

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: P638852

Luminaire Tested: GWS-SA4F-760-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638852
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-760-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30260.7 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 225.3
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

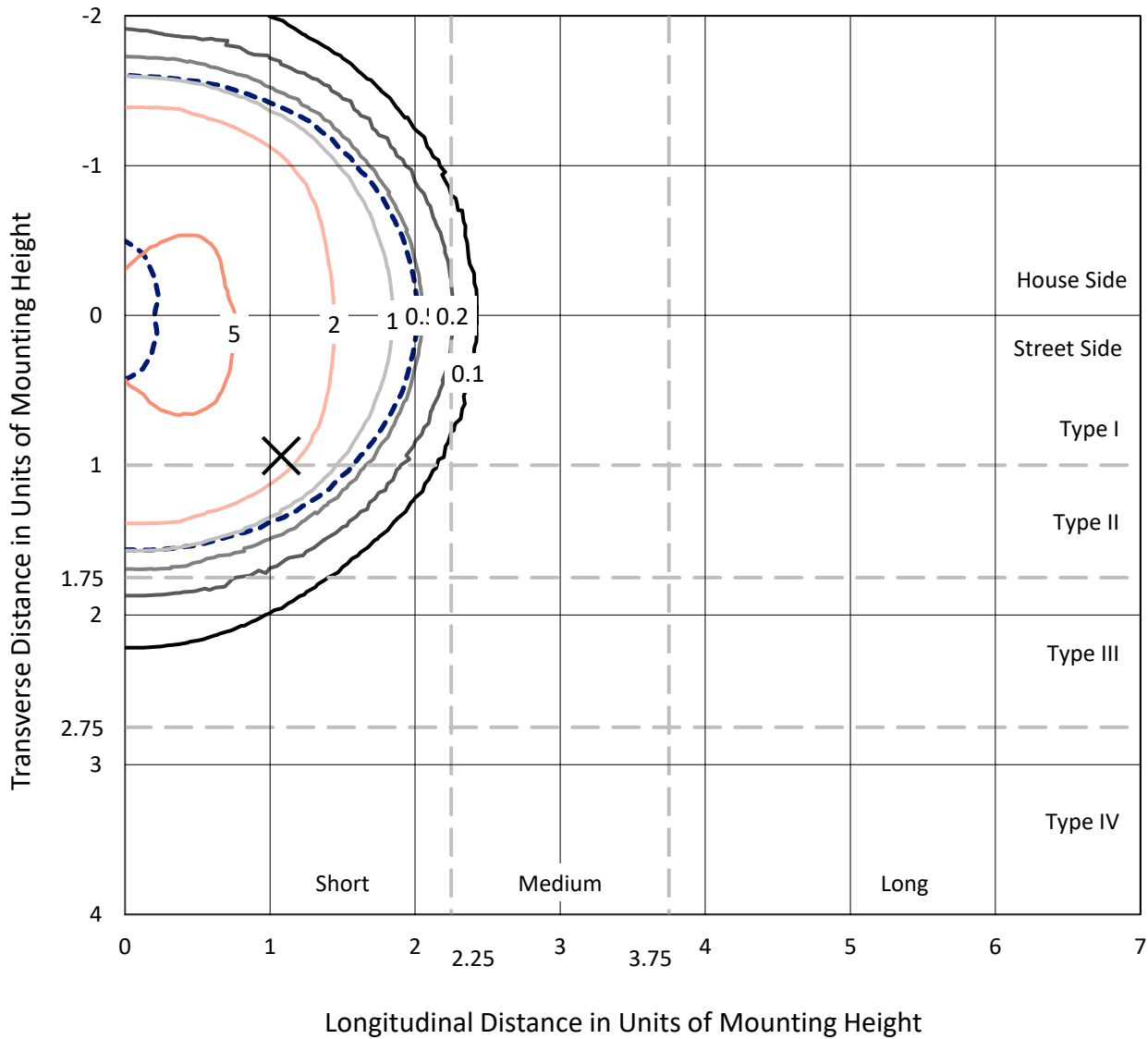


REPORT NUMBER: P638852

CATALOG NUMBER: GWS-SA4F-760-U-RW-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

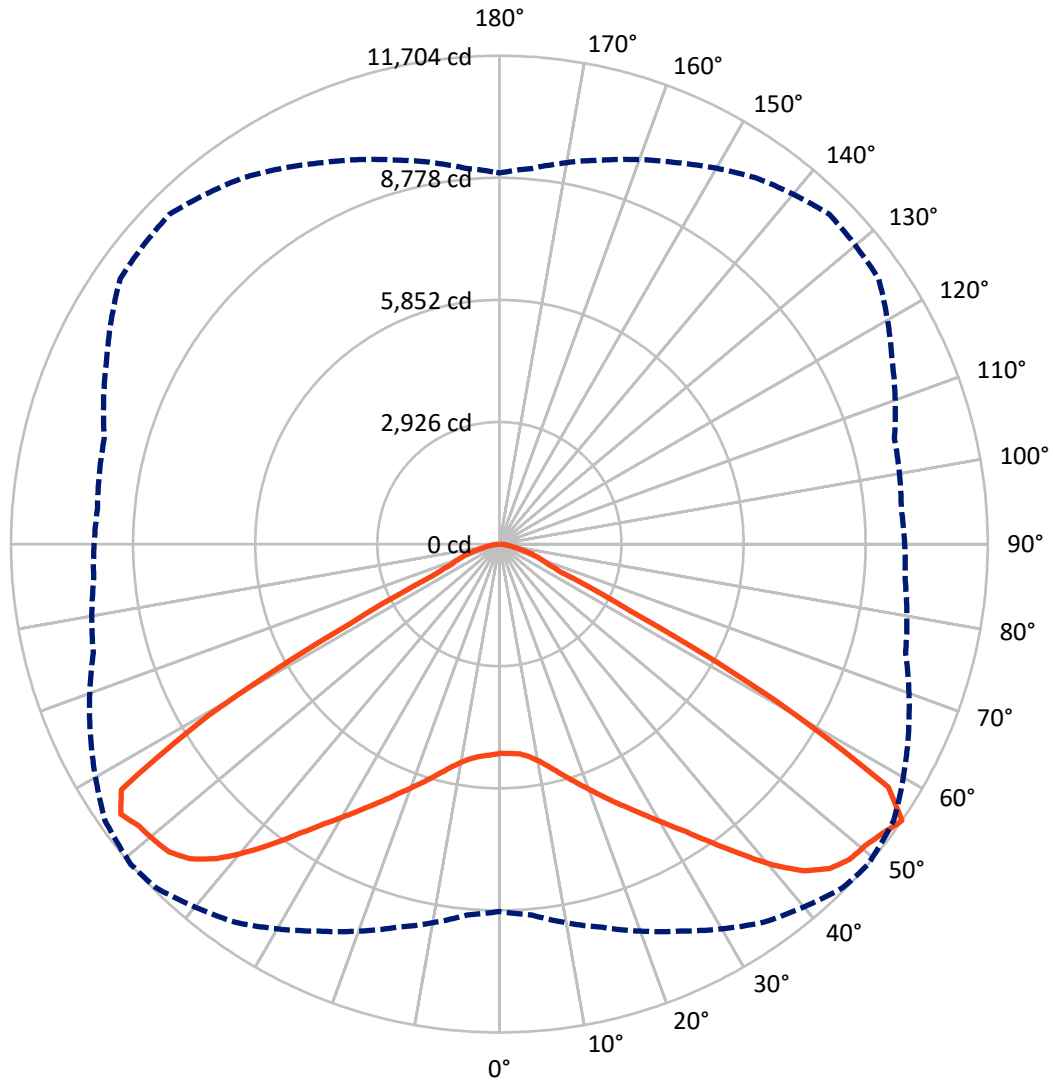
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type V - Short - N/A

REPORT NUMBER: P638852
CATALOG NUMBER: GWS-SA4F-760-U-RW-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P638852

CATALOG NUMBER: GWS-SA4F-760-U-RW-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14981.9	0.0	14981.9
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	15278.8	0.0	15278.8
	% Fixture	50.5	0.0	50.5
Total	Lumens	30260.7	0.0	30260.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	489.0	1.6
10°-20°	1613.0	5.3
20°-30°	3072.2	10.2
30°-40°	5208.1	17.2
40°-50°	7837.7	25.9
50°-60°	8579.2	28.4
60°-70°	2712.8	9.0
70°-80°	651.1	2.2
80°-90°	97.7	0.3
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°	30260.7	100.0
0°-180°	30260.7	100.0

Coefficient of Utilization



REPORT NUMBER: P638852

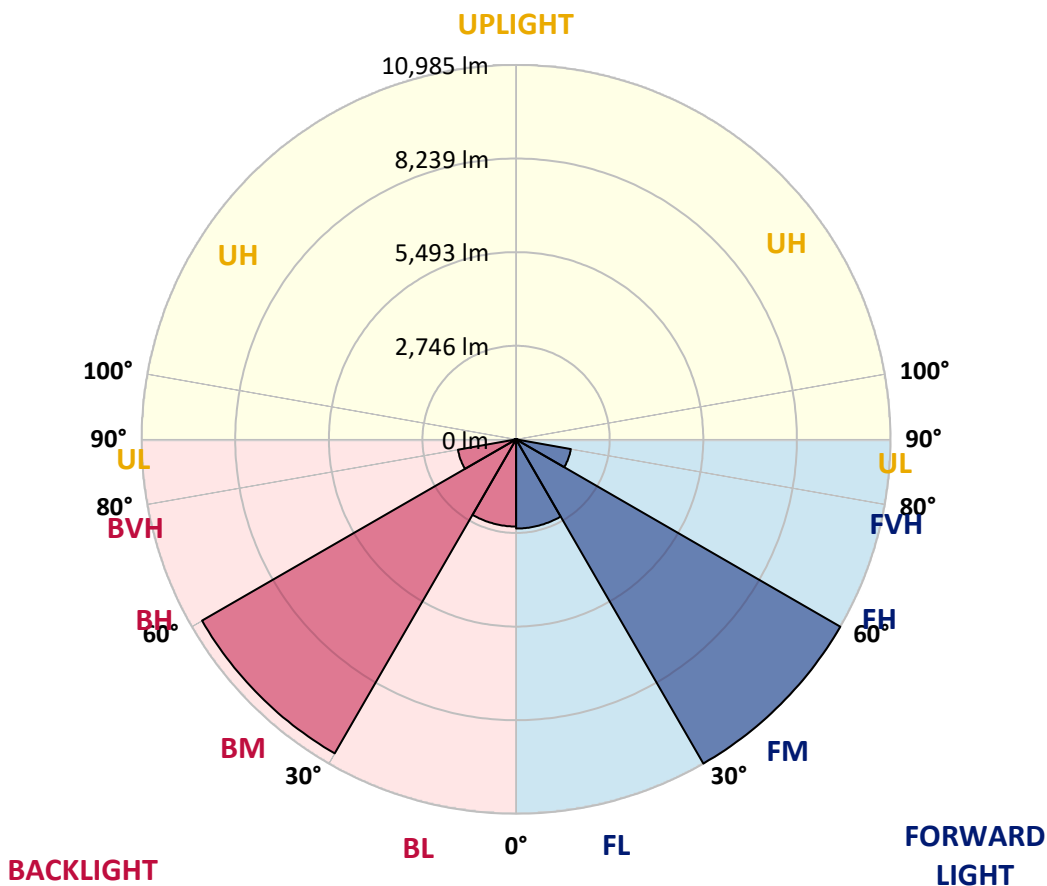
CATALOG NUMBER: GWS-SA4F-760-U-RW-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2616.3	8.6			
FM (30°-60°)	10985.5	36.3			
FH (60°-80°)	1631.8	5.4			G1/1800
FVH (80°-90°)	45.2	0.1			G1/100
BL (0°-30°)	2557.9	8.5	B4/5000		
BM (30°-60°)	10639.5	35.2	B5		
BH (60°-80°)	1732.1	5.7	B3/2500		G1/1800
BVH (80°-90°)	52.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





REPORT NUMBER: P638852

CATALOG NUMBER: GWS-SA4F-760-U-RW-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	5012.9	5012.9	5012.9	5012.9	5012.9	5012.9	5012.9	5012.9	5012.9	5012.9	5012.9
2.5°	4939.0	4944.0	4953.8	4971.0	4988.3	5012.9	5022.7	5035.0	5032.6	5047.3	5047.3
5°	4914.4	4921.8	4936.6	4961.2	4990.7	5037.5	5049.8	5079.3	5108.8	5145.8	5158.1
7.5°	4944.0	4953.8	4971.0	5010.4	5054.7	5116.2	5140.8	5190.1	5246.7	5313.1	5340.2
10°	5000.6	5012.9	5042.4	5106.4	5177.7	5271.3	5293.4	5354.9	5446.0	5537.0	5591.2
12.5°	5064.5	5084.2	5138.4	5239.3	5345.1	5468.1	5502.6	5578.9	5677.3	5795.4	5869.3
15°	5138.4	5155.6	5239.3	5382.0	5546.9	5709.3	5748.7	5822.5	5933.2	6048.9	6152.3
17.5°	5293.4	5322.9	5421.4	5586.3	5778.2	5970.2	6014.5	6098.1	6186.7	6277.8	6376.2
20°	5505.0	5529.7	5655.2	5859.4	6085.8	6260.5	6304.8	6378.7	6420.5	6467.3	6550.9
22.5°	5716.7	5751.1	5893.9	6135.0	6400.8	6590.3	6624.8	6693.7	6664.1	6649.4	6703.5
25°	5980.0	6026.8	6167.0	6430.4	6701.1	6934.8	6961.9	7021.0	6971.8	6895.5	6893.0
27.5°	6307.3	6349.1	6494.3	6765.0	7033.3	7276.9	7328.6	7407.3	7299.1	7205.5	7139.1
30°	6696.1	6723.2	6883.2	7171.1	7446.7	7678.0	7744.5	7823.2	7742.0	7587.0	7520.5
32.5°	7148.9	7185.8	7370.4	7673.1	7919.2	8150.5	8217.0	8315.4	8226.8	8052.1	7968.4
35°	7692.8	7729.7	7924.1	8253.9	8504.9	8743.6	8790.4	8871.6	8760.8	8559.0	8492.6
37.5°	8283.4	8330.2	8576.3	8888.8	9152.1	9430.2	9432.7	9457.3	9299.8	9048.8	8974.9
40°	8947.9	9009.4	9255.5	9580.3	9897.8	10124.2	10121.7	10052.8	9787.0	9398.2	9285.0
42.5°	9604.9	9654.1	9902.7	10237.4	10554.8	10768.9	10704.9	10537.6	10153.7	9624.6	9474.5
45°	10079.9	10116.8	10377.6	10754.2	11076.5	11209.4	11093.8	10892.0	10372.7	9767.3	9545.9
47.5°	10303.8	10353.0	10616.4	10990.4	11354.6	11430.9	11293.1	11103.6	10500.7	9900.2	9602.5
50°	10183.2	10247.2	10545.0	10892.0	11302.9	11460.4	11362.0	11172.5	10636.0	10030.7	9703.4
52.5°	9870.7	9932.2	10308.7	10729.6	11194.7	11507.2	11504.7	11349.7	10791.1	10067.6	9708.3
55°	8802.7	8923.3	9508.9	10234.9	11061.8	11645.0	11704.1	11539.2	10815.7	10077.4	9760.0
57.5°	5729.0	5940.6	6496.8	7441.8	9100.4	10591.7	10990.4	11029.8	10638.5	10035.6	9769.8
60°	2392.0	2561.8	3002.3	3629.8	5000.6	6774.9	7547.6	8322.8	9257.9	9597.5	9678.7
62.5°	1486.4	1501.2	1545.4	1688.2	2145.9	3012.2	3509.3	4235.2	5625.6	6809.3	7355.7
65°	1341.2	1348.6	1358.4	1348.6	1370.7	1476.5	1609.4	1862.9	2428.9	3017.1	3716.0
67.5°	1181.2	1191.1	1198.5	1191.1	1198.5	1203.4	1218.1	1240.3	1343.7	1427.3	1491.3
70°	954.8	969.6	981.9	977.0	1006.5	1006.5	1021.3	1038.5	1090.2	1151.7	1196.0
72.5°	728.4	716.1	730.9	735.8	762.9	777.6	799.8	819.5	878.5	915.5	972.1
75°	472.5	460.2	482.3	494.6	531.6	551.2	570.9	590.6	632.5	657.1	711.2
77.5°	255.9	253.5	275.6	292.8	332.2	356.8	371.6	386.4	420.8	428.2	462.7
80°	147.7	147.7	162.4	174.7	199.3	226.4	241.2	253.5	278.1	285.5	300.2
82.5°	81.2	81.2	88.6	96.0	115.7	130.4	142.7	152.6	174.7	182.1	189.5
85°	39.4	36.9	41.8	46.8	54.1	61.5	68.9	73.8	91.1	96.0	105.8
87.5°	4.9	4.9	4.9	7.4	9.8	14.8	17.2	17.2	27.1	32.0	36.9
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: P638852

CATALOG NUMBER: GWS-SA4F-760-U-RW-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5012.9	5012.9	5012.9	5012.9	5012.9	5012.9	5012.9	5012.9	5012.9	5012.9	5012.9
2.5°	5062.1	5030.1	5049.8	5057.2	5057.2	5049.8	5017.8	5007.9	4993.2	4971.0	4971.0
5°	5175.3	5150.7	5155.6	5143.3	5113.8	5076.9	5017.8	4988.3	4963.7	4936.6	4934.1
7.5°	5369.7	5337.7	5332.8	5286.0	5207.3	5128.5	5039.9	4985.8	4948.9	4914.4	4912.0
10°	5623.2	5593.6	5556.7	5463.2	5347.6	5231.9	5111.3	5037.5	4983.3	4934.1	4931.7
12.5°	5906.2	5871.7	5802.8	5665.0	5519.8	5406.6	5268.8	5155.6	5074.4	5007.9	4995.6
15°	6213.8	6164.6	6046.4	5884.0	5741.3	5620.7	5473.1	5310.6	5187.6	5081.8	5069.5
17.5°	6450.0	6386.1	6258.1	6105.5	5987.4	5866.8	5674.9	5470.6	5293.4	5160.5	5140.8
20°	6612.5	6560.8	6415.6	6302.4	6233.5	6127.7	5903.7	5672.4	5473.1	5305.7	5295.9
22.5°	6762.6	6701.1	6558.3	6491.9	6491.9	6420.5	6206.4	5933.2	5699.5	5505.0	5480.4
25°	6932.4	6865.9	6757.7	6750.3	6784.7	6752.7	6494.3	6201.5	5928.3	5709.3	5669.9
27.5°	7168.6	7094.8	7030.8	7075.1	7124.3	7089.9	6801.9	6462.3	6174.4	5952.9	5918.5
30°	7545.1	7454.1	7395.0	7449.2	7545.1	7444.2	7131.7	6772.4	6482.0	6238.4	6221.2
32.5°	7983.2	7879.8	7818.3	7904.4	7990.6	7833.1	7523.0	7178.5	6873.3	6617.4	6587.8
35°	8509.8	8379.4	8288.3	8404.0	8492.6	8337.6	8029.9	7702.6	7363.0	7097.3	7057.9
37.5°	8977.4	8819.9	8758.4	8920.8	9038.9	8938.0	8603.3	8295.7	7924.1	7633.7	7616.5
40°	9317.0	9162.0	9117.7	9385.9	9592.6	9568.0	9267.8	8915.9	8566.4	8231.7	8199.7
42.5°	9464.7	9356.4	9366.2	9728.0	10047.9	10205.4	9937.1	9560.6	9223.5	8876.5	8854.3
45°	9496.6	9430.2	9508.9	9961.8	10382.6	10704.9	10476.1	10161.1	9779.6	9445.0	9435.1
47.5°	9531.1	9494.2	9614.8	10094.6	10594.2	10968.3	10840.3	10515.5	10129.1	9801.8	9777.2
50°	9612.3	9597.5	9732.9	10188.2	10695.1	11039.6	10894.4	10572.1	10175.9	9853.5	9794.4
52.5°	9636.9	9612.3	9806.7	10333.4	10862.4	11037.2	10724.6	10303.8	9905.2	9545.9	9484.3
55°	9713.2	9668.9	9801.8	10387.5	11093.8	11179.9	10714.8	10084.8	9528.6	9038.9	8893.7
57.5°	9732.9	9683.7	9769.8	10298.9	10842.8	10766.5	9417.9	8138.2	7089.9	6546.0	6607.5
60°	9627.1	9641.8	9494.2	9435.1	8696.8	7678.0	5765.9	4609.3	3620.0	3201.6	3292.7
62.5°	7328.6	7390.1	6885.6	5987.4	4604.4	3649.5	2414.2	1875.2	1587.3	1513.5	1525.8
65°	3698.7	3782.4	3258.2	2694.7	2003.2	1619.3	1400.3	1356.0	1341.2	1324.0	1324.0
67.5°	1464.2	1488.8	1469.2	1375.6	1279.7	1245.2	1235.4	1230.5	1213.2	1203.4	1205.8
70°	1176.3	1196.0	1166.5	1107.4	1068.0	1065.6	1060.7	1050.8	1038.5	1038.5	1045.9
72.5°	959.8	979.4	937.6	900.7	871.2	849.0	836.7	829.3	812.1	812.1	819.5
75°	706.3	718.6	684.1	679.2	647.2	625.1	605.4	595.5	573.4	563.5	570.9
77.5°	470.0	467.6	450.3	450.3	438.0	411.0	388.8	366.7	337.1	317.5	322.4
80°	305.2	305.2	297.8	297.8	285.5	263.3	236.2	214.1	196.9	182.1	182.1
82.5°	194.4	192.0	189.5	187.0	182.1	160.0	140.3	125.5	113.2	103.4	105.8
85°	108.3	108.3	103.4	103.4	93.5	81.2	71.4	61.5	54.1	51.7	51.7
87.5°	36.9	36.9	34.5	34.5	29.5	22.1	17.2	14.8	12.3	9.8	12.3
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)