

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: P643919

Luminaire Tested: GWS-SA6F-830-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643919
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-SAGF-830-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) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33110 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

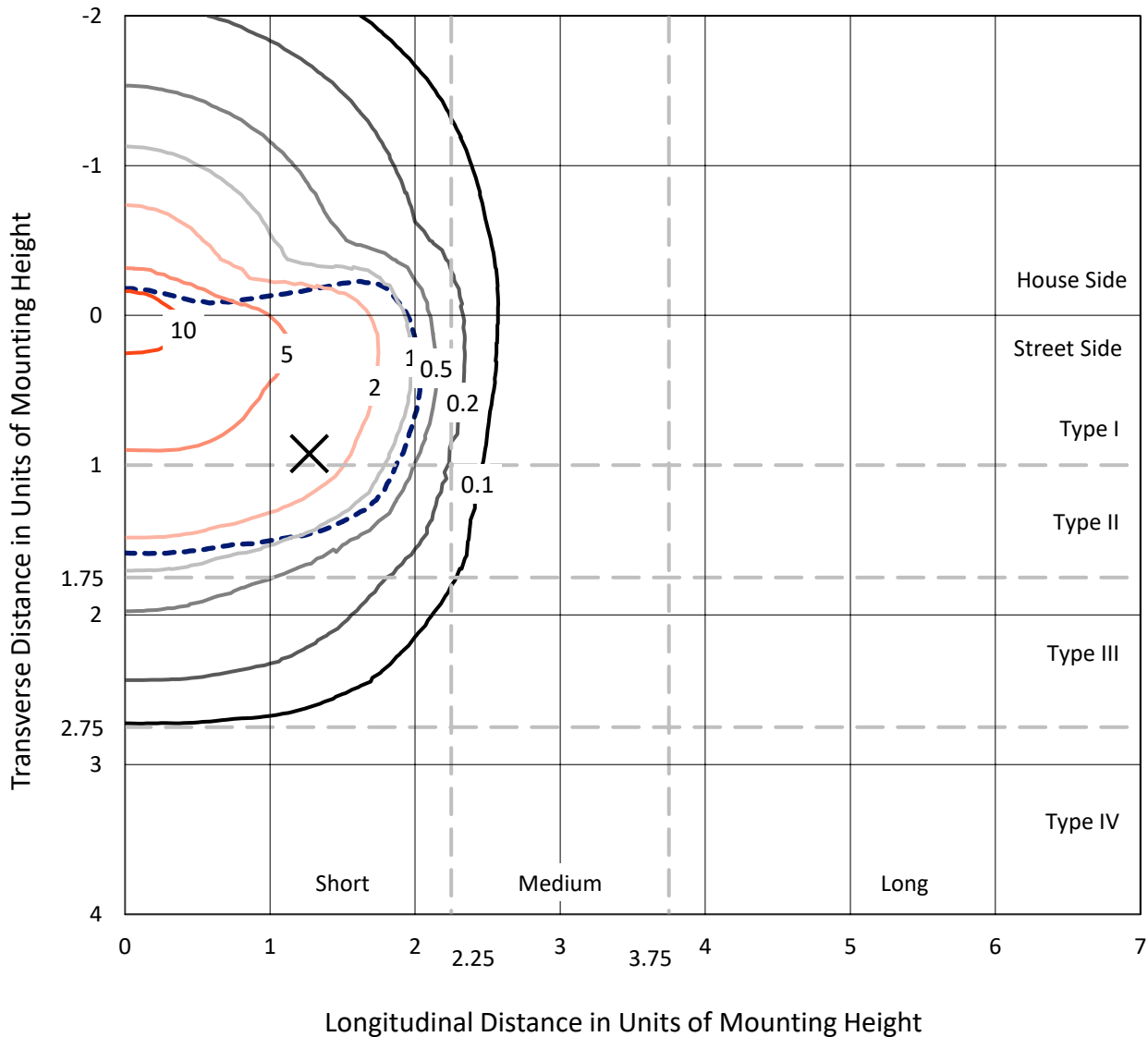
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

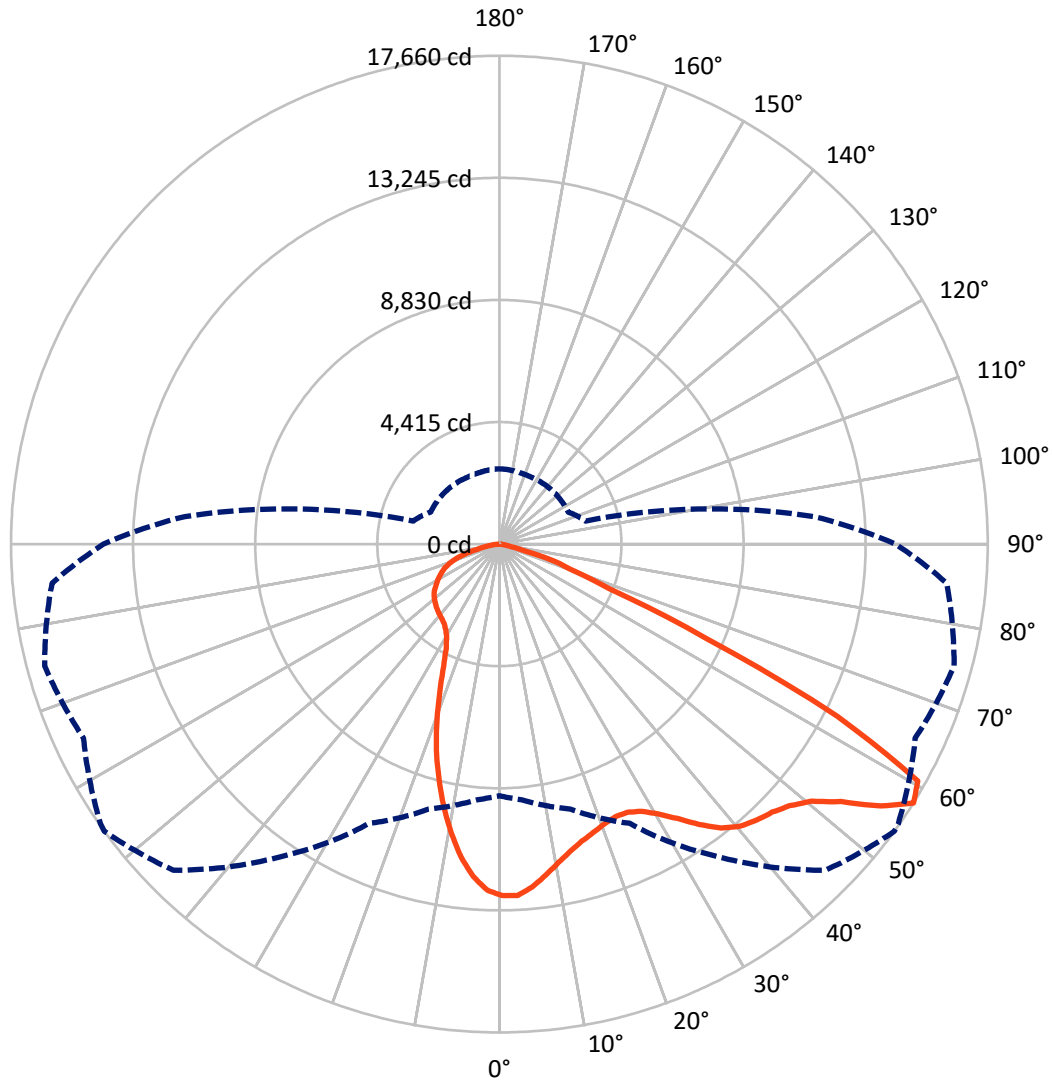
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.1 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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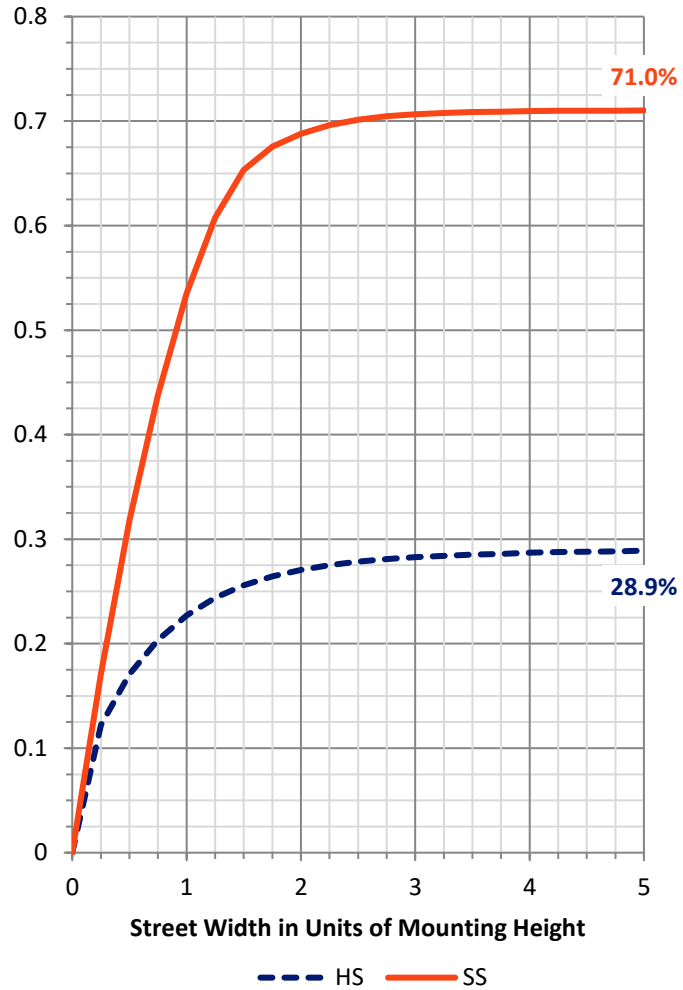
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9625.5	0.0	9625.5
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	23484.5	0.0	23484.5
	% Fixture	70.9	0.0	70.9
Total	Lumens	33110.0	0.0	33110.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1117.3	3.4
10°-20°	2666.1	8.1
20°-30°	3689.5	11.1
30°-40°	5126.6	15.5
40°-50°	6770.7	20.4
50°-60°	8045.9	24.3
60°-70°	4457.6	13.5
70°-80°	1110.0	3.4
80°-90°	126.2	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°	33110.0	100.0
0°-180°	33110.0	100.0

Coefficient of Utilization



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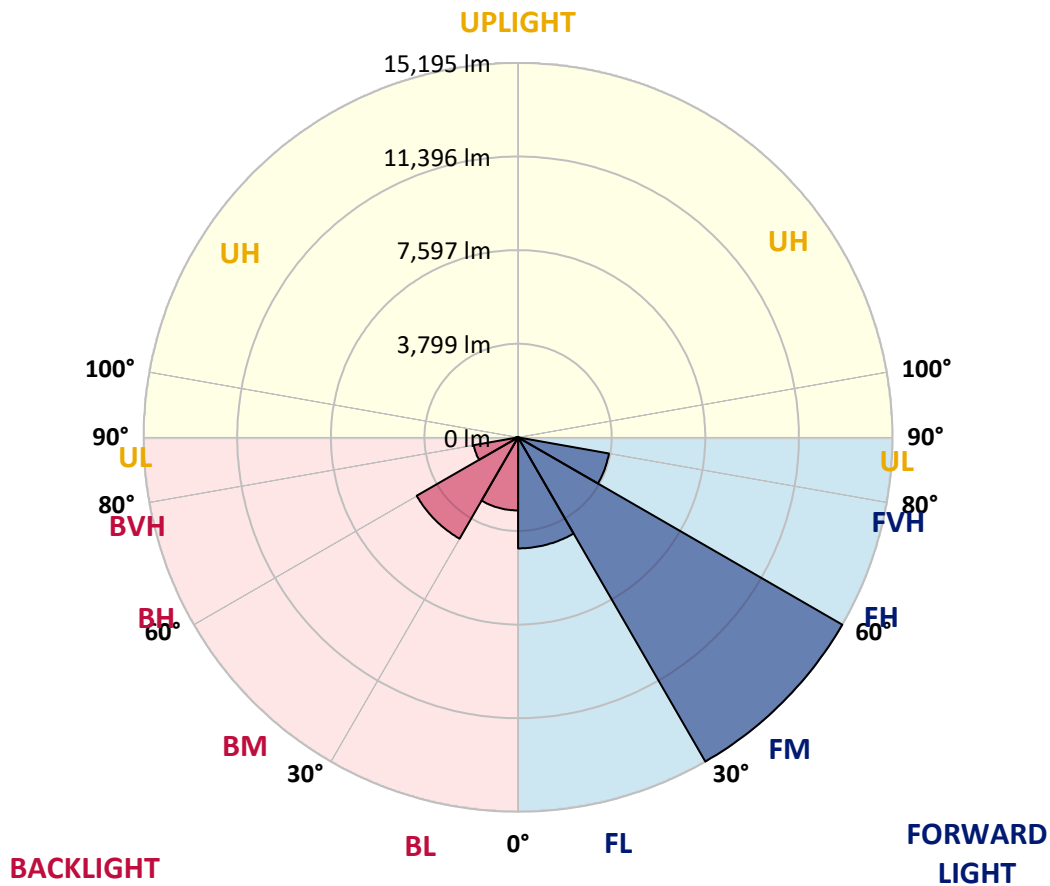
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4506.8	13.6			
FM (30°-60°)	15194.7	45.9			
FH (60°-80°)	3743.5	11.3			G2/5000
FVH (80°-90°)	39.5	0.1			G1/100
BL (0°-30°)	2966.2	9.0	B4/5000		
BM (30°-60°)	4748.5	14.3	B3/5000		
BH (60°-80°)	1824.1	5.5	B3/2500		G3/2500
BVH (80°-90°)	86.7	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°	54°	55°	65°	75°	85°
0°	12711.7	12711.7	12711.7	12711.7	12711.7	12711.7	12711.7	12711.7	12711.7	12711.7	12711.7
2.5°	12473.6	12499.1	12516.1	12575.6	12626.7	12672.0	12720.2	12720.2	12717.3	12708.8	12691.8
5°	11980.4	12008.8	12048.5	12130.7	12241.2	12320.6	12450.9	12462.3	12519.0	12541.6	12530.3
7.5°	11407.9	11416.4	11467.4	11575.1	11750.9	11892.6	12079.6	12102.3	12238.4	12317.7	12303.5
10°	10781.5	10753.2	10843.9	11002.6	11232.2	11470.3	11711.2	11731.0	11949.3	12099.5	12088.1
12.5°	10209.0	10211.9	10302.6	10495.3	10781.5	11076.3	11399.4	11444.8	11714.0	11906.7	11886.9
15°	9730.0	9741.4	9851.9	10070.1	10396.1	10747.5	11150.0	11192.5	11532.6	11787.7	11731.0
17.5°	9347.4	9358.7	9455.1	9704.5	10053.1	10478.3	10968.6	11011.1	11433.4	11736.7	11620.5
20°	9083.8	9078.2	9171.7	9409.8	9769.7	10231.7	10809.9	10872.2	11402.3	11756.5	11546.8
22.5°	8976.1	8973.3	9041.3	9236.9	9574.1	10041.8	10713.5	10798.6	11436.3	11844.4	11501.4
25°	9030.0	9018.6	9078.2	9222.7	9492.0	9968.1	10741.9	10832.6	11580.8	12025.8	11510.0
27.5°	9197.2	9183.0	9234.0	9364.4	9568.5	10044.6	10940.3	11045.1	11886.9	12357.4	11623.3
30°	9452.3	9443.8	9494.8	9619.5	9798.1	10299.7	11320.1	11439.1	12360.2	12873.2	11869.9
32.5°	9749.9	9735.7	9826.4	9970.9	10177.8	10764.5	11830.2	11986.1	12921.4	13536.5	12283.7
35°	10084.3	10073.0	10197.7	10407.4	10705.0	11410.8	12448.1	12618.2	13493.9	14287.5	12833.6
37.5°	10410.3	10410.3	10651.2	10962.9	11337.1	12113.7	13029.1	13136.8	13890.7	14953.6	13423.1
40°	10699.4	10716.4	11079.1	11546.8	12023.0	12748.5	13411.7	13502.4	14066.5	15412.7	13936.1
42.5°	11019.6	11033.8	11456.1	12068.3	12635.2	13261.5	13644.2	13689.5	14100.5	15642.3	14298.9
45°	11274.7	11294.5	11818.9	12473.6	13168.0	13647.0	13828.4	13868.1	14148.7	15767.0	14562.5
47.5°	11407.9	11436.3	12037.1	12799.5	13527.9	13992.8	14131.6	14148.7	14347.1	15985.3	14879.9
50°	11385.2	11441.9	12119.3	12961.1	13794.4	14341.4	14619.1	14647.5	14752.4	16305.5	15251.2
52.5°	11586.5	11612.0	12295.0	13153.8	14174.2	14984.8	15466.6	15506.3	15458.1	16546.4	15472.3
55°	11252.0	11373.9	12076.8	13125.5	14752.4	15979.6	16722.2	16702.3	16098.6	16815.7	15840.7
57.5°	9100.8	9279.4	9922.8	11141.5	13800.0	16676.8	17660.3	17612.1	16594.6	17022.6	16240.3
60°	6300.6	6328.9	6909.9	7774.4	10651.2	14732.5	17385.4	17490.3	16685.3	16761.8	15500.6
62.5°	5039.3	5030.8	5084.7	5107.3	6773.9	10356.4	13723.5	14106.1	13862.4	13060.3	10985.6
65°	4302.4	4333.6	4492.3	4410.1	4421.5	5832.9	8199.5	8253.4	8083.3	7794.2	5810.2
67.5°	3367.1	3421.0	3701.6	4021.8	3919.8	3755.4	4254.2	4228.7	3333.1	2579.2	2131.4
70°	2108.7	2142.7	2443.1	3157.4	3412.5	3083.7	2735.1	2723.7	1785.6	1468.1	1609.9
72.5°	1230.1	1235.7	1320.8	1760.1	2264.6	2108.7	2012.3	1938.6	1147.9	1170.6	1283.9
75°	677.4	677.4	674.6	759.6	892.8	790.8	765.3	745.4	768.1	870.1	955.1
77.5°	141.7	144.5	153.1	201.2	260.8	317.4	399.6	402.5	501.7	581.0	649.0
80°	65.2	68.0	85.0	107.7	138.9	184.2	243.7	246.6	303.3	365.6	411.0
82.5°	34.0	36.8	45.3	56.7	73.7	96.4	136.0	136.0	181.4	215.4	243.7
85°	11.3	11.3	17.0	22.7	31.2	39.7	53.9	53.9	79.4	104.9	121.9
87.5°	0.0	0.0	0.0	0.0	2.8	5.7	11.3	11.3	14.2	17.0	28.3
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°	12711.7	12711.7	12711.7	12711.7	12711.7	12711.7	12711.7	12711.7	12711.7	12711.7	12711.7
2.5°	12655.0	12567.1	12570.0	12587.0	12533.1	12450.9	12397.1	12329.1	12286.5	12278.0	12309.2
5°	12473.6	12371.6	12300.7	12227.0	12074.0	11892.6	11750.9	11634.7	11558.1	11529.8	11495.8
7.5°	12224.2	12091.0	11912.4	11705.5	11427.8	11104.7	10877.9	10665.3	10518.0	10475.4	10455.6
10°	11974.8	11782.0	11464.6	11079.1	10617.2	10180.7	9769.7	9455.1	9205.7	9064.0	9109.3
12.5°	11716.9	11478.8	10982.8	10390.4	9747.0	9089.5	8551.0	8029.5	7627.0	7425.8	7366.3
15°	11490.1	11167.0	10475.4	9673.3	8817.4	7989.8	7210.4	6428.1	5917.9	5640.2	5563.7
17.5°	11297.4	10877.9	9939.8	8942.1	7918.9	6739.9	5781.9	5056.3	4707.7	4554.7	4543.3
20°	11107.5	10594.5	9409.8	8154.2	6881.6	5560.8	4704.9	4364.8	4240.1	4186.2	4183.4
22.5°	10937.4	10296.9	8851.4	7366.3	5849.9	4673.7	4203.2	4055.8	4021.8	4021.8	4016.2
25°	10792.9	9999.3	8278.9	6530.1	4917.5	4160.7	3942.5	3880.1	3894.3	3919.8	3922.6
27.5°	10733.4	9766.9	7726.2	5671.4	4274.1	3863.1	3763.9	3755.4	3795.1	3834.8	3840.4
30°	10795.7	9608.2	7159.4	4849.4	3888.6	3681.7	3636.4	3653.4	3701.6	3741.2	3741.2
32.5°	10988.4	9528.8	6581.2	4248.6	3664.7	3554.2	3540.0	3557.0	3593.8	3616.5	3619.4
35°	11314.4	9560.0	5983.1	3843.3	3520.2	3460.6	3457.8	3469.1	3483.3	3497.5	3500.3
37.5°	11725.4	9698.9	5342.6	3608.0	3426.6	3392.6	3386.9	3384.1	3386.9	3386.9	3389.8
40°	12127.8	9908.6	4770.1	3469.1	3361.4	3333.1	3318.9	3299.1	3296.3	3290.6	3287.7
42.5°	12425.4	10070.1	4313.8	3369.9	3301.9	3267.9	3250.9	3219.7	3216.9	3214.1	3211.2
45°	12649.3	10206.2	3934.0	3273.6	3239.6	3208.4	3171.5	3143.2	3148.9	3154.5	3154.5
47.5°	12901.6	10325.2	3656.2	3182.9	3163.0	3131.9	3086.5	3066.7	3086.5	3106.4	3106.4
50°	13207.7	10492.5	3429.5	3092.2	3083.7	3046.8	3007.2	2998.7	3021.3	3049.7	3049.7
52.5°	13431.6	10637.0	3267.9	3001.5	3001.5	2953.3	2919.3	2916.5	2942.0	2970.3	2973.1
55°	13851.1	10974.3	3211.2	2896.6	2885.3	2848.4	2822.9	2803.1	2834.3	2859.8	2859.8
57.5°	14324.4	11422.1	3225.4	2746.4	2732.2	2720.9	2701.1	2678.4	2686.9	2715.2	2718.1
60°	13321.0	10554.8	3069.5	2596.2	2587.7	2582.0	2556.5	2516.8	2528.2	2550.8	2553.7
62.5°	9304.9	7014.8	2482.8	2409.1	2437.5	2434.6	2400.6	2355.3	2358.1	2389.3	2389.3
65°	4829.6	3795.1	2179.6	2239.1	2281.6	2264.6	2207.9	2168.2	2162.5	2202.2	2193.7
67.5°	2083.2	2071.8	1984.0	2060.5	2105.9	2069.0	2009.5	1944.3	1950.0	1964.1	1952.8
70°	1677.9	1728.9	1765.7	1847.9	1884.8	1816.8	1751.6	1714.7	1683.6	1680.7	1660.9
72.5°	1340.6	1411.5	1493.7	1578.7	1590.0	1522.0	1439.8	1405.8	1357.6	1354.8	1334.9
75°	1009.0	1068.5	1133.7	1201.7	1201.7	1136.5	1082.7	1065.7	1009.0	992.0	975.0
77.5°	688.7	725.6	776.6	793.6	810.6	785.1	731.2	702.9	637.7	620.7	598.0
80°	433.6	459.2	490.3	501.7	518.7	487.5	445.0	413.8	368.5	354.3	342.9
82.5°	260.8	277.8	297.6	303.3	317.4	294.8	255.1	232.4	206.9	195.6	187.1
85°	133.2	141.7	153.1	155.9	153.1	130.4	116.2	104.9	87.9	85.0	79.4
87.5°	34.0	39.7	42.5	39.7	36.8	28.3	19.8	14.2	5.7	5.7	2.8
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)