

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: P643699

Luminaire Tested: GWS-SA6F-740-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643699
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-SA6F-740-U-SL3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41679.9 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

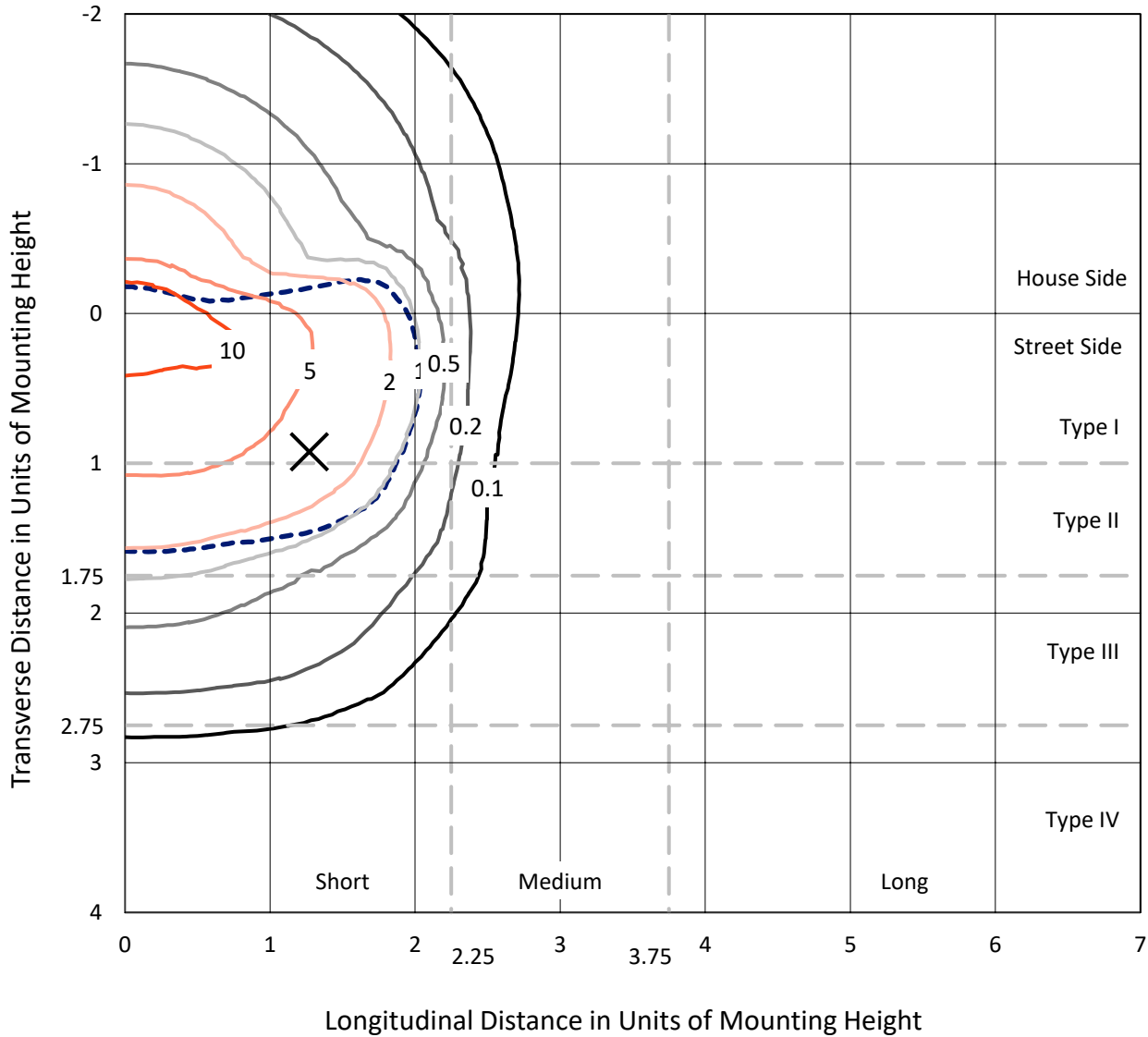
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

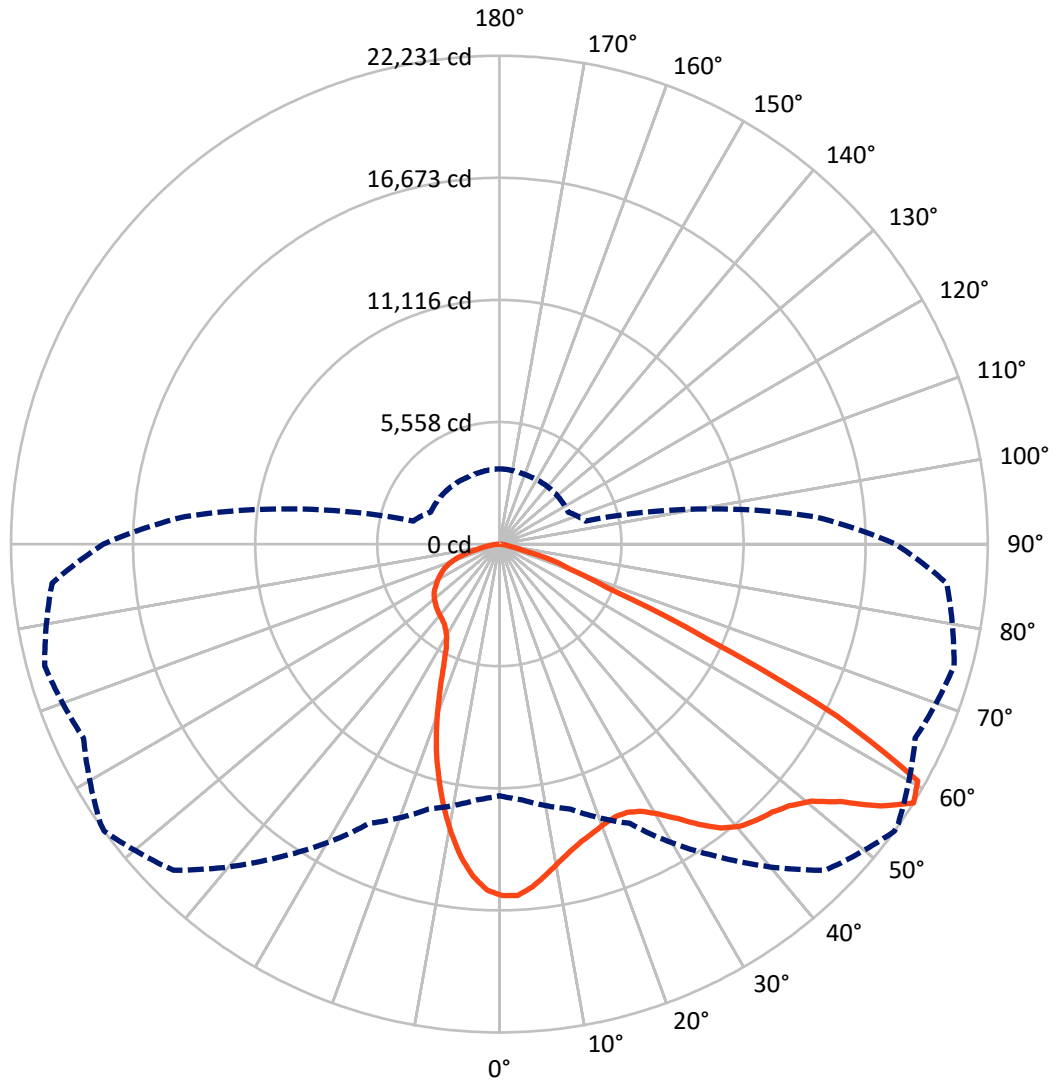
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 17.8 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	12116.8	0.0	12116.8
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	29563.1	0.0	29563.1
	% Fixture	70.9	0.0	70.9
Total	Lumens	41679.9	0.0	41679.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1406.5	3.4
10°-20°	3356.2	8.1
20°-30°	4644.5	11.1
30°-40°	6453.5	15.5
40°-50°	8523.1	20.4
50°-60°	10128.5	24.3
60°-70°	5611.3	13.5
70°-80°	1397.3	3.4
80°-90°	158.9	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°	41679.9	100.0
0°-180°	41679.9	100.0

Coefficient of Utilization



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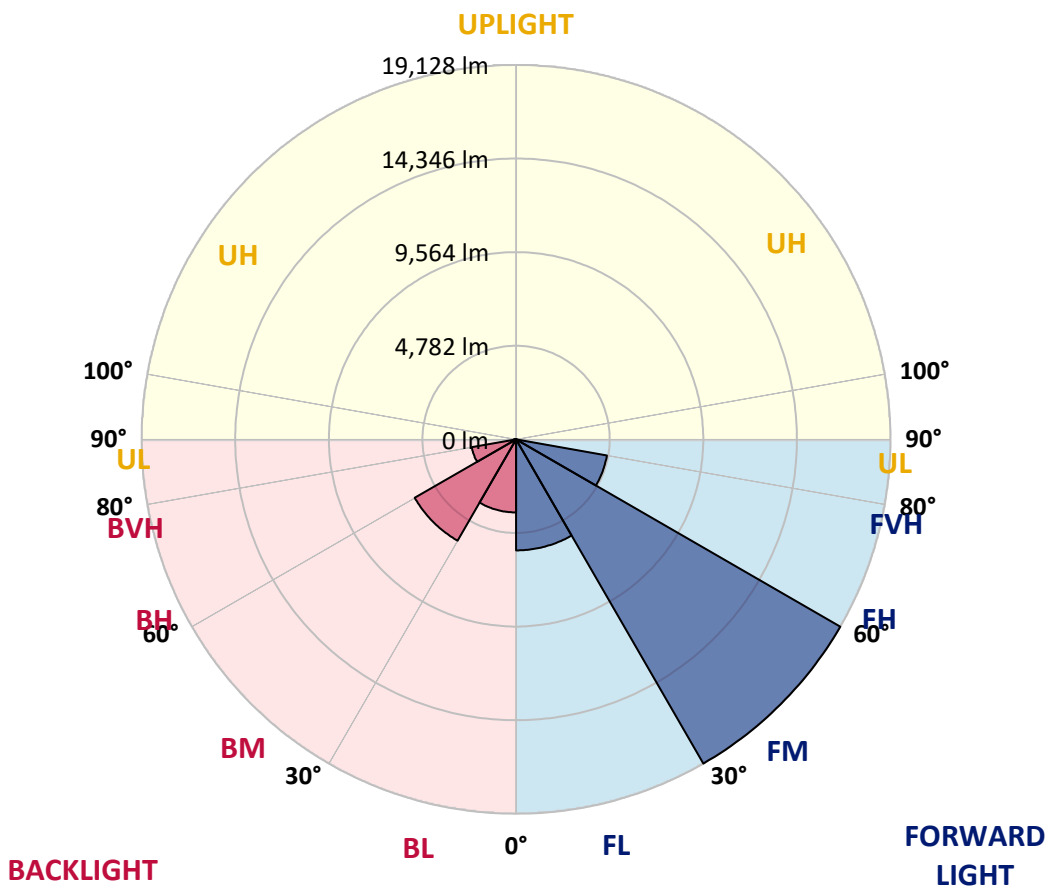
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5673.3	13.6			
FM (30°-60°)	19127.6	45.9			
FH (60°-80°)	4712.5	11.3			G2/5000
FVH (80°-90°)	49.7	0.1			G1/100
BL (0°-30°)	3733.9	9.0	B4/5000		
BM (30°-60°)	5977.5	14.3	B4/8500		
BH (60°-80°)	2296.2	5.5	B3/2500		G3/2500
BVH (80°-90°)	109.2	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°	54°	55°	65°	75°	85°
0°	16001.9	16001.9	16001.9	16001.9	16001.9	16001.9	16001.9	16001.9	16001.9	16001.9	16001.9
2.5°	15702.2	15734.3	15755.7	15830.6	15894.8	15951.9	16012.6	16012.6	16009.0	15998.3	15976.9
5°	15081.4	15117.0	15167.0	15270.4	15409.6	15509.5	15673.6	15687.9	15759.2	15787.8	15773.5
7.5°	14360.6	14371.3	14435.6	14571.1	14792.4	14970.7	15206.2	15234.8	15406.0	15505.9	15488.1
10°	13572.1	13536.5	13650.6	13850.4	14139.4	14439.1	14742.4	14767.4	15042.1	15231.2	15216.9
12.5°	12851.4	12855.0	12969.2	13211.8	13572.1	13943.2	14349.9	14407.0	14746.0	14988.6	14963.6
15°	12248.5	12262.7	12401.9	12676.6	13086.9	13529.3	14036.0	14089.5	14517.6	14838.7	14767.4
17.5°	11766.8	11781.1	11902.4	12216.4	12655.2	13190.4	13807.6	13861.1	14392.8	14774.5	14628.2
20°	11435.0	11427.9	11545.6	11845.3	12298.4	12880.0	13607.8	13686.3	14353.5	14799.5	14535.5
22.5°	11299.4	11295.9	11381.5	11627.7	12052.2	12640.9	13486.5	13593.6	14396.3	14910.1	14478.4
25°	11367.2	11352.9	11427.9	11609.8	11948.8	12548.2	13522.2	13636.4	14578.3	15138.4	14489.1
27.5°	11577.7	11559.9	11624.1	11788.2	12045.1	12644.5	13771.9	13904.0	14963.6	15555.9	14631.8
30°	11898.8	11888.1	11952.3	12109.3	12334.1	12965.6	14250.0	14399.9	15559.4	16205.2	14942.2
32.5°	12273.4	12255.6	12369.8	12551.7	12812.2	13550.7	14892.3	15088.5	16265.9	17040.1	15463.1
35°	12694.5	12680.2	12837.2	13101.2	13475.8	14364.2	15670.0	15884.1	16986.6	17985.6	16155.3
37.5°	13104.8	13104.8	13408.0	13800.5	14271.4	15249.0	16401.5	16537.0	17486.1	18824.0	16897.4
40°	13468.7	13490.1	13946.8	14535.5	15134.9	16048.2	16883.1	16997.3	17707.3	19402.0	17543.2
42.5°	13871.8	13889.7	14421.3	15192.0	15905.5	16694.0	17175.7	17232.8	17750.1	19691.0	17999.9
45°	14193.0	14217.9	14878.0	15702.2	16576.3	17179.3	17407.6	17457.5	17810.8	19848.0	18331.7
47.5°	14360.6	14396.3	15152.7	16112.5	17029.4	17614.5	17789.4	17810.8	18060.5	20122.7	18731.3
50°	14332.1	14403.5	15256.2	16315.8	17364.8	18053.4	18403.0	18438.7	18570.7	20525.9	19198.7
52.5°	14585.4	14617.5	15477.4	16558.4	17842.9	18863.3	19469.8	19519.8	19459.1	20829.2	19477.0
55°	14164.4	14317.8	15202.7	16522.8	18570.7	20115.6	21050.4	21025.4	20265.5	21168.1	19940.8
57.5°	11456.4	11681.2	12491.1	14025.3	17371.9	20993.3	22231.3	22170.7	20889.8	21428.6	20443.8
60°	7931.4	7967.0	8698.4	9786.6	13408.0	18545.7	21885.3	22017.3	21004.0	21100.3	19512.6
62.5°	6343.7	6333.0	6400.7	6429.3	8527.2	13037.0	17275.6	17757.2	17450.4	16440.7	13829.0
65°	5416.0	5455.3	5655.1	5551.6	5565.9	7342.7	10321.8	10389.6	10175.5	9811.6	7314.1
67.5°	4238.6	4306.4	4659.6	5062.8	4934.4	4727.4	5355.4	5323.2	4195.8	3246.8	2683.0
70°	2654.5	2697.3	3075.5	3974.6	4295.7	3881.8	3443.0	3428.7	2247.8	1848.2	2026.5
72.5°	1548.5	1555.6	1662.6	2215.6	2850.7	2654.5	2533.2	2440.4	1445.0	1473.5	1616.2
75°	852.7	852.7	849.2	956.2	1123.9	995.4	963.3	938.3	966.9	1095.3	1202.4
77.5°	178.4	182.0	192.7	253.3	328.2	399.6	503.1	506.6	631.5	731.4	817.0
80°	82.1	85.6	107.0	135.6	174.8	231.9	306.8	310.4	381.8	460.3	517.3
82.5°	42.8	46.4	57.1	71.4	92.8	121.3	171.3	171.3	228.3	271.2	306.8
85°	14.3	14.3	21.4	28.5	39.2	50.0	67.8	67.8	99.9	132.0	153.4
87.5°	0.0	0.0	0.0	0.0	3.6	7.1	14.3	14.3	17.8	21.4	35.7
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°	16001.9	16001.9	16001.9	16001.9	16001.9	16001.9	16001.9	16001.9	16001.9	16001.9	16001.9
2.5°	15930.5	15819.9	15823.5	15844.9	15777.1	15673.6	15605.8	15520.2	15466.7	15456.0	15495.2
5°	15702.2	15573.7	15484.5	15391.8	15199.1	14970.7	14792.4	14646.1	14549.7	14514.1	14471.2
7.5°	15388.2	15220.5	14995.7	14735.3	14385.6	13978.9	13693.5	13425.9	13240.3	13186.8	13161.8
10°	15074.2	14831.6	14432.0	13946.8	13365.2	12815.8	12298.4	11902.4	11588.4	11410.0	11467.1
12.5°	14749.5	14449.8	13825.5	13079.8	12269.9	11442.1	10764.2	10107.8	9601.1	9347.8	9272.9
15°	14464.1	14057.4	13186.8	12177.1	11099.6	10057.8	9076.6	8091.9	7449.7	7100.0	7003.7
17.5°	14221.5	13693.5	12512.5	11256.6	9968.6	8484.4	7278.4	6365.1	5926.2	5733.6	5719.3
20°	13982.5	13336.7	11845.3	10264.7	8662.8	7000.1	5922.7	5494.5	5337.5	5269.7	5266.2
22.5°	13768.4	12962.0	11142.4	9272.9	7364.1	5883.4	5291.1	5105.6	5062.8	5062.8	5055.7
25°	13586.4	12587.4	10421.7	8220.4	6190.2	5237.6	4962.9	4884.4	4902.2	4934.4	4937.9
27.5°	13511.5	12294.9	9726.0	7139.3	5380.3	4863.0	4738.1	4727.4	4777.4	4827.3	4834.5
30°	13590.0	12095.1	9012.4	6104.6	4895.1	4634.7	4577.6	4599.0	4659.6	4709.6	4709.6
32.5°	13832.6	11995.2	8284.6	5348.2	4613.2	4474.1	4456.3	4477.7	4524.0	4552.6	4556.2
35°	14242.9	12034.4	7531.8	4838.0	4431.3	4356.4	4352.8	4367.1	4384.9	4402.7	4406.3
37.5°	14760.2	12209.2	6725.4	4541.9	4313.5	4270.7	4263.6	4260.0	4263.6	4263.6	4267.2
40°	15266.9	12473.2	6004.7	4367.1	4231.5	4195.8	4178.0	4153.0	4149.4	4142.3	4138.7
42.5°	15641.5	12676.6	5430.3	4242.2	4156.6	4113.7	4092.3	4053.1	4049.5	4046.0	4042.4
45°	15923.4	12847.9	4952.2	4120.9	4078.1	4038.8	3992.4	3956.8	3963.9	3971.0	3971.0
47.5°	16240.9	12997.7	4602.5	4006.7	3981.7	3942.5	3885.4	3860.4	3885.4	3910.4	3910.4
50°	16626.2	13208.2	4317.1	3892.5	3881.8	3835.5	3785.5	3774.8	3803.3	3839.0	3839.0
52.5°	16908.1	13390.2	4113.7	3778.4	3778.4	3717.7	3674.9	3671.3	3703.4	3739.1	3742.7
55°	17436.1	13814.8	4042.4	3646.4	3632.1	3585.7	3553.6	3528.6	3567.9	3600.0	3600.0
57.5°	18032.0	14378.5	4060.2	3457.3	3439.4	3425.1	3400.2	3371.6	3382.3	3418.0	3421.6
60°	16769.0	13286.7	3864.0	3268.2	3257.5	3250.3	3218.2	3168.3	3182.5	3211.1	3214.6
62.5°	11713.3	8830.5	3125.4	3032.7	3068.4	3064.8	3022.0	2964.9	2968.5	3007.7	3007.7
65°	6079.6	4777.4	2743.7	2818.6	2872.1	2850.7	2779.4	2729.4	2722.3	2772.2	2761.5
67.5°	2622.4	2608.1	2497.5	2593.8	2650.9	2604.5	2529.6	2447.6	2454.7	2472.5	2458.3
70°	2112.2	2176.4	2222.8	2326.2	2372.6	2287.0	2204.9	2158.6	2119.3	2115.7	2090.8
72.5°	1687.6	1776.8	1880.3	1987.3	2001.6	1915.9	1812.5	1769.7	1709.0	1705.4	1680.5
75°	1270.2	1345.1	1427.1	1512.8	1512.8	1430.7	1362.9	1341.5	1270.2	1248.8	1227.3
77.5°	867.0	913.4	977.6	999.0	1020.4	988.3	920.5	884.8	802.8	781.4	752.8
80°	545.9	578.0	617.2	631.5	652.9	613.7	560.2	520.9	463.8	446.0	431.7
82.5°	328.2	349.7	374.6	381.8	399.6	371.1	321.1	292.6	260.5	246.2	235.5
85°	167.7	178.4	192.7	196.2	192.7	164.1	146.3	132.0	110.6	107.0	99.9
87.5°	42.8	50.0	53.5	50.0	46.4	35.7	25.0	17.8	7.1	7.1	3.6
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)