

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: P640670

Luminaire Tested: GWS-SA5E-735-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640670
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-SA5E-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: 31535.7 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

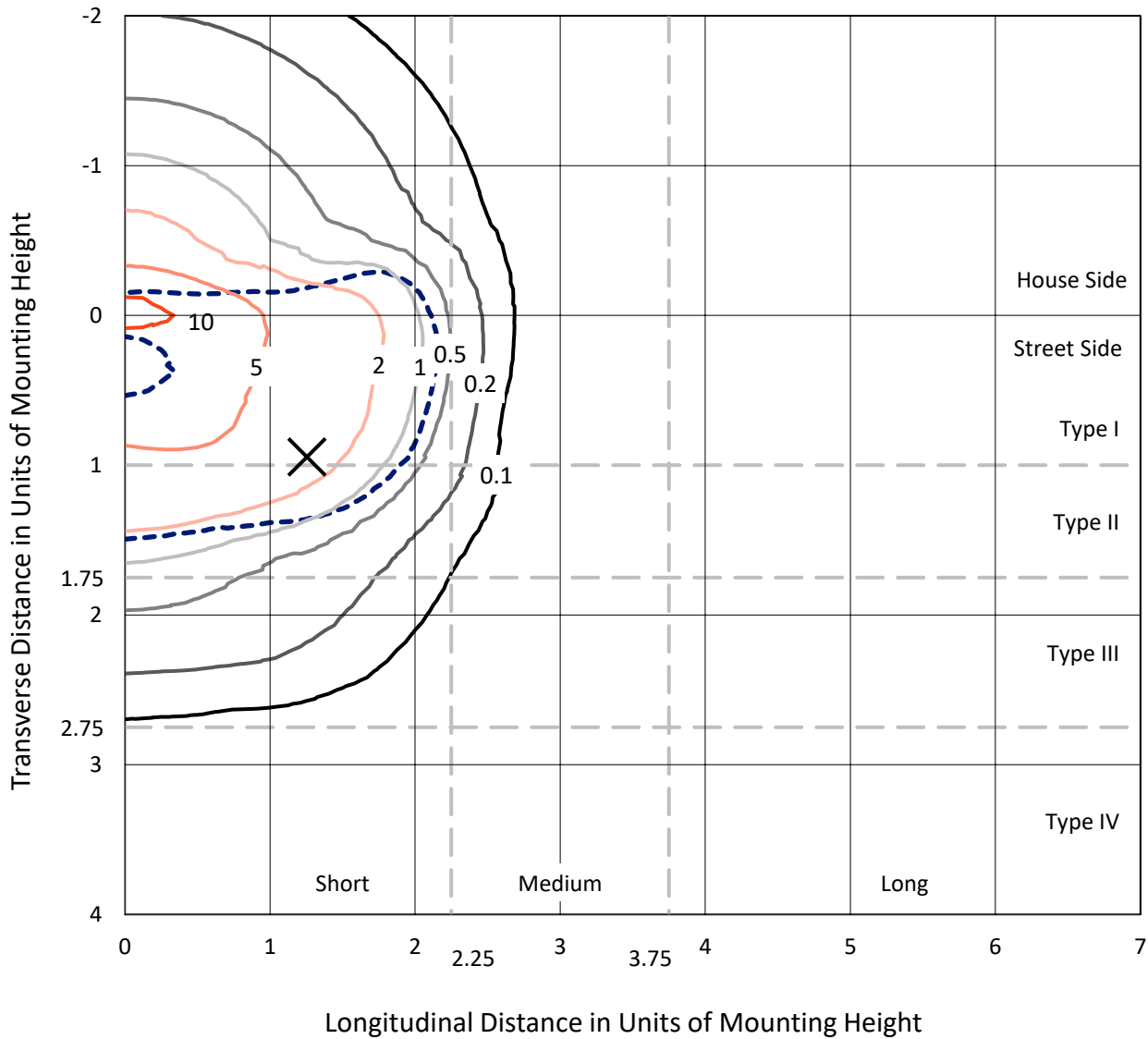
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P640670
 CATALOG NUMBER: GWS-SA5E-735-U-SL2-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

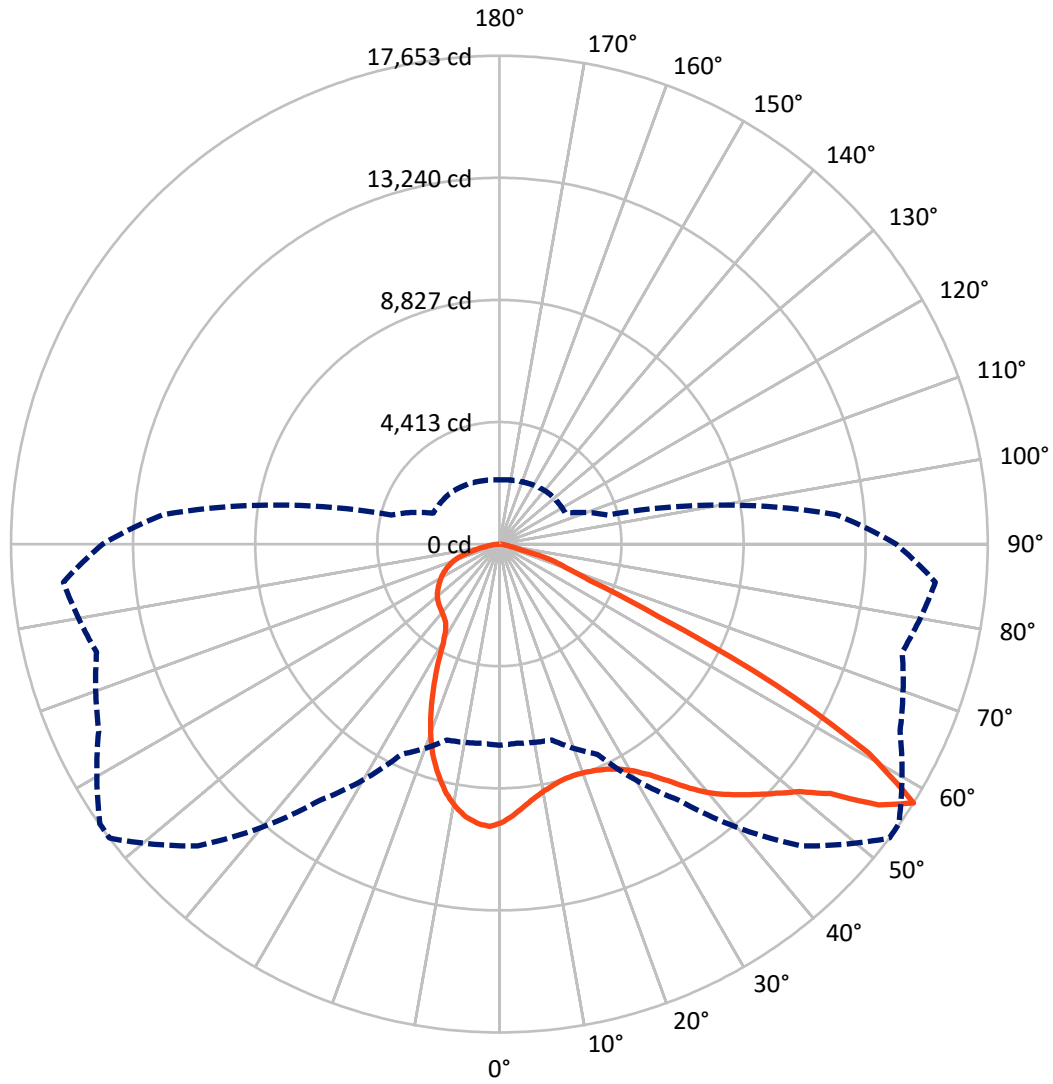
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Short - N/A

REPORT NUMBER: P640670
CATALOG NUMBER: GWS-SA5E-735-U-SL2-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P640670

CATALOG NUMBER: GWS-SA5E-735-U-SL2-W-GRSWH

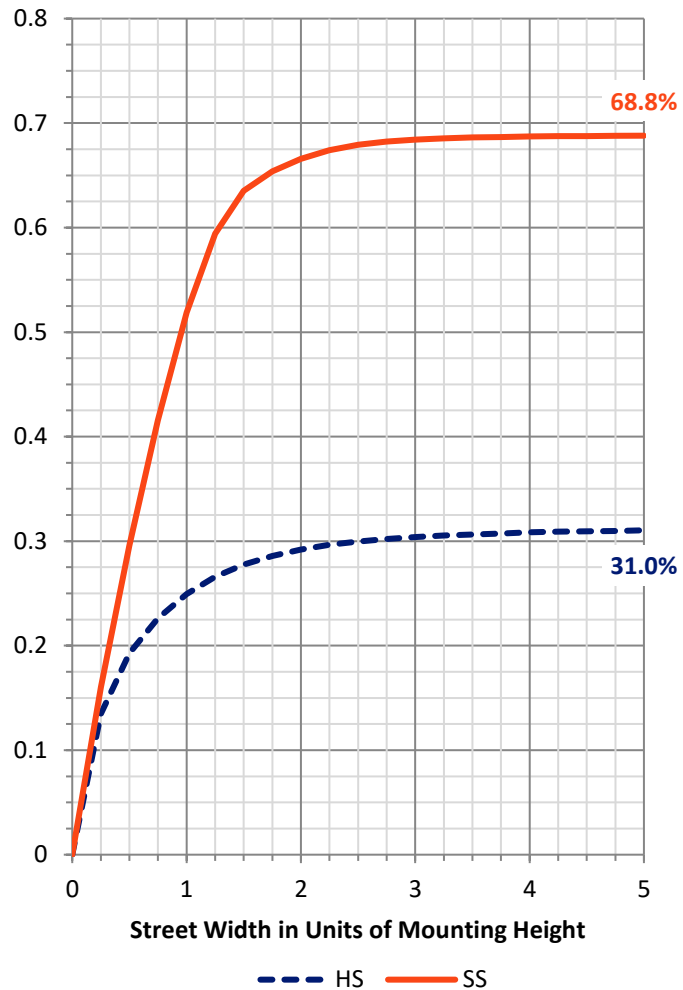
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9860.1	0.0	9860.1
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	21675.6	0.0	21675.6
	% Fixture	68.7	0.0	68.7
Total	Lumens	31535.7	0.0	31535.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	910.6	2.9
10°-20°	2389.1	7.6
20°-30°	3520.0	11.2
30°-40°	4927.1	15.6
40°-50°	6477.0	20.5
50°-60°	7594.3	24.1
60°-70°	4473.9	14.2
70°-80°	1113.0	3.5
80°-90°	130.6	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°	31535.7	100.0
0°-180°	31535.7	100.0

Coefficient of Utilization



REPORT NUMBER: P640670

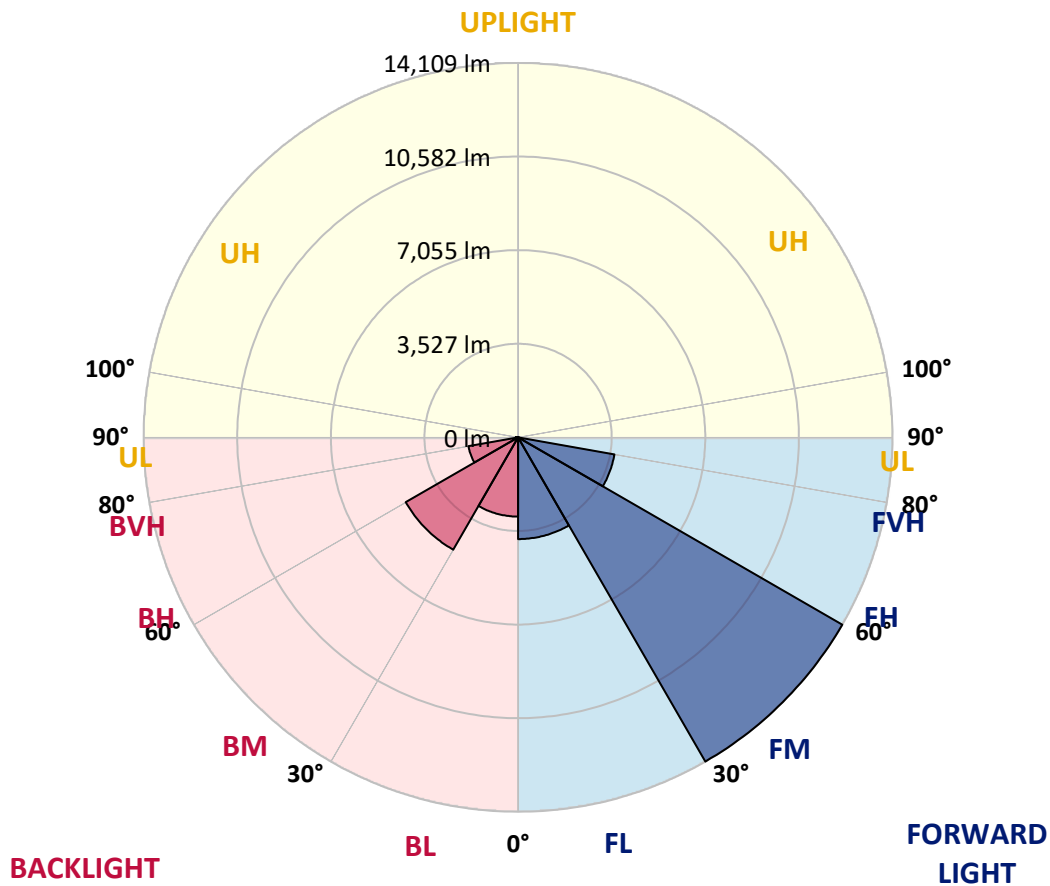
CATALOG NUMBER: GWS-SA5E-735-U-SL2-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3834.1	12.2			
FM (30°-60°)	14109.4	44.7			
FH (60°-80°)	3688.5	11.7			G2/5000
FVH (80°-90°)	43.7	0.1			G1/100
BL (0°-30°)	2985.7	9.5	B4/5000		
BM (30°-60°)	4889.1	15.5	B3/5000		
BH (60°-80°)	1898.4	6.0	B3/2500		G3/2500
BVH (80°-90°)	86.9	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





REPORT NUMBER: P640670

CATALOG NUMBER: GWS-SA5E-735-U-SL2-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	10070.2	10070.2	10070.2	10070.2	10070.2	10070.2	10070.2	10070.2	10070.2	10070.2	10070.2
2.5°	9491.6	9518.1	9523.4	9605.7	9611.0	9730.5	9810.1	9794.2	9876.4	9977.3	10056.9
5°	9037.7	9040.4	9066.9	9165.1	9218.2	9374.8	9507.5	9507.5	9666.8	9873.8	10051.6
7.5°	8663.5	8660.8	8684.7	8793.5	8881.1	9069.6	9250.0	9271.3	9494.2	9796.8	10086.1
10°	8315.7	8334.3	8360.9	8493.6	8605.1	8838.6	9053.6	9088.1	9369.5	9743.7	10133.9
12.5°	8092.8	8095.4	8135.3	8283.9	8427.2	8676.7	8902.3	8944.8	9268.6	9693.3	10168.4
15°	7949.5	7952.1	7994.6	8159.1	8326.4	8578.5	8809.4	8857.2	9210.2	9685.3	10234.8
17.5°	7885.8	7883.1	7922.9	8087.5	8270.6	8533.4	8780.2	8838.6	9236.8	9746.4	10351.6
20°	7885.8	7888.4	7909.6	8058.3	8244.1	8522.8	8809.4	8881.1	9340.3	9884.4	10532.0
22.5°	7997.2	8007.9	8018.5	8119.3	8265.3	8538.7	8886.4	8982.0	9563.2	10115.3	10768.3
25°	8214.9	8217.5	8228.2	8310.4	8376.8	8583.8	9013.8	9157.1	9910.9	10452.4	11065.5
27.5°	8506.9	8544.0	8554.6	8607.7	8607.7	8695.3	9212.9	9419.9	10380.7	10938.1	11445.1
30°	8915.6	8928.9	8947.5	9005.8	8942.1	8905.0	9504.8	9770.3	10924.9	11524.7	11901.6
32.5°	9273.9	9303.1	9404.0	9499.5	9385.4	9268.6	9934.8	10248.0	11447.8	12135.2	12387.4
35°	9579.2	9650.8	9844.6	10056.9	9977.3	9860.5	10505.5	10832.0	11877.7	12573.2	12817.3
37.5°	9948.1	10003.8	10269.3	10614.3	10686.0	10630.2	11200.9	11434.5	12164.4	12684.6	13050.9
40°	10322.4	10407.3	10749.7	11227.5	11500.8	11540.7	11843.2	11999.8	12262.6	12467.0	13005.8
42.5°	10704.6	10850.5	11320.3	11877.7	12363.5	12453.7	12384.7	12451.1	12230.8	12167.1	12796.1
45°	11171.7	11344.2	11875.1	12586.4	13226.1	13366.8	12915.6	12854.5	12225.4	12052.9	12666.1
47.5°	11723.8	11896.3	12403.3	13231.4	14048.9	14152.4	13459.7	13348.2	12411.2	12228.1	12841.2
50°	12212.2	12331.6	12785.5	13711.8	14816.0	14877.0	14059.5	13924.2	12873.1	12713.8	13388.0
52.5°	11715.8	11702.6	12180.3	13321.6	15214.1	15949.4	14983.2	14853.1	13764.9	13520.7	14234.7
55°	9940.1	9788.9	10216.2	11338.9	14102.0	16902.2	16639.5	16379.3	14954.0	14332.9	15028.3
57.5°	7267.3	7224.9	7328.4	8382.1	11296.5	15426.5	17653.4	17629.5	15981.2	15076.1	15819.3
60°	5682.7	5619.0	5343.0	5372.2	7700.0	12050.3	15320.3	16023.7	16618.2	15522.0	16371.4
62.5°	5045.7	4997.9	4854.6	4459.1	4586.5	8079.5	11230.1	11875.1	14521.4	13709.2	14062.2
65°	4177.8	4164.5	4283.9	4268.0	3843.3	4461.8	6338.3	6988.6	9130.6	9244.7	9130.6
67.5°	3036.5	3012.6	3315.2	3912.4	3700.0	3368.2	3532.8	3758.4	4682.1	4204.3	3785.0
70°	1974.8	1940.3	2115.4	2826.8	3312.5	2935.6	2545.4	2508.3	2574.6	1600.5	1730.6
72.5°	1324.5	1284.7	1282.0	1555.4	2001.3	1977.4	1972.1	1953.5	1743.8	1263.4	1401.4
75°	737.9	706.0	698.1	671.5	716.6	729.9	777.7	804.2	870.6	958.2	1061.7
77.5°	124.7	122.1	153.9	196.4	270.7	347.7	430.0	453.9	560.0	663.6	729.9
80°	69.0	71.7	92.9	114.1	151.3	207.0	265.4	281.3	345.1	400.8	453.9
82.5°	37.2	37.2	47.8	61.0	82.3	108.8	143.3	156.6	199.1	233.6	270.7
85°	13.3	13.3	18.6	23.9	34.5	45.1	55.7	63.7	87.6	119.4	135.4
87.5°	0.0	0.0	0.0	0.0	2.7	5.3	10.6	10.6	13.3	23.9	34.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P640670
 CATALOG NUMBER: GWS-SA5E-735-U-SL2-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10070.2	10070.2	10070.2	10070.2	10070.2	10070.2	10070.2	10070.2	10070.2	10070.2	10070.2
2.5°	10123.3	10051.6	10149.8	10195.0	10210.9	10221.5	10152.5	10104.7	10088.8	10038.4	10009.2
5°	10160.4	10112.7	10205.6	10205.6	10139.2	10070.2	9929.5	9831.3	9762.3	9680.0	9666.8
7.5°	10224.1	10189.6	10240.1	10136.6	9969.3	9783.5	9539.4	9348.2	9194.3	9093.4	9096.1
10°	10309.1	10266.6	10226.8	9995.9	9690.6	9348.2	8974.0	8695.3	8440.5	8323.7	8260.0
12.5°	10364.8	10303.8	10136.6	9754.3	9305.8	8846.6	8318.4	7904.3	7535.4	7368.2	7354.9
15°	10433.8	10322.4	9987.9	9441.1	8817.4	8191.0	7511.5	6935.5	6436.5	6176.4	6163.2
17.5°	10524.1	10340.9	9810.1	9082.8	8302.5	7378.8	6524.1	5799.5	5268.7	5067.0	5101.5
20°	10651.5	10362.2	9608.4	8684.7	7662.8	6455.1	5390.8	4724.6	4520.2	4506.9	4480.4
22.5°	10794.8	10375.4	9385.4	8238.8	6887.8	5470.4	4453.8	4169.8	4167.2	4233.5	4249.4
25°	10956.7	10386.1	9133.3	7718.5	6049.0	4488.3	3938.9	3854.0	3920.3	4045.1	4061.0
27.5°	11163.7	10407.3	8828.0	7147.9	5157.2	3877.9	3654.9	3633.7	3713.3	3830.1	3824.8
30°	11469.0	10484.3	8504.2	6492.3	4241.5	3588.5	3482.4	3485.0	3516.9	3572.6	3580.6
32.5°	11779.5	10603.7	8188.3	5754.4	3715.9	3424.0	3376.2	3370.9	3370.9	3394.8	3400.1
35°	12074.2	10739.1	7845.9	4984.7	3461.1	3328.4	3296.6	3280.6	3272.7	3267.4	3259.4
37.5°	12238.7	10805.4	7511.5	4225.6	3325.8	3264.7	3232.9	3211.6	3182.4	3161.2	3155.9
40°	12167.1	10728.5	7124.0	3657.5	3243.5	3203.7	3166.5	3137.3	3097.5	3078.9	3068.3
42.5°	11928.2	10489.6	6702.0	3389.5	3177.1	3137.3	3092.2	3044.4	3017.9	3001.9	2999.3
45°	11676.0	10200.3	6192.4	3232.9	3113.4	3065.7	3012.6	2959.5	2930.3	2922.3	2919.7
47.5°	11668.1	10056.9	5650.9	3108.1	3036.5	2988.7	2922.3	2869.2	2837.4	2826.8	2816.2
50°	12018.4	10202.9	5040.4	2999.3	2956.8	2906.4	2832.1	2773.7	2733.9	2720.6	2717.9
52.5°	12745.7	10752.3	4493.6	2890.5	2850.7	2792.3	2731.2	2672.8	2625.0	2601.2	2598.5
55°	13531.3	11450.4	4153.9	2779.0	2725.9	2675.5	2619.7	2556.0	2503.0	2465.8	2460.5
57.5°	14343.5	12212.2	4050.4	2638.3	2598.5	2564.0	2497.6	2428.6	2367.6	2333.1	2325.1
60°	15012.4	12867.8	4244.1	2489.7	2468.4	2423.3	2362.3	2295.9	2253.5	2226.9	2221.6
62.5°	12567.8	10476.3	3426.6	2327.8	2327.8	2280.0	2211.0	2163.2	2134.0	2115.4	2110.1
65°	7976.0	6487.0	2338.4	2165.9	2163.2	2099.5	2041.1	2009.3	1996.0	1966.8	1961.5
67.5°	3474.4	2964.8	1998.6	2001.3	1990.7	1921.7	1863.3	1839.4	1812.8	1781.0	1778.3
70°	1802.2	1836.7	1789.0	1818.2	1799.6	1717.3	1661.6	1624.4	1568.7	1536.8	1539.5
72.5°	1454.5	1491.7	1544.8	1589.9	1550.1	1483.7	1396.1	1351.0	1279.3	1244.8	1247.5
75°	1109.5	1149.3	1199.7	1247.5	1215.6	1133.4	1077.6	1032.5	950.2	910.4	918.4
77.5°	764.4	785.7	846.7	844.0	833.4	809.5	727.3	674.2	589.2	541.5	546.8
80°	475.1	488.4	517.6	530.8	525.5	493.7	427.3	387.5	337.1	307.9	310.5
82.5°	286.7	294.6	321.2	323.8	321.2	297.3	246.8	217.6	185.8	169.9	169.9
85°	146.0	151.3	167.2	167.2	151.3	127.4	114.1	100.9	82.3	74.3	74.3
87.5°	39.8	39.8	50.4	42.5	34.5	31.9	15.9	13.3	5.3	2.7	2.7
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)