

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: P638800

Luminaire Tested: GWS-SA4F-750-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638800
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29643.3 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

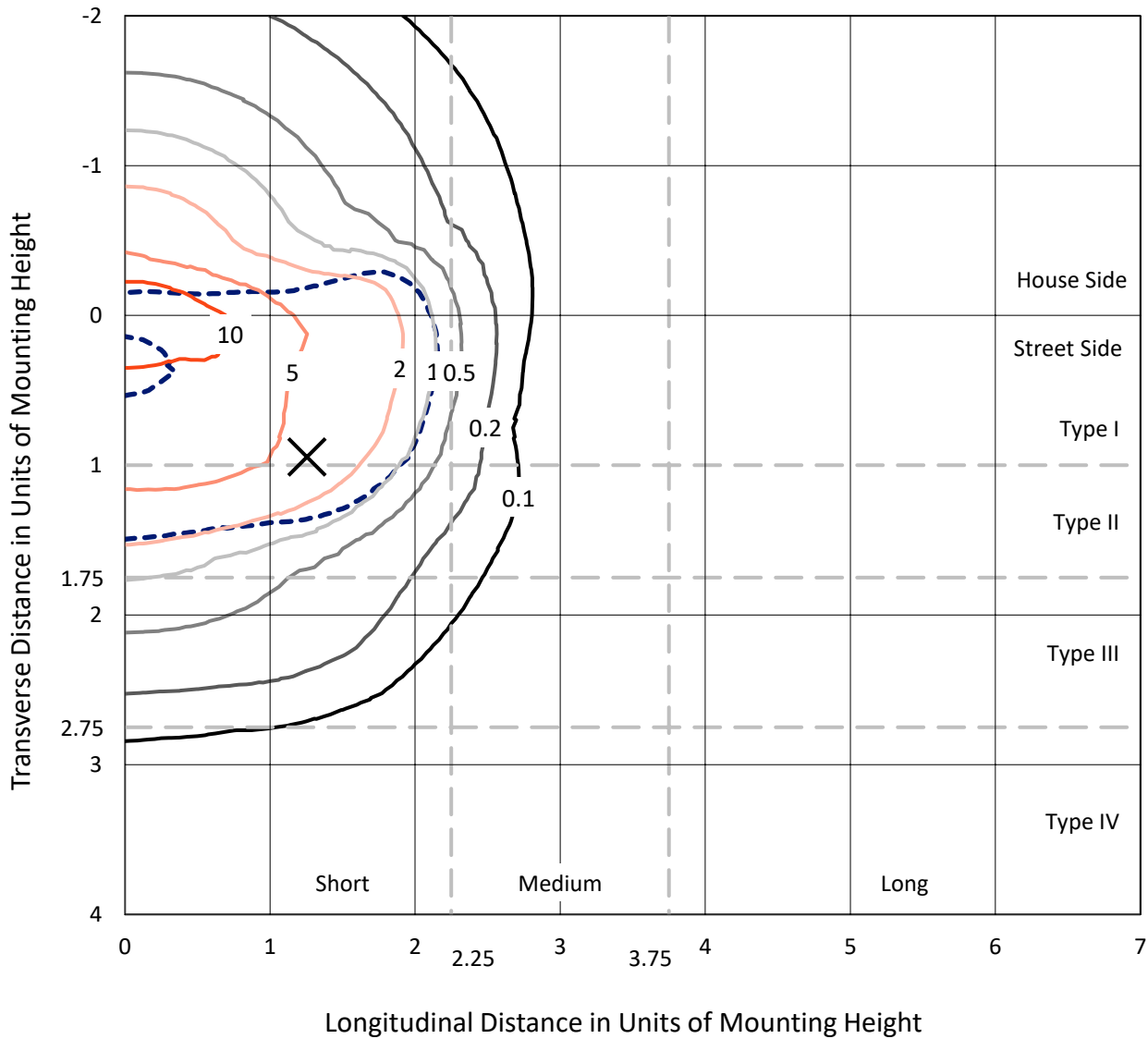
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

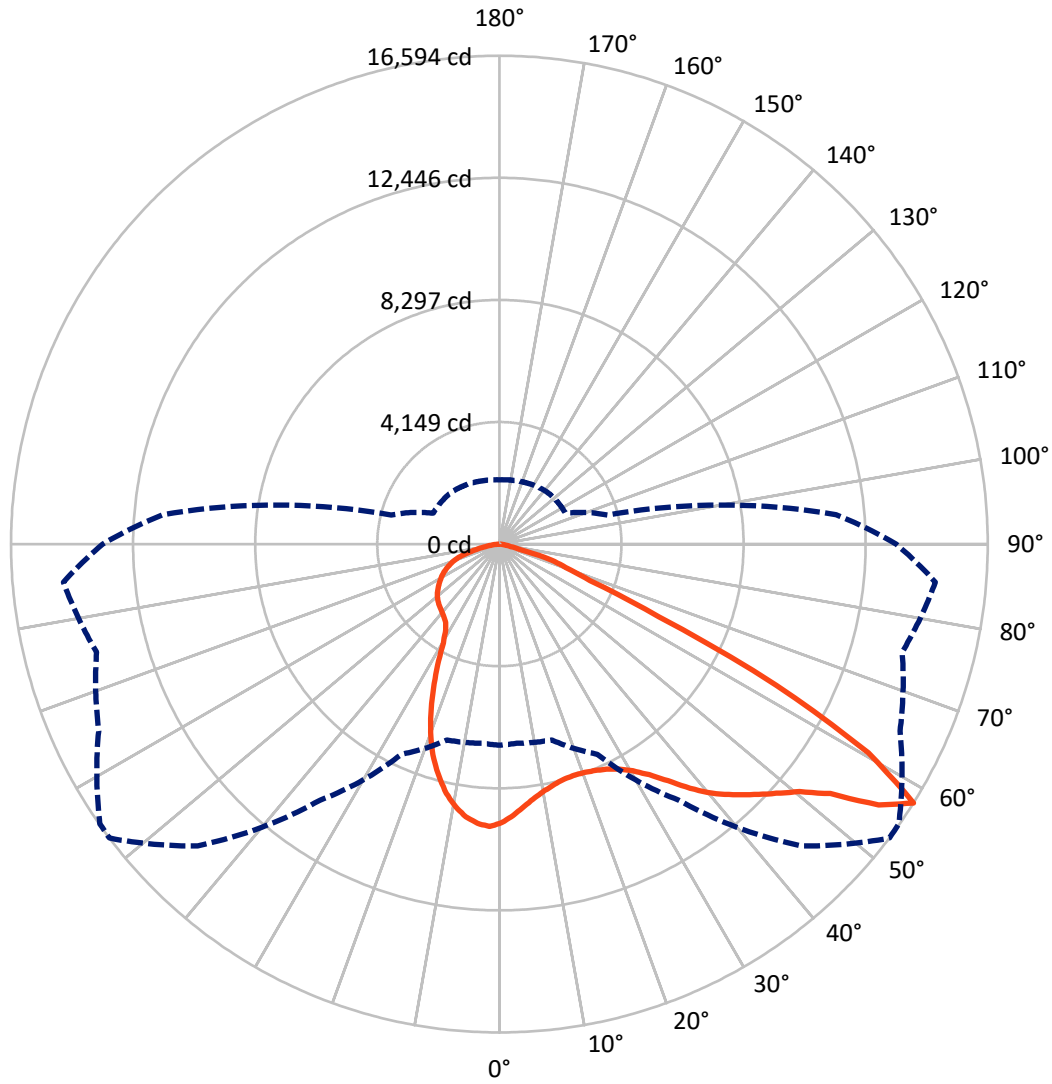
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 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	9268.4	0.0	9268.4
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	20374.9	0.0	20374.9
	% Fixture	68.7	0.0	68.7
Total	Lumens	29643.3	0.0	29643.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	856.0	2.9
10°-20°	2245.7	7.6
20°-30°	3308.8	11.2
30°-40°	4631.4	15.6
40°-50°	6088.4	20.5
50°-60°	7138.6	24.1
60°-70°	4205.4	14.2
70°-80°	1046.2	3.5
80°-90°	122.7	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°	29643.3	100.0
0°-180°	29643.3	100.0

Coefficient of Utilization



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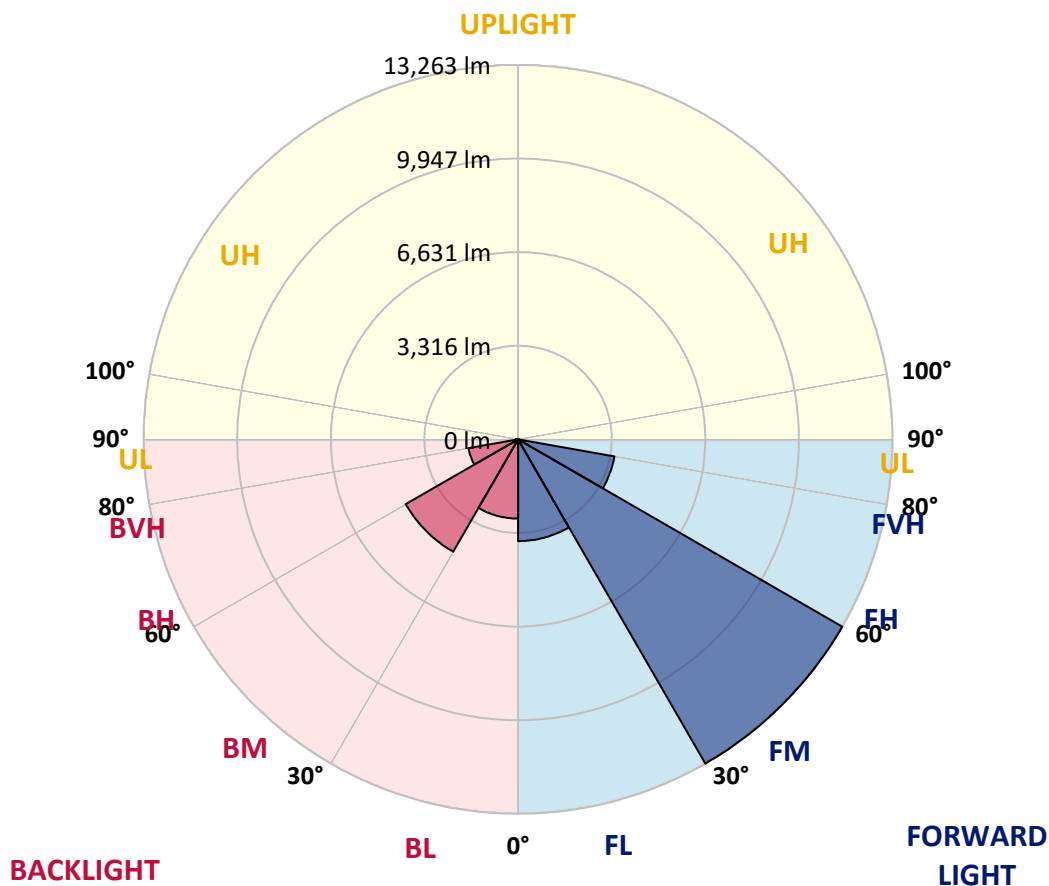
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3604.0	12.2			
FM (30°-60°)	13262.7	44.7			
FH (60°-80°)	3467.1	11.7			G2/5000
FVH (80°-90°)	41.1	0.1			G1/100
BL (0°-30°)	2806.5	9.5	B4/5000		
BM (30°-60°)	4595.7	15.5	B3/5000		
BH (60°-80°)	1784.5	6.0	B3/2500		G3/2500
BVH (80°-90°)	81.7	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°	9465.9	9465.9	9465.9	9465.9	9465.9	9465.9	9465.9	9465.9	9465.9	9465.9	9465.9
2.5°	8922.0	8947.0	8951.9	9029.3	9034.3	9146.6	9221.4	9206.4	9283.8	9378.6	9453.4
5°	8495.4	8497.9	8522.8	8615.1	8665.0	8812.2	8937.0	8937.0	9086.7	9281.3	9448.4
7.5°	8143.6	8141.1	8163.5	8265.8	8348.2	8525.3	8695.0	8714.9	8924.5	9208.9	9480.9
10°	7816.7	7834.2	7859.1	7983.9	8088.7	8308.2	8510.3	8542.8	8807.2	9159.0	9525.8
12.5°	7607.2	7609.7	7647.1	7786.8	7921.5	8156.0	8368.1	8408.0	8712.4	9111.6	9558.2
15°	7472.4	7474.9	7514.8	7669.5	7826.7	8063.7	8280.8	8325.7	8657.5	9104.1	9620.6
17.5°	7412.5	7410.1	7447.5	7602.2	7774.3	8021.3	8253.4	8308.2	8682.5	9161.5	9730.4
20°	7412.5	7415.0	7435.0	7574.7	7749.4	8011.3	8280.8	8348.2	8779.8	9291.3	9900.0
22.5°	7517.3	7527.3	7537.3	7632.1	7769.3	8026.3	8353.2	8443.0	8989.4	9508.3	10122.1
25°	7721.9	7724.4	7734.4	7811.7	7874.1	8068.7	8472.9	8607.6	9316.2	9825.2	10401.5
27.5°	7996.4	8031.3	8041.3	8091.2	8091.2	8173.5	8660.0	8854.6	9757.8	10281.8	10758.3
30°	8380.6	8393.1	8410.5	8465.4	8405.5	8370.6	8934.5	9184.0	10269.3	10833.1	11187.4
32.5°	8717.4	8744.9	8839.7	8929.5	8822.2	8712.4	9338.7	9633.1	10760.8	11407.0	11644.0
35°	9004.3	9071.7	9253.8	9453.4	9378.6	9268.8	9875.1	10182.0	11165.0	11818.7	12048.2
37.5°	9351.1	9403.5	9653.0	9977.4	10044.7	9992.3	10528.8	10748.3	11434.4	11923.4	12267.8
40°	9702.9	9782.8	10104.6	10553.7	10810.7	10848.1	11132.5	11279.7	11526.7	11718.9	12225.3
42.5°	10062.2	10199.4	10641.0	11165.0	11621.6	11706.4	11641.5	11703.9	11496.8	11436.9	12028.2
45°	10501.3	10663.5	11162.5	11831.1	12432.4	12564.7	12140.5	12083.1	11491.8	11329.6	11906.0
47.5°	11020.3	11182.4	11659.0	12437.4	13205.9	13303.2	12652.0	12547.2	11666.5	11494.3	12070.7
50°	11479.3	11591.6	12018.3	12889.0	13926.9	13984.3	13215.8	13088.6	12100.6	11950.9	12584.6
52.5°	11012.8	11000.3	11449.4	12522.2	14301.2	14992.3	14084.1	13961.8	12938.9	12709.4	13380.5
55°	9343.7	9201.4	9603.1	10658.5	13255.8	15888.0	15641.0	15396.4	14056.6	13472.8	14126.5
57.5°	6831.2	6791.3	6888.6	7879.1	10618.6	14500.8	16594.0	16571.6	15022.2	14171.4	14870.0
60°	5341.7	5281.8	5022.4	5049.8	7237.9	11327.2	14401.0	15062.1	15621.0	14590.6	15389.0
62.5°	4742.9	4698.0	4563.3	4191.5	4311.3	7594.7	10556.2	11162.5	13650.0	12886.5	13218.3
65°	3927.1	3914.6	4026.9	4011.9	3612.7	4194.0	5958.0	6569.2	8582.7	8690.0	8582.7
67.5°	2854.2	2831.8	3116.2	3677.6	3478.0	3166.1	3320.8	3532.9	4401.1	3952.0	3557.8
70°	1856.3	1823.8	1988.5	2657.1	3113.7	2759.4	2392.7	2357.7	2420.1	1504.5	1626.7
72.5°	1245.0	1207.6	1205.1	1462.1	1881.2	1858.8	1853.8	1836.3	1639.2	1187.6	1317.3
75°	693.6	663.7	656.2	631.2	673.6	686.1	731.0	756.0	818.3	900.7	998.0
77.5°	117.3	114.8	144.7	184.6	254.5	326.8	404.2	426.6	526.4	623.7	686.1
80°	64.9	67.4	87.3	107.3	142.2	194.6	249.5	264.5	324.3	376.7	426.6
82.5°	34.9	34.9	44.9	57.4	77.3	102.3	134.7	147.2	187.1	219.6	254.5
85°	12.5	12.5	17.5	22.5	32.4	42.4	52.4	59.9	82.3	112.3	127.2
87.5°	0.0	0.0	0.0	0.0	2.5	5.0	10.0	10.0	12.5	22.5	32.4
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°	9465.9	9465.9	9465.9	9465.9	9465.9	9465.9	9465.9	9465.9	9465.9	9465.9	9465.9
2.5°	9515.8	9448.4	9540.8	9583.2	9598.1	9608.1	9543.3	9498.3	9483.4	9436.0	9408.5
5°	9550.7	9505.8	9593.1	9593.1	9530.8	9465.9	9333.7	9241.4	9176.5	9099.1	9086.7
7.5°	9610.6	9578.2	9625.6	9528.3	9371.1	9196.5	8966.9	8787.3	8642.6	8547.8	8550.3
10°	9690.5	9650.5	9613.1	9396.0	9109.1	8787.3	8435.5	8173.5	7934.0	7824.2	7764.3
12.5°	9742.8	9685.5	9528.3	9169.0	8747.4	8315.7	7819.2	7430.0	7083.2	6926.0	6913.6
15°	9807.7	9702.9	9388.6	8874.6	8288.3	7699.5	7060.8	6519.3	6050.3	5805.8	5793.3
17.5°	9892.5	9720.4	9221.4	8537.8	7804.3	6936.0	6132.6	5451.5	4952.5	4762.9	4795.3
20°	10012.3	9740.4	9031.8	8163.5	7203.0	6067.8	5067.3	4441.0	4248.9	4236.5	4211.5
22.5°	10147.0	9752.8	8822.2	7744.4	6474.4	5142.1	4186.6	3919.6	3917.1	3979.5	3994.4
25°	10299.2	9762.8	8585.2	7255.4	5686.0	4219.0	3702.5	3622.7	3685.1	3802.3	3817.3
27.5°	10493.8	9782.8	8298.3	6718.9	4847.7	3645.1	3435.6	3415.6	3490.5	3600.2	3595.2
30°	10780.8	9855.1	7993.9	6102.7	3987.0	3373.2	3273.4	3275.9	3305.8	3358.2	3365.7
32.5°	11072.7	9967.4	7697.0	5409.1	3493.0	3218.5	3173.6	3168.6	3168.6	3191.1	3196.1
35°	11349.6	10094.6	7375.1	4685.5	3253.4	3128.7	3098.7	3083.8	3076.3	3071.3	3063.8
37.5°	11504.3	10157.0	7060.8	3972.0	3126.2	3068.8	3038.9	3018.9	2991.5	2971.5	2966.5
40°	11436.9	10084.7	6696.5	3438.1	3048.9	3011.4	2976.5	2949.1	2911.6	2894.2	2884.2
42.5°	11212.4	9860.1	6299.8	3186.1	2986.5	2949.1	2906.6	2861.7	2836.8	2821.8	2819.3
45°	10975.4	9588.2	5820.8	3038.9	2926.6	2881.7	2831.8	2781.9	2754.4	2747.0	2744.5
47.5°	10967.9	9453.4	5311.8	2921.6	2854.2	2809.3	2747.0	2697.1	2667.1	2657.1	2647.2
50°	11297.2	9590.7	4737.9	2819.3	2779.4	2732.0	2662.1	2607.2	2569.8	2557.3	2554.8
52.5°	11980.8	10107.1	4224.0	2717.0	2679.6	2624.7	2567.3	2512.4	2467.5	2445.1	2442.6
55°	12719.3	10763.3	3904.6	2612.2	2562.3	2514.9	2462.5	2402.7	2352.8	2317.8	2312.8
57.5°	13482.8	11479.3	3807.3	2480.0	2442.6	2410.1	2347.8	2282.9	2225.5	2193.1	2185.6
60°	14111.5	12095.6	3989.5	2340.3	2320.3	2277.9	2220.5	2158.1	2118.2	2093.3	2088.3
62.5°	11813.7	9847.6	3221.0	2188.1	2188.1	2143.2	2078.3	2033.4	2006.0	1988.5	1983.5
65°	7497.4	6097.7	2198.1	2035.9	2033.4	1973.5	1918.6	1888.7	1876.2	1848.8	1843.8
67.5°	3265.9	2786.9	1878.7	1881.2	1871.2	1806.4	1751.5	1729.0	1704.1	1674.1	1671.6
70°	1694.1	1726.5	1681.6	1709.1	1691.6	1614.2	1561.8	1526.9	1474.5	1444.6	1447.1
72.5°	1367.2	1402.2	1452.1	1494.5	1457.1	1394.7	1312.4	1269.9	1202.6	1170.1	1172.6
75°	1042.9	1080.3	1127.7	1172.6	1142.7	1065.4	1013.0	970.5	893.2	855.8	863.3
77.5°	718.6	738.5	795.9	793.4	783.4	761.0	683.6	633.7	553.9	509.0	514.0
80°	446.6	459.1	486.5	499.0	494.0	464.1	401.7	364.3	316.9	289.4	291.9
82.5°	269.5	276.9	301.9	304.4	301.9	279.4	232.0	204.6	174.6	159.7	159.7
85°	137.2	142.2	157.2	157.2	142.2	119.8	107.3	94.8	77.3	69.9	69.9
87.5°	37.4	37.4	47.4	39.9	32.4	29.9	15.0	12.5	5.0	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)