

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: P643198

Luminaire Tested: GWS-SA6E-740-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643198
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-740-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46081.8 lumens
Efficiency: N/A
Efficacy: 142.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

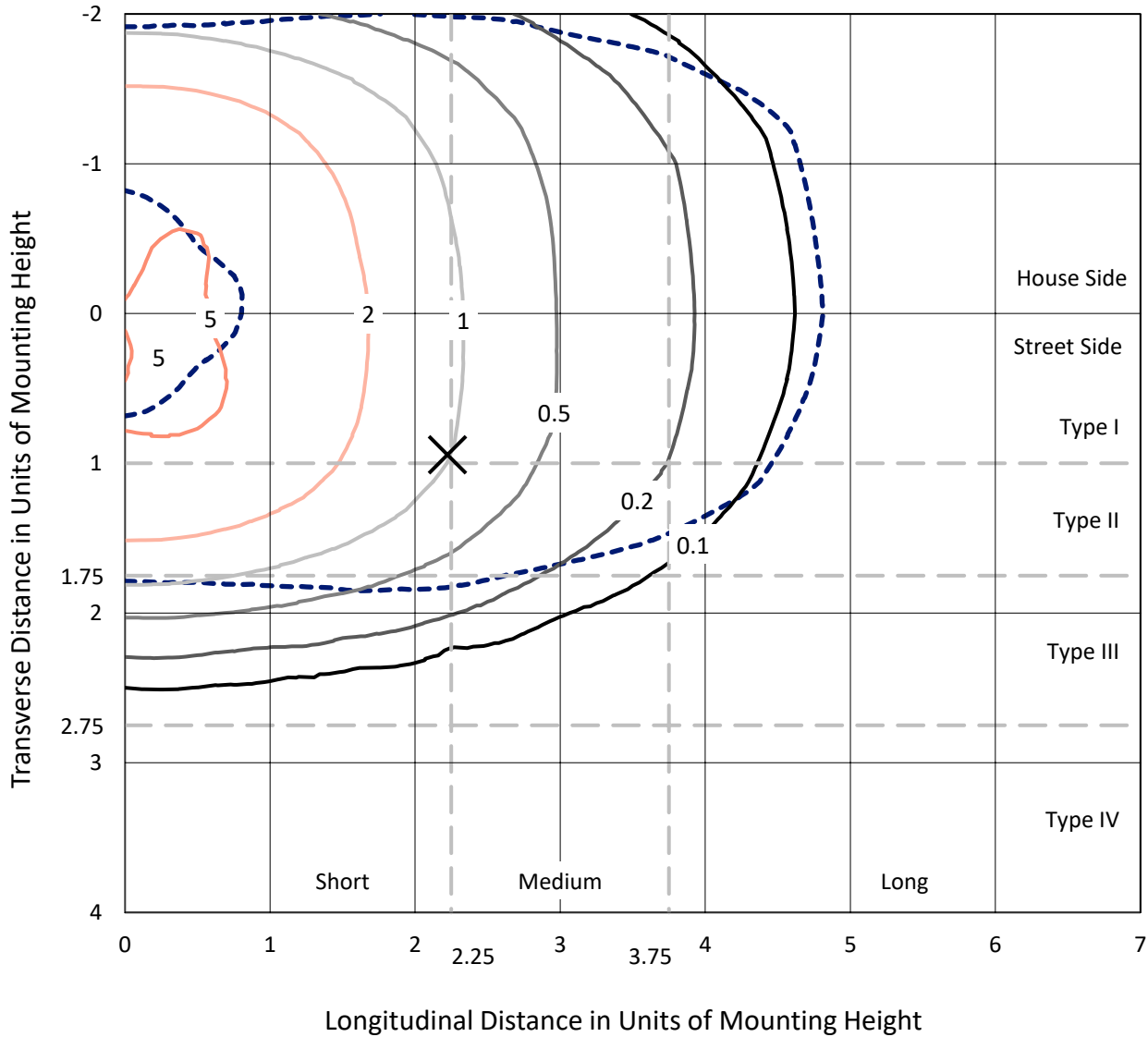
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

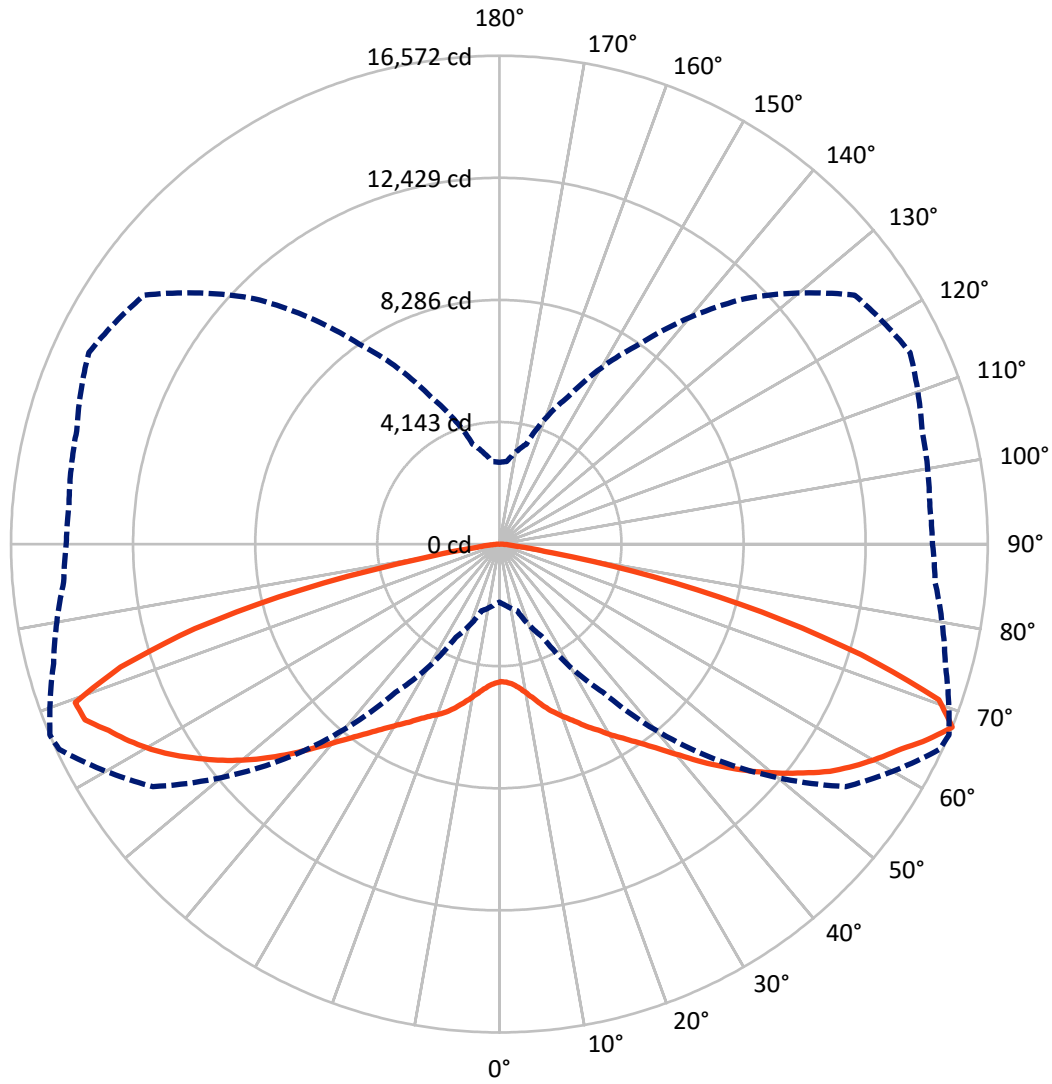
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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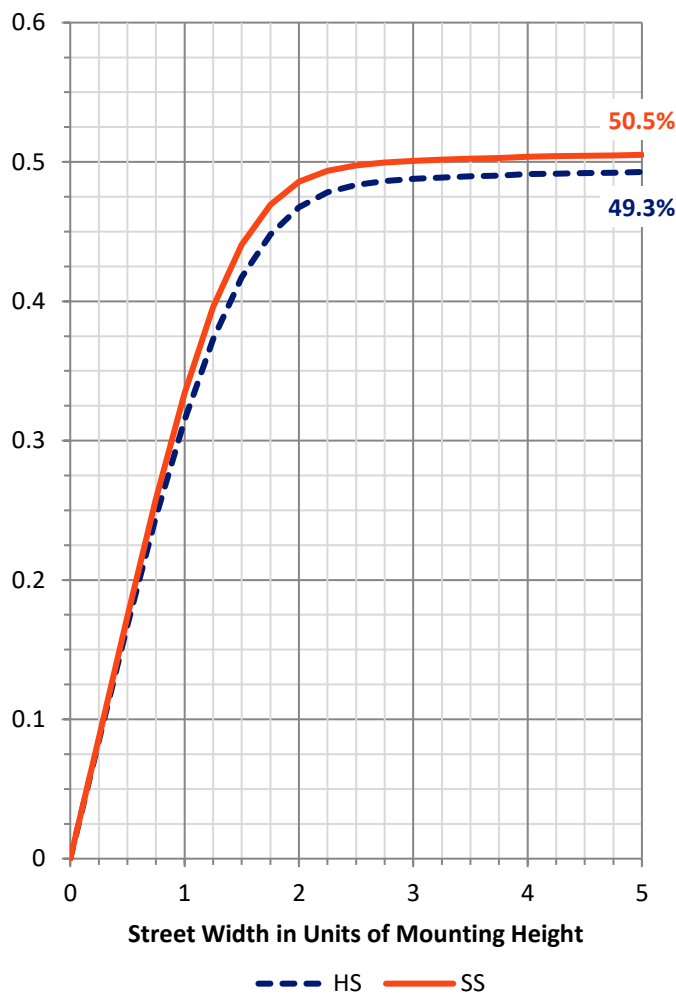
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22786.6	0.0	22786.6
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	23295.2	0.0	23295.2
	% Fixture	50.6	0.0	50.6
Total	Lumens	46081.8	0.0	46081.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.8	1.0
10°-20°	1546.6	3.4
20°-30°	3034.4	6.6
30°-40°	5169.7	11.2
40°-50°	8301.5	18.0
50°-60°	11280.0	24.5
60°-70°	10790.1	23.4
70°-80°	5130.0	11.1
80°-90°	371.7	0.8
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°	46081.8	100.0
0°-180°	46081.8	100.0

Coefficient of Utilization



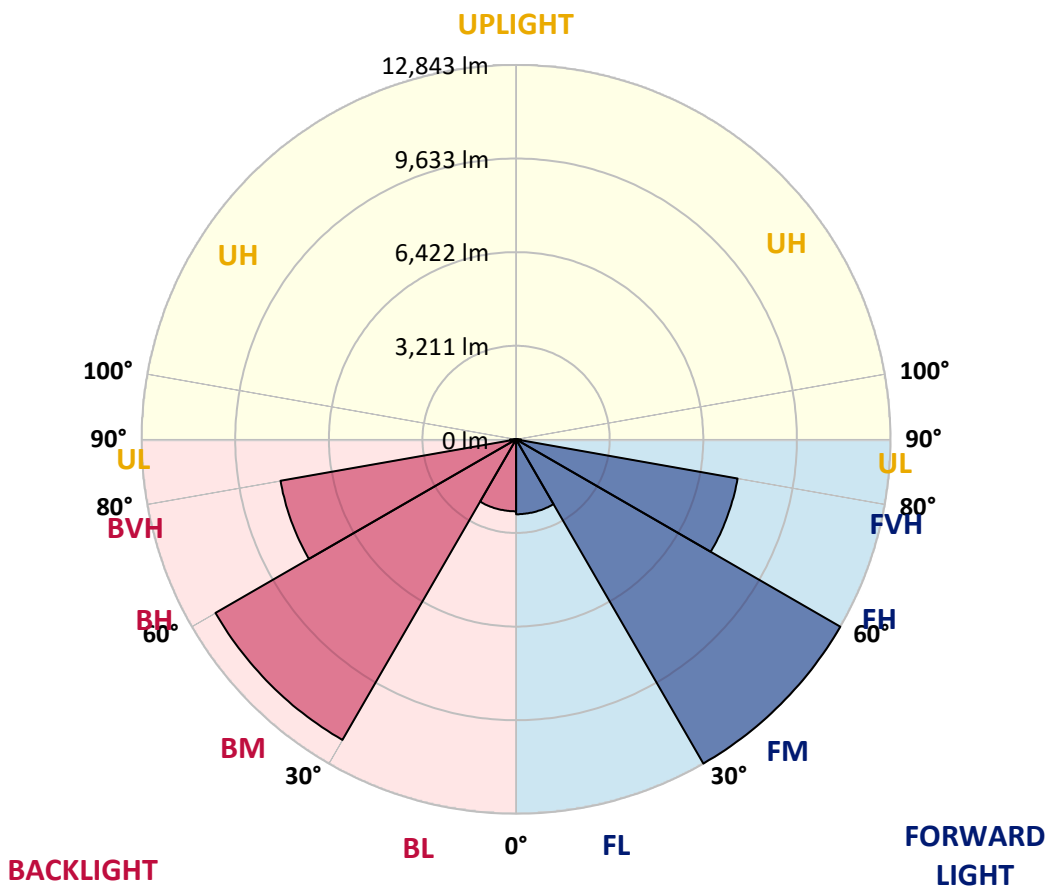
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2569.4	5.6			
FM (30°-60°)	12843.4	27.9			
FH (60°-80°)	7715.3	16.7			G4/12000
FVH (80°-90°)	167.1	0.4			G2/225
BL (0°-30°)	2469.4	5.4	B3/2500		
BM (30°-60°)	11907.8	25.8	B5		
BH (60°-80°)	8204.8	17.8	B5		G5
BVH (80°-90°)	204.7	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4666.0	4666.0	4666.0	4666.0	4666.0	4666.0	4666.0	4666.0	4666.0	4666.0	4666.0
2.5°	4569.8	4576.2	4585.8	4605.1	4624.3	4653.2	4682.1	4678.9	4691.7	4701.3	4711.0
5°	4544.1	4550.5	4566.6	4592.2	4621.1	4669.2	4730.2	4755.9	4775.1	4810.4	4842.5
7.5°	4598.6	4611.5	4633.9	4669.2	4714.2	4775.1	4858.6	4903.5	4932.4	4996.6	5051.1
10°	4672.5	4688.5	4733.4	4800.8	4868.2	4961.3	5067.2	5134.6	5153.8	5237.3	5340.0
12.5°	4743.1	4762.3	4836.1	4958.1	5080.0	5205.2	5330.3	5413.8	5420.2	5532.5	5648.0
15°	4855.4	4871.4	4970.9	5128.2	5314.3	5487.6	5641.6	5699.4	5725.0	5805.3	5949.7
17.5°	5102.5	5121.7	5250.1	5420.2	5615.9	5798.9	5952.9	6001.0	6001.0	6068.4	6187.2
20°	5368.8	5388.1	5558.2	5776.4	6013.9	6200.0	6318.7	6273.8	6257.8	6277.0	6360.4
22.5°	5667.3	5702.6	5866.2	6119.8	6411.8	6639.6	6700.6	6565.8	6520.9	6476.0	6495.2
25°	6049.2	6090.9	6251.3	6520.9	6806.5	7047.2	7082.5	6873.9	6848.2	6691.0	6633.2
27.5°	6488.8	6520.9	6719.9	6986.2	7252.6	7454.8	7493.3	7236.5	7149.9	6931.7	6796.9
30°	7056.8	7085.7	7259.0	7522.1	7753.2	7894.4	7942.5	7589.5	7522.1	7188.4	6979.8
32.5°	7676.2	7689.0	7865.5	8119.0	8324.4	8459.2	8391.8	7981.0	7881.6	7506.1	7220.5
35°	8385.4	8385.4	8613.2	8818.6	8982.3	9020.8	8892.4	8423.9	8308.4	7900.8	7544.6
37.5°	9081.8	9101.0	9312.8	9556.7	9701.1	9694.7	9460.4	8947.0	8815.4	8372.6	7977.8
40°	9835.9	9877.6	10089.4	10362.2	10500.2	10480.9	10121.5	9550.3	9415.5	8892.4	8507.3
42.5°	10529.1	10596.5	10843.6	11122.8	11273.6	11260.8	10885.3	10243.5	10111.9	9521.4	9136.3
45°	11081.0	11151.6	11459.7	11848.0	12088.7	12066.2	11687.6	10962.3	10801.8	10182.5	9758.9
47.5°	11565.6	11639.4	11982.8	12393.6	12775.4	12814.0	12467.4	11687.6	11517.5	10891.7	10413.5
50°	11937.9	11973.2	12358.3	12807.5	13250.4	13465.4	13163.7	12416.0	12210.6	11591.3	11052.2
52.5°	11909.0	11957.1	12432.1	13041.8	13635.5	13988.5	13779.9	13102.8	12903.8	12229.9	11703.6
55°	11321.7	11369.9	11934.7	12823.6	13850.5	14370.4	14347.9	13757.4	13613.0	12881.3	12380.7
57.5°	10464.9	10570.8	11132.4	12091.9	13568.1	14675.2	14765.1	14354.3	14203.5	13520.0	13051.4
60°	8930.9	9072.1	9720.4	10965.5	12663.1	14572.5	15211.2	14858.2	14765.1	14113.6	13658.0
62.5°	6488.8	6591.5	7454.8	9088.2	11321.7	13840.9	15586.6	15378.0	15307.4	14646.4	14206.7
65°	3886.2	4120.5	4813.7	6427.8	9133.1	12461.0	15381.2	16058.4	15984.6	15195.1	14675.2
67.5°	1967.2	2073.1	2345.9	3485.1	6142.2	10310.9	14351.1	16482.0	16571.8	15663.6	14842.1
70°	1219.5	1248.3	1325.4	1720.1	3067.9	6774.4	11735.7	15378.0	15817.7	15589.8	14408.9
72.5°	978.8	985.2	998.0	1071.8	1473.0	3167.4	7419.5	12043.8	12836.4	14559.7	13789.5
75°	811.9	815.1	818.3	840.8	917.8	1293.3	3610.2	8276.3	9203.7	12374.3	12785.1
77.5°	651.4	635.4	648.2	657.9	677.1	722.0	1245.1	4415.7	5356.0	8122.2	9887.3
80°	423.6	417.2	442.9	452.5	471.7	500.6	664.3	1498.7	1819.6	2955.6	3144.9
82.5°	227.8	215.0	269.6	259.9	269.6	292.0	391.5	548.8	616.1	892.1	754.1
85°	70.6	70.6	73.8	86.6	105.9	102.7	170.1	269.6	298.4	381.9	282.4
87.5°	12.8	12.8	12.8	12.8	12.8	16.0	35.3	54.6	73.8	131.6	99.5
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°	4666.0	4666.0	4666.0	4666.0	4666.0	4666.0	4666.0	4666.0	4666.0	4666.0	4666.0
2.5°	4730.2	4701.3	4717.4	4727.0	4723.8	4717.4	4685.3	4678.9	4662.8	4637.2	4630.7
5°	4871.4	4839.3	4842.5	4832.9	4800.8	4759.1	4688.5	4653.2	4624.3	4592.2	4589.0
7.5°	5092.9	5057.5	5047.9	5003.0	4913.1	4816.9	4704.5	4640.4	4592.2	4550.5	4544.1
10°	5375.3	5340.0	5307.9	5202.0	5054.3	4926.0	4778.4	4685.3	4614.7	4563.3	4553.7
12.5°	5689.7	5660.9	5580.6	5426.6	5250.1	5099.3	4948.4	4832.9	4730.2	4653.2	4643.6
15°	6039.5	5975.4	5853.4	5654.4	5487.6	5365.6	5182.7	5025.5	4861.8	4759.1	4736.6
17.5°	6283.4	6228.9	6084.5	5891.9	5760.3	5654.4	5439.4	5214.8	4993.4	4842.5	4810.4
20°	6456.7	6399.0	6235.3	6094.1	6052.4	5962.5	5712.2	5452.3	5195.5	5009.4	4967.7
22.5°	6581.9	6520.9	6354.0	6283.4	6341.2	6325.1	6081.3	5786.0	5481.2	5259.7	5208.4
25°	6700.6	6642.8	6495.2	6520.9	6674.9	6723.1	6459.9	6116.6	5770.0	5510.0	5449.1
27.5°	6812.9	6739.1	6671.7	6812.9	7031.1	7121.0	6841.8	6453.5	6078.0	5811.7	5763.6
30°	6986.2	6899.6	6889.9	7095.3	7441.9	7518.9	7210.9	6822.6	6450.3	6180.7	6119.8
32.5°	7204.4	7124.2	7130.6	7438.7	7839.8	7904.0	7640.9	7278.3	6906.0	6636.4	6553.0
35°	7499.7	7400.2	7454.8	7833.4	8237.8	8356.5	8144.7	7843.1	7480.4	7204.4	7111.4
37.5°	7907.2	7762.8	7875.1	8273.1	8680.6	8857.1	8693.5	8468.8	8109.4	7830.2	7743.6
40°	8427.1	8308.4	8353.3	8792.9	9213.3	9425.1	9322.5	9101.0	8744.8	8452.8	8353.3
42.5°	9043.3	8924.5	8908.5	9377.0	9797.4	10118.3	10018.8	9816.7	9447.6	9113.9	9017.6
45°	9646.6	9537.5	9559.9	10038.1	10509.8	10859.6	10760.1	10522.7	10121.5	9736.4	9659.4
47.5°	10275.6	10185.7	10205.0	10712.0	11231.9	11581.7	11456.5	11167.7	10699.2	10288.4	10195.3
50°	10920.6	10817.9	10846.8	11379.5	11941.1	12271.6	12079.1	11652.3	11135.6	10734.5	10654.2
52.5°	11562.4	11440.5	11514.3	12018.1	12598.9	12862.1	12505.9	11989.2	11488.6	11090.7	11000.8
55°	12300.5	12172.1	12091.9	12631.0	13205.5	13314.6	12826.8	12223.5	11629.8	11177.3	11122.8
57.5°	12974.4	12865.3	12714.5	13253.6	13677.2	13597.0	13073.9	12159.3	11286.4	10705.6	10628.6
60°	13577.7	13484.7	13353.1	13812.0	14004.5	13824.8	12874.9	11398.7	10439.2	9832.7	9797.4
62.5°	14132.9	14033.4	13911.5	14303.0	14277.3	13860.1	11970.0	10230.6	8947.0	8295.5	8237.8
65°	14572.5	14482.7	14447.4	14755.5	14713.7	13170.2	10561.2	8318.0	6536.9	5802.1	5779.6
67.5°	14697.7	14662.4	14851.7	15374.8	14723.4	11783.8	8282.7	5516.5	3510.8	2814.4	2772.7
70°	14229.2	14226.0	14768.3	15516.0	13388.4	9001.5	4887.5	2487.1	1765.0	1566.0	1540.4
72.5°	13619.4	13609.8	14039.8	13385.2	9929.0	4926.0	2057.0	1331.8	1103.9	1049.4	1049.4
75°	12618.2	12592.5	12916.6	10182.5	5583.8	1854.9	1091.1	914.6	866.5	856.8	856.8
77.5°	10285.2	10070.2	9559.9	6293.1	1947.9	911.4	722.0	718.8	690.0	686.7	686.7
80°	3382.4	3382.4	3931.2	2400.4	860.0	561.6	510.2	535.9	507.0	487.8	484.6
82.5°	552.0	760.6	1081.5	686.7	465.3	349.8	314.5	333.7	349.8	279.2	279.2
85°	218.2	285.6	417.2	320.9	215.0	141.2	150.8	166.9	147.6	128.4	125.2
87.5°	83.4	102.7	147.6	77.0	44.9	25.7	16.0	16.0	12.8	12.8	12.8
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)