

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: P638855

Luminaire Tested: GWS-SA4F-760-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638855
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-760-U-SL2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR 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: 29237 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

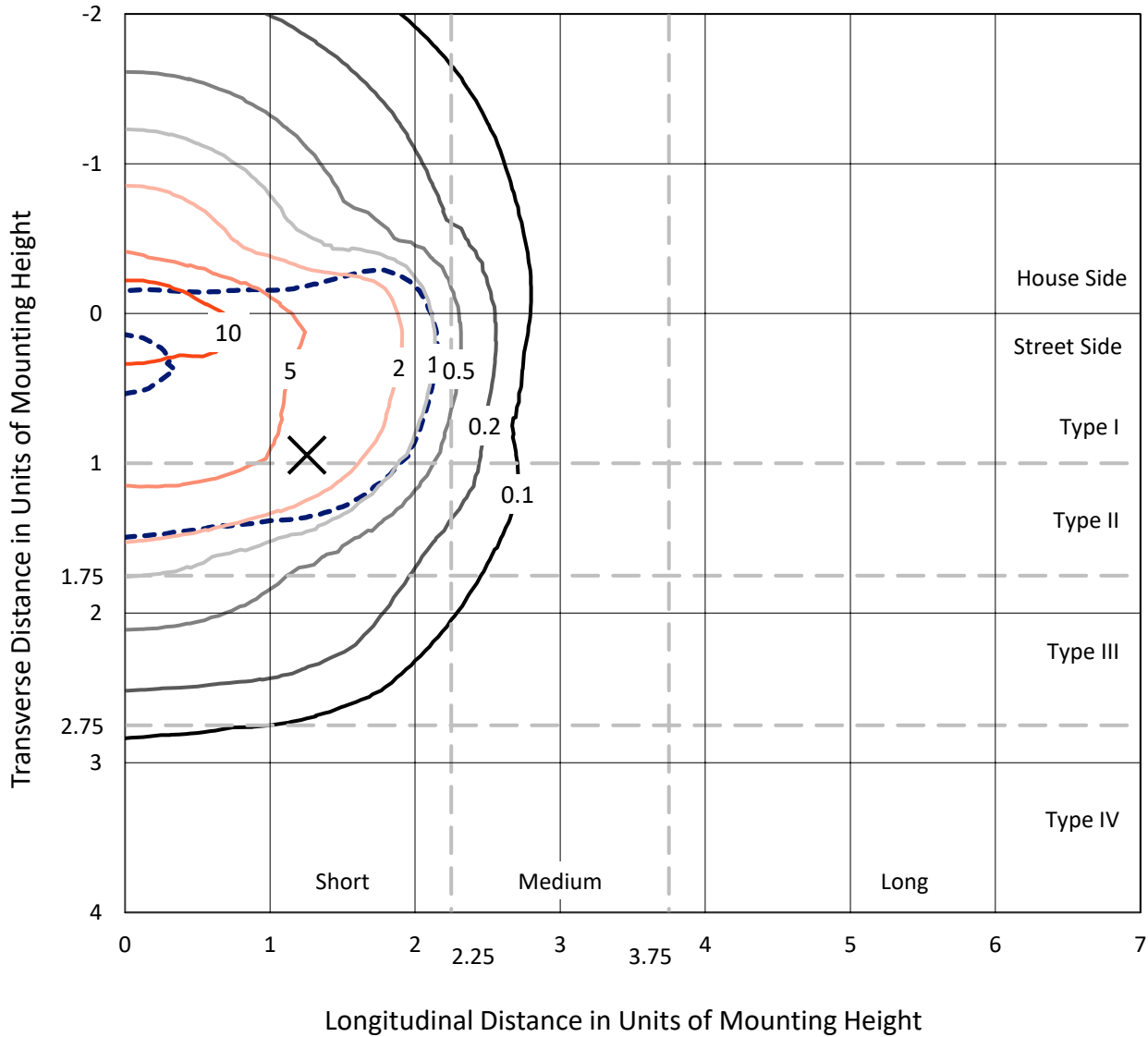
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

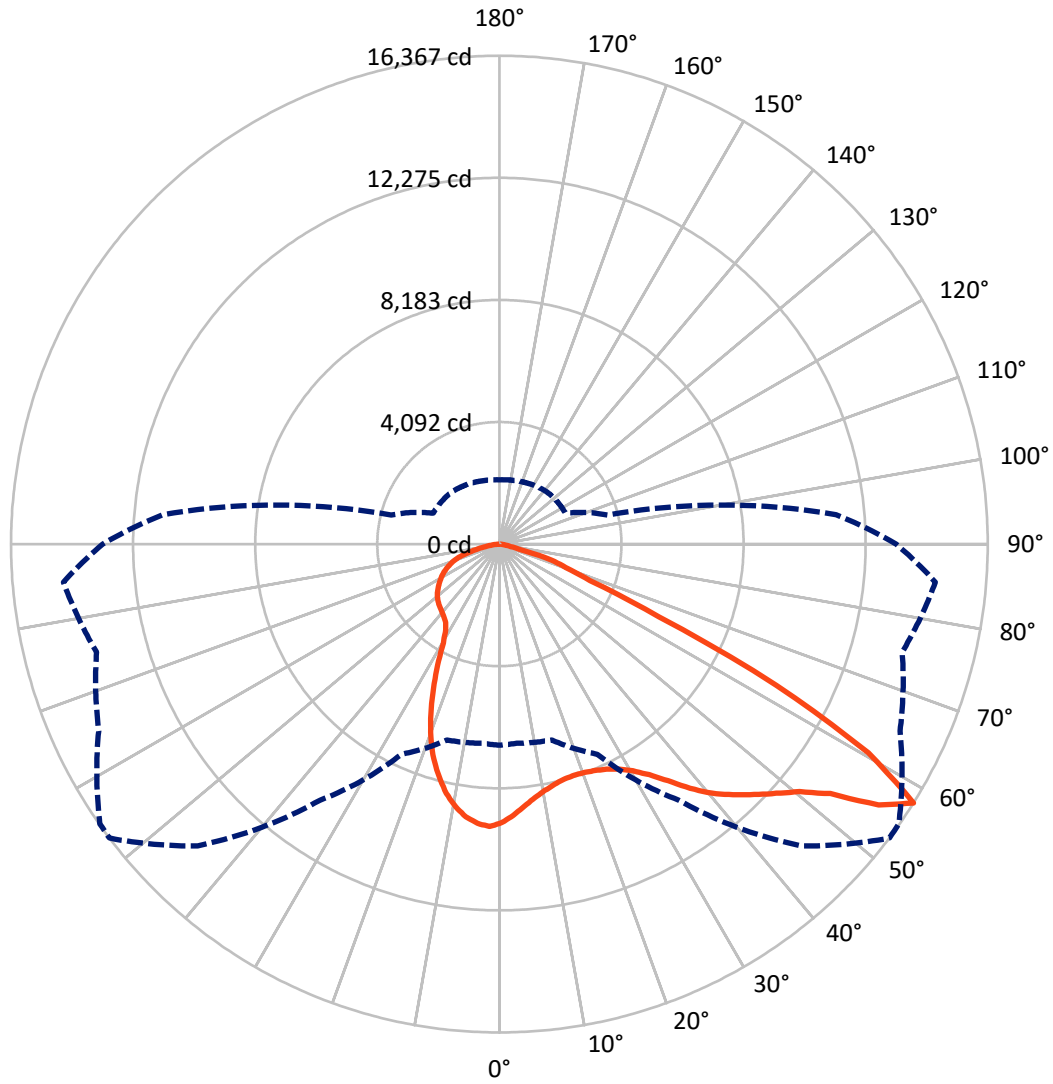
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9141.3	0.0	9141.3
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	20095.7	0.0	20095.7
	% Fixture	68.7	0.0	68.7
Total	Lumens	29237.0	0.0	29237.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	844.3	2.9
10°-20°	2215.0	7.6
20°-30°	3263.4	11.2
30°-40°	4567.9	15.6
40°-50°	6004.9	20.5
50°-60°	7040.8	24.1
60°-70°	4147.8	14.2
70°-80°	1031.8	3.5
80°-90°	121.1	0.4
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°	29237.0	100.0
0°-180°	29237.0	100.0

Coefficient of Utilization



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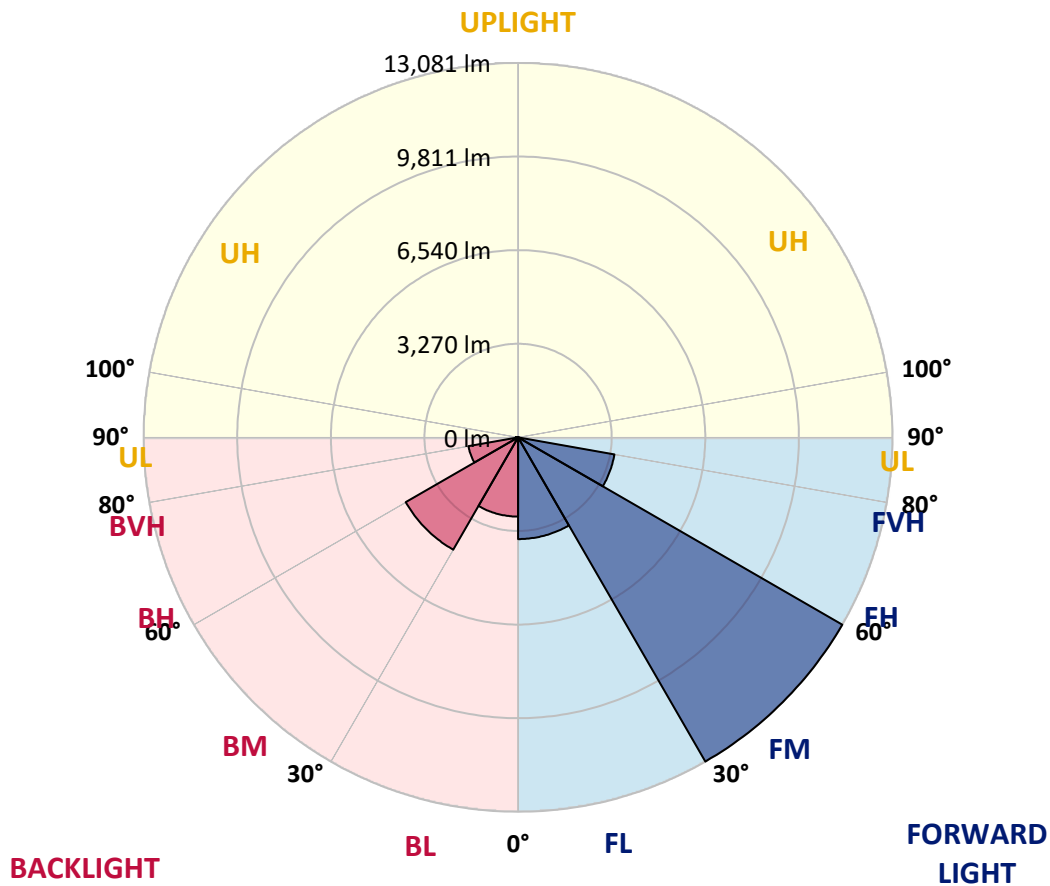
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3554.6	12.2			
FM (30°-60°)	13080.9	44.7			
FH (60°-80°)	3419.6	11.7			G2/5000
FVH (80°-90°)	40.5	0.1			G1/100
BL (0°-30°)	2768.0	9.5	B4/5000		
BM (30°-60°)	4532.7	15.5	B3/5000		
BH (60°-80°)	1760.0	6.0	B3/2500		G3/2500
BVH (80°-90°)	80.6	0.3			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°	53°	55°	65°	75°	85°
0°	9336.2	9336.2	9336.2	9336.2	9336.2	9336.2	9336.2	9336.2	9336.2	9336.2	9336.2
2.5°	8799.7	8824.3	8829.2	8905.5	8910.5	9021.2	9095.0	9080.2	9156.5	9250.0	9323.9
5°	8378.9	8381.4	8406.0	8497.0	8546.3	8691.4	8814.5	8814.5	8962.1	9154.1	9318.9
7.5°	8032.0	8029.5	8051.6	8152.5	8233.7	8408.5	8575.8	8595.5	8802.2	9082.7	9350.9
10°	7709.6	7726.8	7751.4	7874.5	7977.8	8194.4	8393.7	8425.7	8686.5	9033.5	9395.2
12.5°	7502.9	7505.4	7542.3	7680.1	7812.9	8044.3	8253.4	8292.8	8593.0	8986.7	9427.2
15°	7370.0	7372.5	7411.8	7564.4	7719.4	7953.2	8167.3	8211.6	8538.9	8979.4	9488.7
17.5°	7310.9	7308.5	7345.4	7498.0	7667.8	7911.4	8140.2	8194.4	8563.5	9035.9	9597.0
20°	7310.9	7313.4	7333.1	7470.9	7643.2	7901.5	8167.3	8233.7	8659.5	9163.9	9764.3
22.5°	7414.3	7424.1	7434.0	7527.5	7662.8	7916.3	8238.7	8327.2	8866.2	9378.0	9983.3
25°	7616.1	7618.5	7628.4	7704.7	7766.2	7958.1	8356.8	8489.7	9188.5	9690.5	10259.0
27.5°	7886.8	7921.2	7931.1	7980.3	7980.3	8061.5	8541.3	8733.3	9624.1	10140.8	10610.8
30°	8265.7	8278.0	8295.3	8349.4	8290.3	8255.9	8812.0	9058.1	10128.5	10684.7	11034.1
32.5°	8597.9	8625.0	8718.5	8807.1	8701.3	8593.0	9210.7	9501.0	10613.3	11250.6	11484.4
35°	8880.9	8947.4	9127.0	9323.9	9250.0	9141.8	9739.7	10042.4	11011.9	11656.7	11883.1
37.5°	9223.0	9274.6	9520.7	9840.6	9907.1	9855.4	10384.5	10601.0	11277.7	11760.0	12099.6
40°	9569.9	9648.7	9966.1	10409.1	10662.5	10699.4	10980.0	11125.1	11368.8	11558.2	12057.8
42.5°	9924.3	10059.6	10495.2	11011.9	11462.3	11545.9	11482.0	11543.5	11339.2	11280.2	11863.4
45°	10357.4	10517.3	11009.5	11669.0	12262.0	12392.4	11974.1	11917.5	11334.3	11174.4	11742.8
47.5°	10869.2	11029.2	11499.2	12266.9	13024.9	13120.8	12478.6	12375.2	11506.6	11336.8	11905.2
50°	11322.0	11432.7	11853.5	12712.3	13736.0	13792.6	13034.7	12909.2	11934.7	11787.1	12412.1
52.5°	10861.8	10849.5	11292.5	12350.6	14105.1	14786.8	13891.1	13770.5	12761.6	12535.2	13197.1
55°	9215.6	9075.3	9471.5	10512.4	13074.1	15670.2	15426.6	15185.4	13864.0	13288.2	13932.9
57.5°	6737.6	6698.2	6794.2	7771.1	10473.0	14302.0	16366.6	16344.4	14816.3	13977.2	14666.2
60°	5268.5	5209.5	4953.5	4980.6	7138.7	11171.9	14203.6	14855.7	15406.9	14390.6	15178.0
62.5°	4677.9	4633.6	4500.7	4134.1	4252.2	7490.6	10411.5	11009.5	13462.9	12709.9	13037.2
65°	3873.3	3860.9	3971.7	3956.9	3563.2	4136.6	5876.3	6479.2	8465.1	8570.9	8465.1
67.5°	2815.1	2793.0	3073.5	3627.2	3430.3	3122.7	3275.3	3484.5	4340.8	3897.9	3509.1
70°	1830.8	1798.8	1961.2	2620.7	3071.0	2721.6	2359.9	2325.4	2386.9	1483.8	1604.4
72.5°	1227.9	1191.0	1188.6	1442.0	1855.4	1833.3	1828.4	1811.1	1616.7	1171.3	1299.3
75°	684.1	654.6	647.2	622.6	664.4	676.7	721.0	745.6	807.1	888.3	984.3
77.5°	115.7	113.2	142.7	182.1	251.0	322.4	398.6	420.8	519.2	615.2	676.7
80°	64.0	66.4	86.1	105.8	140.3	191.9	246.1	260.8	319.9	371.6	420.8
82.5°	34.5	34.5	44.3	56.6	76.3	100.9	132.9	145.2	184.6	216.5	251.0
85°	12.3	12.3	17.2	22.1	32.0	41.8	51.7	59.1	81.2	110.7	125.5
87.5°	0.0	0.0	0.0	0.0	2.5	4.9	9.8	9.8	12.3	22.1	32.0
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°	9336.2	9336.2	9336.2	9336.2	9336.2	9336.2	9336.2	9336.2	9336.2	9336.2	9336.2
2.5°	9385.4	9318.9	9410.0	9451.8	9466.6	9476.4	9412.4	9368.2	9353.4	9306.6	9279.6
5°	9419.8	9375.5	9461.7	9461.7	9400.1	9336.2	9205.7	9114.7	9050.7	8974.4	8962.1
7.5°	9478.9	9446.9	9493.7	9397.7	9242.7	9070.4	8844.0	8666.8	8524.1	8430.6	8433.1
10°	9557.6	9518.3	9481.3	9267.3	8984.3	8666.8	8319.9	8061.5	7825.3	7717.0	7657.9
12.5°	9609.3	9552.7	9397.7	9043.3	8627.5	8201.7	7712.1	7328.2	6986.1	6831.1	6818.8
15°	9673.3	9569.9	9259.9	8753.0	8174.7	7593.9	6964.0	6430.0	5967.4	5726.2	5713.9
17.5°	9757.0	9587.2	9095.0	8420.8	7697.3	6840.9	6048.6	5376.8	4884.6	4697.6	4729.6
20°	9875.1	9606.8	8908.0	8051.6	7104.2	5984.6	4997.8	4380.2	4190.7	4178.4	4153.8
22.5°	10008.0	9619.2	8701.3	7638.2	6385.7	5071.6	4129.2	3865.9	3863.4	3924.9	3939.7
25°	10158.1	9629.0	8467.5	7155.9	5608.1	4161.2	3651.8	3573.0	3634.6	3750.2	3765.0
27.5°	10350.0	9648.7	8184.5	6626.9	4781.3	3595.2	3388.5	3368.8	3442.6	3550.9	3546.0
30°	10633.0	9720.0	7884.3	6019.0	3932.3	3327.0	3228.5	3231.0	3260.5	3312.2	3319.6
32.5°	10920.9	9830.8	7591.5	5335.0	3445.1	3174.4	3130.1	3125.2	3125.2	3147.3	3152.2
35°	11194.0	9956.3	7274.0	4621.3	3208.8	3085.8	3056.3	3041.5	3034.1	3029.2	3021.8
37.5°	11346.6	10017.8	6964.0	3917.5	3083.3	3026.7	2997.2	2977.5	2950.5	2930.8	2925.9
40°	11280.2	9946.4	6604.7	3390.9	3007.1	2970.2	2935.7	2908.6	2871.7	2854.5	2844.7
42.5°	11058.7	9725.0	6213.4	3142.4	2945.5	2908.6	2866.8	2822.5	2797.9	2783.1	2780.7
45°	10824.9	9456.7	5741.0	2997.2	2886.5	2842.2	2793.0	2743.8	2716.7	2709.3	2706.8
47.5°	10817.5	9323.9	5239.0	2881.6	2815.1	2770.8	2709.3	2660.1	2630.6	2620.7	2610.9
50°	11142.4	9459.2	4673.0	2780.7	2741.3	2694.5	2625.6	2571.5	2534.6	2522.3	2519.8
52.5°	11816.6	9968.6	4166.1	2679.8	2642.9	2588.7	2532.1	2478.0	2433.7	2411.6	2409.1
55°	12545.0	10615.8	3851.1	2576.4	2527.2	2480.5	2428.8	2369.7	2320.5	2286.1	2281.1
57.5°	13298.0	11322.0	3755.1	2446.0	2409.1	2377.1	2315.6	2251.6	2195.0	2163.0	2155.6
60°	13918.1	11929.8	3934.8	2308.2	2288.5	2246.7	2190.1	2128.6	2089.2	2064.6	2059.7
62.5°	11651.7	9712.7	3176.9	2158.1	2158.1	2113.8	2049.8	2005.5	1978.5	1961.2	1956.3
65°	7394.6	6014.1	2167.9	2008.0	2005.5	1946.5	1892.3	1862.8	1850.5	1823.4	1818.5
67.5°	3221.1	2748.7	1853.0	1855.4	1845.6	1781.6	1727.5	1705.3	1680.7	1651.2	1648.7
70°	1670.9	1702.9	1658.6	1685.6	1668.4	1592.1	1540.4	1506.0	1454.3	1424.8	1427.2
72.5°	1348.5	1383.0	1432.2	1474.0	1437.1	1375.6	1294.4	1252.5	1186.1	1154.1	1156.6
75°	1028.6	1065.5	1112.3	1156.6	1127.0	1050.7	999.1	957.2	881.0	844.0	851.4
77.5°	708.7	728.4	785.0	782.5	772.7	750.5	674.3	625.0	546.3	502.0	506.9
80°	440.5	452.8	479.9	492.2	487.2	457.7	396.2	359.3	312.5	285.4	287.9
82.5°	265.8	273.1	297.8	300.2	297.8	275.6	228.9	201.8	172.3	157.5	157.5
85°	135.3	140.3	155.0	155.0	140.3	118.1	105.8	93.5	76.3	68.9	68.9
87.5°	36.9	36.9	46.8	39.4	32.0	29.5	14.8	12.3	4.9	2.5	2.5
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)