

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: P643145

Luminaire Tested: GWS-SA6E-735-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643145
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-SAGE-735-U-SL2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37604.1 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

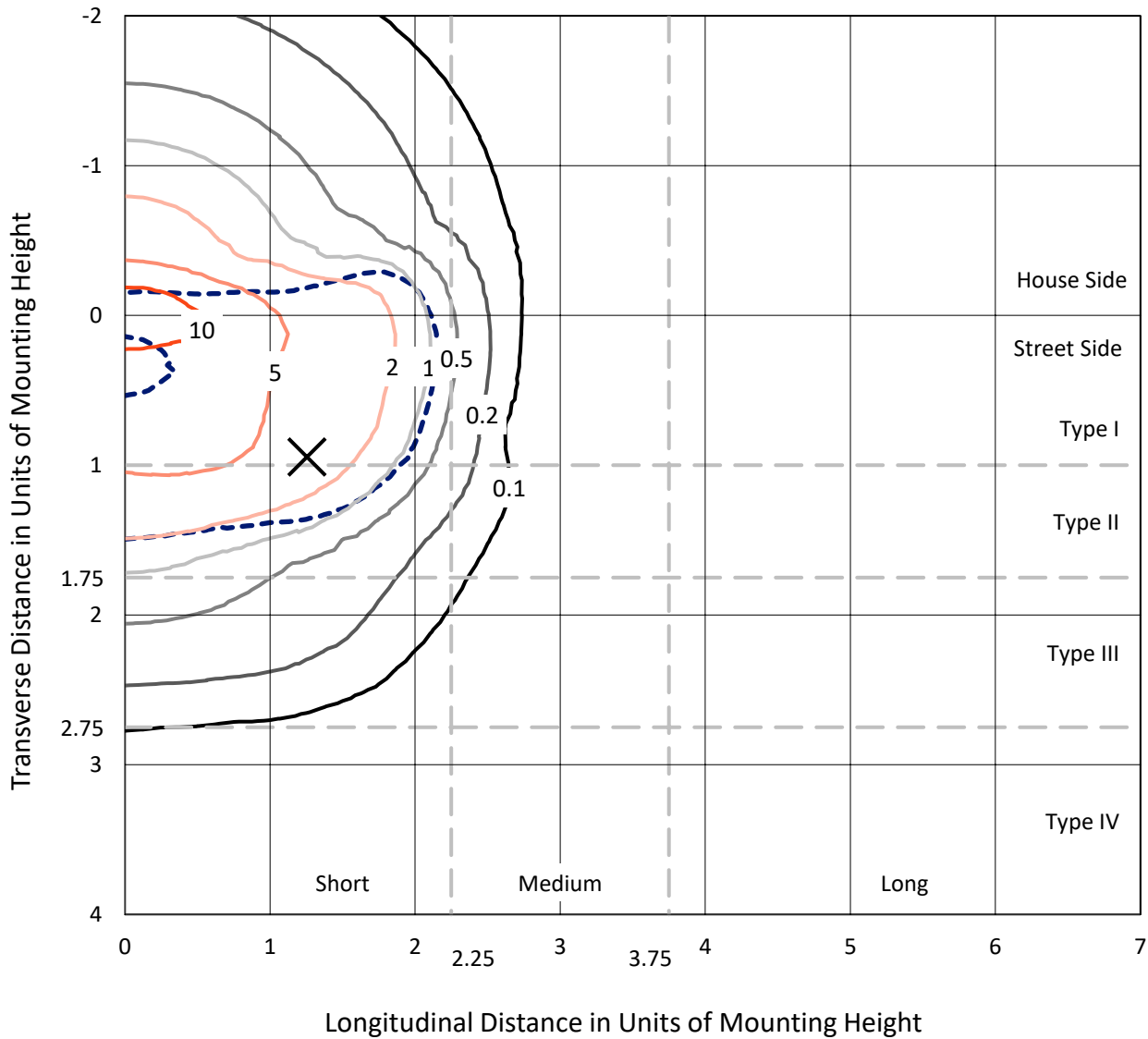
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

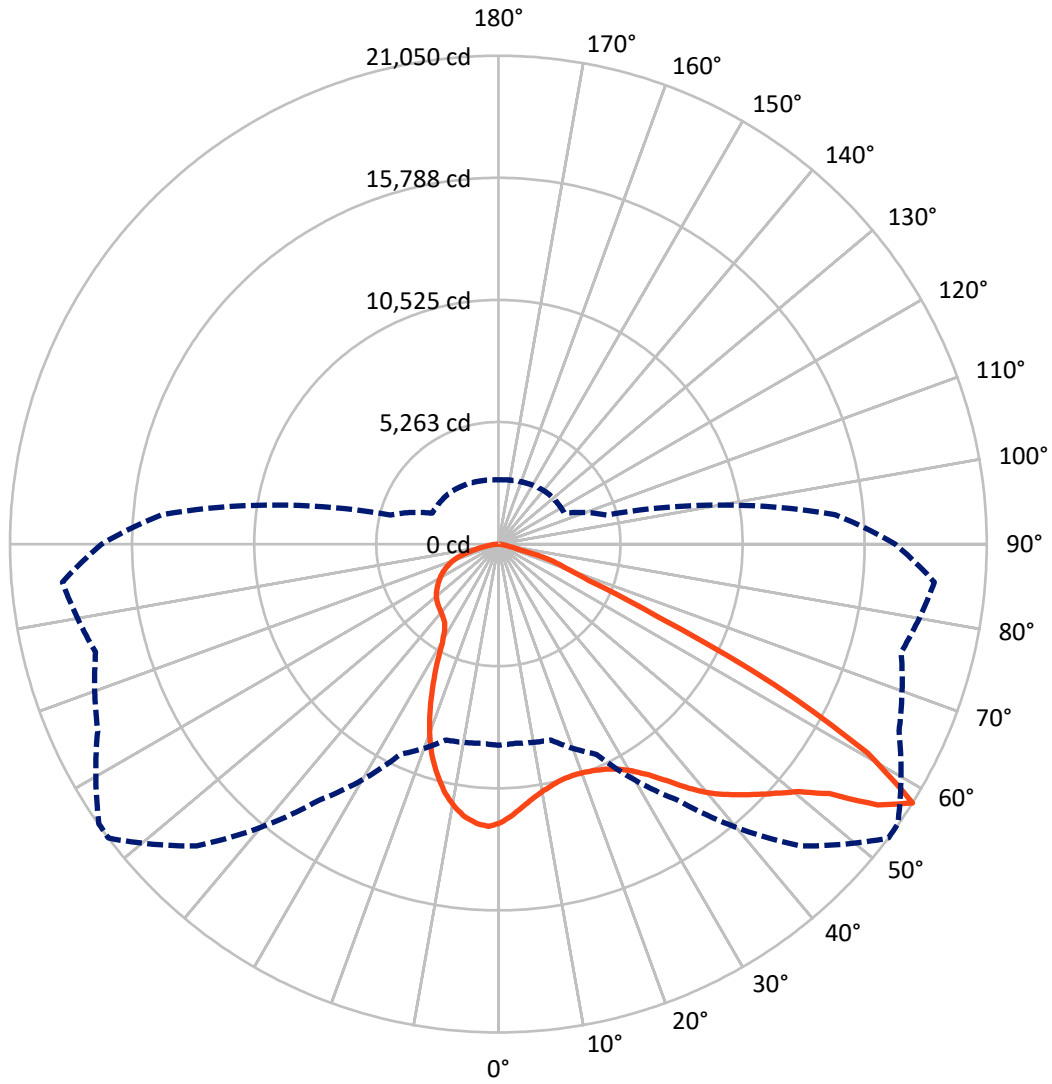
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.3 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	11757.4	0.0	11757.4
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	25846.7	0.0	25846.7
	% Fixture	68.7	0.0	68.7
Total	Lumens	37604.1	0.0	37604.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1085.9	2.9
10°-20°	2848.9	7.6
20°-30°	4197.4	11.2
30°-40°	5875.2	15.6
40°-50°	7723.4	20.5
50°-60°	9055.7	24.1
60°-70°	5334.8	14.2
70°-80°	1327.1	3.5
80°-90°	155.7	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°	37604.1	100.0
0°-180°	37604.1	100.0

Coefficient of Utilization



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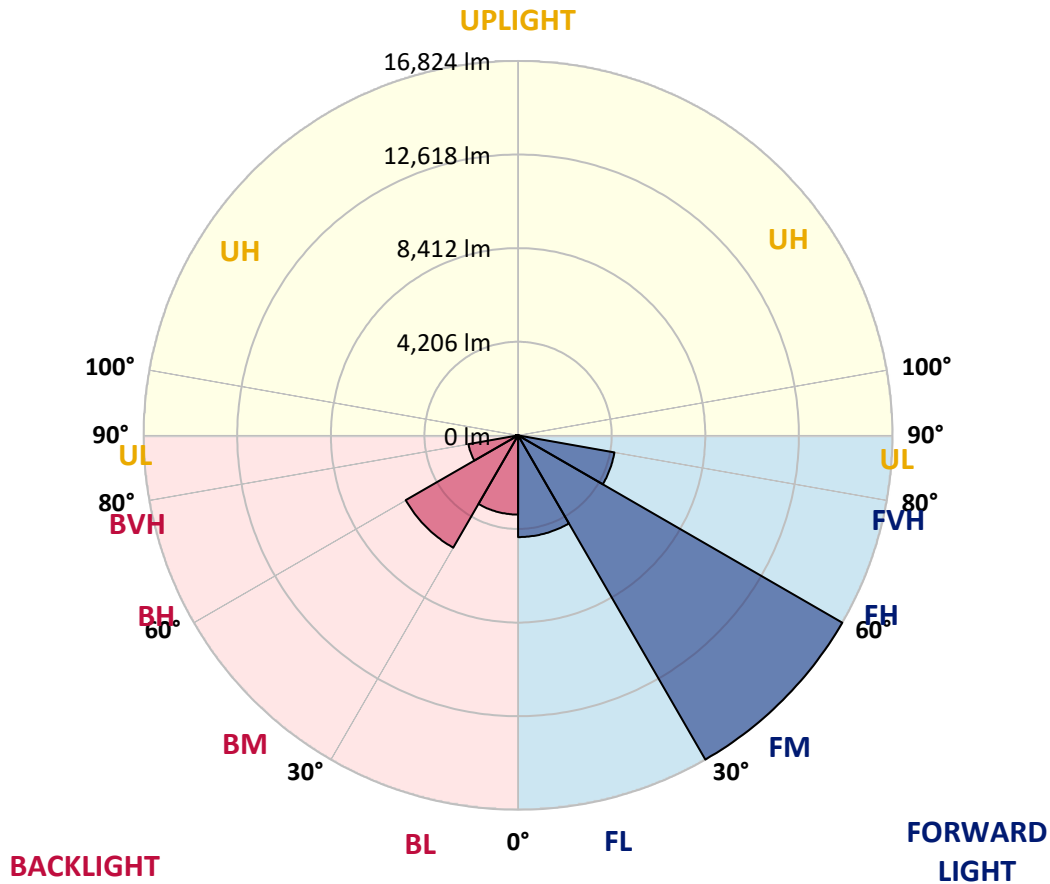
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4571.9	12.2			
FM (30°-60°)	16824.4	44.7			
FH (60°-80°)	4398.2	11.7			G2/5000
FVH (80°-90°)	52.1	0.1			G1/100
BL (0°-30°)	3560.2	9.5	B4/5000		
BM (30°-60°)	5829.9	15.5	B4/8500		
BH (60°-80°)	2263.7	6.0	B3/2500		G3/2500
BVH (80°-90°)	103.6	0.3			G2/225
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°	12008.0	12008.0	12008.0	12008.0	12008.0	12008.0	12008.0	12008.0	12008.0	12008.0	12008.0
2.5°	11318.0	11349.7	11356.0	11454.1	11460.5	11602.9	11697.8	11678.8	11777.0	11897.2	11992.2
5°	10776.8	10780.0	10811.6	10928.7	10992.0	11178.8	11337.0	11337.0	11526.9	11773.8	11985.9
7.5°	10330.6	10327.4	10355.9	10485.6	10590.1	10814.8	11030.0	11055.3	11321.2	11682.0	12027.0
10°	9915.9	9938.1	9969.7	10128.0	10260.9	10539.4	10795.8	10837.0	11172.4	11618.7	12084.0
12.5°	9650.1	9653.2	9700.7	9878.0	10048.9	10346.4	10615.4	10666.0	11052.2	11558.6	12125.1
15°	9479.2	9482.3	9533.0	9729.2	9928.6	10229.3	10504.6	10561.6	10982.5	11549.1	12204.2
17.5°	9403.2	9400.0	9447.5	9643.8	9862.1	10175.5	10469.8	10539.4	11014.2	11621.9	12343.5
20°	9403.2	9406.4	9431.7	9608.9	9830.5	10162.8	10504.6	10590.1	11137.6	11786.5	12558.7
22.5°	9536.1	9548.8	9561.5	9681.7	9855.8	10181.8	10596.4	10710.4	11403.5	12061.8	12840.4
25°	9795.7	9798.8	9811.5	9909.6	9988.7	10235.6	10748.3	10919.2	11818.1	12463.8	13194.9
27.5°	10143.8	10188.1	10200.8	10264.1	10264.1	10368.5	10985.7	11232.6	12378.3	13043.0	13647.5
30°	10631.2	10647.1	10669.2	10738.8	10662.9	10618.6	11333.9	11650.4	13027.1	13742.4	14191.9
32.5°	11058.5	11093.3	11213.6	11327.5	11191.4	11052.2	11846.6	12220.1	13650.6	14470.4	14771.0
35°	11422.5	11507.9	11739.0	11992.2	11897.2	11758.0	12527.1	12916.4	14163.4	14992.6	15283.8
37.5°	11862.4	11928.9	12245.4	12656.8	12742.3	12675.8	13356.3	13634.8	14505.2	15125.5	15562.3
40°	12308.7	12410.0	12818.2	13387.9	13713.9	13761.4	14122.2	14309.0	14622.3	14866.0	15508.5
42.5°	12764.4	12938.5	13498.7	14163.4	14742.6	14850.2	14767.9	14847.0	14584.3	14508.4	15258.5
45°	13321.5	13527.2	14160.2	15008.4	15771.2	15938.9	15400.9	15328.1	14578.0	14372.3	15103.4
47.5°	13979.8	14185.5	14790.0	15777.5	16752.3	16875.8	16049.7	15916.8	14799.5	14581.1	15312.3
50°	14562.2	14704.6	15245.8	16350.4	17667.0	17739.8	16765.0	16603.6	15350.2	15160.3	15964.3
52.5°	13970.3	13954.5	14524.2	15885.1	18141.8	19018.5	17866.4	17711.3	16413.7	16122.5	16973.9
55°	11852.9	11672.5	12182.1	13520.9	16815.6	20154.7	19841.4	19531.2	17831.6	17091.0	17920.2
57.5°	8665.8	8615.1	8738.6	9995.1	13470.2	18395.0	21050.4	21021.9	19056.5	17977.2	18863.4
60°	6776.3	6700.3	6371.1	6406.0	9181.7	14369.1	18268.4	19107.1	19816.1	18508.9	19521.7
62.5°	6016.7	5959.7	5788.8	5317.2	5469.1	9634.3	13391.1	14160.2	17315.7	16347.2	16768.2
65°	4981.7	4965.9	5108.3	5089.3	4582.9	5320.4	7558.0	8333.4	10887.6	11023.7	10887.6
67.5°	3620.8	3592.3	3953.1	4665.2	4412.0	4016.4	4212.6	4481.6	5583.1	5013.4	4513.3
70°	2354.8	2313.6	2522.5	3370.7	3949.9	3500.5	3035.2	2990.9	3070.0	1908.5	2063.6
72.5°	1579.3	1531.9	1528.7	1854.7	2386.4	2357.9	2351.6	2329.4	2079.4	1506.5	1671.1
75°	879.9	841.9	832.4	800.7	854.5	870.4	927.3	959.0	1038.1	1142.6	1266.0
77.5°	148.8	145.6	183.6	234.2	322.8	414.6	512.7	541.2	667.8	791.2	870.4
80°	82.3	85.5	110.8	136.1	180.4	246.9	316.5	335.5	411.4	477.9	541.2
82.5°	44.3	44.3	57.0	72.8	98.1	129.8	170.9	186.7	237.4	278.5	322.8
85°	15.8	15.8	22.2	28.5	41.1	53.8	66.5	76.0	104.4	142.4	161.4
87.5°	0.0	0.0	0.0	0.0	3.2	6.3	12.7	12.7	15.8	28.5	41.1
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°	12008.0	12008.0	12008.0	12008.0	12008.0	12008.0	12008.0	12008.0	12008.0	12008.0	12008.0
2.5°	12071.3	11985.9	12103.0	12156.8	12175.8	12188.4	12106.1	12049.2	12030.2	11970.0	11935.2
5°	12115.6	12058.6	12169.4	12169.4	12090.3	12008.0	11840.3	11723.2	11640.9	11542.8	11526.9
7.5°	12191.6	12150.4	12210.6	12087.1	11887.7	11666.2	11375.0	11147.1	10963.6	10843.3	10846.5
10°	12292.9	12242.2	12194.7	11919.4	11555.4	11147.1	10700.9	10368.5	10064.7	9925.4	9849.5
12.5°	12359.3	12286.5	12087.1	11631.4	11096.5	10548.9	9919.1	9425.4	8985.4	8786.0	8770.2
15°	12441.6	12308.7	11909.9	11257.9	10514.1	9767.2	8956.9	8270.1	7675.1	7365.0	7349.1
17.5°	12549.2	12330.8	11697.8	10830.6	9900.1	8798.7	7779.6	6915.5	6282.5	6042.0	6083.1
20°	12701.1	12356.2	11457.3	10355.9	9137.4	7697.3	6428.1	5633.7	5390.0	5374.2	5342.5
22.5°	12872.0	12372.0	11191.4	9824.2	8213.2	6523.1	5310.9	4972.2	4969.0	5048.2	5067.2
25°	13065.1	12384.6	10890.8	9203.8	7213.0	5352.0	4696.9	4595.6	4674.7	4823.5	4842.4
27.5°	13312.0	12410.0	10526.8	8523.3	6149.6	4624.1	4358.2	4332.9	4427.8	4567.1	4560.8
30°	13676.0	12501.7	10140.7	7741.6	5057.7	4279.1	4152.5	4155.6	4193.6	4260.1	4269.6
32.5°	14046.3	12644.2	9764.0	6861.7	4431.0	4082.8	4025.9	4019.5	4019.5	4048.0	4054.4
35°	14397.6	12805.6	9355.7	5943.9	4127.2	3968.9	3930.9	3911.9	3902.4	3896.1	3886.6
37.5°	14593.8	12884.7	8956.9	5038.7	3965.7	3892.9	3855.0	3829.6	3794.8	3769.5	3763.2
40°	14508.4	12792.9	8494.9	4361.4	3867.6	3820.2	3775.8	3741.0	3693.6	3671.4	3658.7
42.5°	14223.5	12508.1	7991.6	4041.7	3788.5	3741.0	3687.2	3630.3	3598.6	3579.6	3576.4
45°	13922.8	12163.1	7383.9	3855.0	3712.5	3655.6	3592.3	3529.0	3494.2	3484.7	3481.5
47.5°	13913.3	11992.2	6738.3	3706.2	3620.8	3563.8	3484.7	3421.4	3383.4	3370.7	3358.1
50°	14331.1	12166.3	6010.3	3576.4	3525.8	3465.7	3377.1	3307.4	3259.9	3244.1	3241.0
52.5°	15198.3	12821.4	5358.3	3446.7	3399.2	3329.6	3256.8	3187.2	3130.2	3101.7	3098.5
55°	16135.2	13653.8	4953.2	3313.8	3250.5	3190.3	3123.9	3047.9	2984.6	2940.3	2934.0
57.5°	17103.7	14562.2	4829.8	3146.0	3098.5	3057.4	2978.3	2896.0	2823.2	2782.0	2772.5
60°	17901.2	15343.9	5060.8	2968.8	2943.4	2889.6	2816.8	2737.7	2687.1	2655.4	2649.1
62.5°	14986.3	12492.2	4086.0	2775.7	2775.7	2718.7	2636.4	2579.5	2544.7	2522.5	2516.2
65°	9510.8	7735.3	2788.4	2582.6	2579.5	2503.5	2433.9	2395.9	2380.1	2345.3	2338.9
67.5°	4143.0	3535.3	2383.2	2386.4	2373.7	2291.5	2221.8	2193.3	2161.7	2123.7	2120.5
70°	2149.0	2190.2	2133.2	2168.0	2145.9	2047.8	1981.3	1937.0	1870.5	1832.5	1835.7
72.5°	1734.4	1778.7	1842.0	1895.8	1848.4	1769.2	1664.8	1611.0	1525.5	1484.4	1487.5
75°	1323.0	1370.4	1430.6	1487.5	1449.6	1351.5	1285.0	1231.2	1133.1	1085.6	1095.1
77.5°	911.5	936.8	1009.6	1006.5	993.8	965.3	867.2	803.9	702.6	645.7	652.0
80°	566.5	582.4	617.2	633.0	626.7	588.7	509.6	462.1	402.0	367.1	370.3
82.5°	341.8	351.3	383.0	386.1	383.0	354.5	294.3	259.5	221.5	202.6	202.6
85°	174.1	180.4	199.4	199.4	180.4	151.9	136.1	120.3	98.1	88.6	88.6
87.5°	47.5	47.5	60.1	50.6	41.1	38.0	19.0	15.8	6.3	3.2	3.2
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)