

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: P643253

Luminaire Tested: GWS-SA6E-750-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643253
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-750-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47137.8 lumens
Efficiency: N/A
Efficacy: 145.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

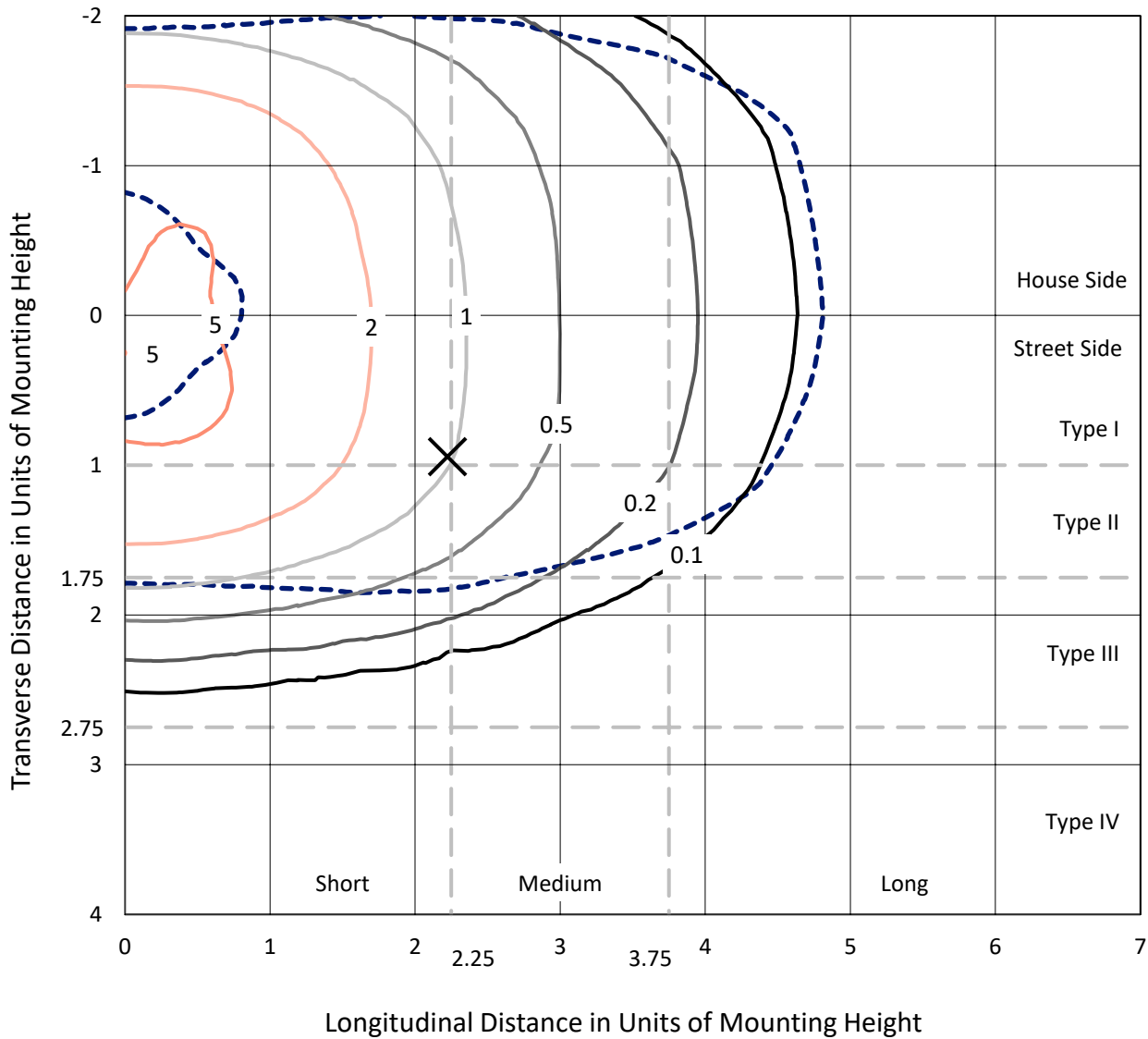
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P643253
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Iso-Footcandle Lines of Horizontal Illumination

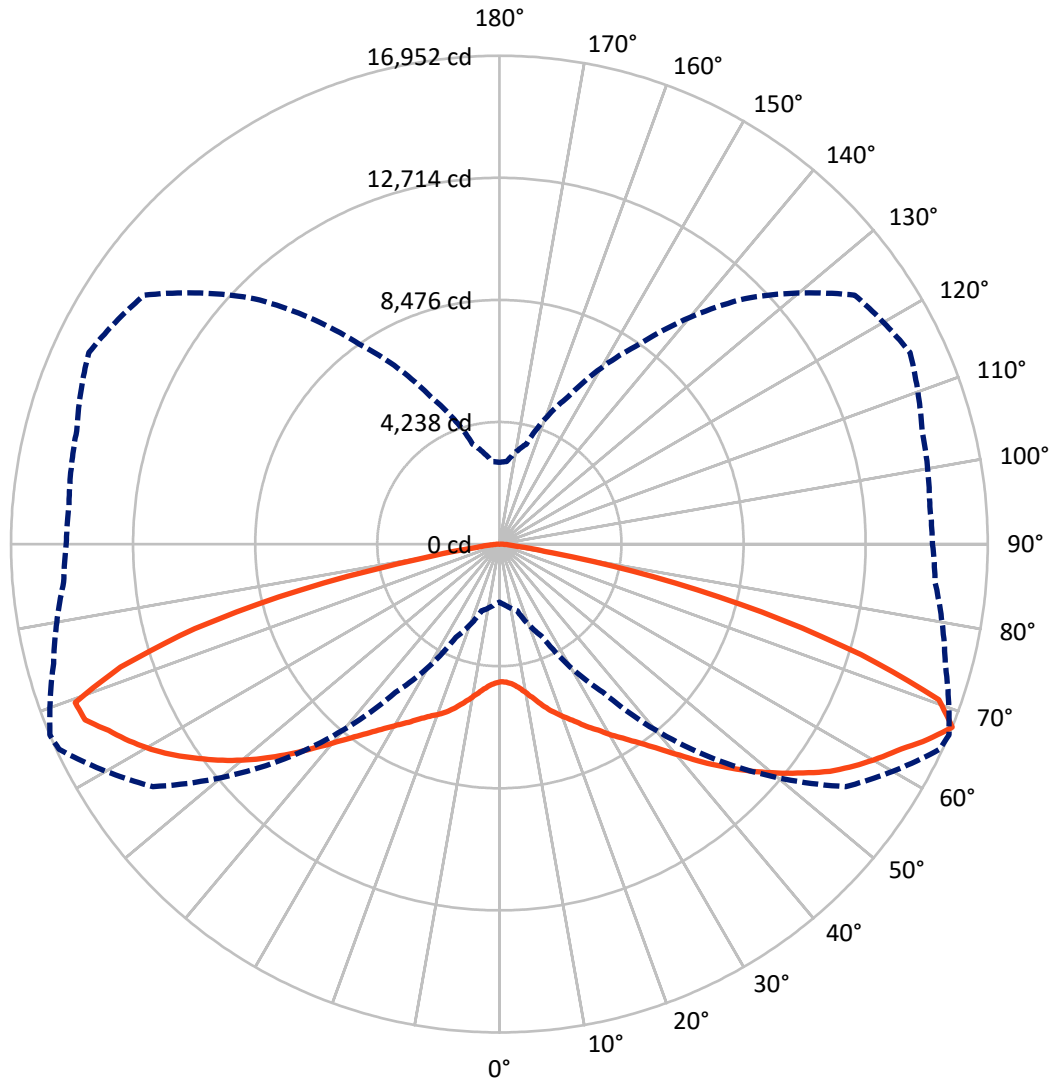
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Short - N/A

REPORT NUMBER: P643253
CATALOG NUMBER: GWS-SA6E-750-U-RW-W

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23308.8	0.0	23308.8
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	23829.0	0.0	23829.0
	% Fixture	50.6	0.0	50.6
Total	Lumens	47137.8	0.0	47137.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.3	1.0
10°-20°	1582.1	3.4
20°-30°	3104.0	6.6
30°-40°	5288.2	11.2
40°-50°	8491.7	18.0
50°-60°	11538.5	24.5
60°-70°	11037.3	23.4
70°-80°	5247.6	11.1
80°-90°	380.3	0.8
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°	47137.8	100.0
0°-180°	47137.8	100.0

Coefficient of Utilization



REPORT NUMBER: P643253

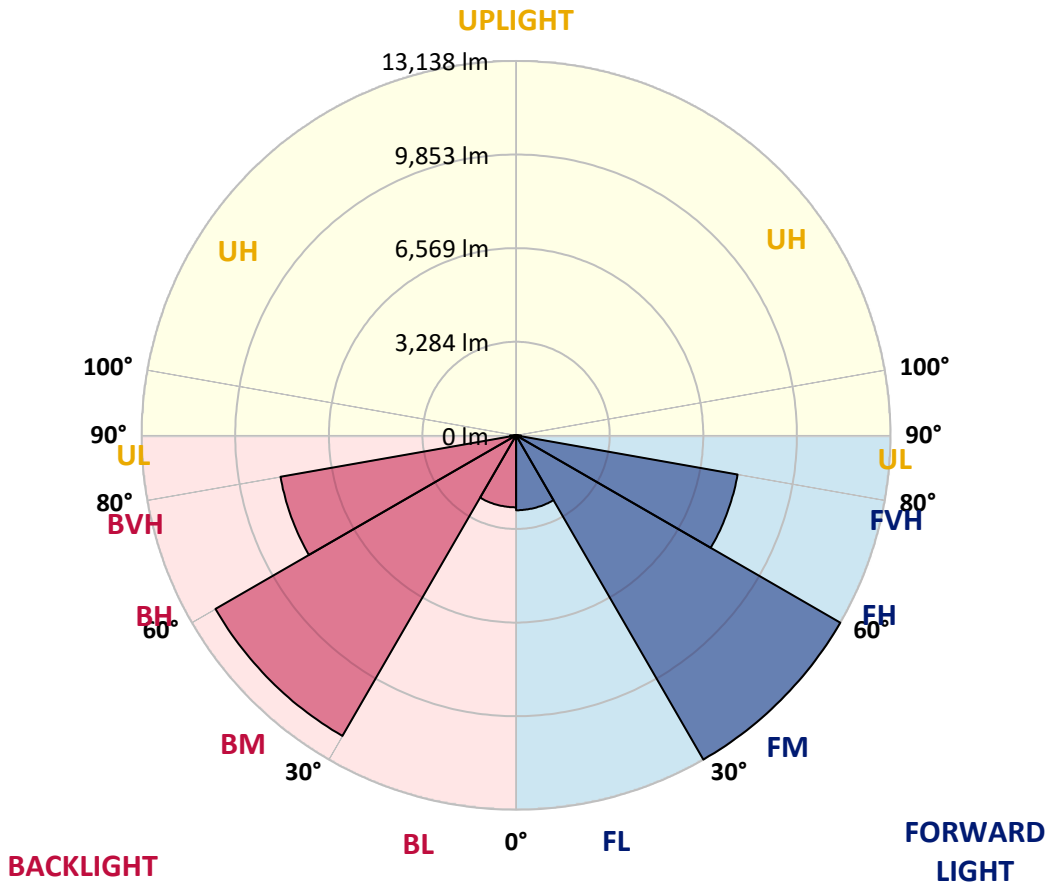
CATALOG NUMBER: GWS-SA6E-750-U-RW-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2628.3	5.6			
FM (30°-60°)	13137.7	27.9			
FH (60°-80°)	7892.1	16.7			G4/12000
FVH (80°-90°)	170.9	0.4			G2/225
BL (0°-30°)	2526.0	5.4	B4/5000		
BM (30°-60°)	12180.6	25.8	B5		
BH (60°-80°)	8392.8	17.8	B5		G5
BVH (80°-90°)	209.4	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short





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 CATALOG NUMBER: GWS-SA6E-750-U-RW-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4773.0	4773.0	4773.0	4773.0	4773.0	4773.0	4773.0	4773.0	4773.0	4773.0	4773.0
2.5°	4674.5	4681.1	4690.9	4710.6	4730.3	4759.8	4789.4	4786.1	4799.2	4809.1	4818.9
5°	4648.2	4654.8	4671.2	4697.5	4727.0	4776.2	4838.6	4864.9	4884.6	4920.7	4953.5
7.5°	4704.0	4717.2	4740.1	4776.2	4822.2	4884.6	4969.9	5015.9	5045.4	5111.1	5166.9
10°	4779.5	4795.9	4841.9	4910.8	4979.8	5075.0	5183.3	5252.2	5271.9	5357.3	5462.3
12.5°	4851.7	4871.4	4946.9	5071.7	5196.4	5324.4	5452.5	5537.8	5544.4	5659.3	5777.5
15°	4966.6	4983.1	5084.8	5245.7	5436.1	5613.3	5770.9	5830.0	5856.2	5938.3	6086.0
17.5°	5219.4	5239.1	5370.4	5544.4	5744.6	5931.7	6089.3	6138.5	6138.5	6207.5	6328.9
20°	5491.9	5511.6	5685.5	5908.8	6151.7	6342.1	6463.5	6417.6	6401.2	6420.9	6506.2
22.5°	5797.2	5833.3	6000.7	6260.0	6558.7	6791.8	6854.2	6716.3	6670.3	6624.4	6644.1
25°	6187.8	6230.5	6394.6	6670.3	6962.5	7208.7	7244.8	7031.4	7005.2	6844.3	6785.2
27.5°	6637.5	6670.3	6873.9	7146.3	7418.8	7625.6	7665.0	7402.4	7313.7	7090.5	6952.6
30°	7218.5	7248.1	7425.3	7694.5	7930.9	8075.3	8124.5	7763.5	7694.5	7353.1	7139.8
32.5°	7852.1	7865.2	8045.8	8305.1	8515.2	8653.1	8584.1	8163.9	8062.2	7678.1	7385.9
35°	8577.5	8577.5	8810.6	9020.7	9188.1	9227.5	9096.2	8616.9	8498.8	8081.9	7717.5
37.5°	9289.9	9309.6	9526.2	9775.7	9923.4	9916.9	9677.2	9152.0	9017.4	8564.4	8160.7
40°	10061.3	10104.0	10320.6	10599.7	10740.8	10721.1	10353.5	9769.1	9631.3	9096.2	8702.3
42.5°	10770.4	10839.3	11092.1	11377.6	11531.9	11518.8	11134.7	10478.2	10343.6	9739.6	9345.7
45°	11335.0	11407.2	11722.3	12119.5	12365.7	12342.7	11955.4	11213.5	11049.4	10415.8	9982.5
47.5°	11830.7	11906.2	12257.4	12677.6	13068.2	13107.6	12753.1	11955.4	11781.4	11141.3	10652.2
50°	12211.4	12247.5	12641.5	13101.0	13554.0	13774.0	13465.4	12700.6	12490.5	11856.9	11305.4
52.5°	12181.9	12231.1	12717.0	13340.7	13948.0	14309.0	14095.7	13403.0	13199.5	12510.2	11971.8
55°	11581.2	11630.4	12208.2	13117.4	14167.9	14699.7	14676.7	14072.7	13925.0	13176.5	12664.4
57.5°	10704.7	10813.0	11387.5	12369.0	13879.0	15011.5	15103.4	14683.3	14529.0	13829.8	13350.5
60°	9135.6	9280.0	9943.1	11216.8	12953.3	14906.5	15559.7	15198.6	15103.4	14437.1	13970.9
62.5°	6637.5	6742.6	7625.6	9296.4	11581.2	14158.0	15943.8	15730.4	15658.2	14982.0	14532.3
65°	3975.3	4214.9	4924.0	6575.1	9342.4	12746.5	15733.7	16426.4	16350.9	15543.3	15011.5
67.5°	2012.3	2120.6	2399.6	3565.0	6283.0	10547.1	14680.0	16859.7	16951.6	16022.6	15182.2
70°	1247.4	1276.9	1355.7	1759.5	3138.2	6929.7	12004.6	15730.4	16180.2	15947.1	14739.1
72.5°	1001.2	1007.8	1020.9	1096.4	1506.7	3240.0	7589.5	12319.8	13130.6	14893.4	14105.5
75°	830.5	833.8	837.1	860.1	938.8	1322.9	3693.0	8465.9	9414.6	12657.9	13078.1
77.5°	666.4	650.0	663.1	672.9	692.6	738.6	1273.7	4516.9	5478.7	8308.4	10113.8
80°	433.3	426.7	453.0	462.9	482.5	512.1	679.5	1533.0	1861.3	3023.3	3217.0
82.5°	233.1	219.9	275.7	265.9	275.7	298.7	400.5	561.3	630.3	912.6	771.4
85°	72.2	72.2	75.5	88.6	108.3	105.0	174.0	275.7	305.3	390.6	288.9
87.5°	13.1	13.1	13.1	13.1	13.1	16.4	36.1	55.8	75.5	134.6	101.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P643253
 CATALOG NUMBER: GWS-SA6E-750-U-RW-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4773.0	4773.0	4773.0	4773.0	4773.0	4773.0	4773.0	4773.0	4773.0	4773.0	4773.0
2.5°	4838.6	4809.1	4825.5	4835.3	4832.1	4825.5	4792.7	4786.1	4769.7	4743.4	4736.9
5°	4983.1	4950.2	4953.5	4943.7	4910.8	4868.2	4795.9	4759.8	4730.3	4697.5	4694.2
7.5°	5209.6	5173.4	5163.6	5117.6	5025.7	4927.2	4812.4	4746.7	4697.5	4654.8	4648.2
10°	5498.4	5462.3	5429.5	5321.2	5170.2	5038.9	4887.9	4792.7	4720.4	4667.9	4658.1
12.5°	5820.1	5790.6	5708.5	5551.0	5370.4	5216.1	5061.8	4943.7	4838.6	4759.8	4750.0
15°	6177.9	6112.3	5987.5	5784.0	5613.3	5488.6	5301.5	5140.6	4973.2	4868.2	4845.2
17.5°	6427.4	6371.6	6223.9	6026.9	5892.3	5784.0	5564.1	5334.3	5107.8	4953.5	4920.7
20°	6604.7	6545.6	6378.2	6233.7	6191.1	6099.2	5843.1	5577.2	5314.6	5124.2	5081.5
22.5°	6732.7	6670.3	6499.6	6427.4	6486.5	6470.1	6220.6	5918.6	5606.8	5380.3	5327.7
25°	6854.2	6795.1	6644.1	6670.3	6827.9	6877.1	6608.0	6256.7	5902.2	5636.3	5573.9
27.5°	6969.1	6893.6	6824.6	6969.1	7192.3	7284.2	6998.6	6601.4	6217.3	5944.9	5895.6
30°	7146.3	7057.7	7047.8	7257.9	7612.5	7691.2	7376.1	6978.9	6598.1	6322.4	6260.0
32.5°	7369.5	7287.5	7294.0	7609.2	8019.5	8085.2	7816.0	7445.0	7064.3	6788.5	6703.2
35°	7671.5	7569.8	7625.6	8012.9	8426.5	8548.0	8331.4	8022.8	7651.8	7369.5	7274.3
37.5°	8088.4	7940.7	8055.6	8462.7	8879.6	9060.1	8892.7	8662.9	8295.2	8009.7	7921.0
40°	8620.2	8498.8	8544.7	8994.4	9424.5	9641.1	9536.1	9309.6	8945.2	8646.5	8544.7
42.5°	9250.5	9129.0	9112.6	9591.9	10021.9	10350.2	10248.4	10041.6	9664.1	9322.7	9224.2
45°	9867.6	9756.0	9779.0	10268.1	10750.7	11108.5	11006.7	10763.8	10353.5	9959.5	9880.8
47.5°	10511.0	10419.1	10438.8	10957.5	11489.3	11847.1	11719.0	11423.6	10944.3	10524.2	10429.0
50°	11170.8	11065.8	11095.3	11640.3	12214.7	12552.8	12355.9	11919.3	11390.8	10980.4	10898.4
52.5°	11827.4	11702.6	11778.1	12293.5	12887.7	13156.8	12792.5	12264.0	11751.9	11344.8	11252.9
55°	12582.4	12451.1	12369.0	12920.5	13508.1	13619.7	13120.7	12503.6	11896.3	11433.5	11377.6
57.5°	13271.7	13160.1	13005.8	13557.3	13990.6	13908.6	13373.5	12437.9	11545.1	10950.9	10872.1
60°	13888.9	13793.7	13659.1	14128.5	14325.5	14141.6	13170.0	11660.0	10678.4	10058.0	10021.9
62.5°	14456.8	14355.0	14230.3	14630.7	14604.5	14177.7	12244.3	10465.1	9152.0	8485.6	8426.5
65°	14906.5	14814.6	14778.5	15093.6	15050.9	13472.0	10803.2	8508.6	6686.7	5935.0	5912.0
67.5°	15034.5	14998.4	15192.1	15727.1	15060.8	12053.9	8472.5	5642.9	3591.2	2878.9	2836.2
70°	14555.2	14552.0	15106.7	15871.6	13695.2	9207.8	4999.5	2544.0	1805.5	1601.9	1575.7
72.5°	13931.5	13921.7	14361.6	13691.9	10156.5	5038.9	2104.2	1362.3	1129.2	1073.4	1073.4
75°	12907.4	12881.1	13212.6	10415.8	5711.8	1897.4	1116.1	935.6	886.3	876.5	876.5
77.5°	10520.9	10300.9	9779.0	6437.3	1992.6	932.3	738.6	735.3	705.8	702.5	702.5
80°	3459.9	3459.9	4021.2	2455.4	879.7	574.5	521.9	548.2	518.7	499.0	495.7
82.5°	564.6	778.0	1106.3	702.5	476.0	357.8	321.7	341.4	357.8	285.6	285.6
85°	223.2	292.2	426.7	328.3	219.9	144.4	154.3	170.7	151.0	131.3	128.0
87.5°	85.3	105.0	151.0	78.8	46.0	26.3	16.4	16.4	13.1	13.1	13.1
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)