

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: P638804

Luminaire Tested: GWS-SA4F-750-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638804
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-SA4F-750-U-SL3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29146.8 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

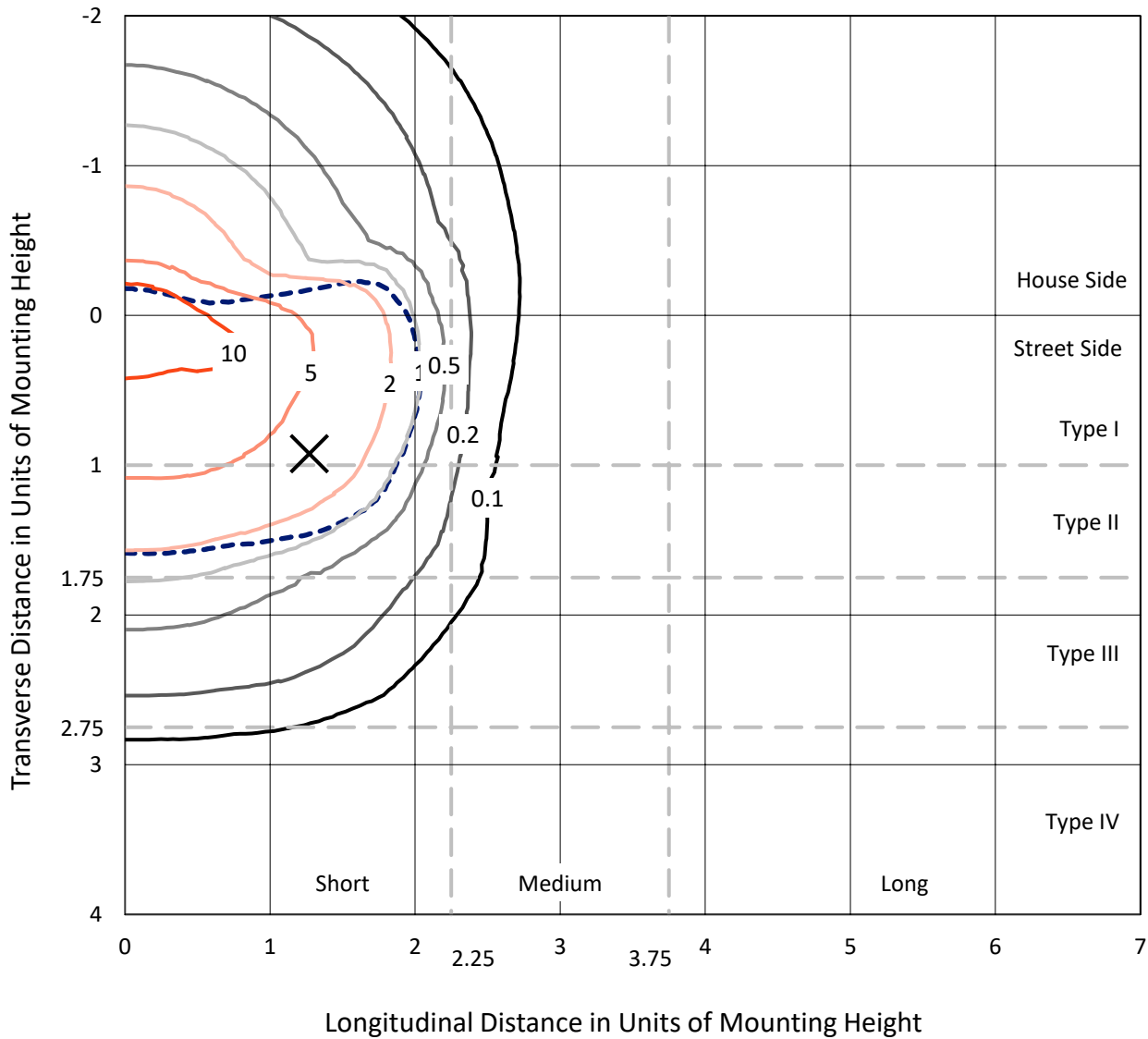
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

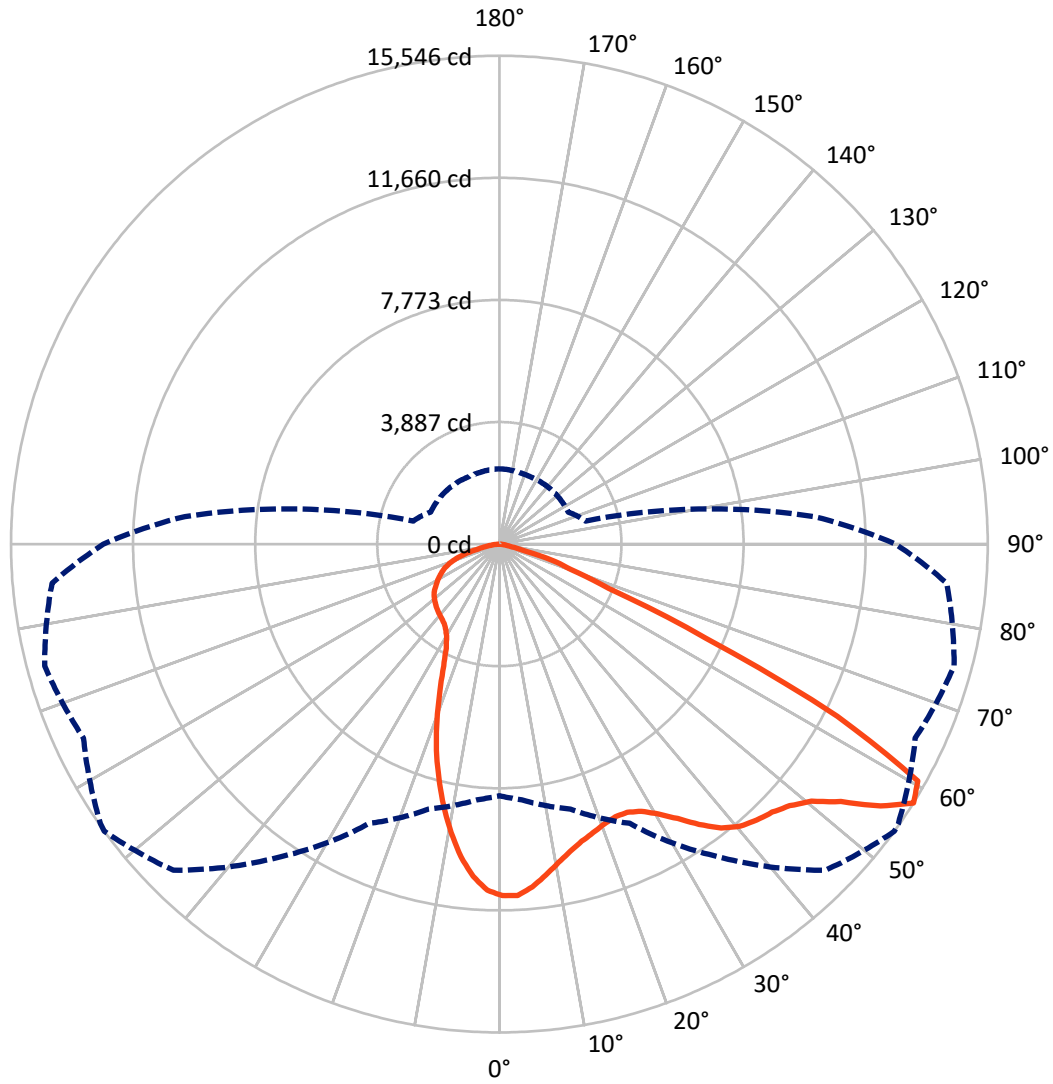
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.9 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	8473.3	0.0	8473.3
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	20673.5	0.0	20673.5
	% Fixture	70.9	0.0	70.9
Total	Lumens	29146.8	0.0	29146.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	983.6	3.4
10°-20°	2347.0	8.1
20°-30°	3247.9	11.1
30°-40°	4512.9	15.5
40°-50°	5960.2	20.4
50°-60°	7082.9	24.3
60°-70°	3924.0	13.5
70°-80°	977.2	3.4
80°-90°	111.1	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°	29146.8	100.0
0°-180°	29146.8	100.0

Coefficient of Utilization



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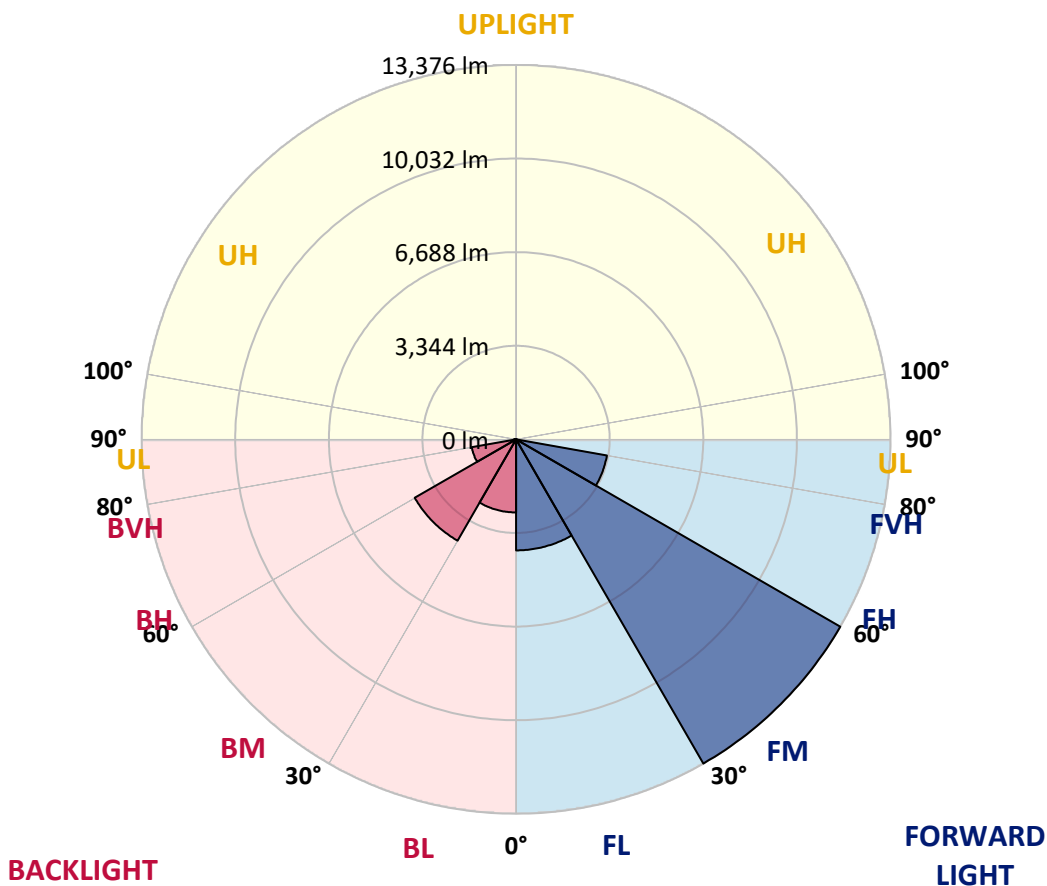
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3967.3	13.6			
FM (30°-60°)	13375.9	45.9			
FH (60°-80°)	3295.4	11.3			G2/5000
FVH (80°-90°)	34.8	0.1			G1/100
BL (0°-30°)	2611.1	9.0	B4/5000		
BM (30°-60°)	4180.1	14.3	B3/5000		
BH (60°-80°)	1605.7	5.5	B3/2500		G3/2500
BVH (80°-90°)	76.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1
2.5°	10980.5	11003.0	11018.0	11070.4	11115.3	11155.2	11197.6	11197.6	11195.1	11187.6	11172.7
5°	10546.4	10571.4	10606.3	10678.6	10775.9	10845.8	10960.6	10970.6	11020.5	11040.4	11030.4
7.5°	10042.4	10049.9	10094.8	10189.6	10344.3	10469.1	10633.7	10653.7	10773.5	10843.3	10830.8
10°	9491.0	9466.1	9545.9	9685.6	9887.7	10097.3	10309.4	10326.8	10519.0	10651.2	10641.2
12.5°	8987.0	8989.5	9069.4	9239.0	9491.0	9750.5	10034.9	10074.8	10311.9	10481.5	10464.1
15°	8565.4	8575.3	8672.7	8864.8	9151.7	9461.1	9815.4	9852.8	10152.2	10376.7	10326.8
17.5°	8228.5	8238.5	8323.4	8542.9	8849.8	9224.1	9655.7	9693.1	10064.9	10331.8	10229.5
20°	7996.5	7991.5	8073.9	8283.4	8600.3	9007.0	9516.0	9570.9	10037.4	10349.3	10164.7
22.5°	7901.7	7899.2	7959.1	8131.2	8428.1	8839.8	9431.1	9506.0	10067.4	10426.6	10124.7
25°	7949.1	7939.1	7991.5	8118.8	8355.8	8774.9	9456.1	9535.9	10194.6	10586.3	10132.2
27.5°	8096.3	8083.8	8128.7	8243.5	8423.2	8842.3	9630.7	9723.1	10464.1	10878.2	10232.0
30°	8320.9	8313.4	8358.3	8468.1	8625.2	9066.9	9965.1	10069.9	10880.7	11332.3	10449.1
32.5°	8582.8	8570.4	8650.2	8777.4	8959.6	9476.0	10414.2	10551.4	11374.7	11916.2	10813.4
35°	8877.2	8867.3	8977.0	9161.7	9423.7	10044.9	10958.1	11107.8	11878.7	12577.3	11297.4
37.5°	9164.2	9164.2	9376.2	9650.7	9980.0	10663.7	11469.6	11564.4	12228.0	13163.7	11816.4
40°	9418.7	9433.6	9753.0	10164.7	10583.8	11222.6	11806.4	11886.2	12382.7	13567.9	12268.0
42.5°	9700.6	9713.1	10084.8	10623.8	11122.8	11674.2	12011.0	12050.9	12412.7	13770.0	12587.3
45°	9925.1	9942.6	10404.2	10980.5	11591.8	12013.5	12173.2	12208.1	12455.1	13879.7	12819.4
47.5°	10042.4	10067.4	10596.3	11267.5	11908.7	12317.9	12440.1	12455.1	12629.7	14071.9	13098.8
50°	10022.5	10072.4	10668.7	11409.7	12143.2	12624.7	12869.3	12894.2	12986.5	14353.8	13425.6
52.5°	10199.6	10222.1	10823.4	11579.3	12477.5	13191.1	13615.3	13650.2	13607.8	14565.9	13620.3
55°	9905.2	10012.5	10631.2	11554.4	12986.5	14066.9	14720.6	14703.1	14171.7	14802.9	13944.6
57.5°	8011.5	8168.7	8735.0	9807.9	12148.2	14680.6	15546.4	15504.0	14608.3	14985.0	14296.4
60°	5546.4	5571.4	6082.8	6843.8	9376.2	12969.1	15304.4	15396.7	14688.1	14755.5	13645.2
62.5°	4436.1	4428.6	4476.0	4496.0	5963.1	9116.8	12080.8	12417.7	12203.1	11497.0	9670.7
65°	3787.4	3814.9	3954.6	3882.2	3892.2	5134.7	7218.1	7265.5	7115.8	6861.3	5114.8
67.5°	2964.1	3011.5	3258.5	3540.4	3450.6	3305.9	3745.0	3722.6	2934.1	2270.5	1876.2
70°	1856.3	1886.2	2150.7	2779.4	3004.0	2714.6	2407.7	2397.7	1571.9	1292.4	1417.2
72.5°	1082.8	1087.8	1162.7	1549.4	1993.5	1856.3	1771.5	1706.6	1010.5	1030.4	1130.2
75°	596.3	596.3	593.8	668.7	785.9	696.1	673.7	656.2	676.1	766.0	840.8
77.5°	124.8	127.2	134.7	177.1	229.5	279.4	351.8	354.3	441.6	511.5	571.4
80°	57.4	59.9	74.9	94.8	122.3	162.2	214.6	217.1	267.0	321.9	361.8
82.5°	29.9	32.4	39.9	49.9	64.9	84.8	119.8	119.8	159.7	189.6	214.6
85°	10.0	10.0	15.0	20.0	27.4	34.9	47.4	47.4	69.9	92.3	107.3
87.5°	0.0	0.0	0.0	0.0	2.5	5.0	10.0	10.0	12.5	15.0	25.0
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°	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1
2.5°	11140.2	11062.9	11065.4	11080.3	11032.9	10960.6	10913.2	10853.3	10815.9	10808.4	10835.8
5°	10980.5	10890.7	10828.3	10763.5	10628.7	10469.1	10344.3	10242.0	10174.6	10149.7	10119.8
7.5°	10761.0	10643.7	10486.5	10304.4	10059.9	9775.4	9575.8	9388.7	9259.0	9221.6	9204.1
10°	10541.4	10371.8	10092.3	9753.0	9346.3	8962.1	8600.3	8323.4	8103.8	7979.0	8019.0
12.5°	10314.4	10104.8	9668.2	9146.7	8580.3	8001.5	7527.4	7068.4	6714.1	6536.9	6484.5
15°	10114.8	9830.3	9221.6	8515.5	7762.0	7033.4	6347.3	5658.7	5209.6	4965.1	4897.7
17.5°	9945.1	9575.8	8750.0	7871.8	6971.1	5933.1	5089.8	4451.1	4144.2	4009.5	3999.5
20°	9777.9	9326.3	8283.4	7178.1	6057.9	4895.2	4141.7	3842.3	3732.5	3685.1	3682.6
22.5°	9628.2	9064.4	7791.9	6484.5	5149.7	4114.3	3700.1	3570.4	3540.4	3540.4	3535.4
25°	9501.0	8802.4	7287.9	5748.5	4328.8	3662.7	3470.6	3415.7	3428.1	3450.6	3453.1
27.5°	9448.6	8597.8	6801.4	4992.5	3762.5	3400.7	3313.4	3305.9	3340.8	3375.7	3380.7
30°	9503.5	8458.1	6302.4	4269.0	3423.2	3241.0	3201.1	3216.1	3258.5	3293.4	3293.4
32.5°	9673.2	8388.2	5793.4	3740.0	3226.0	3128.7	3116.3	3131.2	3163.7	3183.6	3186.1
35°	9960.1	8415.7	5267.0	3383.2	3098.8	3046.4	3043.9	3053.9	3066.4	3078.8	3081.3
37.5°	10321.9	8537.9	4703.1	3176.1	3016.5	2986.5	2981.5	2979.0	2981.5	2981.5	2984.0
40°	10676.1	8722.6	4199.1	3053.9	2959.1	2934.1	2921.7	2904.2	2901.7	2896.7	2894.2
42.5°	10938.1	8864.8	3797.4	2966.6	2906.7	2876.7	2861.8	2834.3	2831.8	2829.3	2826.8
45°	11135.2	8984.5	3463.1	2881.7	2851.8	2824.4	2791.9	2767.0	2772.0	2776.9	2776.9
47.5°	11357.3	9089.3	3218.6	2801.9	2784.4	2757.0	2717.1	2699.6	2717.1	2734.5	2734.5
50°	11626.7	9236.5	3019.0	2722.1	2714.6	2682.1	2647.2	2639.7	2659.7	2684.6	2684.6
52.5°	11823.9	9363.8	2876.7	2642.2	2642.2	2599.8	2569.9	2567.4	2589.8	2614.8	2617.3
55°	12193.1	9660.7	2826.8	2549.9	2539.9	2507.5	2485.0	2467.6	2495.0	2517.5	2517.5
57.5°	12609.8	10054.9	2839.3	2417.7	2405.2	2395.2	2377.7	2357.8	2365.3	2390.2	2392.7
60°	11726.5	9291.4	2702.1	2285.4	2277.9	2273.0	2250.5	2215.6	2225.5	2245.5	2248.0
62.5°	8191.1	6175.1	2185.6	2120.8	2145.7	2143.2	2113.3	2073.4	2075.8	2103.3	2103.3
65°	4251.5	3340.8	1918.7	1971.1	2008.5	1993.5	1943.6	1908.7	1903.7	1938.6	1931.1
67.5°	1833.8	1823.9	1746.5	1813.9	1853.8	1821.4	1769.0	1711.6	1716.6	1729.0	1719.1
70°	1477.0	1522.0	1554.4	1626.7	1659.2	1599.3	1541.9	1509.5	1482.0	1479.5	1462.1
72.5°	1180.1	1242.5	1314.9	1389.7	1399.7	1339.8	1267.5	1237.5	1195.1	1192.6	1175.1
75°	888.2	940.6	998.0	1057.9	1057.9	1000.5	953.1	938.1	888.2	873.3	858.3
77.5°	606.3	638.7	683.6	698.6	713.6	691.1	643.7	618.8	561.4	546.4	526.4
80°	381.7	404.2	431.6	441.6	456.6	429.1	391.7	364.3	324.4	311.9	301.9
82.5°	229.5	244.5	262.0	267.0	279.4	259.5	224.6	204.6	182.1	172.2	164.7
85°	117.3	124.8	134.7	137.2	134.7	114.8	102.3	92.3	77.3	74.9	69.9
87.5°	29.9	34.9	37.4	34.9	32.4	25.0	17.5	12.5	5.0	5.0	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)