

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: P643278

Luminaire Tested: GWS-SA6E-750-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643278
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-SAGE-750-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY 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: 40300.2 lumens
Efficiency: N/A
Efficacy: 124.5 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

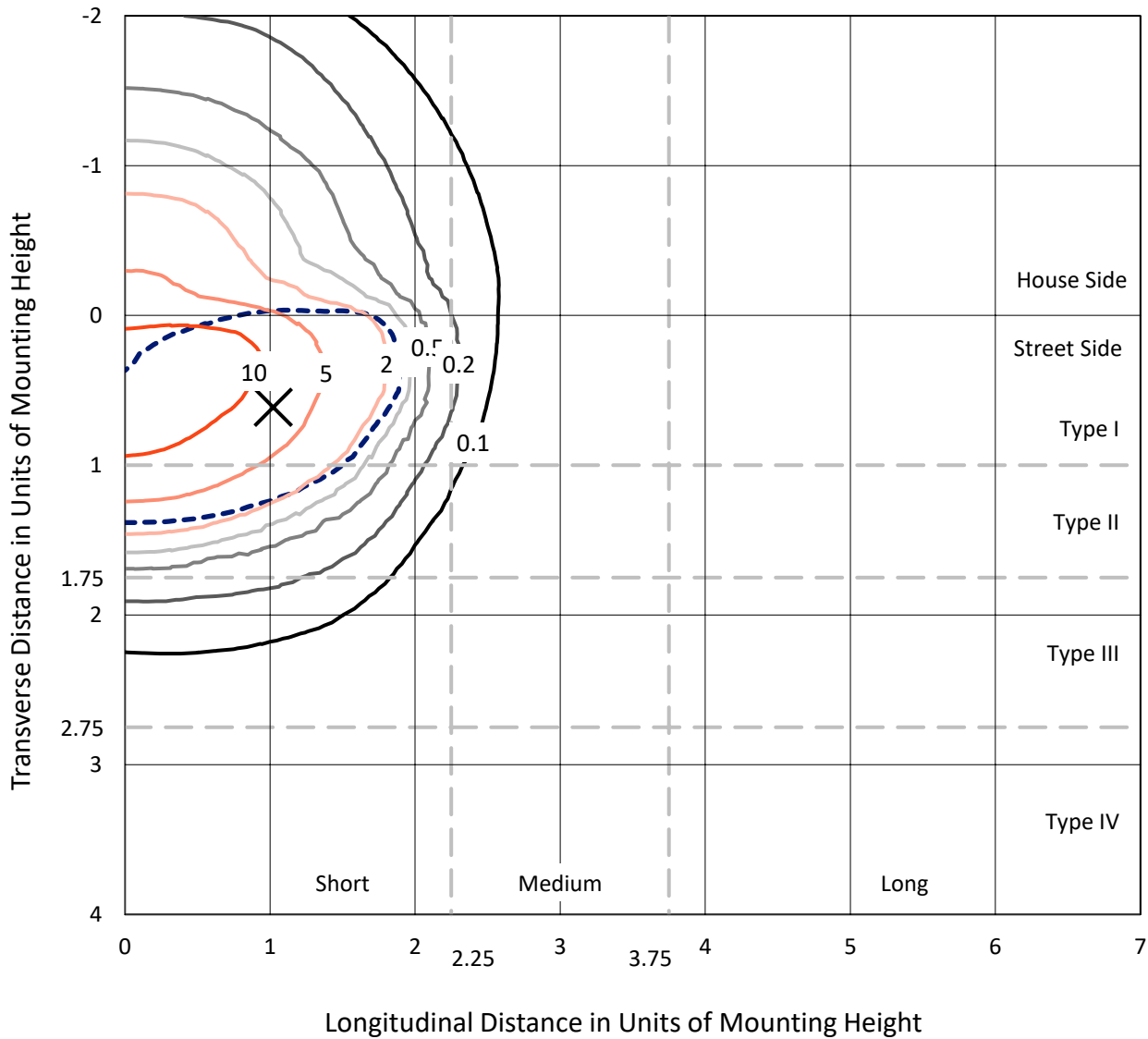


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Iso-Footcandle Lines of Horizontal Illumination

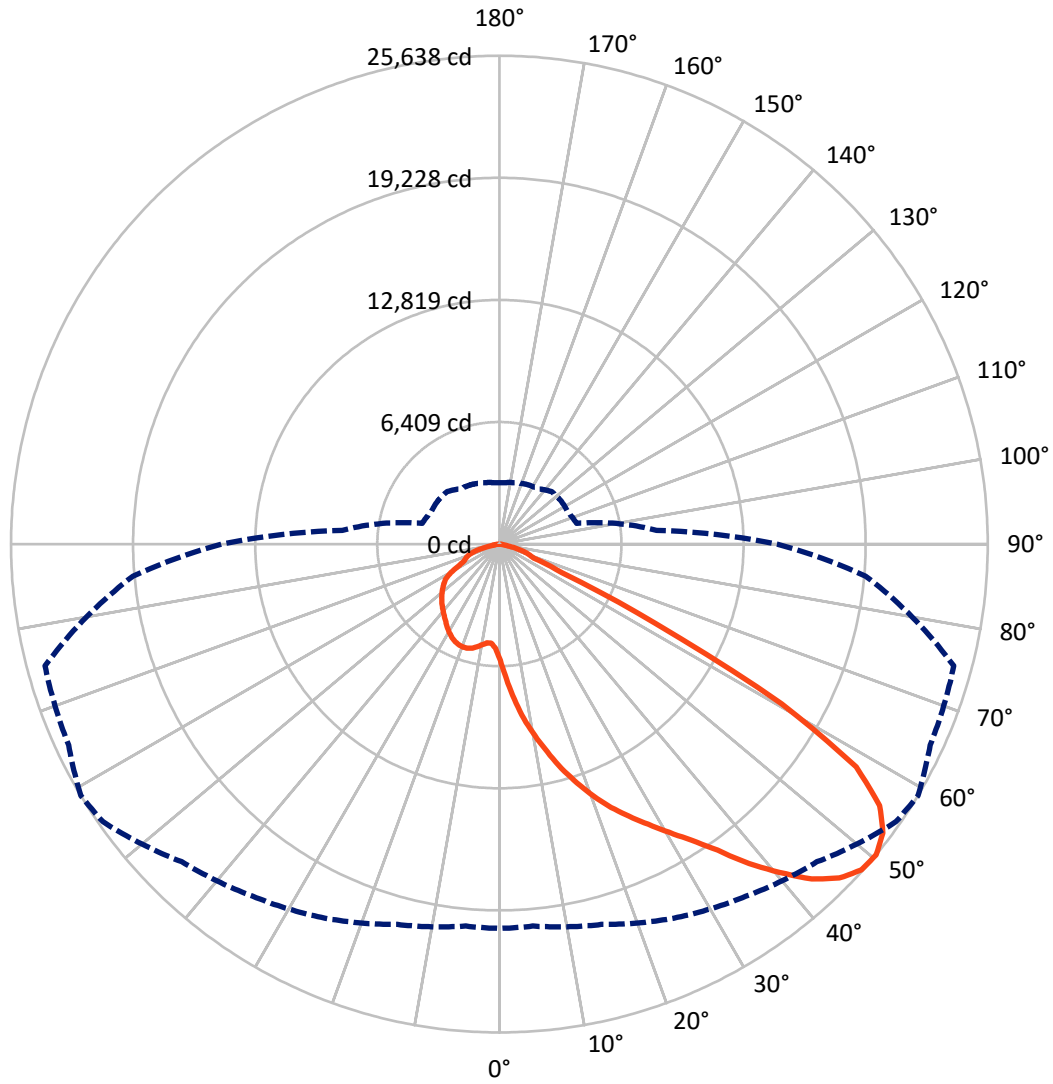
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.4 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	9269.8	0.0	9269.8
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	31030.4	0.0	31030.4
	% Fixture	77.0	0.0	77.0
Total	Lumens	40300.2	0.0	40300.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	685.0	1.7
10°-20°	2486.5	6.2
20°-30°	4708.5	11.7
30°-40°	7808.1	19.4
40°-50°	10666.3	26.5
50°-60°	9682.3	24.0
60°-70°	3224.3	8.0
70°-80°	940.4	2.3
80°-90°	98.8	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°	40300.2	100.0
0°-180°	40300.2	100.0

Coefficient of Utilization



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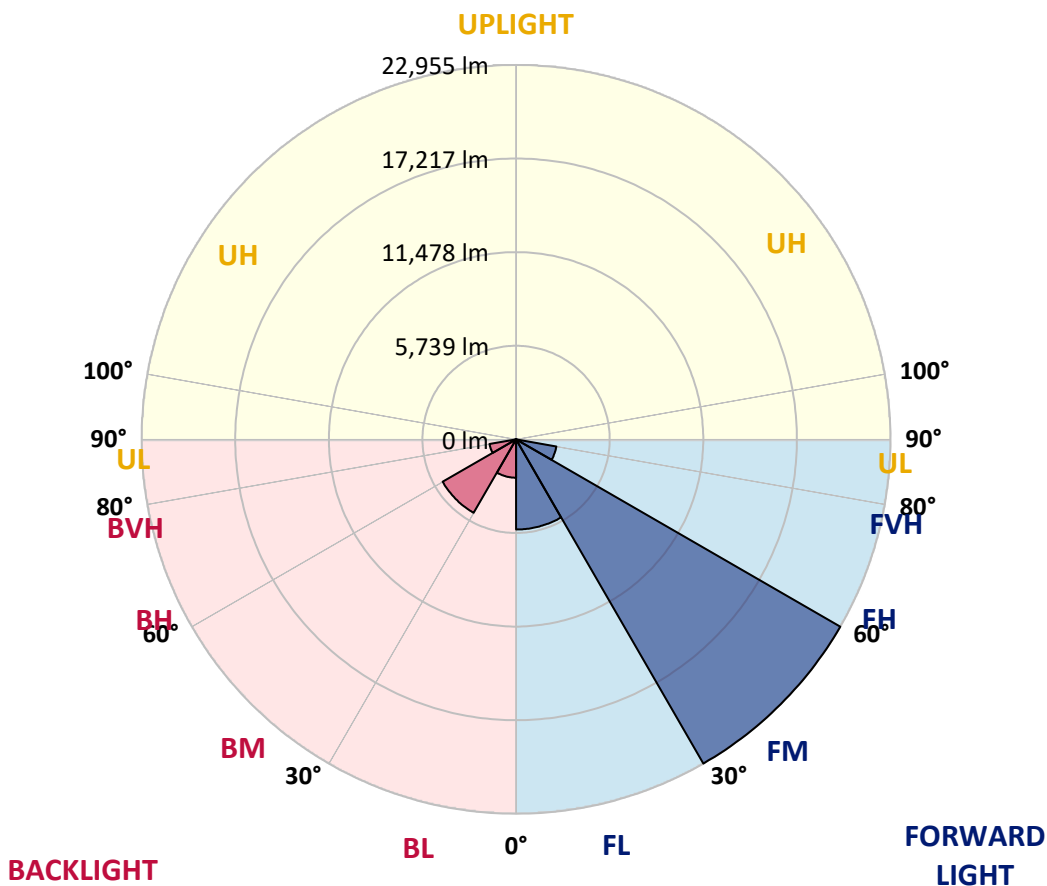
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5526.1	13.7			
FM (30°-60°)	22955.5	57.0			
FH (60°-80°)	2510.1	6.2			G2/5000
FVH (80°-90°)	38.6	0.1			G1/100
BL (0°-30°)	2353.8	5.8	B3/2500		
BM (30°-60°)	5201.3	12.9	B4/8500		
BH (60°-80°)	1654.6	4.1	B3/2500		G3/2500
BVH (80°-90°)	60.2	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°	55°	59°	65°	75°	85°
0°	6105.8	6105.8	6105.8	6105.8	6105.8	6105.8	6105.8	6105.8	6105.8	6105.8	6105.8
2.5°	7911.2	7970.3	7878.4	7885.0	7655.2	7550.1	7254.7	7080.7	6965.8	6644.1	6352.0
5°	9506.6	9437.7	9365.5	9322.8	9122.5	8840.2	8472.6	8180.4	7911.2	7281.0	6673.7
7.5°	10484.8	10448.7	10399.5	10373.2	10176.3	9880.8	9513.2	9263.7	8873.1	8019.6	7064.3
10°	11315.4	11272.7	11243.1	11262.8	11102.0	10911.6	10511.1	10225.5	9785.6	8800.8	7537.0
12.5°	11958.8	11981.7	11991.6	12096.6	12027.7	11912.8	11499.2	11197.2	10708.1	9624.8	8091.8
15°	12467.6	12461.0	12575.9	12776.1	12887.8	12815.5	12484.0	12231.2	11633.8	10435.6	8689.2
17.5°	12585.8	12592.3	12772.9	13124.1	13488.5	13665.8	13478.6	13176.6	12585.8	11236.6	9309.7
20°	12681.0	12694.1	12881.2	13281.7	13813.5	14309.2	14338.7	14122.0	13613.2	12103.2	9939.9
22.5°	13281.7	13311.2	13360.5	13613.2	14092.5	14719.5	15064.2	15018.2	14591.5	13012.5	10619.4
25°	14860.6	14772.0	14532.4	14460.2	14644.0	15152.8	15740.4	15829.0	15618.9	14013.7	11351.5
27.5°	16810.6	16715.4	16360.8	15986.6	15589.4	15766.7	16393.7	16659.5	16662.8	15116.7	12086.8
30°	18579.9	18504.4	18215.5	17680.5	16994.4	16738.3	17201.2	17559.0	17772.4	16390.4	12923.9
32.5°	20093.2	20024.3	19633.6	19197.1	18527.4	18012.0	18179.4	18524.1	19023.1	18038.3	13964.5
35°	21366.9	21298.0	20923.7	20483.9	19863.4	19554.9	19495.8	19732.1	20378.8	19758.4	15159.4
37.5°	22400.9	22332.0	21941.4	21527.7	21055.0	21074.7	21163.4	21278.3	21649.2	21600.0	16436.3
40°	23070.6	22998.4	22719.4	22423.9	22125.2	22361.5	22801.4	22663.6	22860.5	23087.0	17611.5
42.5°	23369.3	23277.4	23116.6	23050.9	22959.0	23326.6	24173.6	24035.7	23799.4	24078.4	18484.7
45°	23070.6	22991.8	22988.5	23188.8	23402.2	23874.9	25122.3	25010.7	24413.2	24557.7	19006.7
47.5°	22154.7	22085.8	22272.9	22798.1	23323.4	24012.7	25545.7	25565.4	24849.8	24757.9	19344.8
50°	20175.3	20129.3	20671.0	21665.6	22571.6	23582.7	25411.1	25637.6	24954.9	24695.5	19302.1
52.5°	16150.7	16364.1	17542.6	19203.6	20963.1	22827.7	24912.2	25207.6	24449.3	24285.2	19072.3
55°	11056.0	11154.5	12333.0	14758.9	17549.2	21192.9	23766.5	24222.8	23851.9	24216.3	19311.9
57.5°	5725.0	5803.8	6732.8	8886.2	11903.0	16748.2	20585.6	22082.5	22647.1	24564.2	20057.1
60°	2350.4	2416.0	2800.1	3840.7	6004.0	9752.8	14814.7	17033.8	18360.0	22433.8	17811.8
62.5°	1707.0	1739.8	1923.6	2291.3	3144.8	4779.6	8383.9	9201.3	10133.6	14059.7	11308.8
65°	1437.8	1473.9	1621.6	1844.9	2294.6	2931.4	3581.4	3601.1	3968.7	5728.3	4192.0
67.5°	1204.7	1237.6	1368.9	1559.3	1854.7	2081.2	1923.6	1926.9	1920.4	2077.9	2009.0
70°	938.8	965.1	1096.4	1299.9	1454.2	1336.0	1503.5	1664.3	1595.4	1657.7	1752.9
72.5°	686.1	715.6	830.5	984.8	945.4	952.0	1217.9	1382.0	1342.6	1411.5	1500.2
75°	495.7	515.4	574.5	492.4	518.7	627.0	856.8	945.4	984.8	1043.9	1122.7
77.5°	160.9	160.9	180.5	226.5	282.3	348.0	436.6	472.7	531.8	597.4	653.3
80°	82.1	85.3	101.8	124.7	157.6	200.2	256.0	272.5	302.0	338.1	361.1
82.5°	39.4	42.7	49.2	62.4	82.1	105.0	141.2	157.6	177.3	200.2	216.7
85°	9.8	9.8	13.1	19.7	26.3	39.4	52.5	62.4	78.8	95.2	105.0
87.5°	0.0	0.0	0.0	0.0	0.0	3.3	9.8	13.1	16.4	19.7	26.3
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°	6105.8	6105.8	6105.8	6105.8	6105.8	6105.8	6105.8	6105.8	6105.8	6105.8	6105.8
2.5°	6220.7	6036.8	5800.5	5600.2	5416.4	5275.2	5153.8	5094.7	5038.9	4999.5	5012.6
5°	6391.4	6076.2	5636.3	5331.1	5143.9	5048.7	4983.1	4950.3	4943.7	4917.4	4907.6
7.5°	6640.8	6191.1	5603.5	5294.9	5170.2	5121.0	5084.9	5065.2	5075.0	5048.7	5038.9
10°	6949.4	6381.5	5685.6	5413.1	5304.8	5268.7	5229.3	5203.0	5189.9	5150.5	5143.9
12.5°	7333.5	6617.9	5833.3	5564.1	5455.8	5393.4	5340.9	5294.9	5265.4	5216.2	5203.0
15°	7747.1	6880.5	6007.3	5711.8	5583.8	5491.9	5406.6	5337.6	5285.1	5219.4	5209.6
17.5°	8196.8	7156.2	6151.7	5813.6	5649.5	5528.0	5403.3	5301.5	5229.3	5143.9	5134.1
20°	8666.2	7435.2	6260.1	5862.8	5652.8	5488.6	5321.2	5186.6	5094.7	5009.4	5002.8
22.5°	9152.1	7691.3	6325.7	5849.7	5600.2	5396.7	5196.5	5045.5	4937.1	4835.4	4828.8
25°	9641.2	7937.5	6342.1	5797.2	5495.2	5258.8	5058.6	4881.3	4759.9	4645.0	4631.8
27.5°	10136.9	8144.3	6302.7	5692.1	5354.0	5098.0	4897.7	4723.8	4599.0	4484.1	4464.4
30°	10665.4	8321.6	6217.4	5554.3	5189.9	4927.3	4730.3	4599.0	4480.8	4366.0	4346.3
32.5°	11230.0	8475.9	6095.9	5386.9	4999.5	4756.6	4612.2	4494.0	4375.8	4274.0	4254.3
35°	11903.0	8577.6	5915.4	5170.2	4822.2	4631.8	4533.4	4395.5	4251.1	4139.4	4129.6
37.5°	12598.9	8656.4	5698.7	4963.4	4668.0	4559.6	4477.6	4290.4	4109.9	3975.3	3958.9
40°	13271.8	8722.1	5429.5	4769.7	4526.8	4507.1	4395.5	4162.4	3850.6	3699.6	3686.4
42.5°	13898.8	8741.7	5147.2	4562.9	4398.8	4388.9	4264.2	3903.1	3663.5	3568.3	3555.1
45°	14328.9	8725.3	4855.1	4369.2	4270.8	4218.2	4086.9	3716.0	3568.3	3482.9	3466.5
47.5°	14647.3	8640.0	4526.8	4165.7	4126.3	4054.1	3771.8	3597.8	3459.9	3374.6	3358.2
50°	14591.5	8285.5	4195.3	3968.7	3952.3	3890.0	3542.0	3450.1	3328.6	3236.7	3223.6
52.5°	14302.6	7612.5	3857.1	3752.1	3784.9	3663.5	3377.9	3272.8	3167.8	3062.7	3039.8
55°	14374.8	7126.7	3601.1	3542.0	3601.1	3325.3	3194.0	3082.4	2983.9	2882.2	2862.5
57.5°	14689.9	6647.4	3328.6	3315.5	3377.9	3066.0	2957.7	2816.5	2675.4	2593.3	2593.3
60°	12336.3	4845.2	2849.4	2882.2	3023.3	2855.9	2760.7	2616.3	2462.0	2389.8	2389.8
62.5°	7294.1	3039.8	2363.5	2327.4	2416.0	2521.1	2573.6	2455.4	2271.6	2176.4	2179.7
65°	3213.7	2212.5	2084.5	2055.0	2028.7	2100.9	2245.3	2255.2	2061.5	1949.9	1953.2
67.5°	1979.4	2002.4	1949.9	1926.9	1903.9	1890.8	1877.7	1884.3	1831.7	1730.0	1726.7
70°	1785.8	1848.1	1812.0	1792.3	1762.8	1739.8	1661.0	1533.0	1444.4	1418.1	1447.7
72.5°	1536.3	1621.6	1601.9	1592.1	1556.0	1500.2	1395.1	1270.4	1165.3	1099.7	1112.8
75°	1158.8	1227.7	1237.6	1240.8	1201.5	1148.9	1040.6	935.6	843.6	774.7	791.1
77.5°	666.4	705.8	715.6	725.5	695.9	676.2	604.0	528.5	479.3	407.1	426.7
80°	370.9	387.4	387.4	390.6	374.2	351.2	302.0	259.3	236.4	203.5	206.8
82.5°	223.2	229.8	233.1	236.4	226.5	203.5	167.4	137.9	124.7	108.3	105.0
85°	108.3	114.9	114.9	118.2	101.8	88.6	68.9	52.5	46.0	32.8	36.1
87.5°	26.3	29.5	29.5	26.3	23.0	16.4	9.8	3.3	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)