

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: P641000

Luminaire Tested: GWS-SA5F-722-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641000
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-SA5F-722-U-SL2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II 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: 26185.4 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

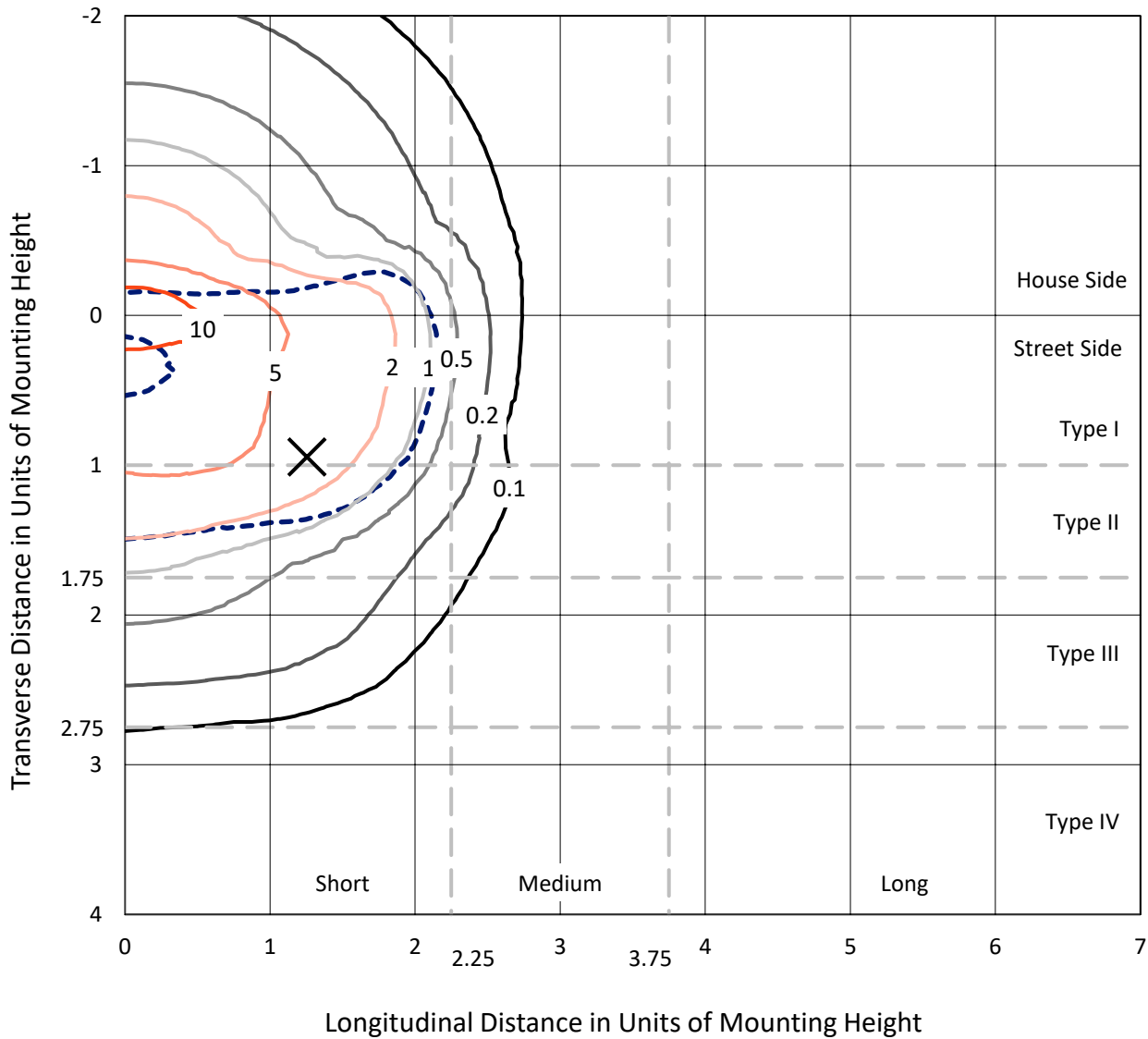
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

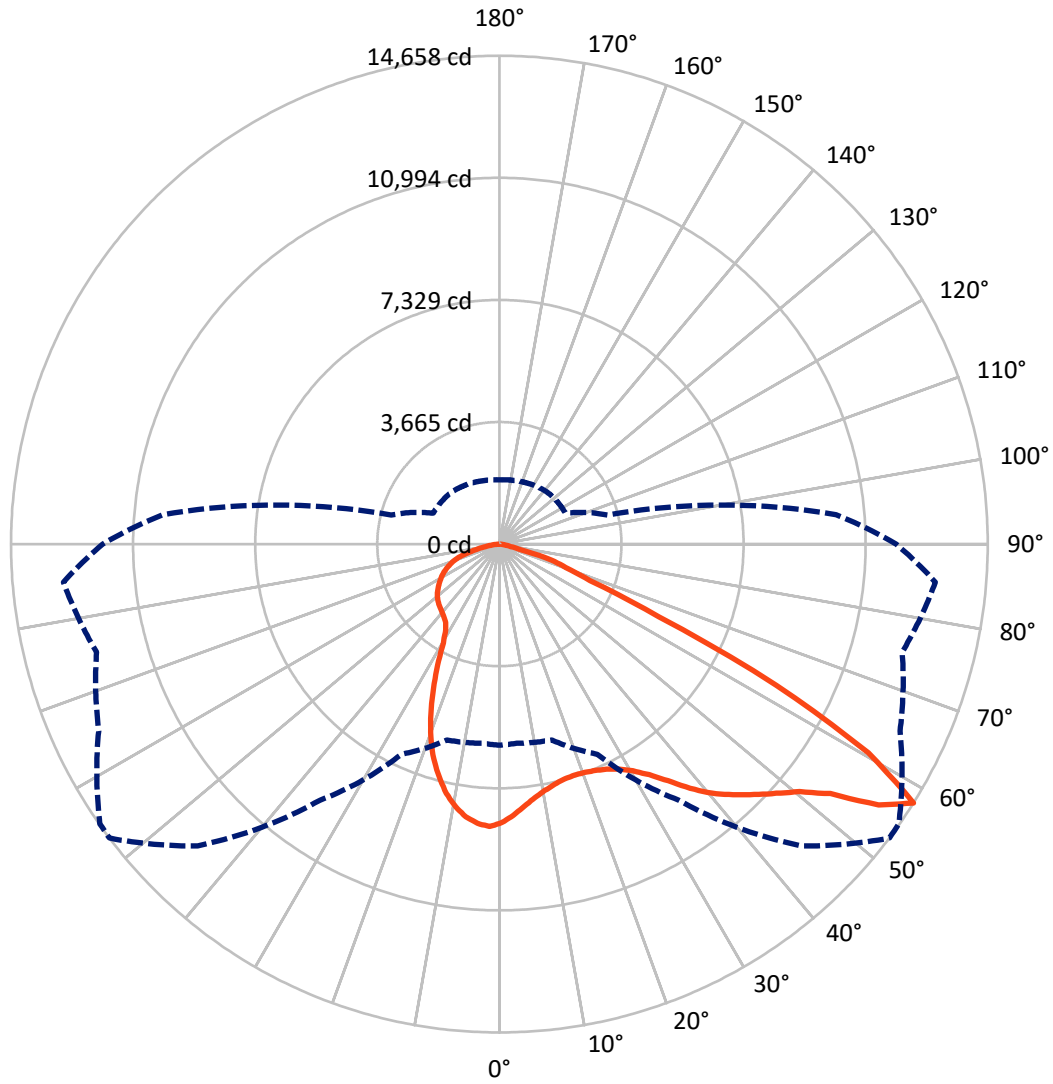
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 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	8187.2	0.0	8187.2
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	17998.2	0.0	17998.2
	% Fixture	68.7	0.0	68.7
Total	Lumens	26185.4	0.0	26185.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	756.1	2.9
10°-20°	1983.8	7.6
20°-30°	2922.8	11.2
30°-40°	4091.2	15.6
40°-50°	5378.2	20.5
50°-60°	6305.9	24.1
60°-70°	3714.9	14.2
70°-80°	924.1	3.5
80°-90°	108.4	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°	26185.4	100.0
0°-180°	26185.4	100.0

Coefficient of Utilization



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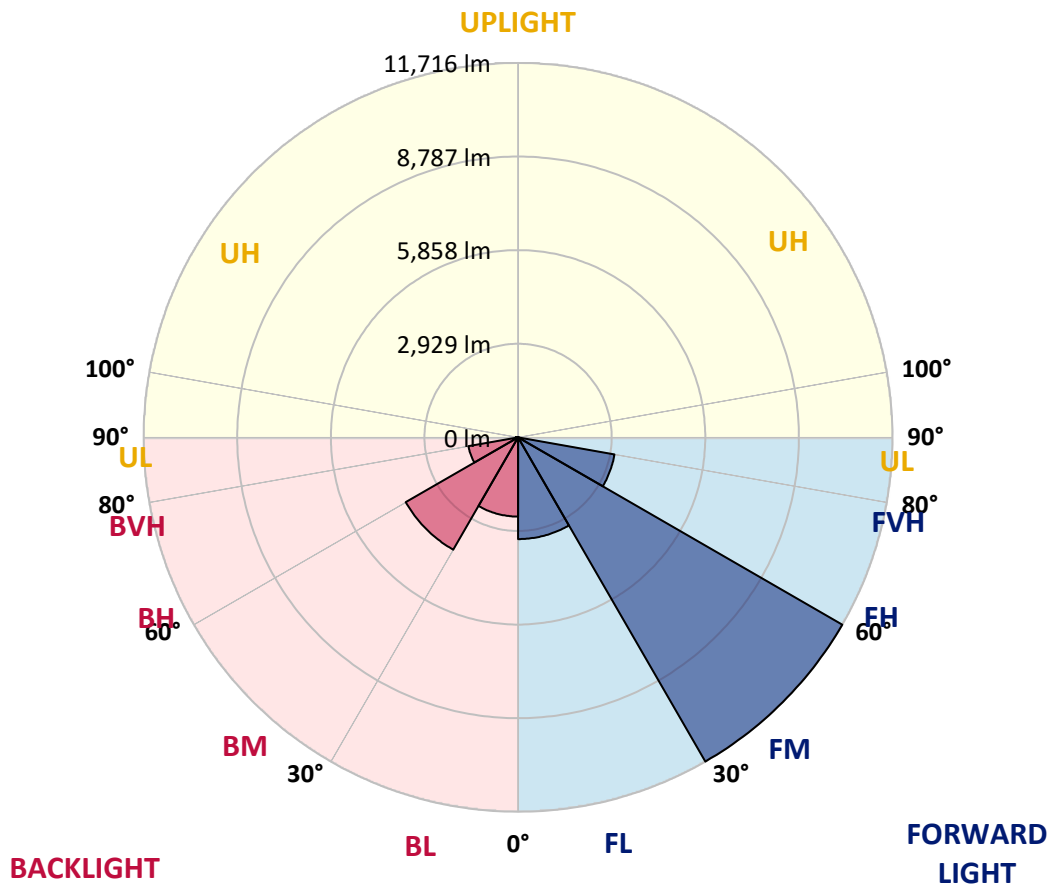
CATALOG NUMBER: GWS-SA5F-722-U-SL2-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3183.6	12.2			
FM (30°-60°)	11715.6	44.7			
FH (60°-80°)	3062.7	11.7			G2/5000
FVH (80°-90°)	36.3	0.1			G1/100
BL (0°-30°)	2479.1	9.5	B3/2500		
BM (30°-60°)	4059.6	15.5	B3/5000		
BH (60°-80°)	1576.3	6.0	B3/2500		G3/2500
BVH (80°-90°)	72.1	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°	53°	55°	65°	75°	85°
0°	8361.7	8361.7	8361.7	8361.7	8361.7	8361.7	8361.7	8361.7	8361.7	8361.7	8361.7
2.5°	7881.2	7903.3	7907.7	7976.0	7980.4	8079.6	8145.7	8132.5	8200.8	8284.6	8350.7
5°	7504.4	7506.6	7528.6	7610.2	7654.2	7784.3	7894.5	7894.5	8026.7	8198.6	8346.3
7.5°	7193.6	7191.4	7211.3	7301.6	7374.3	7530.8	7680.7	7698.3	7883.5	8134.7	8374.9
10°	6904.9	6920.3	6942.4	7052.6	7145.1	7339.1	7517.6	7546.3	7779.9	8090.6	8414.6
12.5°	6719.8	6722.0	6755.0	6878.5	6997.5	7204.6	7392.0	7427.2	7696.1	8048.7	8443.3
15°	6600.8	6603.0	6638.2	6774.9	6913.7	7123.1	7314.8	7354.5	7647.6	8042.1	8498.3
17.5°	6547.9	6545.7	6578.7	6715.4	6867.4	7085.6	7290.6	7339.1	7669.7	8092.8	8595.3
20°	6547.9	6550.1	6567.7	6691.1	6845.4	7076.8	7314.8	7374.3	7755.6	8207.4	8745.2
22.5°	6640.4	6649.3	6658.1	6741.8	6863.0	7090.0	7378.8	7458.1	7940.8	8399.2	8941.3
25°	6821.2	6823.4	6832.2	6900.5	6955.6	7127.5	7484.5	7603.6	8229.5	8679.1	9188.2
27.5°	7063.6	7094.4	7103.3	7147.3	7147.3	7220.1	7649.8	7821.7	8619.6	9082.4	9503.3
30°	7403.0	7414.0	7429.4	7477.9	7425.0	7394.2	7892.3	8112.7	9071.4	9569.5	9882.4
32.5°	7700.5	7724.8	7808.5	7887.9	7793.1	7696.1	8249.3	8509.4	9505.5	10076.4	10285.7
35°	7954.0	8013.5	8174.4	8350.7	8284.6	8187.6	8723.1	8994.2	9862.6	10440.0	10642.8
37.5°	8260.3	8306.6	8527.0	8813.5	8873.0	8826.7	9300.6	9494.5	10100.6	10532.6	10836.7
40°	8571.1	8641.6	8925.9	9322.6	9549.6	9582.7	9833.9	9964.0	10182.2	10351.9	10799.3
42.5°	8888.4	9009.7	9399.8	9862.6	10265.9	10340.8	10283.5	10338.6	10155.7	10102.8	10625.1
45°	9276.3	9419.6	9860.4	10451.0	10982.2	11099.0	10724.3	10673.6	10151.3	10008.0	10517.1
47.5°	9734.8	9878.0	10299.0	10986.6	11665.4	11751.3	11176.1	11083.6	10305.6	10153.5	10662.6
50°	10140.3	10239.5	10616.3	11385.5	12302.3	12353.0	11674.2	11561.8	10689.1	10556.8	11116.6
52.5°	9728.1	9717.1	10113.8	11061.5	12632.9	13243.4	12441.2	12333.2	11429.6	11226.8	11819.7
55°	8253.7	8128.1	8482.9	9415.2	11709.5	14034.6	13816.4	13600.4	12416.9	11901.2	12478.6
57.5°	6034.4	5999.1	6085.0	6960.0	9379.9	12809.2	14658.3	14638.5	13269.9	12518.3	13135.4
60°	4718.6	4665.7	4436.5	4460.8	6393.6	10005.8	12721.1	13305.1	13798.8	12888.6	13593.8
62.5°	4189.7	4150.0	4031.0	3702.6	3808.4	6708.8	9324.8	9860.4	12057.7	11383.3	11676.4
65°	3469.0	3458.0	3557.1	3543.9	3191.3	3704.8	5263.0	5802.9	7581.5	7676.3	7581.5
67.5°	2521.3	2501.5	2752.7	3248.6	3072.3	2796.8	2933.4	3120.8	3887.7	3491.0	3142.8
70°	1639.7	1611.1	1756.5	2347.2	2750.5	2437.5	2113.6	2082.7	2137.8	1329.0	1437.0
72.5°	1099.8	1066.7	1064.5	1291.5	1661.8	1641.9	1637.5	1622.1	1448.0	1049.1	1163.7
75°	612.7	586.2	579.6	557.6	595.1	606.1	645.8	667.8	722.9	795.6	881.6
77.5°	103.6	101.4	127.8	163.1	224.8	288.7	357.0	376.9	465.0	551.0	606.1
80°	57.3	59.5	77.1	94.8	125.6	171.9	220.4	233.6	286.5	332.8	376.9
82.5°	30.9	30.9	39.7	50.7	68.3	90.4	119.0	130.0	165.3	193.9	224.8
85°	11.0	11.0	15.4	19.8	28.7	37.5	46.3	52.9	72.7	99.2	112.4
87.5°	0.0	0.0	0.0	0.0	2.2	4.4	8.8	8.8	11.0	19.8	28.7
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°	8361.7	8361.7	8361.7	8361.7	8361.7	8361.7	8361.7	8361.7	8361.7	8361.7	8361.7
2.5°	8405.8	8346.3	8427.8	8465.3	8478.5	8487.3	8430.0	8390.4	8377.1	8335.3	8311.0
5°	8436.6	8397.0	8474.1	8474.1	8419.0	8361.7	8244.9	8163.4	8106.0	8037.7	8026.7
7.5°	8489.5	8460.9	8502.8	8416.8	8278.0	8123.7	7920.9	7762.2	7634.4	7550.7	7552.9
10°	8560.1	8524.8	8491.7	8300.0	8046.5	7762.2	7451.5	7220.1	7008.5	6911.5	6858.6
12.5°	8606.3	8555.7	8416.8	8099.4	7727.0	7345.7	6907.1	6563.3	6257.0	6118.1	6107.1
15°	8663.6	8571.1	8293.4	7839.4	7321.5	6801.3	6237.1	5758.9	5344.5	5128.5	5117.5
17.5°	8738.6	8586.5	8145.7	7541.8	6893.9	6126.9	5417.3	4815.6	4374.8	4207.3	4236.0
20°	8844.4	8604.1	7978.2	7211.3	6362.7	5360.0	4476.2	3923.0	3753.3	3742.3	3720.2
22.5°	8963.4	8615.2	7793.1	6841.0	5719.2	4542.3	3698.2	3462.4	3460.2	3515.3	3528.5
25°	9097.8	8624.0	7583.7	6409.0	5022.8	3726.8	3270.6	3200.1	3255.2	3358.8	3372.0
27.5°	9269.7	8641.6	7330.3	5935.2	4282.2	3219.9	3034.8	3017.2	3083.3	3180.3	3175.9
30°	9523.2	8705.5	7061.4	5390.8	3521.9	2979.7	2891.6	2893.8	2920.2	2966.5	2973.1
32.5°	9781.0	8804.7	6799.1	4778.1	3085.5	2843.1	2803.4	2799.0	2799.0	2818.8	2823.2
35°	10025.7	8917.1	6514.8	4139.0	2873.9	2763.7	2737.3	2724.1	2717.4	2713.0	2706.4
37.5°	10162.3	8972.2	6237.1	3508.7	2761.5	2710.8	2684.4	2666.8	2642.5	2624.9	2620.5
40°	10102.8	8908.3	5915.3	3037.0	2693.2	2660.1	2629.3	2605.0	2572.0	2556.6	2547.7
42.5°	9904.5	8709.9	5564.9	2814.4	2638.1	2605.0	2567.6	2527.9	2505.9	2492.6	2490.4
45°	9695.1	8469.7	5141.8	2684.4	2585.2	2545.5	2501.5	2457.4	2433.1	2426.5	2424.3
47.5°	9688.5	8350.7	4692.2	2580.8	2521.3	2481.6	2426.5	2382.4	2356.0	2347.2	2338.4
50°	9979.4	8471.9	4185.3	2490.4	2455.2	2413.3	2351.6	2303.1	2270.0	2259.0	2256.8
52.5°	10583.3	8928.1	3731.3	2400.1	2367.0	2318.5	2267.8	2219.4	2179.7	2159.9	2157.6
55°	11235.6	9507.7	3449.1	2307.5	2263.4	2221.6	2175.3	2122.4	2078.3	2047.4	2043.0
57.5°	11910.0	10140.3	3363.2	2190.7	2157.6	2129.0	2073.9	2016.6	1965.9	1937.3	1930.6
60°	12465.4	10684.6	3524.1	2067.3	2049.7	2012.2	1961.5	1906.4	1871.1	1849.1	1844.7
62.5°	10435.6	8698.9	2845.3	1932.8	1932.8	1893.2	1835.9	1796.2	1772.0	1756.5	1752.1
65°	6622.8	5386.4	1941.7	1798.4	1796.2	1743.3	1694.8	1668.4	1657.4	1633.1	1628.7
67.5°	2884.9	2461.8	1659.6	1661.8	1652.9	1595.6	1547.2	1527.3	1505.3	1478.8	1476.6
70°	1496.5	1525.1	1485.4	1509.7	1494.3	1425.9	1379.7	1348.8	1302.5	1276.1	1278.3
72.5°	1207.8	1238.6	1282.7	1320.2	1287.1	1232.0	1159.3	1121.8	1062.3	1033.6	1035.8
75°	921.2	954.3	996.2	1035.8	1009.4	941.1	894.8	857.3	789.0	755.9	762.6
77.5°	634.7	652.4	703.1	700.8	692.0	672.2	603.9	559.8	489.3	449.6	454.0
80°	394.5	405.5	429.8	440.8	436.4	409.9	354.8	321.8	279.9	255.7	257.9
82.5°	238.0	244.6	266.7	268.9	266.7	246.8	205.0	180.7	154.3	141.1	141.1
85°	121.2	125.6	138.8	138.8	125.6	105.8	94.8	83.7	68.3	61.7	61.7
87.5°	33.1	33.1	41.9	35.3	28.7	26.4	13.2	11.0	4.4	2.2	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)