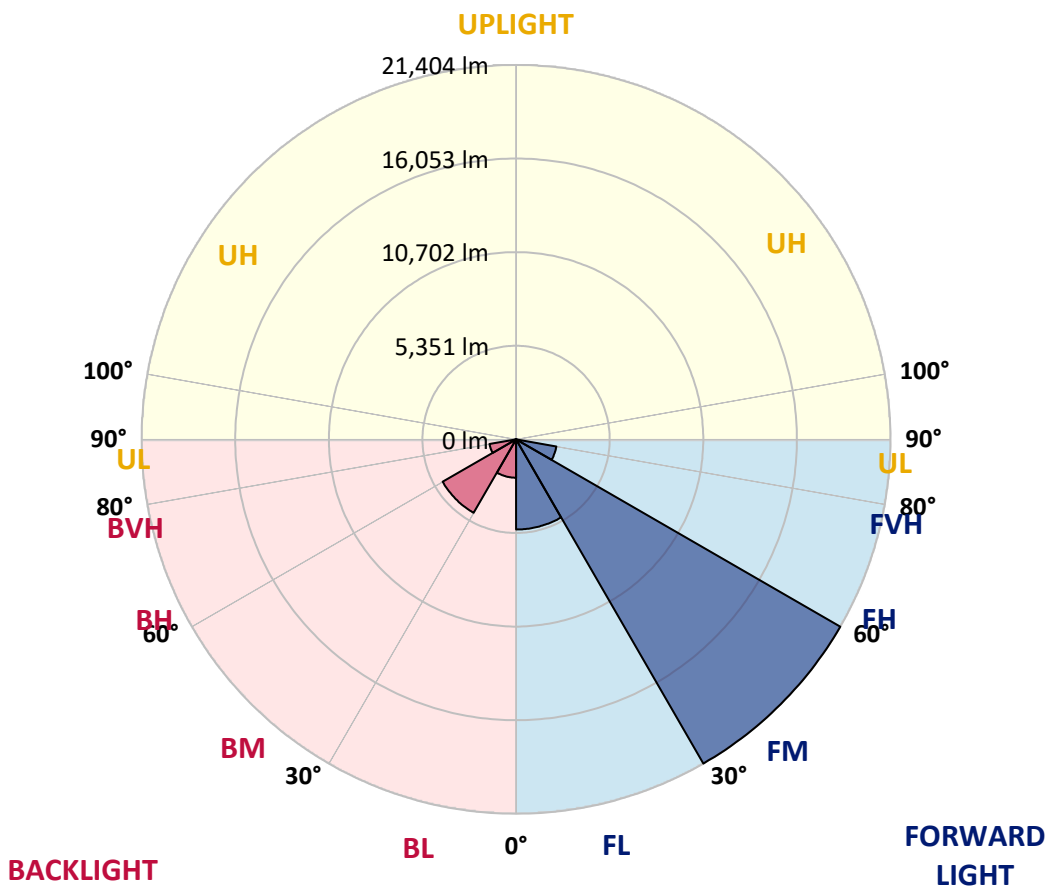
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5152.6	13.7			
FM (30°-60°)	21403.7	57.0			
FH (60°-80°)	2340.4	6.2			G2/5000
FVH (80°-90°)	36.0	0.1			G1/100
BL (0°-30°)	2194.7	5.8	B3/2500		
BM (30°-60°)	4849.7	12.9	B3/5000		
BH (60°-80°)	1542.7	4.1	B3/2500		G3/2500
BVH (80°-90°)	56.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5693.0	5693.0	5693.0	5693.0	5693.0	5693.0	5693.0	5693.0	5693.0	5693.0	5693.0
2.5°	7376.4	7431.5	7345.8	7351.9	7137.7	7039.7	6764.3	6602.1	6494.9	6195.0	5922.6
5°	8864.0	8799.7	8732.3	8692.6	8505.9	8242.6	7899.8	7627.4	7376.4	6788.8	6222.5
7.5°	9776.1	9742.4	9696.5	9672.0	9488.4	9212.9	8870.1	8637.5	8273.2	7477.4	6586.8
10°	10550.4	10510.7	10483.1	10501.5	10351.5	10174.0	9800.6	9534.3	9124.1	8205.9	7027.5
12.5°	11150.4	11171.8	11181.0	11278.9	11214.6	11107.5	10721.8	10440.3	9984.2	8974.1	7544.8
15°	11624.8	11618.6	11725.8	11912.5	12016.5	11949.2	11640.1	11404.4	10847.3	9730.2	8101.8
17.5°	11735.0	11741.1	11909.4	12236.9	12576.7	12741.9	12567.5	12285.9	11735.0	10477.0	8680.3
20°	11823.7	11836.0	12010.4	12383.8	12879.7	13341.9	13369.4	13167.4	12693.0	11285.0	9268.0
22.5°	12383.8	12411.4	12457.3	12693.0	13139.8	13724.5	14045.8	14003.0	13605.1	12132.9	9901.6
25°	13856.1	13773.4	13550.0	13482.7	13654.1	14128.5	14676.3	14759.0	14563.1	13066.4	10584.1
27.5°	15674.2	15585.4	15254.8	14905.9	14535.6	14700.8	15285.4	15533.4	15536.4	14094.8	11269.7
30°	17323.9	17253.5	16984.2	16485.3	15845.6	15606.8	16038.4	16372.0	16571.0	15282.4	12050.2
32.5°	18734.9	18670.6	18306.4	17899.3	17274.9	16794.4	16950.5	17271.9	17737.1	16818.9	13020.5
35°	19922.5	19858.2	19509.3	19099.1	18520.7	18233.0	18177.9	18398.2	19001.2	18422.7	14134.6
37.5°	20886.6	20822.4	20458.1	20072.5	19631.7	19650.1	19732.7	19839.8	20185.7	20139.8	15325.2
40°	21511.0	21443.7	21183.5	20908.1	20629.5	20849.9	21260.0	21131.5	21315.1	21526.3	16421.0
42.5°	21789.6	21703.9	21553.9	21492.7	21407.0	21749.8	22539.4	22410.9	22190.5	22450.7	17235.1
45°	21511.0	21437.6	21434.5	21621.2	21820.2	22260.9	23424.0	23319.9	22762.9	22897.5	17721.8
47.5°	20657.1	20592.8	20767.3	21257.0	21746.7	22389.5	23818.8	23837.2	23170.0	23084.3	18037.1
50°	18811.4	18768.6	19273.6	20201.0	21045.8	21988.5	23693.3	23904.5	23267.9	23026.1	17997.3
52.5°	15058.9	15257.9	16356.7	17905.4	19546.0	21284.5	23228.1	23503.6	22796.5	22643.5	17783.0
55°	10308.6	10400.5	11499.3	13761.2	16362.8	19760.3	22159.9	22585.4	22239.5	22579.2	18006.5
57.5°	5338.0	5411.4	6277.6	8285.5	11098.3	15616.0	19194.0	20589.7	21116.2	22903.7	18701.2
60°	2191.5	2252.7	2610.8	3581.1	5598.1	9093.5	13813.2	15882.3	17118.8	20917.2	16607.7
62.5°	1591.6	1622.2	1793.6	2136.4	2932.2	4456.5	7817.2	8579.3	9448.6	13109.2	10544.3
65°	1340.6	1374.3	1512.0	1720.1	2139.5	2733.3	3339.3	3357.7	3700.5	5341.0	3908.6
67.5°	1123.3	1153.9	1276.3	1453.9	1729.3	1940.5	1793.6	1796.7	1790.5	1937.5	1873.2
70°	875.4	899.9	1022.3	1212.1	1355.9	1245.7	1401.8	1551.8	1487.5	1545.7	1634.4
72.5°	639.7	667.2	774.4	918.2	881.5	887.6	1135.5	1288.6	1251.9	1316.1	1398.8
75°	462.2	480.5	535.6	459.1	483.6	584.6	798.9	881.5	918.2	973.3	1046.8
77.5°	150.0	150.0	168.3	211.2	263.2	324.4	407.1	440.7	495.8	557.1	609.1
80°	76.5	79.6	94.9	116.3	146.9	186.7	238.7	254.0	281.6	315.3	336.7
82.5°	36.7	39.8	45.9	58.2	76.5	97.9	131.6	146.9	165.3	186.7	202.0
85°	9.2	9.2	12.2	18.4	24.5	36.7	49.0	58.2	73.5	88.8	97.9
87.5°	0.0	0.0	0.0	0.0	0.0	3.1	9.2	12.2	15.3	18.4	24.5
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°	5693.0	5693.0	5693.0	5693.0	5693.0	5693.0	5693.0	5693.0	5693.0	5693.0	5693.0
2.5°	5800.1	5628.7	5408.4	5221.7	5050.3	4918.6	4805.4	4750.3	4698.3	4661.5	4673.8
5°	5959.3	5665.5	5255.3	4970.7	4796.2	4707.4	4646.2	4615.6	4609.5	4585.0	4575.8
7.5°	6191.9	5772.6	5224.7	4937.0	4820.7	4774.8	4741.1	4722.8	4731.9	4707.4	4698.3
10°	6479.6	5950.1	5301.2	5047.2	4946.2	4912.5	4875.8	4851.3	4839.1	4802.3	4796.2
12.5°	6837.7	6170.5	5439.0	5188.0	5087.0	5028.8	4979.9	4937.0	4909.5	4863.5	4851.3
15°	7223.4	6415.4	5601.2	5325.7	5206.4	5120.7	5041.1	4976.8	4927.8	4866.6	4857.4
17.5°	7642.7	6672.5	5735.9	5420.6	5267.6	5154.3	5038.0	4943.1	4875.8	4796.2	4787.0
20°	8080.4	6932.6	5836.9	5466.5	5270.6	5117.6	4961.5	4836.0	4750.3	4670.7	4664.6
22.5°	8533.4	7171.4	5898.1	5454.3	5221.7	5031.9	4845.2	4704.4	4603.4	4508.5	4502.4
25°	8989.5	7400.9	5913.4	5405.3	5123.7	4903.3	4716.6	4551.4	4438.1	4331.0	4318.7
27.5°	9451.6	7593.7	5876.7	5307.4	4992.1	4753.4	4566.7	4404.4	4288.1	4181.0	4162.6
30°	9944.4	7759.0	5797.1	5178.8	4839.1	4594.2	4410.6	4288.1	4177.9	4070.8	4052.4
32.5°	10470.9	7902.9	5683.8	5022.7	4661.5	4435.0	4300.4	4190.2	4080.0	3985.1	3966.7
35°	11098.3	7997.8	5515.5	4820.7	4496.3	4318.7	4226.9	4098.4	3963.7	3859.6	3850.4
37.5°	11747.2	8071.2	5313.5	4627.9	4352.4	4251.4	4174.9	4000.4	3832.1	3706.6	3691.3
40°	12374.7	8132.4	5062.5	4447.3	4220.8	4202.4	4098.4	3881.0	3590.3	3449.5	3437.2
42.5°	12959.3	8150.8	4799.3	4254.5	4101.4	4092.2	3975.9	3639.2	3415.8	3327.0	3314.8
45°	13360.2	8135.5	4526.9	4073.9	3982.0	3933.1	3810.6	3464.8	3327.0	3247.5	3232.2
47.5°	13657.1	8055.9	4220.8	3884.1	3847.4	3780.0	3516.8	3354.6	3226.0	3146.5	3131.2
50°	13605.1	7725.4	3911.7	3700.5	3685.2	3627.0	3302.6	3216.9	3103.6	3017.9	3005.7
52.5°	13335.7	7097.9	3596.4	3498.4	3529.1	3415.8	3149.5	3051.6	2953.6	2855.7	2834.3
55°	13403.1	6644.9	3357.7	3302.6	3357.7	3100.6	2978.1	2874.1	2782.2	2687.3	2669.0
57.5°	13696.9	6198.0	3103.6	3091.4	3149.5	2858.8	2757.7	2626.1	2494.5	2418.0	2418.0
60°	11502.3	4517.7	2656.7	2687.3	2819.0	2662.9	2574.1	2439.4	2295.6	2228.2	2228.2
62.5°	6801.0	2834.3	2203.7	2170.1	2252.7	2350.7	2399.6	2289.4	2118.0	2029.3	2032.3
65°	2996.5	2063.0	1943.6	1916.0	1891.6	1958.9	2093.6	2102.7	1922.2	1818.1	1821.2
67.5°	1845.6	1867.1	1818.1	1796.7	1775.2	1763.0	1750.8	1756.9	1707.9	1613.0	1610.0
70°	1665.1	1723.2	1689.5	1671.2	1643.6	1622.2	1548.7	1429.4	1346.7	1322.2	1349.8
72.5°	1432.4	1512.0	1493.7	1484.5	1450.8	1398.8	1300.8	1184.5	1086.6	1025.4	1037.6
75°	1080.4	1144.7	1153.9	1157.0	1120.2	1071.3	970.3	872.3	786.6	722.3	737.6
77.5°	621.3	658.1	667.2	676.4	648.9	630.5	563.2	492.8	446.9	379.5	397.9
80°	345.9	361.2	361.2	364.2	348.9	327.5	281.6	241.8	220.4	189.8	192.8
82.5°	208.1	214.3	217.3	220.4	211.2	189.8	156.1	128.6	116.3	101.0	97.9
85°	101.0	107.1	107.1	110.2	94.9	82.6	64.3	49.0	42.9	30.6	33.7
87.5°	24.5	27.5	27.5	24.5	21.4	15.3	9.2	3.1	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)