

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: P641165

Luminaire Tested: GWS-SA5F-735-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641165
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-SA5F-735-U-SL2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35062 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

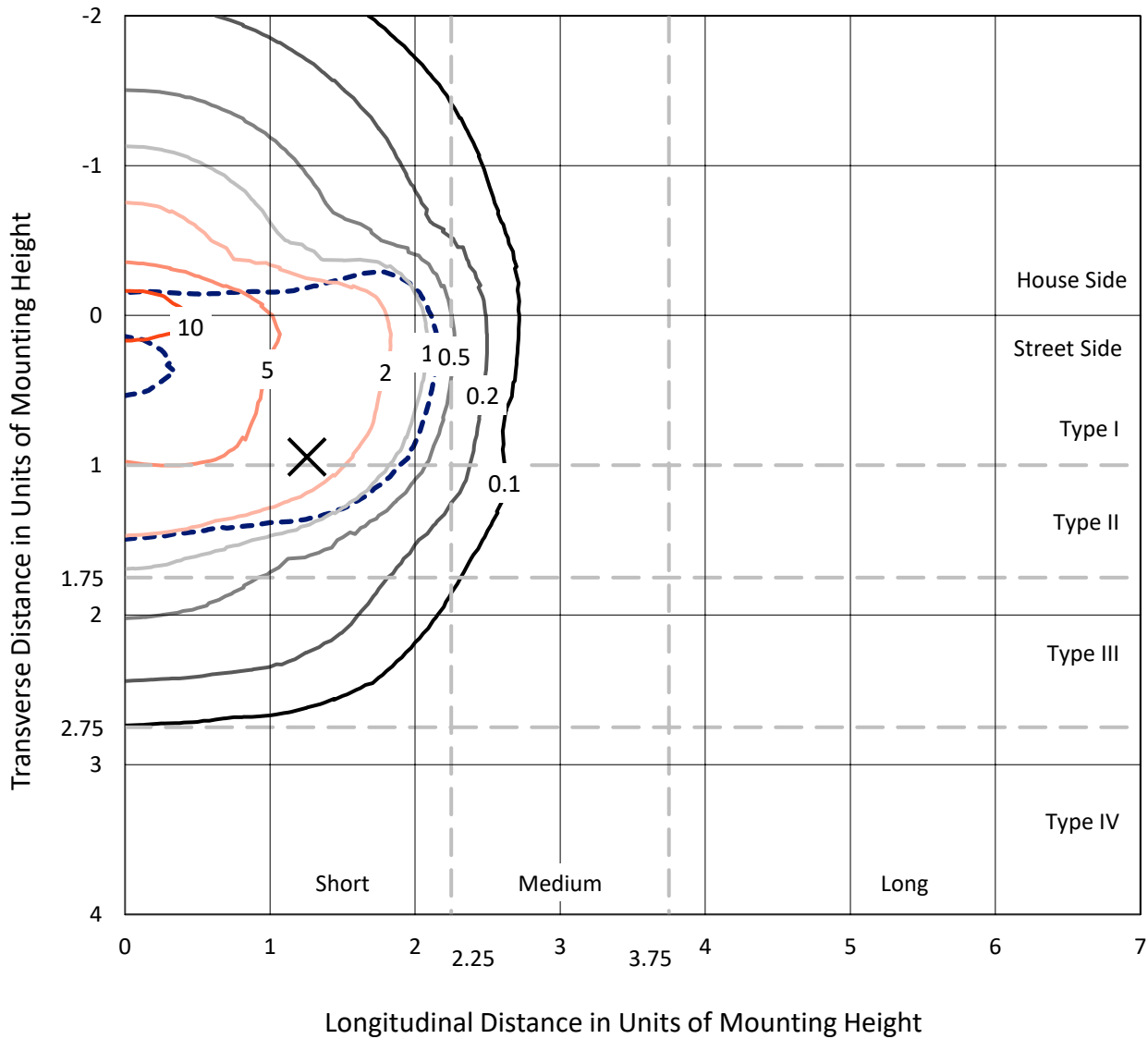
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

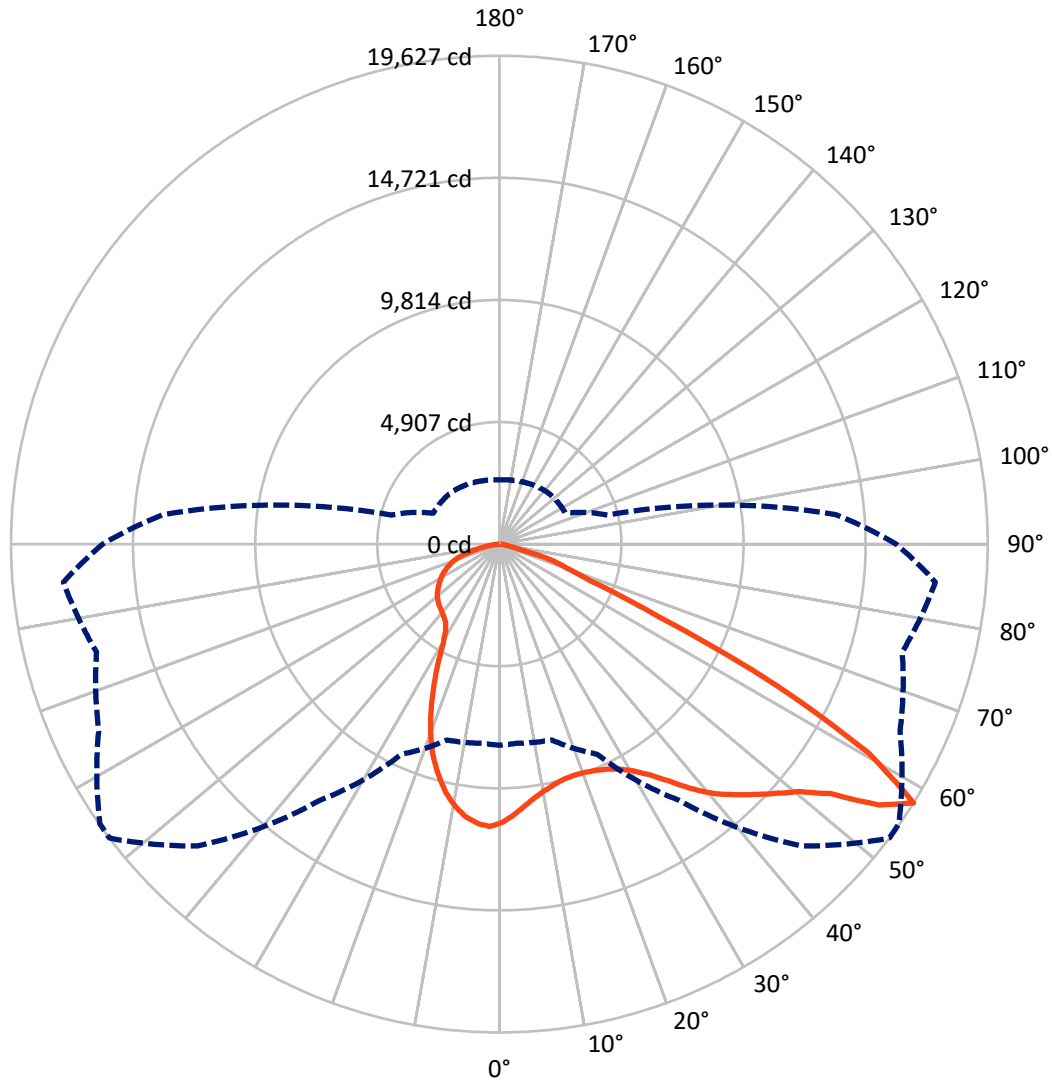
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.4 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	10962.6	0.0	10962.6
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	24099.4	0.0	24099.4
	% Fixture	68.7	0.0	68.7
Total	Lumens	35062.0	0.0	35062.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1012.5	2.9
10°-20°	2656.3	7.6
20°-30°	3913.6	11.2
30°-40°	5478.0	15.6
40°-50°	7201.3	20.5
50°-60°	8443.5	24.1
60°-70°	4974.2	14.2
70°-80°	1237.4	3.5
80°-90°	145.2	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°	35062.0	100.0
0°-180°	35062.0	100.0

Coefficient of Utilization

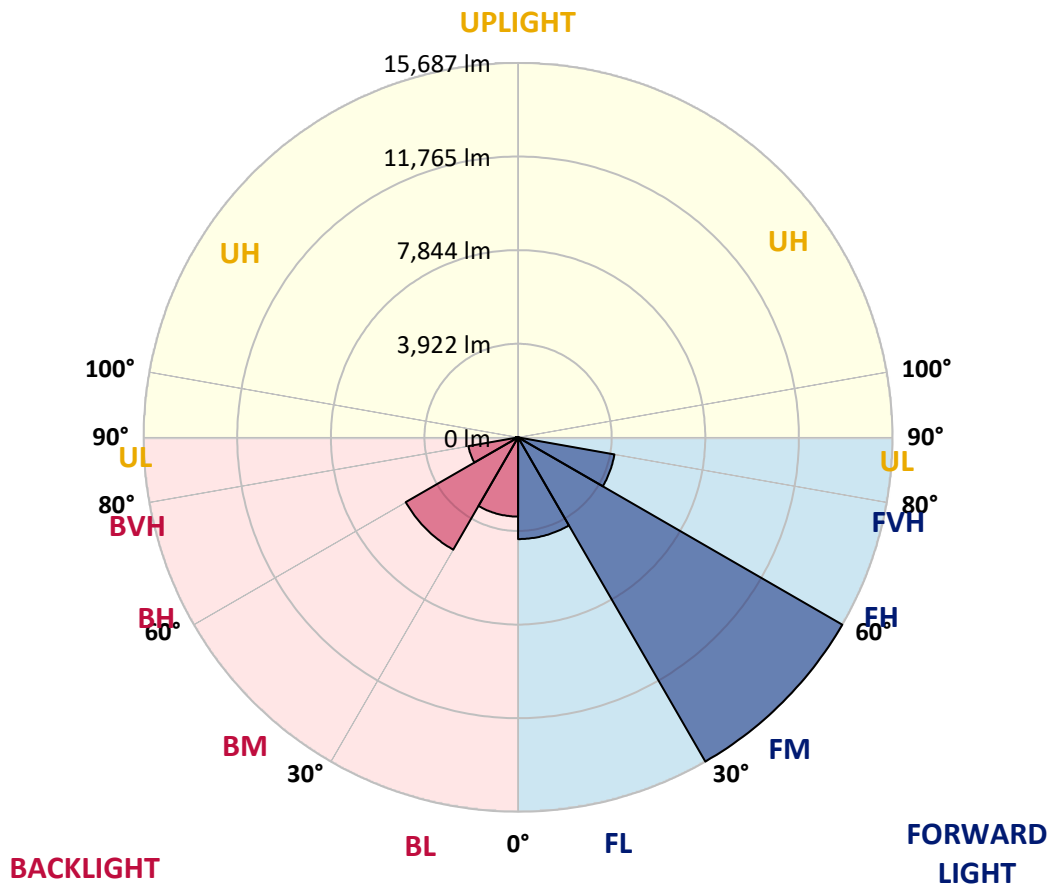


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4262.9	12.2			
FM (30°-60°)	15687.1	44.7			
FH (60°-80°)	4100.9	11.7			G2/5000
FVH (80°-90°)	48.6	0.1			G1/100
BL (0°-30°)	3319.5	9.5	B4/5000		
BM (30°-60°)	5435.8	15.5	B4/8500		
BH (60°-80°)	2110.7	6.0	B3/2500		G3/2500
BVH (80°-90°)	96.6	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°	11196.2	11196.2	11196.2	11196.2	11196.2	11196.2	11196.2	11196.2	11196.2	11196.2	11196.2
2.5°	10552.9	10582.4	10588.3	10679.8	10685.7	10818.5	10907.0	10889.3	10980.8	11093.0	11181.5
5°	10048.3	10051.2	10080.8	10189.9	10249.0	10423.1	10570.6	10570.6	10747.7	10977.9	11175.6
7.5°	9632.2	9629.2	9655.8	9776.8	9874.2	10083.7	10284.4	10308.0	10555.9	10892.3	11214.0
10°	9245.6	9266.3	9295.8	9443.3	9567.3	9827.0	10066.0	10104.4	10417.2	10833.3	11267.1
12.5°	8997.7	9000.7	9044.9	9210.2	9369.6	9646.9	9897.8	9945.0	10305.0	10777.2	11305.4
15°	8838.4	8841.3	8888.5	9071.5	9257.4	9537.8	9794.5	9847.6	10240.1	10768.3	11379.2
17.5°	8767.5	8764.6	8808.9	8991.8	9195.4	9487.6	9762.0	9827.0	10269.6	10836.2	11509.1
20°	8767.5	8770.5	8794.1	8959.4	9165.9	9475.8	9794.5	9874.2	10384.7	10989.7	11709.7
22.5°	8891.5	8903.3	8915.1	9027.2	9189.5	9493.5	9880.1	9986.3	10632.6	11246.4	11972.4
25°	9133.5	9136.4	9148.2	9239.7	9313.5	9543.7	10021.7	10181.1	11019.2	11621.2	12302.9
27.5°	9458.1	9499.4	9511.2	9570.2	9570.2	9667.6	10243.1	10473.2	11541.5	12161.2	12724.9
30°	9912.5	9927.3	9948.0	10012.9	9942.1	9900.7	10567.7	10862.8	12146.5	12813.4	13232.5
32.5°	10310.9	10343.4	10455.5	10561.8	10434.9	10305.0	11045.7	11394.0	12727.8	13492.2	13772.5
35°	10650.3	10730.0	10945.4	11181.5	11093.0	10963.1	11680.2	12043.2	13205.9	13979.1	14250.6
37.5°	11060.5	11122.5	11417.6	11801.2	11880.9	11818.9	12453.4	12713.1	13524.6	14103.0	14510.3
40°	11476.6	11571.0	11951.7	12482.9	12786.9	12831.1	13167.5	13341.6	13633.8	13861.0	14460.1
42.5°	11901.5	12063.8	12586.2	13205.9	13745.9	13846.3	13769.6	13843.3	13598.4	13527.6	14227.0
45°	12420.9	12612.7	13203.0	13993.8	14705.0	14861.4	14359.8	14291.9	13592.5	13400.7	14082.4
47.5°	13034.7	13226.6	13790.2	14710.9	15619.9	15734.9	14964.7	14840.8	13799.1	13595.4	14277.1
50°	13577.7	13710.5	14215.2	15245.1	16472.7	16540.6	15631.7	15481.2	14312.5	14135.5	14885.0
52.5°	13025.9	13011.1	13542.3	14811.3	16915.4	17732.8	16658.6	16514.0	15304.1	15032.6	15826.4
55°	11051.6	10883.4	11358.6	12606.8	15678.9	18792.2	18500.1	18210.9	16626.2	15935.6	16708.8
57.5°	8079.9	8032.7	8147.8	9319.4	12559.6	17151.4	19627.4	19600.8	17768.2	16761.9	17588.2
60°	6318.2	6247.4	5940.4	5972.9	8561.0	13397.7	17033.4	17815.4	18476.5	17257.7	18202.0
62.5°	5609.9	5556.8	5397.5	4957.7	5099.4	8983.0	12485.8	13203.0	16145.1	15242.1	15634.6
65°	4644.9	4630.2	4763.0	4745.3	4273.1	4960.7	7047.1	7770.1	10151.6	10278.5	10151.6
67.5°	3376.0	3349.4	3685.8	4349.8	4113.7	3744.9	3927.8	4178.7	5205.6	4674.4	4208.2
70°	2195.6	2157.2	2352.0	3142.9	3682.9	3263.8	2830.0	2788.7	2862.5	1779.5	1924.1
72.5°	1472.6	1428.3	1425.4	1729.3	2225.1	2198.5	2192.6	2172.0	1938.8	1404.7	1558.1
75°	820.4	785.0	776.1	746.6	796.8	811.5	864.7	894.2	967.9	1065.3	1180.4
77.5°	138.7	135.7	171.2	218.4	301.0	386.6	478.1	504.6	622.7	737.8	811.5
80°	76.7	79.7	103.3	126.9	168.2	230.2	295.1	312.8	383.6	445.6	504.6
82.5°	41.3	41.3	53.1	67.9	91.5	121.0	159.4	174.1	221.3	259.7	301.0
85°	14.8	14.8	20.7	26.6	38.4	50.2	62.0	70.8	97.4	132.8	150.5
87.5°	0.0	0.0	0.0	0.0	3.0	5.9	11.8	11.8	14.8	26.6	38.4
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°	11196.2	11196.2	11196.2	11196.2	11196.2	11196.2	11196.2	11196.2	11196.2	11196.2	11196.2
2.5°	11255.3	11175.6	11284.8	11334.9	11352.6	11364.5	11287.7	11234.6	11216.9	11160.8	11128.4
5°	11296.6	11243.5	11346.7	11346.7	11273.0	11196.2	11039.8	10930.7	10853.9	10762.4	10747.7
7.5°	11367.4	11329.0	11385.1	11270.0	11084.1	10877.5	10606.0	10393.6	10222.4	10110.3	10113.2
10°	11461.8	11414.6	11370.4	11113.6	10774.2	10393.6	9977.5	9667.6	9384.3	9254.5	9183.6
12.5°	11523.8	11455.9	11270.0	10845.1	10346.3	9835.8	9248.6	8788.2	8378.0	8192.1	8177.3
15°	11600.5	11476.6	11104.8	10496.8	9803.4	9106.9	8351.4	7711.1	7156.3	6867.1	6852.3
17.5°	11700.9	11497.2	10907.0	10098.5	9230.9	8203.9	7253.7	6448.0	5857.8	5633.5	5671.9
20°	11842.5	11520.9	10682.8	9655.8	8519.7	7176.9	5993.6	5252.9	5025.6	5010.9	4981.4
22.5°	12001.9	11535.6	10434.9	9160.0	7657.9	6082.1	4951.8	4636.1	4633.1	4706.9	4724.6
25°	12181.9	11547.4	10154.5	8581.6	6725.4	4990.2	4379.3	4284.9	4358.7	4497.4	4515.1
27.5°	12412.1	11571.0	9815.2	7947.1	5733.9	4311.5	4063.6	4040.0	4128.5	4258.4	4252.4
30°	12751.4	11656.6	9455.1	7218.2	4715.8	3989.8	3871.8	3874.7	3910.1	3972.1	3981.0
32.5°	13096.7	11789.4	9104.0	6397.9	4131.5	3806.8	3753.7	3747.8	3747.8	3774.4	3780.3
35°	13424.3	11939.9	8723.3	5542.1	3848.2	3700.6	3665.2	3647.5	3638.6	3632.7	3623.9
37.5°	13607.2	12013.7	8351.4	4698.1	3697.7	3629.8	3594.4	3570.8	3538.3	3514.7	3508.8
40°	13527.6	11928.1	7920.6	4066.5	3606.2	3561.9	3520.6	3488.1	3443.9	3423.2	3411.4
42.5°	13262.0	11662.5	7451.4	3768.5	3532.4	3488.1	3438.0	3384.8	3355.3	3337.6	3334.7
45°	12981.6	11340.8	6884.8	3594.4	3461.6	3408.5	3349.4	3290.4	3257.9	3249.1	3246.1
47.5°	12972.8	11181.5	6282.8	3455.7	3376.0	3322.9	3249.1	3190.1	3154.7	3142.9	3131.1
50°	13362.3	11343.8	5604.0	3334.7	3287.5	3231.4	3148.8	3083.8	3039.6	3024.8	3021.9
52.5°	14170.9	11954.7	4996.1	3213.7	3169.4	3104.5	3036.6	2971.7	2918.6	2892.0	2889.1
55°	15044.4	12730.8	4618.4	3089.7	3030.7	2974.6	2912.7	2841.9	2782.8	2741.5	2735.6
57.5°	15947.4	13577.7	4503.3	2933.3	2889.1	2850.7	2776.9	2700.2	2632.3	2594.0	2585.1
60°	16691.1	14306.6	4718.7	2768.1	2744.5	2694.3	2626.4	2552.6	2505.4	2475.9	2470.0
62.5°	13973.2	11647.8	3809.8	2588.1	2588.1	2534.9	2458.2	2405.1	2372.6	2352.0	2346.1
65°	8867.9	7212.3	2599.9	2408.0	2405.1	2334.3	2269.3	2233.9	2219.2	2186.7	2180.8
67.5°	3862.9	3296.3	2222.1	2225.1	2213.3	2136.6	2071.6	2045.1	2015.6	1980.1	1977.2
70°	2003.8	2042.1	1989.0	2021.5	2000.8	1909.3	1847.4	1806.0	1744.1	1708.7	1711.6
72.5°	1617.2	1658.5	1717.5	1767.7	1723.4	1649.6	1552.2	1502.1	1422.4	1384.0	1387.0
75°	1233.5	1277.8	1333.9	1387.0	1351.6	1260.1	1198.1	1148.0	1056.5	1012.2	1021.1
77.5°	849.9	873.5	941.4	938.4	926.6	900.1	808.6	749.6	655.1	602.0	607.9
80°	528.2	543.0	575.5	590.2	584.3	548.9	475.1	430.9	374.8	342.3	345.3
82.5°	318.7	327.6	357.1	360.0	357.1	330.5	274.4	242.0	206.6	188.9	188.9
85°	162.3	168.2	185.9	185.9	168.2	141.6	126.9	112.1	91.5	82.6	82.6
87.5°	44.3	44.3	56.1	47.2	38.4	35.4	17.7	14.8	5.9	3.0	3.0
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)