

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: P638745

Luminaire Tested: GWS-SA4F-740-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638745
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28979.2 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

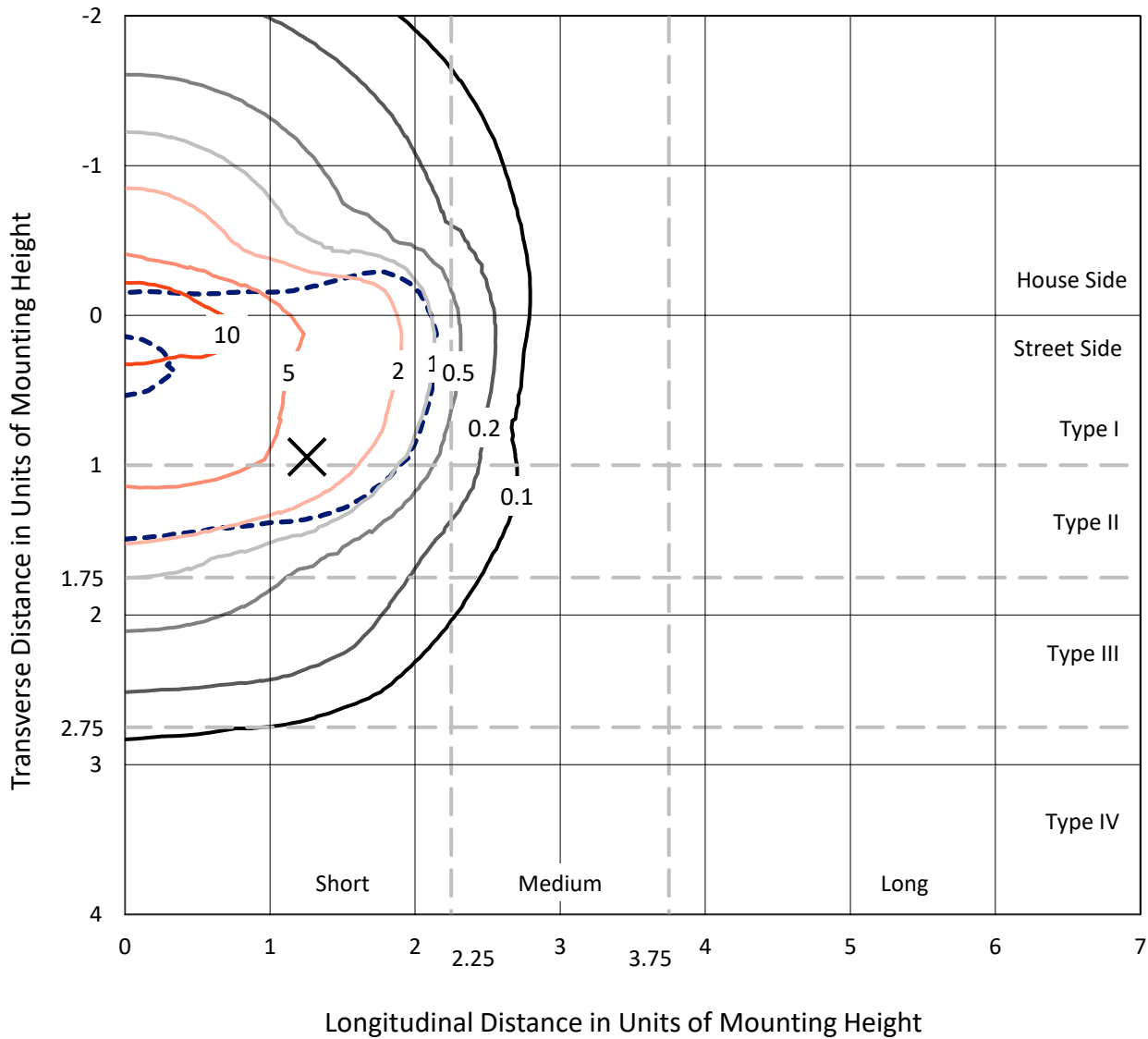
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

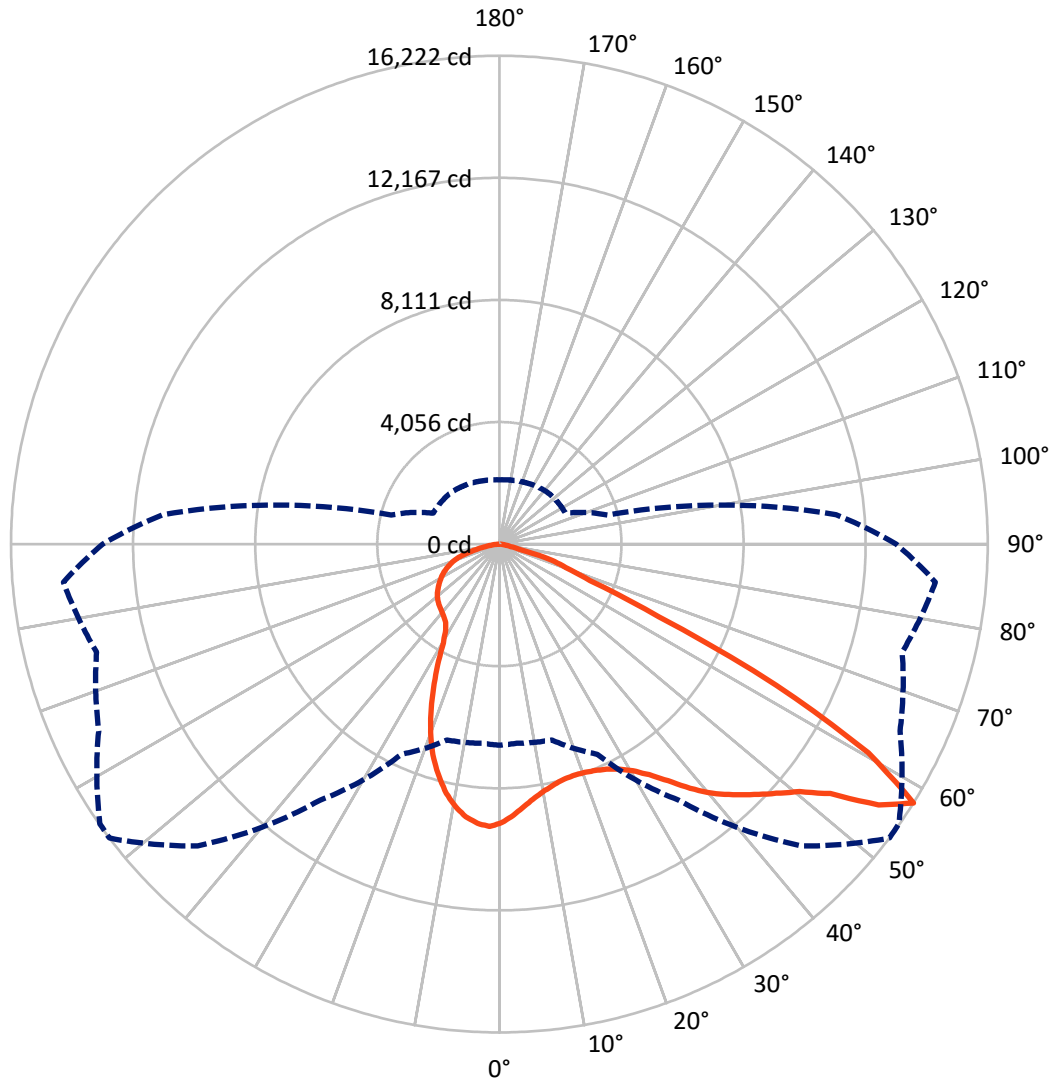
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 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	9060.7	0.0	9060.7
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	19918.5	0.0	19918.5
	% Fixture	68.7	0.0	68.7
Total	Lumens	28979.2	0.0	28979.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	836.8	2.9
10°-20°	2195.4	7.6
20°-30°	3234.7	11.2
30°-40°	4527.7	15.6
40°-50°	5952.0	20.5
50°-60°	6978.7	24.1
60°-70°	4111.2	14.2
70°-80°	1022.7	3.5
80°-90°	120.0	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°	28979.2	100.0
0°-180°	28979.2	100.0

Coefficient of Utilization



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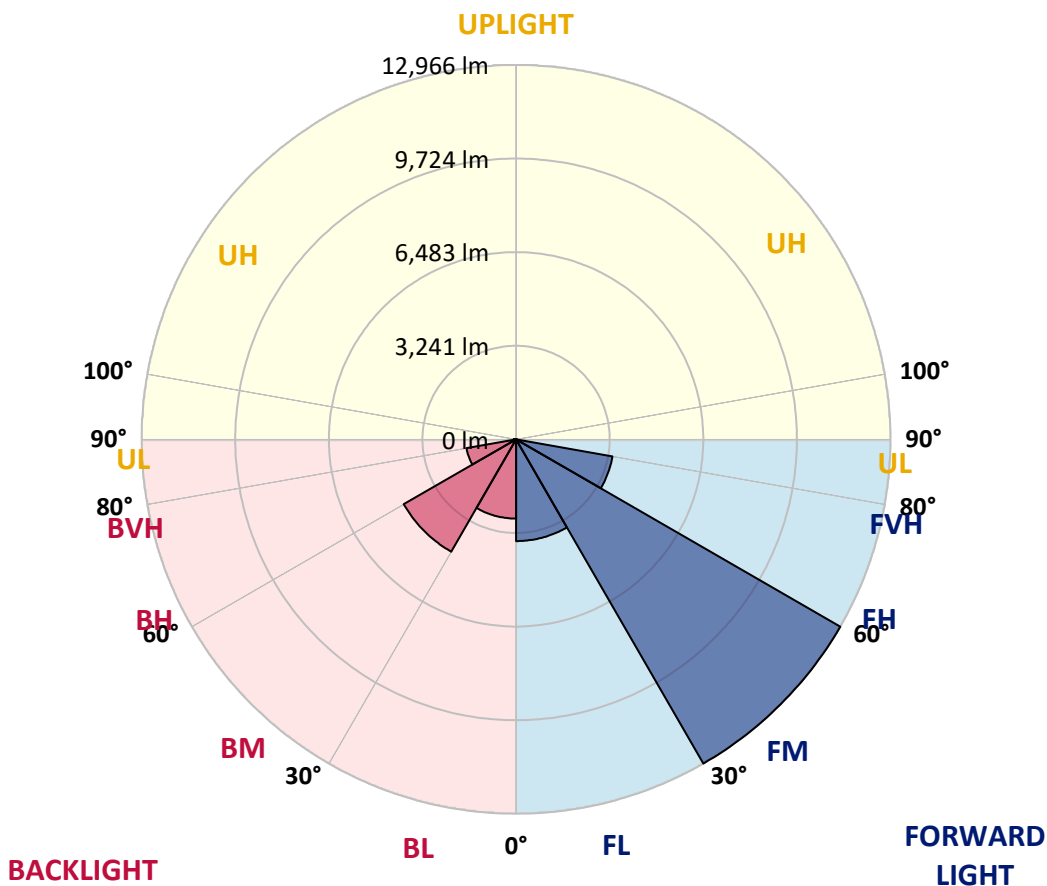
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3523.3	12.2			
FM (30°-60°)	12965.5	44.7			
FH (60°-80°)	3389.5	11.7			G2/5000
FVH (80°-90°)	40.2	0.1			G1/100
BL (0°-30°)	2743.6	9.5	B4/5000		
BM (30°-60°)	4492.8	15.5	B3/5000		
BH (60°-80°)	1744.5	6.0	B3/2500		G3/2500
BVH (80°-90°)	79.8	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°	9253.8	9253.8	9253.8	9253.8	9253.8	9253.8	9253.8	9253.8	9253.8	9253.8	9253.8
2.5°	8722.1	8746.5	8751.4	8827.0	8831.9	8941.6	9014.8	9000.2	9075.8	9168.5	9241.6
5°	8305.0	8307.5	8331.9	8422.1	8470.9	8614.8	8736.8	8736.8	8883.1	9073.4	9236.8
7.5°	7961.1	7958.7	7980.6	8080.6	8161.1	8334.3	8500.2	8519.7	8724.6	9002.6	9268.5
10°	7641.6	7658.7	7683.1	7805.0	7907.5	8122.1	8319.7	8351.4	8609.9	8953.8	9312.4
12.5°	7436.7	7439.2	7475.8	7612.3	7744.1	7973.3	8180.6	8219.7	8517.2	8907.5	9344.1
15°	7305.0	7307.5	7346.5	7497.7	7651.4	7883.1	8095.3	8139.2	8463.6	8900.2	9405.1
17.5°	7246.5	7244.0	7280.6	7431.9	7600.2	7841.6	8068.5	8122.1	8488.0	8956.3	9512.4
20°	7246.5	7248.9	7268.4	7405.0	7575.8	7831.9	8095.3	8161.1	8583.1	9083.1	9678.2
22.5°	7348.9	7358.7	7368.4	7461.1	7595.3	7846.5	8166.0	8253.8	8788.0	9295.3	9895.3
25°	7548.9	7551.4	7561.1	7636.7	7697.7	7888.0	8283.1	8414.8	9107.5	9605.1	10168.5
27.5°	7817.2	7851.4	7861.1	7909.9	7909.9	7990.4	8466.0	8656.3	9539.2	10051.4	10517.3
30°	8192.8	8205.0	8222.1	8275.8	8217.2	8183.1	8734.3	8978.2	10039.2	10590.5	10936.8
32.5°	8522.1	8548.9	8641.6	8729.4	8624.6	8517.2	9129.4	9417.3	10519.7	11151.4	11383.2
35°	8802.6	8868.5	9046.5	9241.6	9168.5	9061.2	9653.8	9953.9	10914.8	11553.9	11778.3
37.5°	9141.6	9192.9	9436.8	9753.9	9819.7	9768.5	10292.9	10507.5	11178.3	11656.3	11992.9
40°	9485.6	9563.6	9878.2	10317.3	10568.5	10605.1	10883.1	11027.0	11268.5	11456.3	11951.5
42.5°	9836.8	9970.9	10402.6	10914.8	11361.2	11444.1	11380.7	11441.7	11239.2	11180.7	11758.8
45°	10266.1	10424.6	10912.4	11566.1	12153.9	12283.2	11868.5	11812.4	11234.4	11075.8	11639.3
47.5°	10773.4	10931.9	11397.8	12158.8	12910.0	13005.1	12368.5	12266.1	11405.1	11236.8	11800.2
50°	11222.2	11331.9	11749.0	12600.2	13614.9	13671.0	12919.8	12795.4	11829.5	11683.2	12302.7
52.5°	10766.1	10753.9	11192.9	12241.7	13980.8	14656.4	13768.6	13649.1	12649.0	12424.6	13080.7
55°	9134.3	8995.3	9388.0	10419.7	12958.8	15532.0	15290.5	15051.5	13741.7	13171.0	13810.0
57.5°	6678.2	6639.2	6734.3	7702.6	10380.7	14175.9	16222.3	16200.3	14685.7	13853.9	14536.9
60°	5222.1	5163.5	4909.9	4936.7	7075.7	11073.4	14078.3	14724.7	15271.0	14263.7	15044.2
62.5°	4636.7	4592.8	4461.1	4097.6	4214.7	7424.5	10319.7	10912.4	13344.2	12597.8	12922.2
65°	3839.1	3826.9	3936.7	3922.0	3531.8	4100.1	5824.5	6422.1	8390.4	8495.3	8390.4
67.5°	2790.3	2768.3	3046.4	3595.2	3400.1	3095.2	3246.4	3453.7	4302.5	3863.5	3478.1
70°	1814.7	1783.0	1943.9	2597.6	3044.0	2697.6	2339.1	2304.9	2365.9	1470.8	1590.3
72.5°	1217.1	1180.5	1178.1	1429.3	1839.1	1817.1	1812.2	1795.2	1602.5	1161.0	1287.8
75°	678.1	648.8	641.5	617.1	658.5	670.7	714.6	739.0	800.0	880.5	975.6
77.5°	114.6	112.2	141.5	180.5	248.8	319.5	395.1	417.1	514.6	609.8	670.7
80°	63.4	65.9	85.4	104.9	139.0	190.2	243.9	258.5	317.1	368.3	417.1
82.5°	34.1	34.1	43.9	56.1	75.6	100.0	131.7	143.9	182.9	214.6	248.8
85°	12.2	12.2	17.1	22.0	31.7	41.5	51.2	58.5	80.5	109.8	124.4
87.5°	0.0	0.0	0.0	0.0	2.4	4.9	9.8	9.8	12.2	22.0	31.7
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°	9253.8	9253.8	9253.8	9253.8	9253.8	9253.8	9253.8	9253.8	9253.8	9253.8	9253.8
2.5°	9302.6	9236.8	9327.0	9368.5	9383.1	9392.9	9329.5	9285.5	9270.9	9224.6	9197.7
5°	9336.8	9292.9	9378.2	9378.2	9317.3	9253.8	9124.6	9034.3	8970.9	8895.3	8883.1
7.5°	9395.3	9363.6	9409.9	9314.8	9161.2	8990.4	8766.0	8590.4	8448.9	8356.3	8358.7
10°	9473.4	9434.3	9397.7	9185.5	8905.1	8590.4	8246.5	7990.4	7756.3	7648.9	7590.4
12.5°	9524.6	9468.5	9314.8	8963.6	8551.4	8129.4	7644.1	7263.6	6924.5	6770.9	6758.7
15°	9588.0	9485.6	9178.2	8675.8	8102.6	7527.0	6902.6	6373.3	5914.8	5675.7	5663.5
17.5°	9670.9	9502.6	9014.8	8346.5	7629.4	6780.6	5995.2	5329.4	4841.6	4656.2	4687.9
20°	9788.0	9522.1	8829.4	7980.6	7041.6	5931.8	4953.8	4341.5	4153.7	4141.5	4117.2
22.5°	9919.7	9534.3	8624.6	7570.9	6329.4	5026.9	4092.8	3831.8	3829.3	3890.3	3905.0
25°	10068.5	9544.1	8392.8	7092.8	5558.6	4124.5	3619.6	3541.5	3602.5	3717.1	3731.8
27.5°	10258.7	9563.6	8112.4	6568.4	4739.1	3563.5	3358.6	3339.1	3412.3	3519.6	3514.7
30°	10539.2	9634.3	7814.8	5966.0	3897.6	3297.6	3200.1	3202.5	3231.8	3283.0	3290.3
32.5°	10824.6	9744.1	7524.5	5287.9	3414.7	3146.4	3102.5	3097.6	3097.6	3119.6	3124.5
35°	11095.3	9868.5	7209.9	4580.6	3180.6	3058.6	3029.3	3014.7	3007.4	3002.5	2995.2
37.5°	11246.6	9929.5	6902.6	3883.0	3056.2	3000.1	2970.8	2951.3	2924.4	2904.9	2900.1
40°	11180.7	9858.7	6546.5	3361.0	2980.5	2944.0	2909.8	2883.0	2846.4	2829.3	2819.6
42.5°	10961.2	9639.2	6158.7	3114.7	2919.6	2883.0	2841.5	2797.6	2773.2	2758.6	2756.2
45°	10729.5	9373.4	5690.4	2970.8	2861.0	2817.1	2768.3	2719.6	2692.7	2685.4	2683.0
47.5°	10722.2	9241.6	5192.8	2856.2	2790.3	2746.4	2685.4	2636.6	2607.4	2597.6	2587.9
50°	11044.1	9375.8	4631.8	2756.2	2717.1	2670.8	2602.5	2548.8	2512.2	2500.0	2497.6
52.5°	11712.4	9880.7	4129.3	2656.2	2619.6	2565.9	2509.8	2456.1	2412.2	2390.3	2387.9
55°	12434.4	10522.2	3817.1	2553.7	2504.9	2458.6	2407.4	2348.8	2300.0	2265.9	2261.0
57.5°	13180.7	11222.2	3722.0	2424.4	2387.9	2356.1	2295.2	2231.8	2175.7	2143.9	2136.6
60°	13795.4	11824.6	3900.1	2287.9	2268.3	2226.9	2170.8	2109.8	2070.8	2046.4	2041.5
62.5°	11549.0	9627.0	3148.8	2139.1	2139.1	2095.2	2031.7	1987.8	1961.0	1943.9	1939.1
65°	7329.4	5961.1	2148.8	1990.3	1987.8	1929.3	1875.6	1846.4	1834.2	1807.4	1802.5
67.5°	3192.7	2724.4	1836.6	1839.1	1829.3	1765.9	1712.2	1690.3	1665.9	1636.6	1634.2
70°	1656.1	1687.8	1643.9	1670.8	1653.7	1578.1	1526.9	1492.7	1441.5	1412.2	1414.7
72.5°	1336.6	1370.8	1419.5	1461.0	1424.4	1363.4	1283.0	1241.5	1175.6	1143.9	1146.4
75°	1019.5	1056.1	1102.5	1146.4	1117.1	1041.5	990.3	948.8	873.2	836.6	843.9
77.5°	702.5	722.0	778.1	775.6	765.9	743.9	668.3	619.5	541.5	497.6	502.4
80°	436.6	448.8	475.6	487.8	482.9	453.7	392.7	356.1	309.8	282.9	285.4
82.5°	263.4	270.7	295.1	297.6	295.1	273.2	226.8	200.0	170.7	156.1	156.1
85°	134.1	139.0	153.7	153.7	139.0	117.1	104.9	92.7	75.6	68.3	68.3
87.5°	36.6	36.6	46.3	39.0	31.7	29.3	14.6	12.2	4.9	2.4	2.4
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)