

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: P640803

Luminaire Tested: GWS-SA5E-750-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640803
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-SA5E-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: 33796.7 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

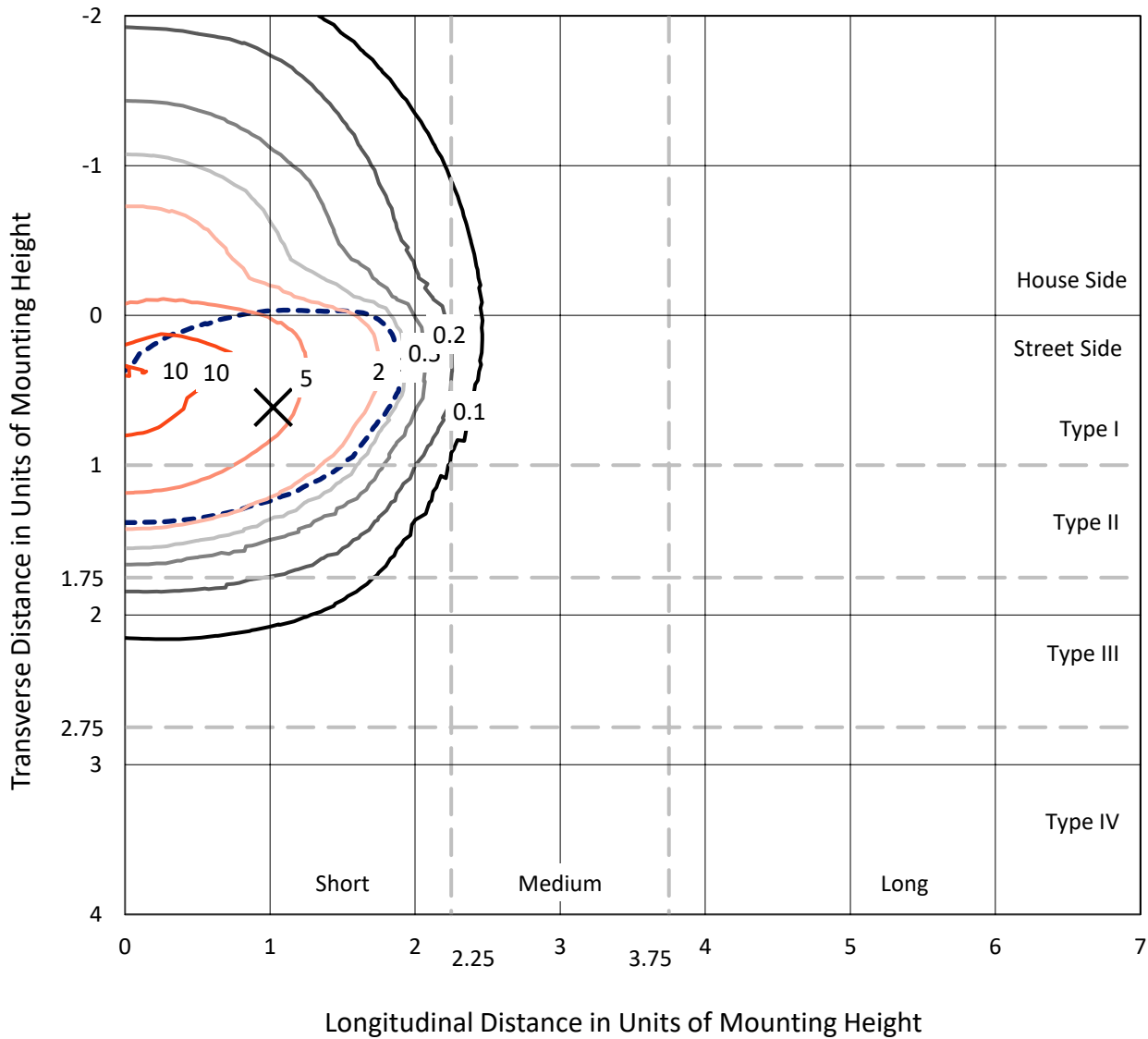
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

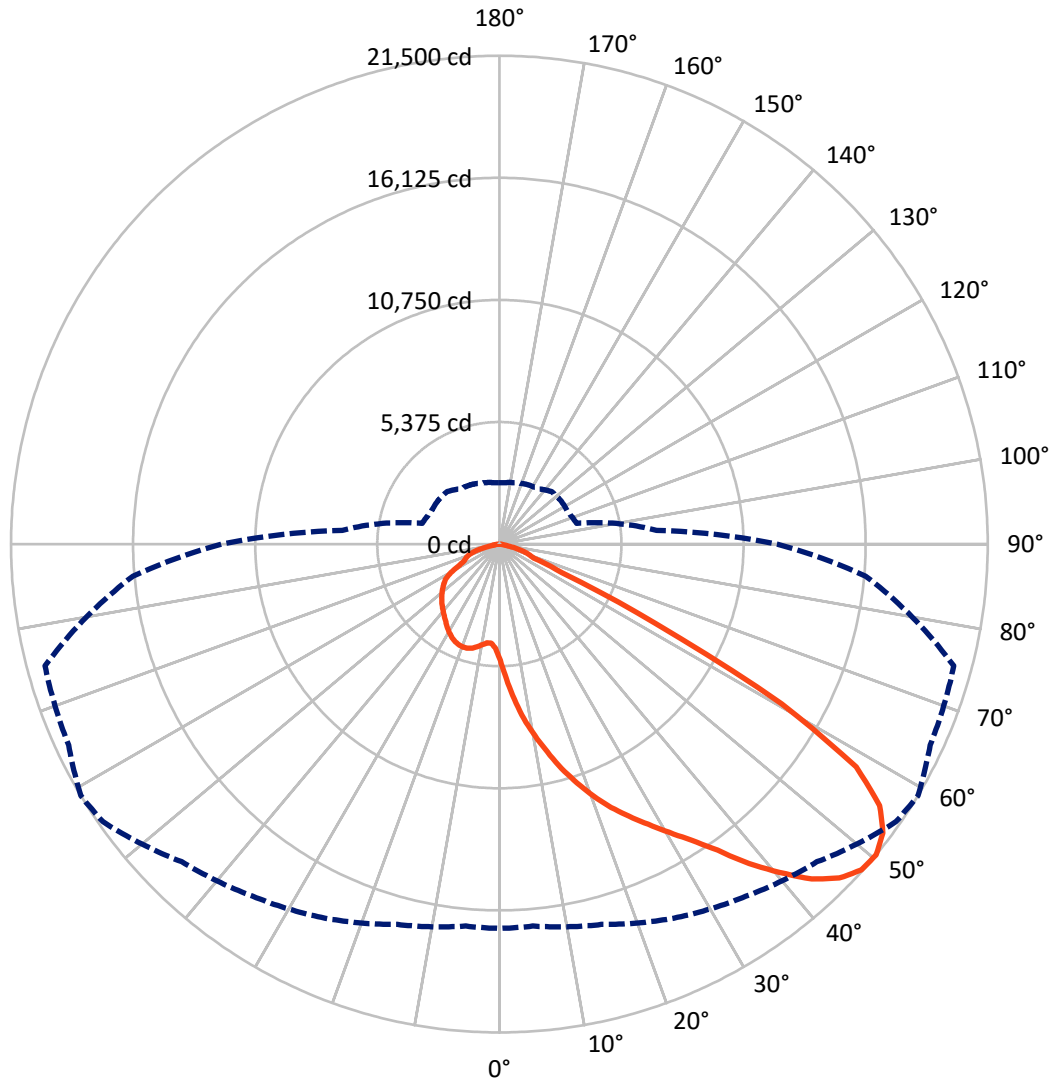
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.2 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	7773.9	0.0	7773.9
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	26022.8	0.0	26022.8
	% Fixture	77.0	0.0	77.0
Total	Lumens	33796.7	0.0	33796.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	574.4	1.7
10°-20°	2085.3	6.2
20°-30°	3948.6	11.7
30°-40°	6548.1	19.4
40°-50°	8945.0	26.5
50°-60°	8119.8	24.0
60°-70°	2704.0	8.0
70°-80°	788.6	2.3
80°-90°	82.8	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°	33796.7	100.0
0°-180°	33796.7	100.0

Coefficient of Utilization



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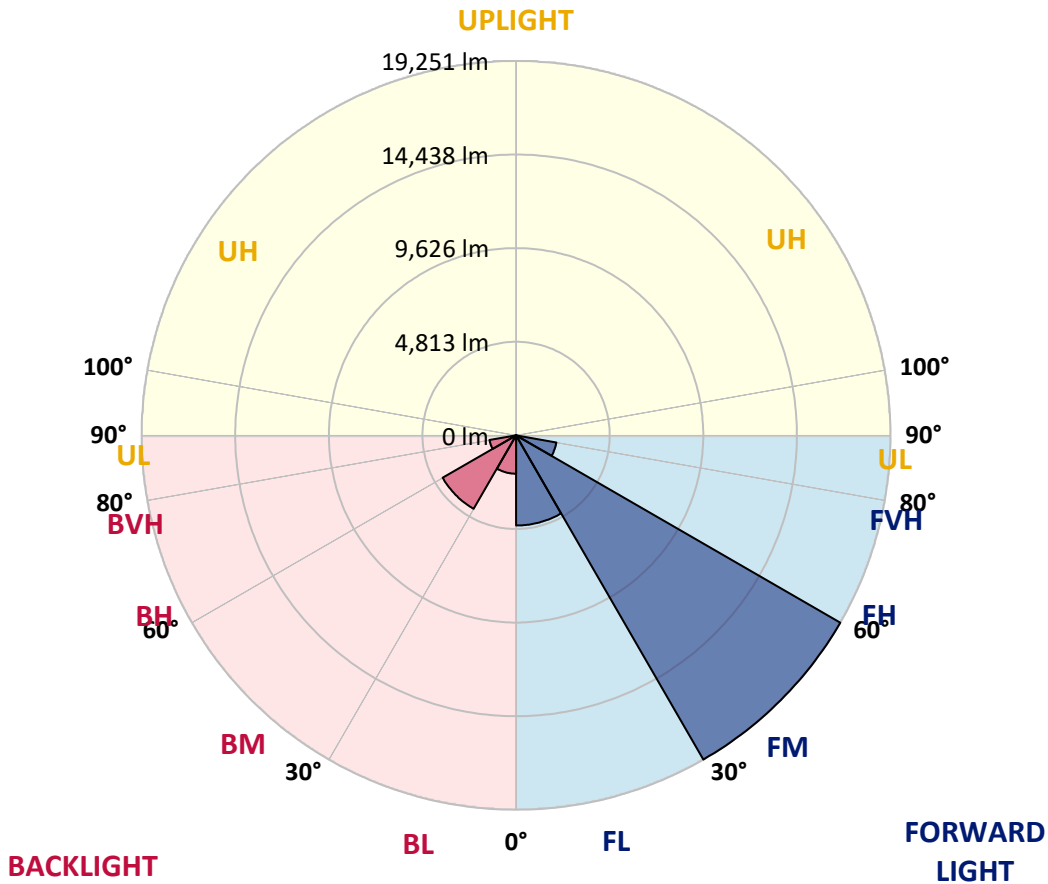
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4634.4	13.7			
FM (30°-60°)	19251.0	57.0			
FH (60°-80°)	2105.1	6.2			G2/5000
FVH (80°-90°)	32.4	0.1			G1/100
BL (0°-30°)	1974.0	5.8	B3/2500		
BM (30°-60°)	4361.9	12.9	B3/5000		
BH (60°-80°)	1387.6	4.1	B3/2500		G3/2500
BVH (80°-90°)	50.4	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°	5120.4	5120.4	5120.4	5120.4	5120.4	5120.4	5120.4	5120.4	5120.4	5120.4	5120.4
2.5°	6634.5	6684.1	6607.0	6612.5	6419.8	6331.7	6084.0	5938.1	5841.7	5571.9	5326.9
5°	7972.5	7914.7	7854.1	7818.3	7650.4	7413.6	7105.3	6860.3	6634.5	6106.0	5596.7
7.5°	8792.8	8762.6	8721.3	8699.2	8534.1	8286.3	7978.0	7768.8	7441.2	6725.4	5924.3
10°	9489.3	9453.5	9428.8	9445.3	9310.4	9150.7	8814.9	8575.4	8206.5	7380.6	6320.7
12.5°	10028.9	10048.2	10056.4	10144.5	10086.7	9990.4	9643.5	9390.2	8980.0	8071.6	6786.0
15°	10455.6	10450.1	10546.5	10714.4	10808.0	10747.4	10469.4	10257.4	9756.4	8751.5	7287.0
17.5°	10554.7	10560.2	10711.6	11006.2	11311.8	11460.4	11303.5	11050.2	10554.7	9423.3	7807.3
20°	10634.5	10645.6	10802.5	11138.3	11584.3	12000.0	12024.8	11843.1	11416.4	10150.0	8335.9
22.5°	11138.3	11163.1	11204.4	11416.4	11818.3	12344.1	12633.2	12594.6	12236.7	10912.6	8905.7
25°	12462.5	12388.2	12187.2	12126.6	12280.8	12707.5	13200.3	13274.6	13098.4	11752.2	9519.6
27.5°	14097.7	14017.9	13720.6	13406.7	13073.6	13222.3	13748.1	13971.1	13973.8	12677.2	10136.3
30°	15581.6	15518.2	15276.0	14827.2	14251.9	14037.2	14425.3	14725.4	14904.3	13745.4	10838.3
32.5°	16850.6	16792.8	16465.2	16099.1	15537.5	15105.3	15245.7	15534.8	15953.2	15127.3	11710.9
35°	17918.8	17861.0	17547.1	17178.2	16657.9	16399.2	16349.6	16547.8	17090.2	16569.9	12713.0
37.5°	18786.0	18728.1	18400.5	18053.7	17657.3	17673.8	17748.1	17844.5	18155.5	18114.2	13783.9
40°	19347.6	19287.0	19053.0	18805.2	18554.7	18752.9	19121.8	19006.2	19171.4	19361.3	14769.4
42.5°	19598.1	19521.0	19386.1	19331.0	19254.0	19562.3	20272.5	20156.9	19958.7	20192.7	15501.7
45°	19347.6	19281.5	19278.7	19446.7	19625.6	20022.0	21068.1	20974.5	20473.5	20594.6	15939.4
47.5°	18579.5	18521.7	18678.6	19119.1	19559.5	20137.6	21423.3	21439.8	20839.6	20762.6	16223.0
50°	16919.5	16880.9	17335.2	18169.3	18929.1	19777.0	21310.4	21500.3	20927.7	20710.2	16187.2
52.5°	13544.4	13723.3	14711.6	16104.6	17580.2	19143.8	20891.9	21139.7	20503.8	20366.1	15994.5
55°	9271.8	9354.4	10342.7	12377.1	14717.1	17772.9	19931.2	20313.8	20002.7	20308.3	16195.5
57.5°	4801.1	4867.2	5646.2	7452.2	9982.1	14045.4	17263.6	18518.9	18992.4	20600.1	16820.4
60°	1971.1	2026.2	2348.2	3220.9	5035.1	8178.9	12423.9	14284.9	15397.1	18813.5	14937.4
62.5°	1431.5	1459.0	1613.2	1921.5	2637.3	4008.3	7031.0	7716.4	8498.3	11790.8	9483.8
65°	1205.8	1236.1	1359.9	1547.1	1924.3	2458.4	3003.4	3020.0	3328.3	4803.9	3515.5
67.5°	1010.3	1037.9	1148.0	1307.6	1555.4	1745.4	1613.2	1616.0	1610.5	1742.6	1684.8
70°	787.3	809.4	919.5	1090.2	1219.5	1120.4	1260.8	1395.7	1337.9	1390.2	1470.1
72.5°	575.4	600.1	696.5	825.9	792.8	798.3	1021.3	1159.0	1125.9	1183.8	1258.1
75°	415.7	432.2	481.8	412.9	435.0	525.8	718.5	792.8	825.9	875.4	941.5
77.5°	134.9	134.9	151.4	190.0	236.8	291.8	366.1	396.4	446.0	501.0	547.8
80°	68.8	71.6	85.3	104.6	132.1	167.9	214.7	228.5	253.3	283.6	302.8
82.5°	33.0	35.8	41.3	52.3	68.8	88.1	118.4	132.1	148.7	167.9	181.7
85°	8.3	8.3	11.0	16.5	22.0	33.0	44.0	52.3	66.1	79.8	88.1
87.5°	0.0	0.0	0.0	0.0	0.0	2.8	8.3	11.0	13.8	16.5	22.0
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°	5120.4	5120.4	5120.4	5120.4	5120.4	5120.4	5120.4	5120.4	5120.4	5120.4	5120.4
2.5°	5216.8	5062.6	4864.4	4696.5	4542.3	4423.9	4322.1	4272.5	4225.7	4192.7	4203.7
5°	5359.9	5095.7	4726.8	4470.7	4313.8	4234.0	4178.9	4151.4	4145.9	4123.9	4115.6
7.5°	5569.2	5192.0	4699.2	4440.5	4335.9	4294.6	4264.3	4247.8	4256.0	4234.0	4225.7
10°	5827.9	5351.7	4768.1	4539.6	4448.7	4418.4	4385.4	4363.4	4352.4	4319.3	4313.8
12.5°	6150.0	5549.9	4891.9	4666.2	4575.4	4523.1	4479.0	4440.5	4415.7	4374.4	4363.4
15°	6496.9	5770.1	5037.9	4790.1	4682.7	4605.6	4534.1	4476.3	4432.2	4377.1	4368.9
17.5°	6874.1	6001.4	5159.0	4875.4	4737.8	4635.9	4531.3	4446.0	4385.4	4313.8	4305.6
20°	7267.7	6235.4	5249.8	4916.7	4740.5	4602.9	4462.5	4349.6	4272.5	4201.0	4195.5
22.5°	7675.2	6450.1	5304.9	4905.7	4696.5	4525.8	4357.9	4231.2	4140.4	4055.1	4049.6
25°	8085.3	6656.6	5318.6	4861.7	4608.4	4410.2	4242.3	4093.6	3991.7	3895.4	3884.4
27.5°	8501.0	6830.0	5285.6	4773.6	4490.0	4275.3	4107.4	3961.5	3856.8	3760.5	3744.0
30°	8944.3	6978.7	5214.0	4657.9	4352.4	4132.1	3967.0	3856.8	3757.7	3661.4	3644.9
32.5°	9417.8	7108.1	5112.2	4517.5	4192.7	3989.0	3867.9	3768.8	3669.6	3584.3	3567.8
35°	9982.1	7193.4	4960.8	4335.9	4044.0	3884.4	3801.8	3686.2	3565.0	3471.4	3463.2
37.5°	10565.7	7259.5	4779.1	4162.4	3914.7	3823.8	3755.0	3598.1	3446.7	3333.8	3320.0
40°	11130.1	7314.5	4553.3	4000.0	3796.3	3779.8	3686.2	3490.7	3229.2	3102.5	3091.5
42.5°	11655.9	7331.0	4316.6	3826.6	3688.9	3680.7	3576.0	3273.2	3072.3	2992.4	2981.4
45°	12016.5	7317.3	4071.6	3664.1	3581.6	3537.5	3427.4	3116.3	2992.4	2920.9	2907.1
47.5°	12283.5	7245.7	3796.3	3493.5	3460.4	3399.9	3163.1	3017.2	2901.6	2830.0	2816.2
50°	12236.7	6948.4	3518.2	3328.3	3314.5	3262.2	2970.4	2893.3	2791.5	2714.4	2703.4
52.5°	11994.5	6384.0	3234.7	3146.6	3174.1	3072.3	2832.8	2744.7	2656.6	2568.5	2549.2
55°	12055.1	5976.6	3020.0	2970.4	3020.0	2788.7	2678.6	2585.0	2502.4	2417.1	2400.5
57.5°	12319.3	5574.7	2791.5	2780.5	2832.8	2571.2	2480.4	2362.0	2243.6	2174.8	2174.8
60°	10345.5	4063.3	2389.5	2417.1	2535.4	2395.0	2315.2	2194.1	2064.7	2004.1	2004.1
62.5°	6117.0	2549.2	1982.1	1951.8	2026.2	2114.2	2158.3	2059.2	1905.0	1825.2	1827.9
65°	2695.1	1855.5	1748.1	1723.3	1701.3	1761.9	1883.0	1891.3	1728.8	1635.2	1638.0
67.5°	1660.0	1679.3	1635.2	1616.0	1596.7	1585.7	1574.7	1580.2	1536.1	1450.8	1448.0
70°	1497.6	1549.9	1519.6	1503.1	1478.3	1459.0	1393.0	1285.6	1211.3	1189.3	1214.0
72.5°	1288.4	1359.9	1343.4	1335.2	1304.9	1258.1	1170.0	1065.4	977.3	922.2	933.2
75°	971.8	1029.6	1037.9	1040.6	1007.6	963.5	872.7	784.6	707.5	649.7	663.5
77.5°	558.8	591.9	600.1	608.4	583.6	567.1	506.5	443.2	401.9	341.4	357.9
80°	311.1	324.8	324.8	327.6	313.8	294.6	253.3	217.5	198.2	170.7	173.4
82.5°	187.2	192.7	195.5	198.2	190.0	170.7	140.4	115.6	104.6	90.8	88.1
85°	90.8	96.4	96.4	99.1	85.3	74.3	57.8	44.0	38.5	27.5	30.3
87.5°	22.0	24.8	24.8	22.0	19.3	13.8	8.3	2.8	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)