

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: P643227

Luminaire Tested: GWS-SA6E-740-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643227
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38206.8 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

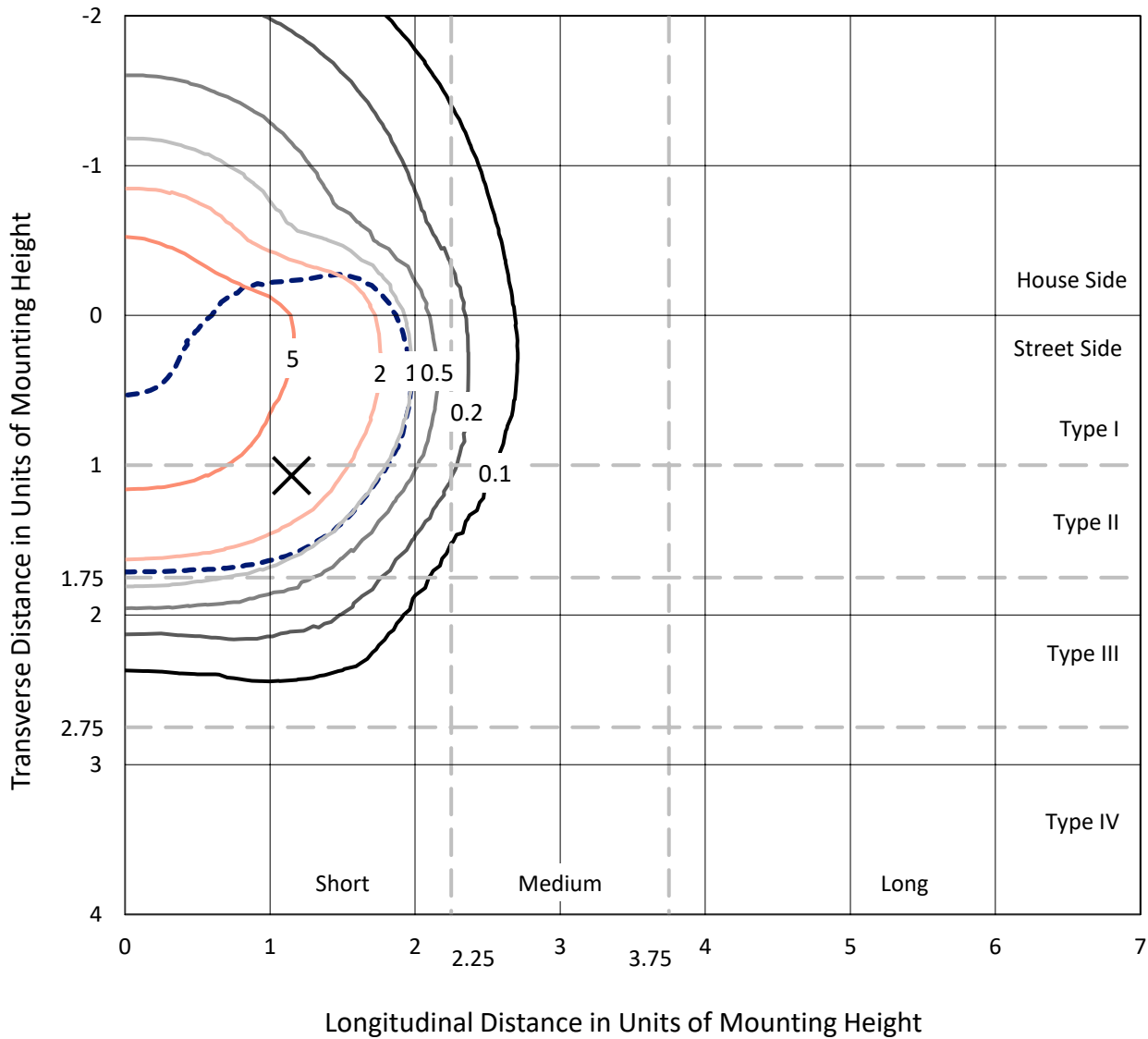
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

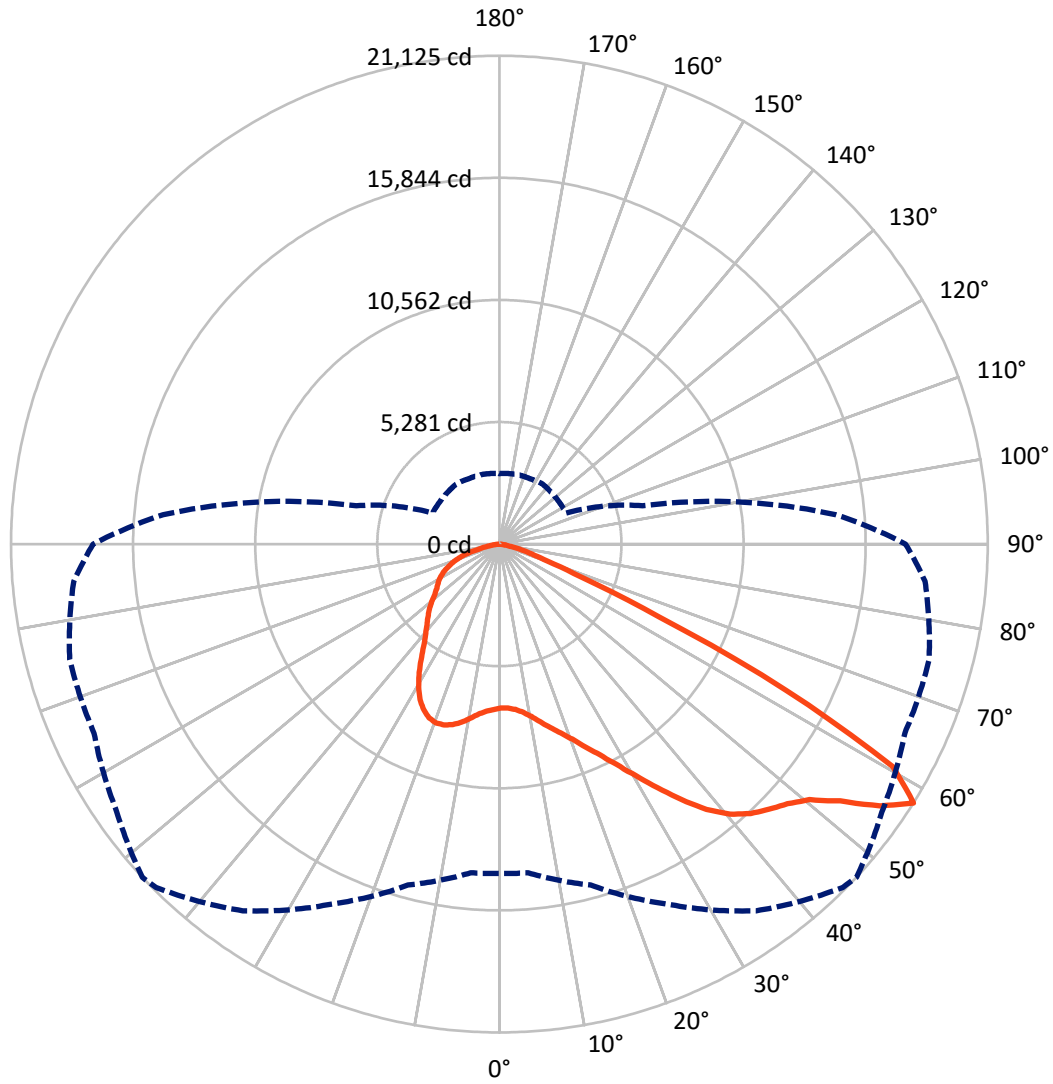
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.8 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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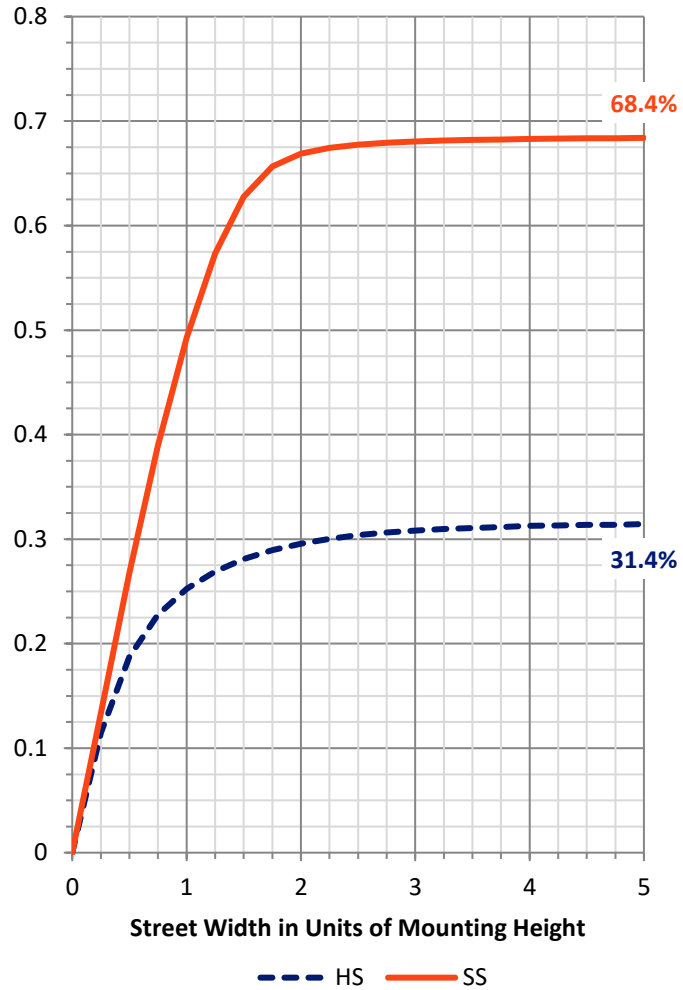
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12092.4	0.0	12092.4
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	26114.4	0.0	26114.4
	% Fixture	68.4	0.0	68.4
Total	Lumens	38206.8	0.0	38206.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	698.9	1.8
10°-20°	2298.6	6.0
20°-30°	4138.8	10.8
30°-40°	6251.2	16.4
40°-50°	8418.0	22.0
50°-60°	10115.4	26.5
60°-70°	4926.4	12.9
70°-80°	1213.7	3.2
80°-90°	145.9	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°	38206.8	100.0
0°-180°	38206.8	100.0

Coefficient of Utilization



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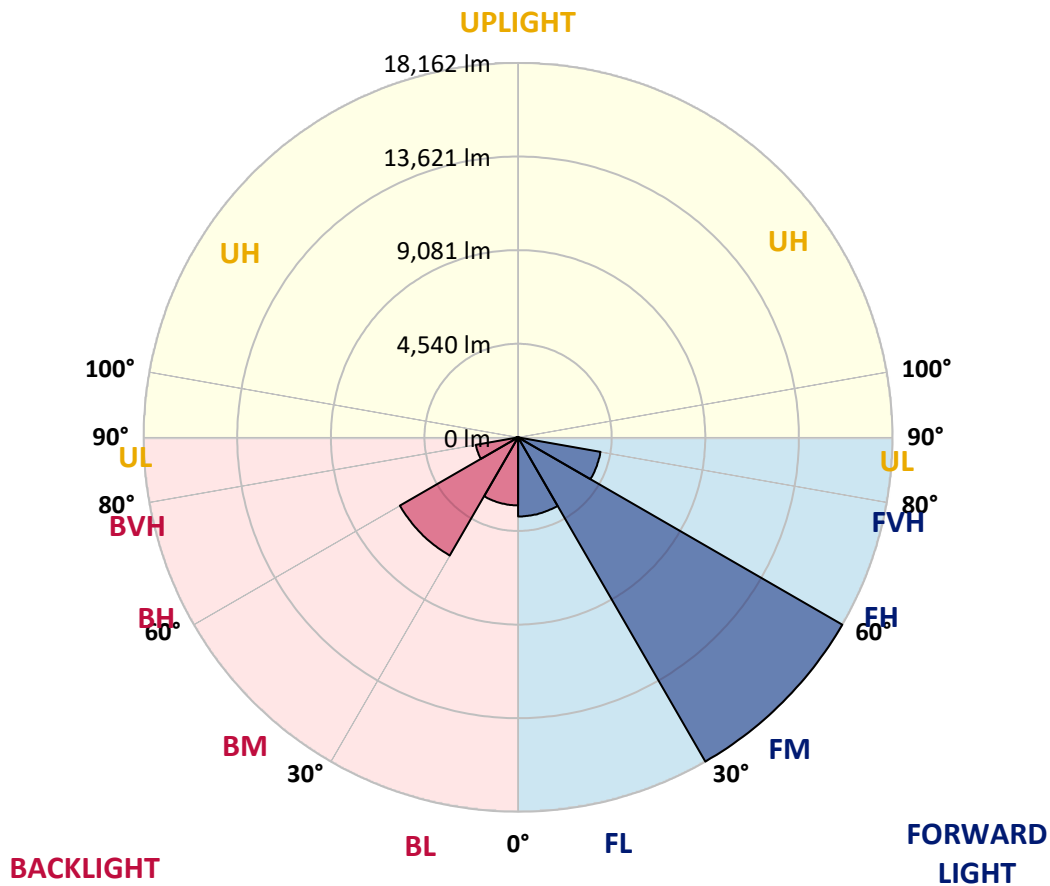
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3837.7	10.0			
FM (30°-60°)	18161.7	47.5			
FH (60°-80°)	4060.2	10.6			G2/5000
FVH (80°-90°)	54.8	0.1			G1/100
BL (0°-30°)	3298.6	8.6	B4/5000		
BM (30°-60°)	6622.9	17.3	B4/8500		
BH (60°-80°)	2079.8	5.4	B3/2500		G3/2500
BVH (80°-90°)	91.0	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°	7085.5	7085.5	7085.5	7085.5	7085.5	7085.5	7085.5	7085.5	7085.5	7085.5	7085.5
2.5°	7072.7	7069.5	7069.5	7088.7	7088.7	7095.1	7104.8	7114.4	7117.6	7101.6	7066.3
5°	7149.7	7149.7	7149.7	7165.7	7165.7	7172.1	7185.0	7188.2	7185.0	7159.3	7124.0
7.5°	7271.6	7271.6	7274.8	7294.1	7310.1	7319.8	7342.2	7339.0	7329.4	7287.7	7242.7
10°	7470.6	7480.2	7489.8	7512.3	7544.4	7566.9	7582.9	7582.9	7570.1	7505.9	7448.1
12.5°	7753.0	7765.8	7775.4	7794.7	7820.4	7858.9	7894.2	7894.2	7878.1	7797.9	7711.3
15°	8083.5	8096.3	8093.1	8099.6	8147.7	8202.2	8231.1	8250.4	8256.8	8144.5	8009.7
17.5°	8462.2	8475.0	8462.2	8442.9	8449.3	8536.0	8587.3	8657.9	8699.6	8548.8	8333.8
20°	8805.5	8792.7	8792.7	8805.5	8824.8	8930.7	9007.7	9123.2	9174.6	8991.7	8657.9
22.5°	9168.2	9197.0	9184.2	9184.2	9261.2	9437.7	9530.8	9681.6	9736.2	9498.7	9049.4
25°	9636.7	9662.3	9655.9	9662.3	9752.2	10002.5	10095.6	10374.7	10429.3	10089.1	9482.6
27.5°	10150.1	10191.8	10211.1	10204.7	10349.1	10676.4	10791.9	11180.2	11279.7	10750.2	9944.7
30°	10817.6	10862.5	10878.6	10872.1	11042.2	11488.3	11619.8	12062.7	12203.9	11533.2	10532.0
32.5°	11591.0	11635.9	11684.0	11703.3	11921.5	12377.2	12566.5	13025.4	13227.6	12438.1	11241.2
35°	12357.9	12396.4	12489.5	12640.3	12938.8	13404.1	13570.9	14023.4	14219.1	13378.4	12098.0
37.5°	13205.1	13230.8	13311.0	13519.6	13949.6	14392.4	14559.3	14992.5	15015.0	14286.5	13067.1
40°	14132.5	14132.5	14116.5	14321.8	14771.1	15217.2	15361.6	15611.9	15480.3	14986.1	14010.6
42.5°	14918.7	14905.9	14918.7	15111.3	15445.0	15807.6	15932.8	15884.6	15717.8	15522.0	14864.2
45°	15627.9	15637.5	15753.1	15900.7	16074.0	16289.0	16362.8	16090.0	15939.2	15952.0	15547.7
47.5°	16109.3	16118.9	16388.4	16635.5	16741.4	16808.8	16776.7	16398.1	16321.1	16465.5	16074.0
50°	16173.4	16224.8	16690.1	17197.1	17460.3	17469.9	17380.0	16917.9	16895.5	17059.1	16356.4
52.5°	16186.3	16237.6	16818.5	17733.0	18416.5	18560.9	18458.3	17976.9	17742.6	17579.0	16702.9
55°	16138.1	16195.9	16837.7	18092.4	19401.7	19979.3	19989.0	19308.6	18560.9	18451.8	17691.3
57.5°	14248.0	14270.5	15265.3	17177.9	19363.2	20999.8	21124.9	20200.8	19347.2	19244.5	18483.9
60°	9925.5	10015.3	11096.8	13622.3	16266.5	19151.4	19555.7	19286.2	18715.0	17967.3	15859.0
62.5°	4970.8	5047.8	6132.4	8519.9	11218.7	13497.1	13930.3	14215.9	14350.7	13548.5	10798.3
65°	2140.4	2198.2	2872.1	4450.9	6350.6	7451.3	7602.2	7945.5	8786.3	7839.6	5817.9
67.5°	1431.2	1469.7	1813.1	2714.8	3741.7	3812.3	3789.8	3863.7	4046.6	3340.6	2628.2
70°	1097.5	1129.6	1360.6	1989.6	2689.2	2300.9	2178.9	1976.8	2146.8	2188.5	2130.8
72.5°	795.8	821.5	994.8	1357.4	1684.7	1469.7	1450.5	1553.2	1784.2	1848.4	1813.1
75°	513.4	526.3	632.2	744.5	869.6	943.5	982.0	1168.1	1402.3	1450.5	1408.8
77.5°	343.4	353.0	414.0	478.1	494.2	497.4	510.2	593.7	754.1	844.0	834.3
80°	179.7	179.7	202.2	202.2	231.0	276.0	288.8	343.4	417.2	462.1	465.3
82.5°	70.6	73.8	86.6	96.3	115.5	141.2	150.8	179.7	218.2	250.3	279.2
85°	28.9	32.1	35.3	41.7	51.3	64.2	67.4	77.0	102.7	128.4	144.4
87.5°	0.0	0.0	3.2	3.2	6.4	9.6	9.6	12.8	16.0	28.9	38.5
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°	7085.5	7085.5	7085.5	7085.5	7085.5	7085.5	7085.5	7085.5	7085.5	7085.5	7085.5
2.5°	7108.0	7066.3	7108.0	7120.8	7156.1	7168.9	7146.5	7143.3	7143.3	7111.2	7101.6
5°	7156.1	7117.6	7159.3	7178.6	7229.9	7262.0	7268.4	7294.1	7310.1	7297.3	7294.1
7.5°	7274.8	7226.7	7271.6	7300.5	7367.9	7419.2	7441.7	7499.5	7541.2	7534.8	7531.6
10°	7483.4	7419.2	7470.6	7518.7	7592.5	7653.5	7656.7	7688.8	7730.5	7717.7	7711.3
12.5°	7724.1	7663.1	7720.9	7769.0	7855.7	7881.3	7839.6	7826.8	7833.2	7817.2	7804.3
15°	8019.3	7932.7	7984.0	8038.6	8086.7	8057.8	7968.0	7932.7	7929.5	7907.0	7894.2
17.5°	8314.6	8205.5	8244.0	8272.8	8250.4	8160.5	8048.2	7987.2	7958.4	7913.4	7900.6
20°	8606.6	8468.6	8462.2	8439.7	8337.0	8173.4	8022.5	7900.6	7826.8	7765.8	7743.4
22.5°	8940.3	8747.8	8651.5	8548.8	8324.2	8057.8	7830.0	7656.7	7538.0	7461.0	7435.3
25°	9299.7	9027.0	8828.0	8622.6	8195.8	7810.7	7493.1	7255.6	7114.4	7031.0	7002.1
27.5°	9655.9	9280.5	8982.0	8632.3	7939.1	7454.5	7027.7	6706.8	6565.6	6498.3	6475.8
30°	10137.3	9617.4	9164.9	8507.1	7602.2	6960.4	6427.7	6103.5	6010.5	5962.4	5943.1
32.5°	10692.4	10044.2	9408.8	8244.0	7172.1	6382.7	5821.2	5596.5	5532.3	5439.3	5436.1
35°	11424.1	10653.9	9639.9	7855.7	6629.8	5763.4	5355.8	5195.4	5079.9	4932.3	4919.4
37.5°	12277.7	11414.5	9765.0	7361.5	5997.6	5253.2	5009.3	4829.6	4643.4	4447.7	4422.0
40°	13160.2	12303.4	9774.7	6777.4	5378.3	4916.2	4710.8	4476.6	4245.5	4027.3	3998.4
42.5°	14087.6	13131.3	9604.6	6103.5	4871.3	4624.2	4415.6	4120.4	3860.4	3712.8	3696.8
45°	14915.5	13798.8	9219.5	5394.4	4495.8	4380.3	4114.0	3796.3	3658.3	3552.4	3529.9
47.5°	15566.9	14241.6	8699.6	4759.0	4191.0	4130.0	3783.4	3619.8	3513.9	3417.6	3395.1
50°	15887.8	14341.1	8022.5	4242.3	3908.6	3834.8	3597.3	3472.2	3401.6	3324.5	3305.3
52.5°	16285.8	14453.4	7438.5	3809.1	3632.6	3533.1	3443.3	3343.8	3292.4	3244.3	3228.3
55°	17200.3	14877.0	7130.4	3462.5	3369.5	3324.5	3311.7	3228.3	3212.2	3180.1	3151.3
57.5°	17572.6	14604.2	6402.0	3180.1	3160.9	3167.3	3199.4	3122.4	3106.3	3067.8	3048.6
60°	14132.5	11039.0	4335.4	2936.2	2987.6	3029.3	3061.4	2984.4	2961.9	2955.5	2929.8
62.5°	9055.8	6790.3	3026.1	2708.4	2785.4	2836.8	2856.0	2782.2	2766.2	2817.5	2820.7
65°	4714.0	3700.0	2454.9	2464.5	2528.7	2605.7	2644.2	2618.6	2612.1	2666.7	2669.9
67.5°	2406.8	2262.4	2140.4	2175.7	2227.1	2326.5	2416.4	2528.7	2567.2	2573.6	2576.8
70°	2050.6	1986.4	1925.4	1947.9	2002.4	2057.0	2143.6	2198.2	2134.0	2118.0	2111.5
72.5°	1745.7	1697.6	1668.7	1694.4	1723.2	1713.6	1687.9	1713.6	1723.2	1726.5	1729.7
75°	1357.4	1322.1	1299.7	1302.9	1302.9	1267.6	1219.4	1190.5	1158.5	1132.8	1132.8
77.5°	831.1	837.6	860.0	856.8	853.6	840.8	792.6	767.0	689.9	667.5	667.5
80°	474.9	484.6	507.0	513.4	513.4	497.4	449.3	420.4	385.1	369.0	365.8
82.5°	288.8	301.6	314.5	320.9	324.1	304.9	263.1	240.7	221.4	205.4	205.4
85°	150.8	157.2	170.1	173.3	163.7	144.4	121.9	112.3	93.1	89.9	89.9
87.5°	41.7	44.9	51.3	41.7	38.5	28.9	16.0	12.8	6.4	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)