

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: P643172

Luminaire Tested: GWS-SA6E-735-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643172
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-735-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III 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: 37683.2 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

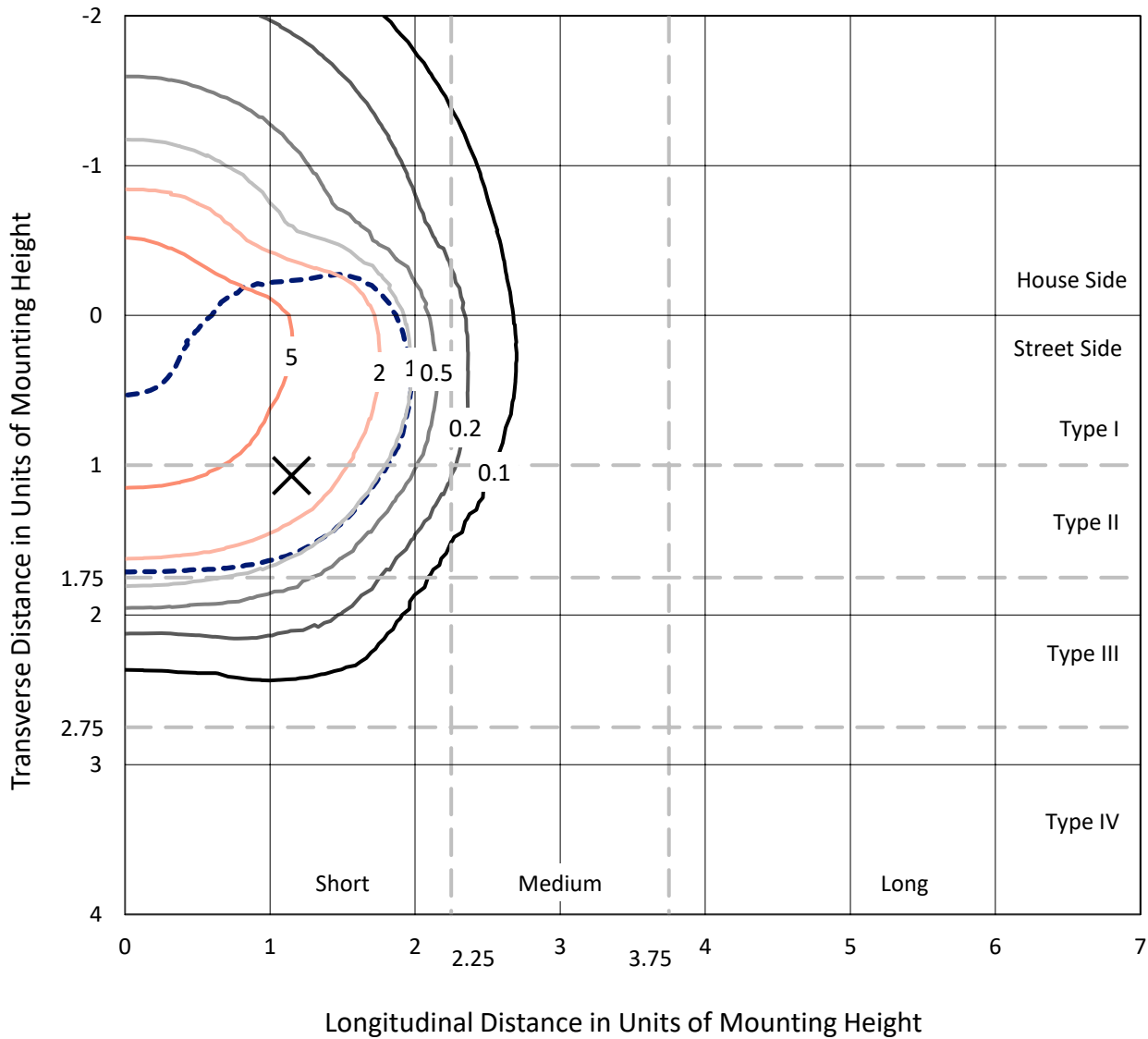
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

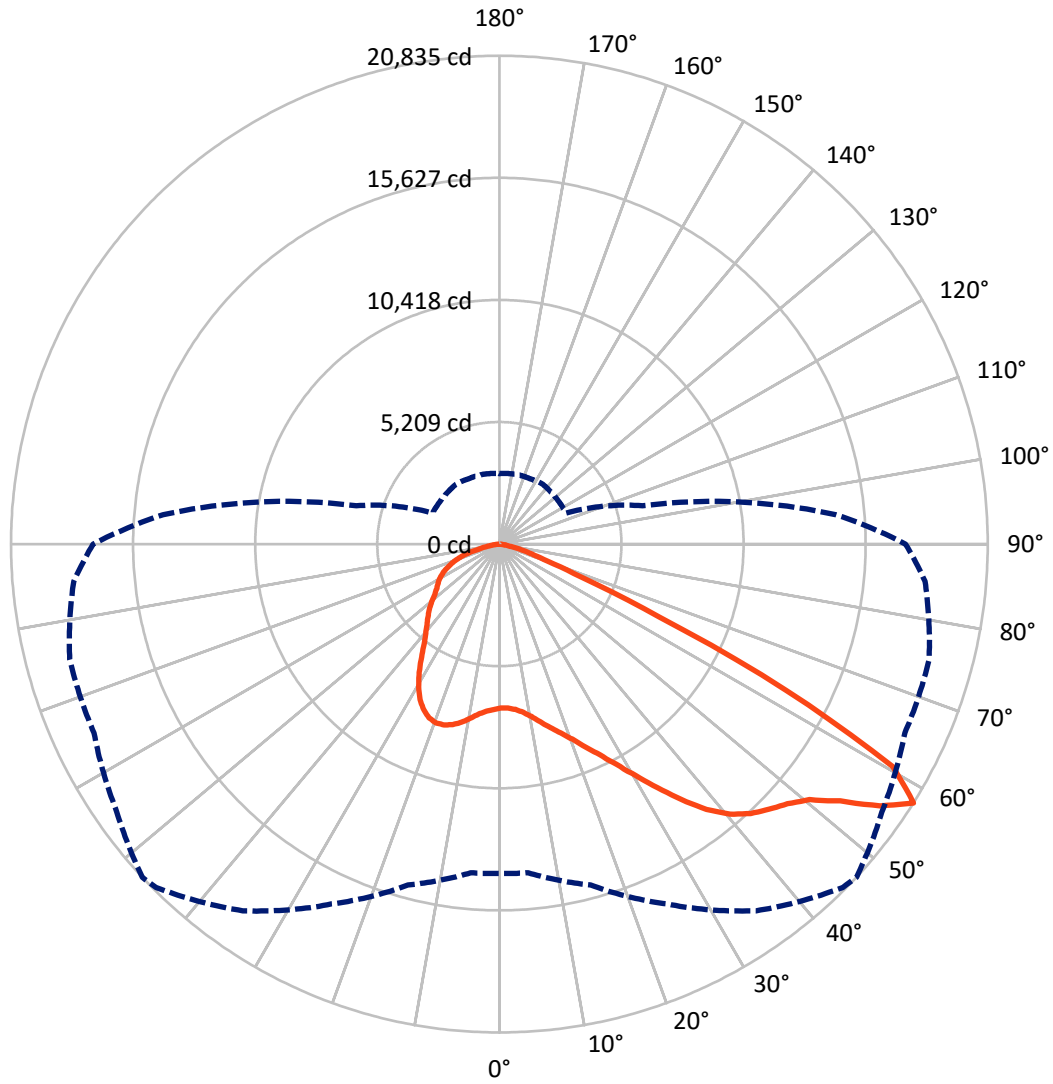
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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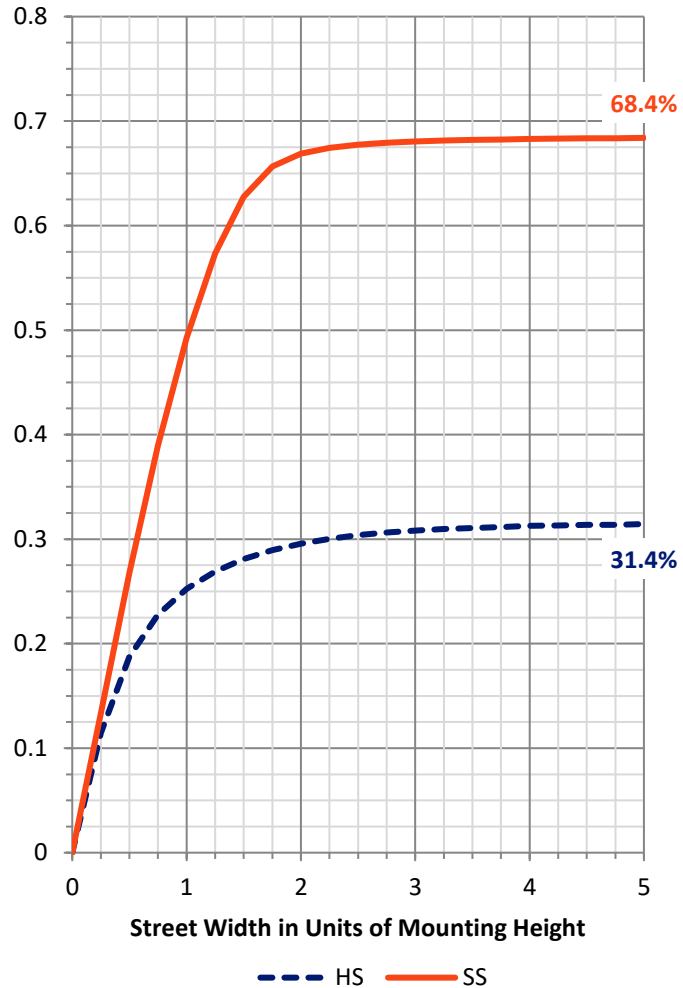
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11926.6	0.0	11926.6
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	25756.6	0.0	25756.6
	% Fixture	68.4	0.0	68.4
Total	Lumens	37683.2	0.0	37683.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	689.3	1.8
10°-20°	2267.1	6.0
20°-30°	4082.1	10.8
30°-40°	6165.6	16.4
40°-50°	8302.7	22.0
50°-60°	9976.8	26.5
60°-70°	4858.9	12.9
70°-80°	1197.0	3.2
80°-90°	143.9	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°	37683.2	100.0
0°-180°	37683.2	100.0

Coefficient of Utilization



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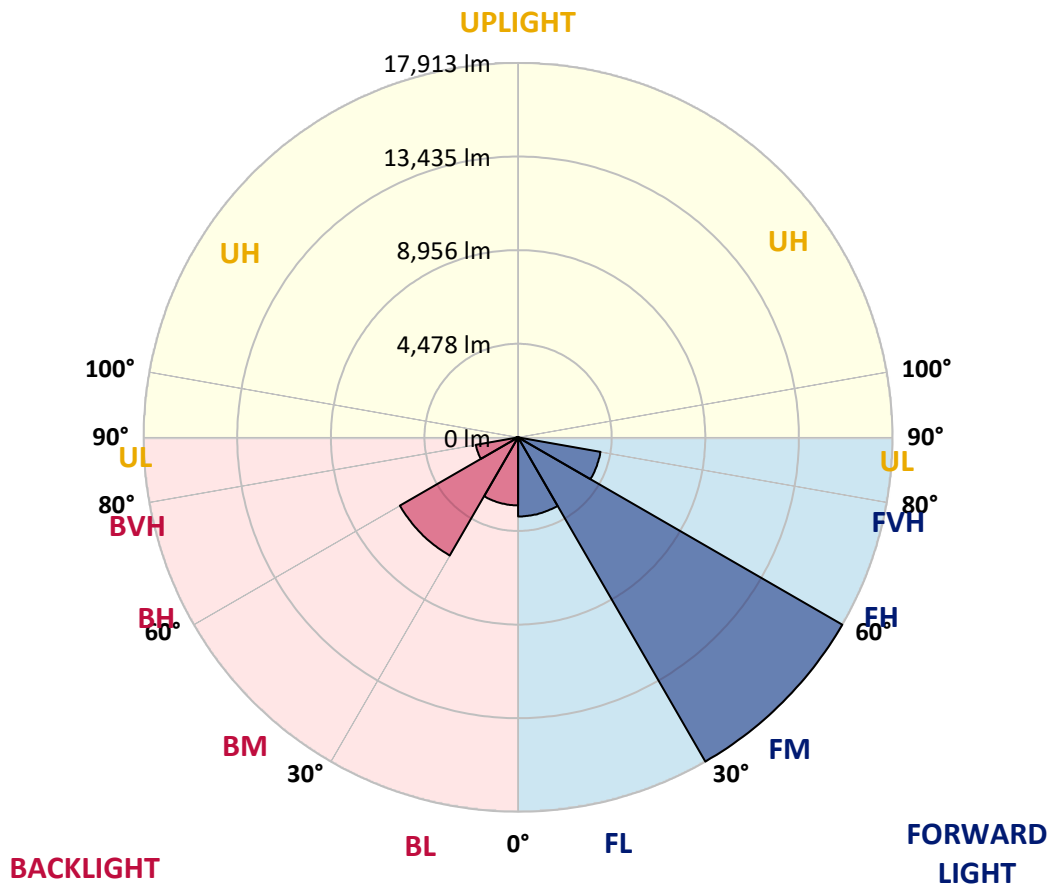
CATALOG NUMBER: GWS-SA6E-735-U-T3-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3785.1	10.0			
FM (30°-60°)	17912.8	47.5			
FH (60°-80°)	4004.6	10.6			G2/5000
FVH (80°-90°)	54.1	0.1			G1/100
BL (0°-30°)	3253.4	8.6	B4/5000		
BM (30°-60°)	6532.2	17.3	B4/8500		
BH (60°-80°)	2051.3	5.4	B3/2500		G3/2500
BVH (80°-90°)	89.8	0.2			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°	47°	55°	65°	75°	85°
0°	6988.4	6988.4	6988.4	6988.4	6988.4	6988.4	6988.4	6988.4	6988.4	6988.4	6988.4
2.5°	6975.7	6972.6	6972.6	6991.6	6991.6	6997.9	7007.4	7016.9	7020.1	7004.2	6969.4
5°	7051.7	7051.7	7051.7	7067.5	7067.5	7073.9	7086.5	7089.7	7086.5	7061.2	7026.4
7.5°	7172.0	7172.0	7175.1	7194.1	7210.0	7219.5	7241.6	7238.4	7228.9	7187.8	7143.5
10°	7368.2	7377.7	7387.2	7409.4	7441.0	7463.2	7479.0	7479.0	7466.3	7403.0	7346.1
12.5°	7646.7	7659.4	7668.9	7687.9	7713.2	7751.2	7786.0	7786.0	7770.2	7691.0	7605.6
15°	7972.7	7985.4	7982.2	7988.6	8036.0	8089.8	8118.3	8137.3	8143.6	8032.9	7899.9
17.5°	8346.2	8358.9	8346.2	8327.2	8333.5	8419.0	8469.6	8539.3	8580.4	8431.7	8219.6
20°	8684.9	8672.2	8672.2	8684.9	8703.9	8808.3	8884.3	8998.2	9048.8	8868.4	8539.3
22.5°	9042.5	9071.0	9058.3	9058.3	9134.3	9308.4	9400.2	9548.9	9602.7	9368.5	8925.4
25°	9504.6	9529.9	9523.6	9529.9	9618.6	9865.4	9957.2	10232.6	10286.4	9950.9	9352.7
27.5°	10011.0	10052.2	10071.2	10064.8	10207.2	10530.1	10644.0	11027.0	11125.1	10602.9	9808.5
30°	10669.3	10713.7	10729.5	10723.1	10890.9	11330.8	11460.6	11897.4	12036.6	11375.1	10387.7
32.5°	11432.1	11476.4	11523.9	11542.9	11758.1	12207.6	12394.3	12846.9	13046.3	12267.7	11087.1
35°	12188.6	12226.5	12318.3	12467.1	12761.4	13220.4	13384.9	13831.2	14024.3	13195.0	11932.2
37.5°	13024.1	13049.5	13128.6	13334.3	13758.4	14195.2	14359.8	14787.1	14809.2	14090.7	12888.0
40°	13938.8	13938.8	13923.0	14125.6	14568.7	15008.6	15151.0	15397.9	15268.1	14780.7	13818.6
42.5°	14714.3	14701.6	14714.3	14904.2	15233.3	15591.0	15714.4	15666.9	15502.4	15309.3	14660.5
45°	15413.7	15423.2	15537.2	15682.8	15853.7	16065.7	16138.5	15869.5	15720.7	15733.4	15334.6
47.5°	15888.5	15898.0	16163.8	16407.6	16512.0	16578.5	16546.8	16173.3	16097.4	16239.8	15853.7
50°	15951.8	16002.4	16461.4	16961.4	17221.0	17230.5	17141.8	16686.1	16663.9	16825.3	16132.2
52.5°	15964.5	16015.1	16588.0	17490.0	18164.2	18306.6	18205.3	17730.5	17499.5	17338.1	16474.0
55°	15917.0	15973.9	16607.0	17844.5	19135.8	19705.5	19715.0	19044.0	18306.6	18199.0	17448.9
57.5°	14052.8	14074.9	15056.1	16942.4	19097.8	20712.0	20835.4	19923.9	19082.0	18980.7	18230.6
60°	9789.5	9878.1	10944.7	13435.6	16043.6	18888.9	19287.7	19021.9	18458.5	17721.0	15641.6
62.5°	4902.6	4978.6	6048.4	8403.2	11065.0	13312.1	13739.4	14021.1	14154.0	13362.8	10650.4
65°	2111.1	2168.1	2832.7	4389.9	6263.6	7349.2	7498.0	7836.6	8665.9	7732.2	5738.2
67.5°	1411.6	1449.6	1788.2	2677.6	3690.4	3760.1	3737.9	3810.7	3991.1	3294.8	2592.2
70°	1082.4	1114.1	1342.0	1962.3	2652.3	2269.3	2149.1	1949.7	2117.4	2158.6	2101.6
72.5°	784.9	810.2	981.2	1338.8	1661.6	1449.6	1430.6	1531.9	1759.8	1823.1	1788.2
75°	506.4	519.1	623.5	734.3	857.7	930.5	968.5	1152.1	1383.1	1430.6	1389.5
77.5°	338.7	348.2	408.3	471.6	487.4	490.6	503.2	585.5	743.8	832.4	822.9
80°	177.2	177.2	199.4	199.4	227.9	272.2	284.9	338.7	411.5	455.8	458.9
82.5°	69.6	72.8	85.5	95.0	113.9	139.3	148.8	177.2	215.2	246.9	275.4
85°	28.5	31.7	34.8	41.1	50.6	63.3	66.5	76.0	101.3	126.6	142.4
87.5°	0.0	0.0	3.2	3.2	6.3	9.5	9.5	12.7	15.8	28.5	38.0
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°	6988.4	6988.4	6988.4	6988.4	6988.4	6988.4	6988.4	6988.4	6988.4	6988.4	6988.4
2.5°	7010.6	6969.4	7010.6	7023.2	7058.0	7070.7	7048.5	7045.4	7045.4	7013.7	7004.2
5°	7058.0	7020.1	7061.2	7080.2	7130.8	7162.5	7168.8	7194.1	7210.0	7197.3	7194.1
7.5°	7175.1	7127.7	7172.0	7200.5	7266.9	7317.6	7339.7	7396.7	7437.8	7431.5	7428.3
10°	7380.9	7317.6	7368.2	7415.7	7488.5	7548.6	7551.8	7583.4	7624.6	7611.9	7605.6
12.5°	7618.2	7558.1	7615.1	7662.6	7748.0	7773.3	7732.2	7719.5	7725.9	7710.0	7697.4
15°	7909.4	7824.0	7874.6	7928.4	7975.9	7947.4	7858.8	7824.0	7820.8	7798.7	7786.0
17.5°	8200.6	8093.0	8131.0	8159.5	8137.3	8048.7	7937.9	7877.8	7849.3	7805.0	7792.3
20°	8488.6	8352.5	8346.2	8324.0	8222.8	8061.4	7912.6	7792.3	7719.5	7659.4	7637.2
22.5°	8817.8	8627.9	8532.9	8431.7	8210.1	7947.4	7722.7	7551.8	7434.7	7358.7	7333.4
25°	9172.3	8903.3	8707.0	8504.5	8083.5	7703.7	7390.4	7156.2	7016.9	6934.6	6906.1
27.5°	9523.6	9153.3	8858.9	8514.0	7830.3	7352.4	6931.4	6614.9	6475.7	6409.2	6387.0
30°	9998.4	9485.6	9039.3	8390.5	7498.0	6865.0	6339.6	6019.9	5928.1	5880.6	5861.7
32.5°	10545.9	9906.6	9279.9	8131.0	7073.9	6295.3	5741.4	5519.8	5456.5	5364.7	5361.6
35°	11267.5	10507.9	9507.8	7748.0	6539.0	5684.4	5282.4	5124.2	5010.3	4864.7	4852.0
37.5°	12109.4	11258.0	9631.2	7260.6	5915.5	5181.2	4940.6	4763.4	4579.8	4386.7	4361.4
40°	12979.8	12134.8	9640.7	6684.6	5304.6	4848.8	4646.3	4415.2	4187.3	3972.1	3943.6
42.5°	13894.5	12951.3	9473.0	6019.9	4804.5	4560.8	4355.1	4063.9	3807.5	3661.9	3646.1
45°	14711.1	13609.7	9093.2	5320.4	4434.2	4320.3	4057.6	3744.2	3608.1	3503.7	3481.5
47.5°	15353.6	14046.4	8580.4	4693.8	4133.5	4073.4	3731.6	3570.2	3465.7	3370.8	3348.6
50°	15670.1	14144.6	7912.6	4184.2	3855.0	3782.2	3548.0	3424.6	3354.9	3279.0	3260.0
52.5°	16062.6	14255.3	7336.6	3756.9	3582.8	3484.7	3396.1	3298.0	3247.3	3199.9	3184.0
55°	16964.6	14673.1	7032.7	3415.1	3323.3	3279.0	3266.3	3184.0	3168.2	3136.6	3108.1
57.5°	17331.7	14404.1	6314.3	3136.6	3117.6	3123.9	3155.5	3079.6	3063.8	3025.8	3006.8
60°	13938.8	10887.7	4276.0	2896.0	2946.7	2987.8	3019.4	2943.5	2921.3	2915.0	2889.7
62.5°	8931.7	6697.2	2984.6	2671.3	2747.3	2797.9	2816.9	2744.1	2728.3	2778.9	2782.1
65°	4649.4	3649.3	2421.3	2430.7	2494.0	2570.0	2608.0	2582.7	2576.3	2630.1	2633.3
67.5°	2373.8	2231.4	2111.1	2145.9	2196.5	2294.7	2383.3	2494.0	2532.0	2538.4	2541.5
70°	2022.5	1959.2	1899.0	1921.2	1975.0	2028.8	2114.2	2168.1	2104.8	2088.9	2082.6
72.5°	1721.8	1674.3	1645.8	1671.1	1699.6	1690.1	1664.8	1690.1	1699.6	1702.8	1706.0
75°	1338.8	1304.0	1281.8	1285.0	1285.0	1250.2	1202.7	1174.2	1142.6	1117.3	1117.3
77.5°	819.7	826.1	848.2	845.1	841.9	829.2	781.8	756.4	680.5	658.3	658.3
80°	468.4	477.9	500.1	506.4	506.4	490.6	443.1	414.6	379.8	364.0	360.8
82.5°	284.9	297.5	310.2	316.5	319.7	300.7	259.5	237.4	218.4	202.6	202.6
85°	148.8	155.1	167.7	170.9	161.4	142.4	120.3	110.8	91.8	88.6	88.6
87.5°	41.1	44.3	50.6	41.1	38.0	28.5	15.8	12.7	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)