

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: P641004

Luminaire Tested: GWS-SA5F-722-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641004
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-722-U-SL3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25746.8 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

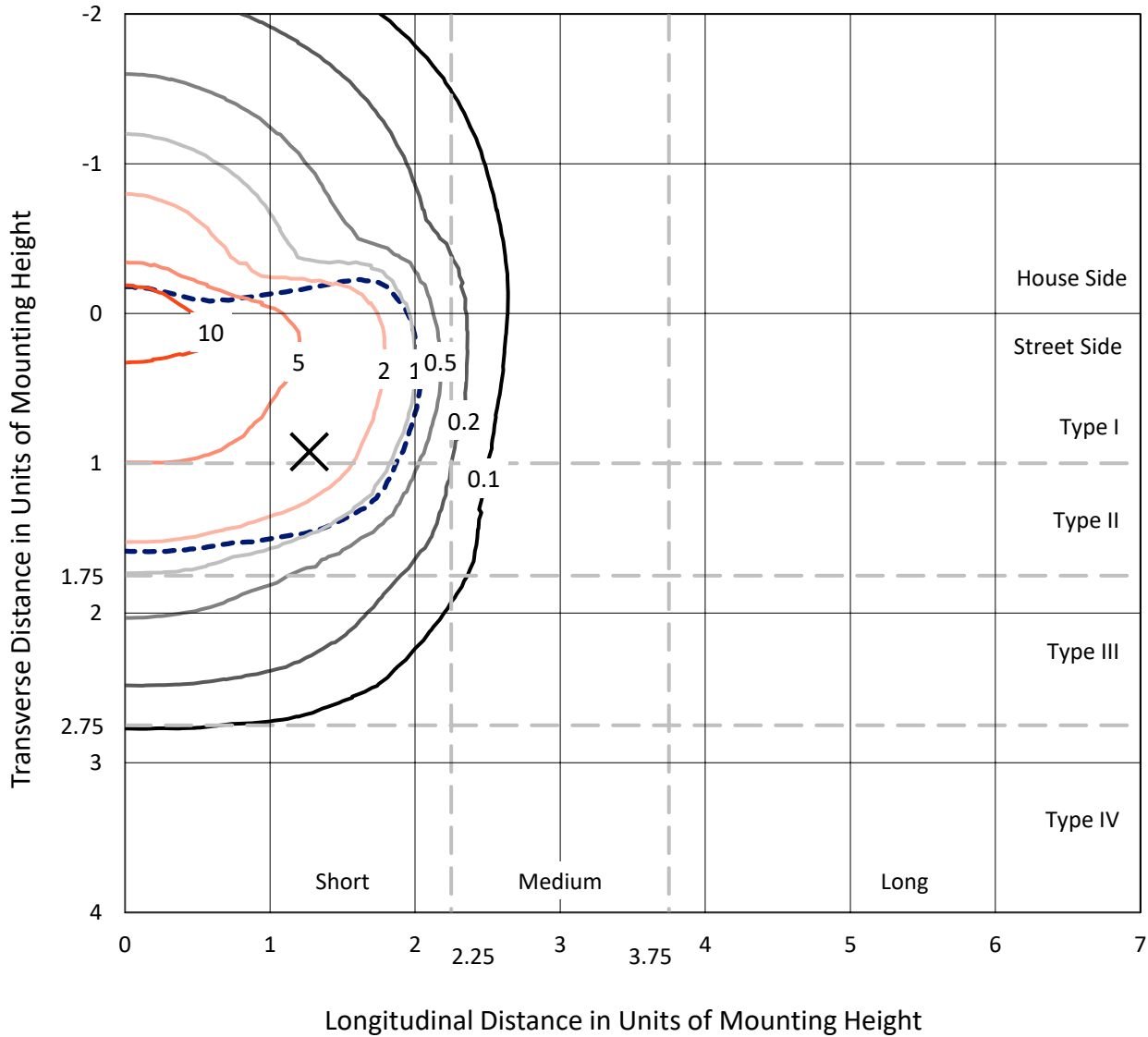
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

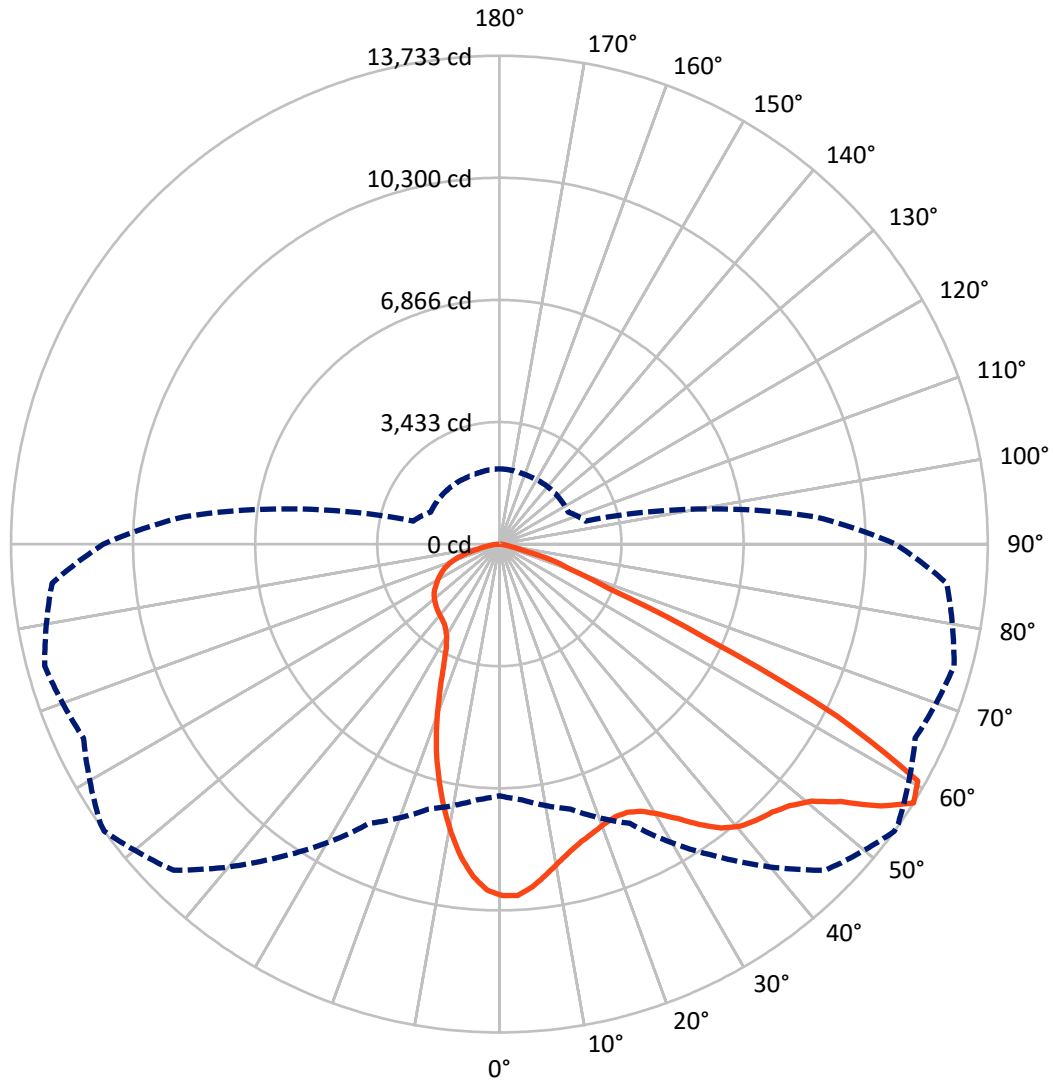
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7484.9	0.0	7484.9
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	18261.9	0.0	18261.9
	% Fixture	70.9	0.0	70.9
Total	Lumens	25746.8	0.0	25746.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	868.9	3.4
10°-20°	2073.2	8.1
20°-30°	2869.0	11.1
30°-40°	3986.5	15.5
40°-50°	5265.0	20.4
50°-60°	6256.6	24.3
60°-70°	3466.3	13.5
70°-80°	863.2	3.4
80°-90°	98.2	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°	25746.8	100.0
0°-180°	25746.8	100.0

Coefficient of Utilization



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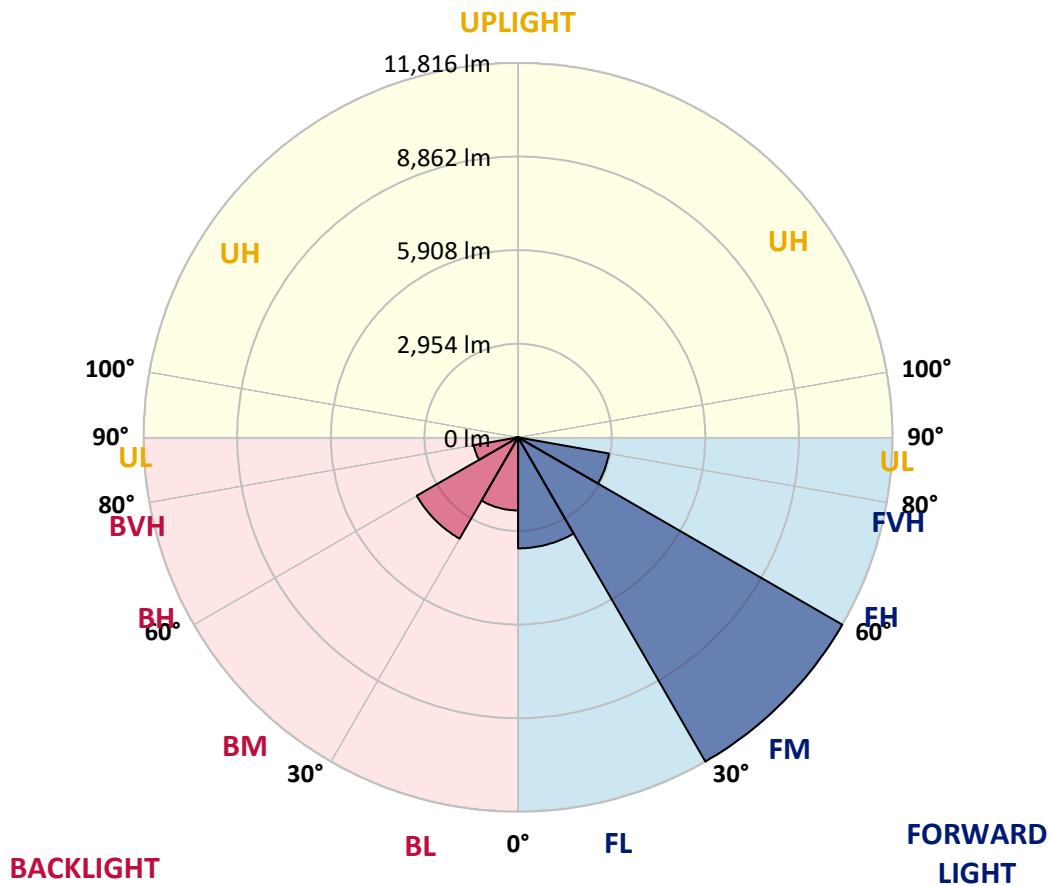
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3504.6	13.6			
FM (30°-60°)	11815.6	45.9			
FH (60°-80°)	2911.0	11.3			G2/5000
FVH (80°-90°)	30.7	0.1			G1/100
BL (0°-30°)	2306.5	9.0	B3/2500		
BM (30°-60°)	3692.5	14.3	B3/5000		
BH (60°-80°)	1418.4	5.5	B3/2500		G3/2500
BVH (80°-90°)	67.4	0.3			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°	54°	55°	65°	75°	85°
0°	9884.8	9884.8	9884.8	9884.8	9884.8	9884.8	9884.8	9884.8	9884.8	9884.8	9884.8
2.5°	9699.6	9719.5	9732.7	9779.0	9818.7	9853.9	9891.4	9891.4	9889.2	9882.6	9869.4
5°	9316.2	9338.2	9369.1	9433.0	9518.9	9580.6	9682.0	9690.8	9734.9	9752.5	9743.7
7.5°	8871.0	8877.6	8917.2	9001.0	9137.6	9247.8	9393.3	9410.9	9516.7	9578.4	9567.4
10°	8383.9	8361.8	8432.4	8555.8	8734.3	8919.4	9106.8	9122.2	9291.9	9408.7	9399.9
12.5°	7938.7	7940.9	8011.4	8161.3	8383.9	8613.1	8864.3	8899.6	9109.0	9258.9	9243.4
15°	7566.2	7575.0	7661.0	7830.7	8084.1	8357.4	8670.4	8703.5	8967.9	9166.3	9122.2
17.5°	7268.7	7277.5	7352.4	7546.4	7817.5	8148.1	8529.3	8562.4	8890.8	9126.6	9036.3
20°	7063.7	7059.3	7132.0	7317.2	7597.1	7956.3	8405.9	8454.4	8866.5	9142.0	8979.0
22.5°	6980.0	6977.8	7030.6	7182.7	7445.0	7808.6	8331.0	8397.1	8893.0	9210.4	8943.7
25°	7021.8	7013.0	7059.3	7171.7	7381.1	7751.3	8353.0	8423.6	9005.4	9351.4	8950.3
27.5°	7151.9	7140.8	7180.5	7281.9	7440.6	7810.9	8507.3	8588.9	9243.4	9609.3	9038.5
30°	7350.2	7343.6	7383.3	7480.3	7619.1	8009.2	8802.6	8895.2	9611.5	10010.4	9230.2
32.5°	7581.6	7570.6	7641.1	7753.5	7914.4	8370.7	9199.3	9320.6	10047.9	10526.1	9552.0
35°	7841.7	7832.9	7929.9	8093.0	8324.4	8873.2	9679.8	9812.1	10493.1	11110.2	9979.6
37.5°	8095.2	8095.2	8282.5	8524.9	8815.9	9419.7	10131.6	10215.4	10801.6	11628.1	10438.0
40°	8320.0	8333.2	8615.3	8979.0	9349.2	9913.4	10429.2	10499.7	10938.3	11985.2	10836.9
42.5°	8569.0	8580.0	8908.4	9384.5	9825.3	10312.4	10609.9	10645.1	10964.7	12163.7	11119.0
45°	8767.4	8782.8	9190.5	9699.6	10239.6	10612.1	10753.1	10784.0	11002.2	12260.7	11324.0
47.5°	8871.0	8893.0	9360.2	9953.1	10519.5	10881.0	10989.0	11002.2	11156.5	12430.4	11570.8
50°	8853.3	8897.4	9424.2	10078.7	10726.7	11152.1	11368.0	11390.1	11471.6	12679.4	11859.5
52.5°	9009.8	9029.6	9560.8	10228.6	11022.0	11652.4	12027.0	12057.9	12020.4	12866.7	12031.4
55°	8749.7	8844.5	9391.1	10206.6	11471.6	12426.0	13003.4	12988.0	12518.5	13076.1	12318.0
57.5°	7076.9	7215.8	7716.1	8663.8	10731.1	12968.1	13732.9	13695.4	12904.2	13237.0	12628.7
60°	4899.4	4921.5	5373.3	6045.5	8282.5	11456.2	13519.1	13600.7	12974.7	13034.2	12053.5
62.5°	3918.6	3912.0	3953.9	3971.5	5267.5	8053.3	10671.6	10969.1	10779.6	10155.9	8542.6
65°	3345.6	3369.9	3493.3	3429.4	3438.2	4535.8	6376.1	6417.9	6285.7	6060.9	4518.1
67.5°	2618.3	2660.2	2878.4	3127.4	3048.1	2920.3	3308.2	3288.3	2591.9	2005.6	1657.4
70°	1639.7	1666.2	1899.8	2455.2	2653.6	2397.9	2126.8	2118.0	1388.5	1141.7	1251.9
72.5°	956.5	960.9	1027.0	1368.7	1761.0	1639.7	1564.8	1507.5	892.6	910.2	998.4
75°	526.7	526.7	524.5	590.7	694.2	614.9	595.1	579.6	597.3	676.6	742.7
77.5°	110.2	112.4	119.0	156.5	202.8	246.8	310.8	313.0	390.1	451.8	504.7
80°	50.7	52.9	66.1	83.8	108.0	143.3	189.5	191.7	235.8	284.3	319.6
82.5°	26.4	28.7	35.3	44.1	57.3	74.9	105.8	105.8	141.1	167.5	189.5
85°	8.8	8.8	13.2	17.6	24.2	30.9	41.9	41.9	61.7	81.5	94.8
87.5°	0.0	0.0	0.0	0.0	2.2	4.4	8.8	8.8	11.0	13.2	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°	9884.8	9884.8	9884.8	9884.8	9884.8	9884.8	9884.8	9884.8	9884.8	9884.8	9884.8
2.5°	9840.7	9772.4	9774.6	9787.8	9745.9	9682.0	9640.1	9587.2	9554.2	9547.6	9571.8
5°	9699.6	9620.3	9565.2	9507.9	9388.9	9247.8	9137.6	9047.3	8987.8	8965.7	8939.3
7.5°	9505.7	9402.1	9263.3	9102.4	8886.4	8635.1	8458.8	8293.5	8178.9	8145.9	8130.4
10°	9311.8	9161.9	8915.0	8615.3	8256.1	7916.6	7597.1	7352.4	7158.5	7048.3	7083.5
12.5°	9111.2	8926.1	8540.4	8079.7	7579.4	7068.1	6649.4	6243.8	5930.9	5774.4	5728.1
15°	8934.9	8683.6	8145.9	7522.1	6856.5	6213.0	5606.9	4998.6	4601.9	4385.9	4326.4
17.5°	8785.0	8458.8	7729.3	6953.5	6157.9	5241.0	4496.1	3931.9	3660.8	3541.8	3533.0
20°	8637.3	8238.4	7317.2	6340.8	5351.2	4324.2	3658.6	3394.1	3297.1	3255.3	3253.1
22.5°	8505.1	8007.0	6883.0	5728.1	4549.0	3634.3	3268.5	3153.9	3127.4	3127.4	3123.0
25°	8392.7	7775.6	6437.8	5077.9	3823.9	3235.4	3065.7	3017.2	3028.2	3048.1	3050.3
27.5°	8346.4	7594.9	6008.0	4410.1	3323.6	3004.0	2926.9	2920.3	2951.1	2982.0	2986.4
30°	8394.9	7471.4	5567.2	3771.0	3023.8	2863.0	2827.7	2840.9	2878.4	2909.2	2909.2
32.5°	8544.8	7409.7	5117.6	3303.7	2849.7	2763.8	2752.8	2766.0	2794.6	2812.3	2814.5
35°	8798.2	7434.0	4652.6	2988.6	2737.3	2691.0	2688.8	2697.7	2708.7	2719.7	2721.9
37.5°	9117.8	7542.0	4154.5	2805.6	2664.6	2638.1	2633.7	2631.5	2633.7	2633.7	2635.9
40°	9430.8	7705.1	3709.3	2697.7	2613.9	2591.9	2580.8	2565.4	2563.2	2558.8	2556.6
42.5°	9662.2	7830.7	3354.4	2620.5	2567.6	2541.2	2527.9	2503.7	2501.5	2499.3	2497.1
45°	9836.3	7936.5	3059.1	2545.6	2519.1	2494.9	2466.2	2444.2	2448.6	2453.0	2453.0
47.5°	10032.4	8029.0	2843.1	2475.1	2459.6	2435.4	2400.1	2384.7	2400.1	2415.5	2415.5
50°	10270.5	8159.1	2666.8	2404.5	2397.9	2369.3	2338.4	2331.8	2349.4	2371.5	2371.5
52.5°	10444.6	8271.5	2541.2	2334.0	2334.0	2296.5	2270.1	2267.9	2287.7	2309.8	2312.0
55°	10770.8	8533.8	2497.1	2252.5	2243.6	2215.0	2195.1	2179.7	2204.0	2223.8	2223.8
57.5°	11138.8	8882.0	2508.1	2135.6	2124.6	2115.8	2100.4	2082.7	2089.4	2111.4	2113.6
60°	10358.6	8207.6	2386.9	2018.8	2012.2	2007.8	1988.0	1957.1	1965.9	1983.6	1985.8
62.5°	7235.6	5454.8	1930.7	1873.4	1895.4	1893.2	1866.8	1831.5	1833.7	1857.9	1857.9
65°	3755.6	2951.1	1694.8	1741.1	1774.2	1761.0	1716.9	1686.0	1681.6	1712.5	1705.9
67.5°	1619.9	1611.1	1542.8	1602.3	1637.5	1608.9	1562.6	1511.9	1516.3	1527.3	1518.5
70°	1304.7	1344.4	1373.1	1437.0	1465.6	1412.7	1362.1	1333.4	1309.2	1307.0	1291.5
72.5°	1042.5	1097.6	1161.5	1227.6	1236.4	1183.5	1119.6	1093.2	1055.7	1053.5	1038.1
75°	784.6	830.9	881.6	934.5	934.5	883.8	841.9	828.7	784.6	771.4	758.2
77.5°	535.6	564.2	603.9	617.1	630.3	610.5	568.6	546.6	495.9	482.7	465.0
80°	337.2	357.0	381.3	390.1	403.3	379.1	346.0	321.8	286.5	275.5	266.7
82.5°	202.8	216.0	231.4	235.8	246.8	229.2	198.4	180.7	160.9	152.1	145.5
85°	103.6	110.2	119.0	121.2	119.0	101.4	90.4	81.5	68.3	66.1	61.7
87.5°	26.4	30.9	33.1	30.9	28.7	22.0	15.4	11.0	4.4	4.4	2.2
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)