

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: P641239

Luminaire Tested: GWS-SA5F-740-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-740-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34798.2 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

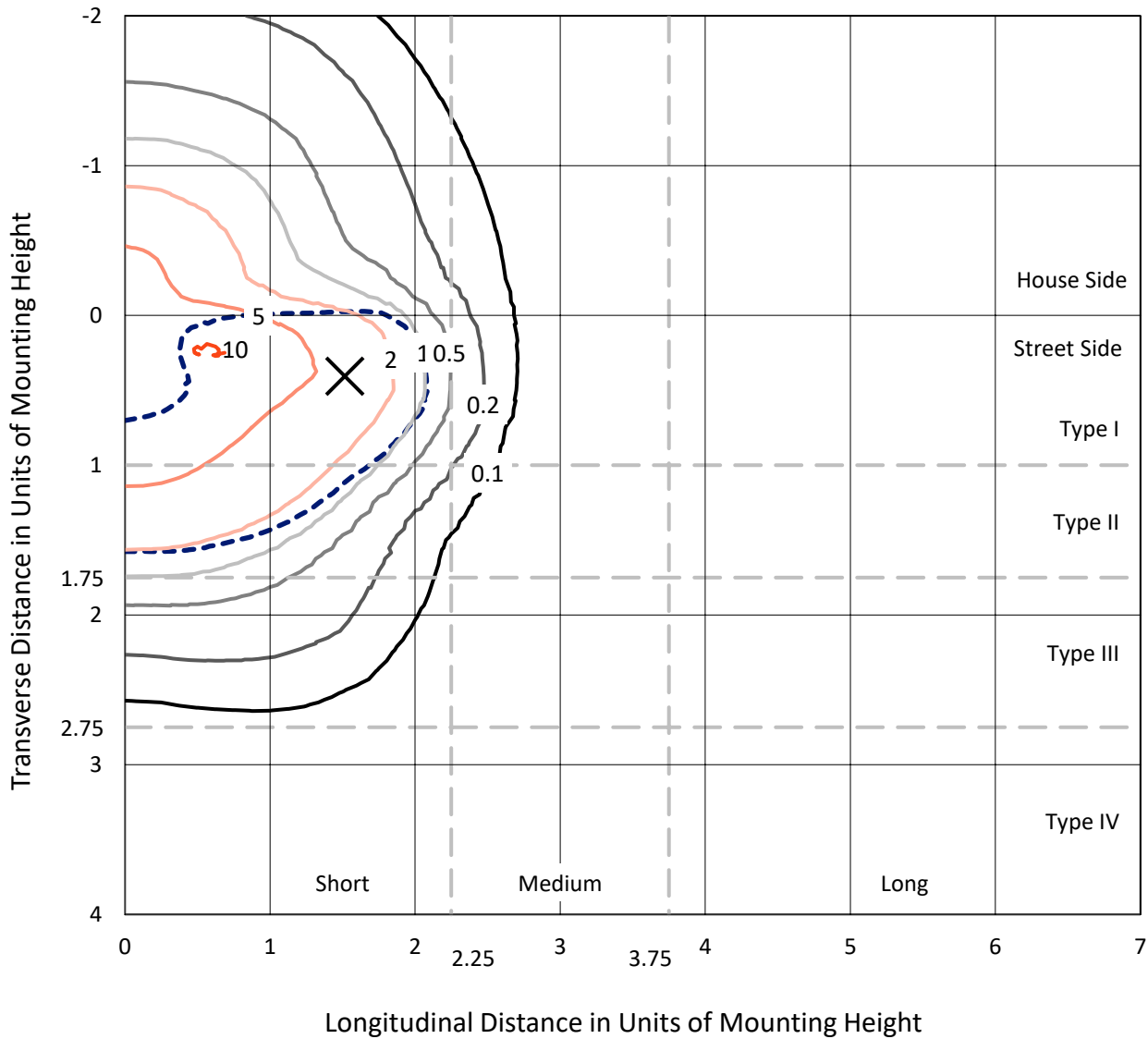
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

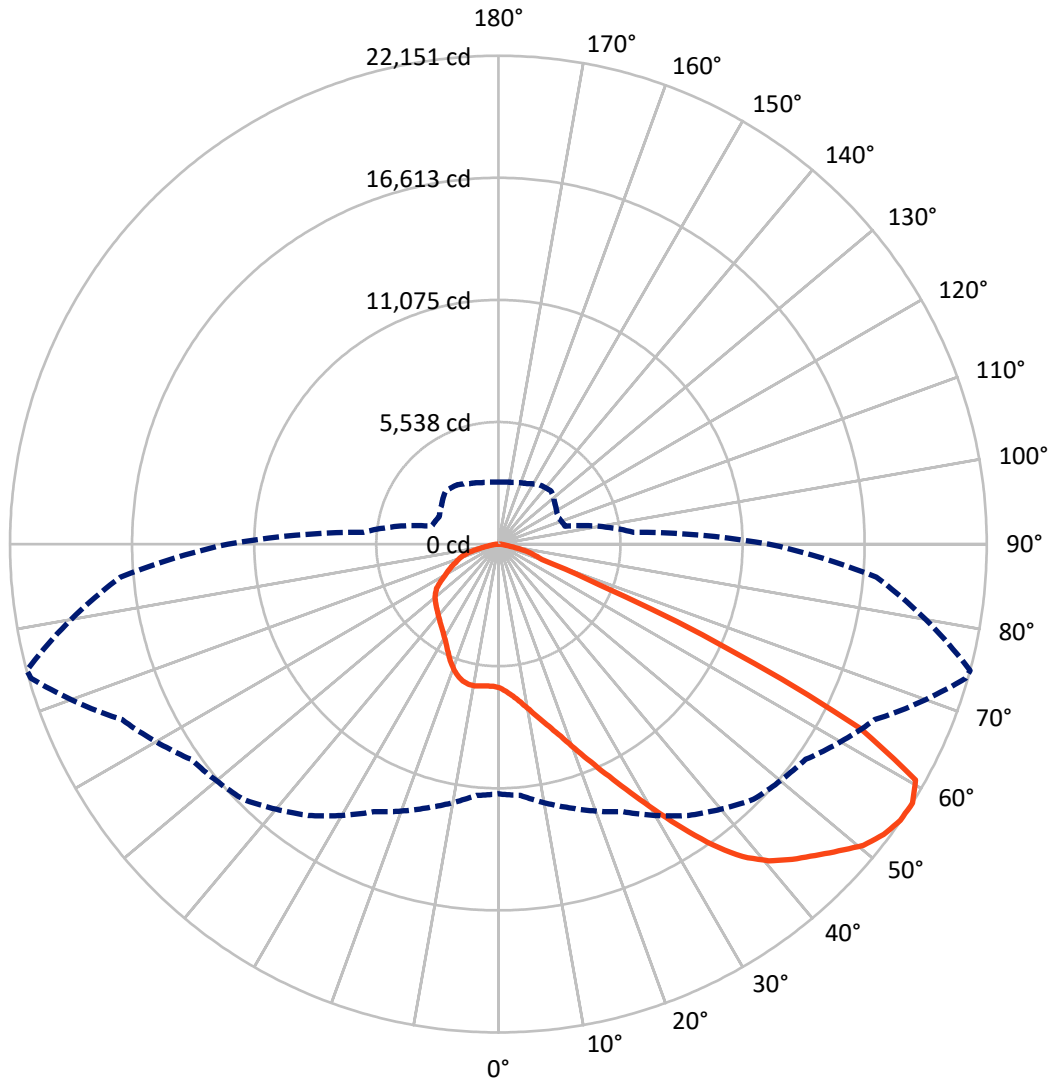
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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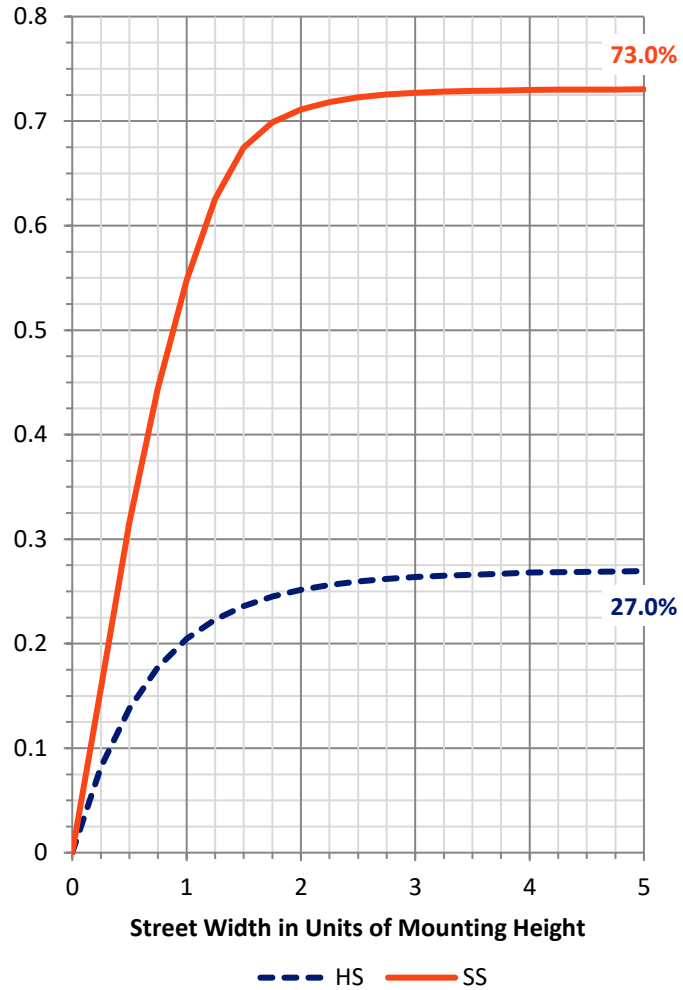
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9413.6	0.0	9413.6
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	25384.6	0.0	25384.6
	% Fixture	72.9	0.0	72.9
Total	Lumens	34798.2	0.0	34798.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	652.1	1.9
10°-20°	2076.3	6.0
20°-30°	3682.2	10.6
30°-40°	5636.9	16.2
40°-50°	7848.8	22.6
50°-60°	8993.3	25.8
60°-70°	4620.9	13.3
70°-80°	1163.3	3.3
80°-90°	124.4	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°	34798.2	100.0
0°-180°	34798.2	100.0

Coefficient of Utilization



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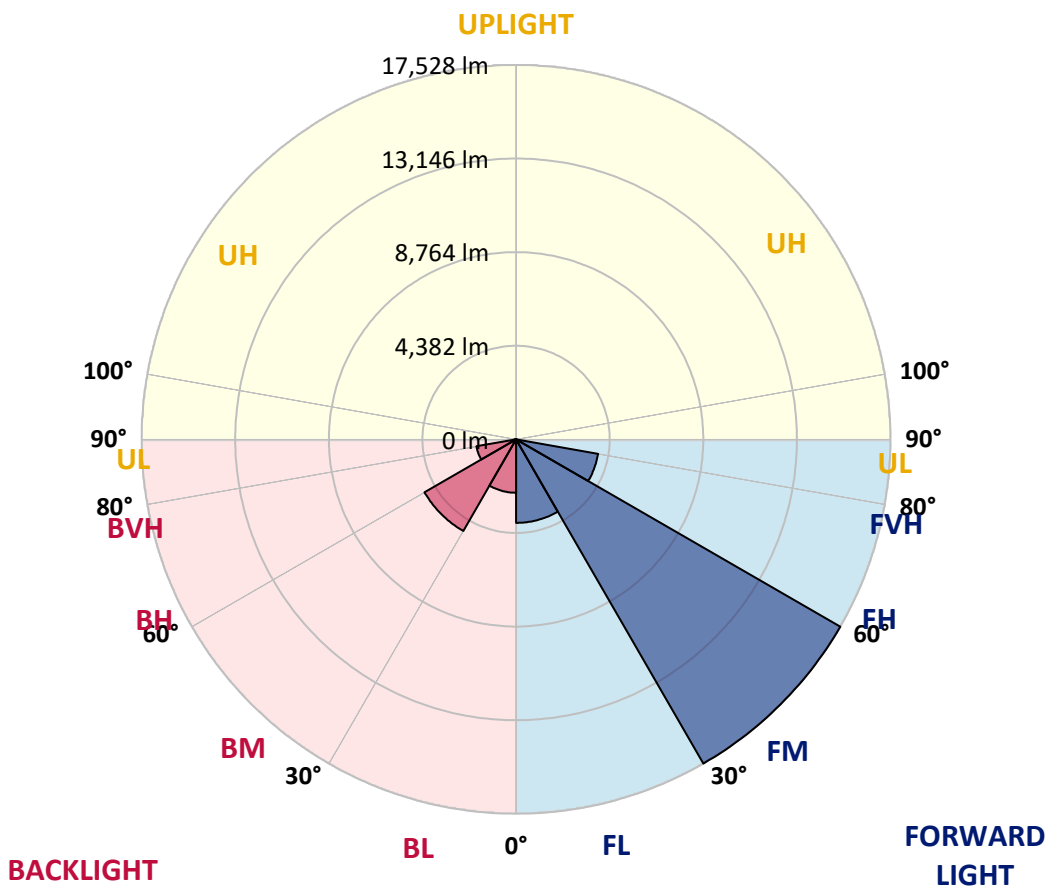
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3909.8	11.2			
FM (30°-60°)	17528.3	50.4			
FH (60°-80°)	3900.5	11.2			G2/5000
FVH (80°-90°)	46.0	0.1			G1/100
BL (0°-30°)	2500.8	7.2	B4/5000		
BM (30°-60°)	4950.7	14.2	B3/5000		
BH (60°-80°)	1883.7	5.4	B3/2500		G3/2500
BVH (80°-90°)	78.3	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°	55°	65°	74°	75°	85°
0°	6516.9	6516.9	6516.9	6516.9	6516.9	6516.9	6516.9	6516.9	6516.9	6516.9	6516.9
2.5°	7001.6	7019.5	7001.6	7031.5	6971.7	6944.7	6878.9	6780.2	6702.4	6690.4	6603.6
5°	7546.2	7585.1	7561.1	7549.2	7468.4	7408.5	7309.8	7112.3	6950.7	6926.8	6756.2
7.5°	7896.2	7923.2	7923.2	7932.1	7902.2	7833.4	7728.7	7495.3	7267.9	7232.0	6974.7
10°	8012.9	8033.9	8072.8	8147.6	8207.4	8228.4	8159.5	7935.1	7656.9	7621.0	7261.9
12.5°	8039.9	8063.8	8123.6	8261.3	8425.8	8575.5	8587.4	8422.9	8111.7	8072.8	7594.0
15°	8090.7	8114.7	8195.5	8366.0	8608.4	8895.6	9072.1	8958.4	8614.4	8572.5	7971.0
17.5°	8084.7	8111.7	8231.4	8458.8	8784.9	9200.8	9541.9	9589.8	9233.7	9161.9	8398.9
20°	8069.8	8093.7	8222.4	8500.7	8904.6	9476.1	10092.5	10340.8	9957.8	9892.0	8898.6
22.5°	8189.5	8216.4	8315.1	8545.5	8967.4	9688.5	10601.1	11199.6	10816.6	10723.8	9473.1
25°	8458.8	8497.7	8557.5	8716.1	9081.1	9877.0	11121.8	12172.0	11780.0	11669.3	10098.5
27.5°	8874.7	8922.5	9006.3	9081.1	9335.5	10116.4	11639.4	13261.1	12869.2	12752.5	10759.7
30°	9383.3	9446.2	9553.9	9604.7	9778.3	10469.5	12201.9	14383.2	14155.8	13994.2	11504.8
32.5°	10086.5	10173.3	10275.0	10289.9	10394.7	11005.1	12758.5	15496.3	15493.3	15379.6	12351.5
35°	11002.1	11094.8	11115.8	11136.7	11187.6	11741.1	13431.7	16510.6	16902.6	16770.9	13273.1
37.5°	12001.4	12136.1	12169.0	12076.3	12148.1	12626.8	14188.7	17324.5	18129.3	17988.7	14164.8
40°	13069.6	13123.5	13213.3	13066.6	13156.4	13641.1	14930.7	17845.1	19044.9	18895.3	14867.9
42.5°	13835.6	13934.4	14069.0	14015.2	14066.0	14508.9	15451.4	18096.4	19697.2	19547.6	15373.6
45°	14667.4	14697.4	14784.1	14772.2	14802.1	15215.0	15825.4	18207.1	20280.7	20146.0	15804.5
47.5°	15391.5	15436.4	15493.3	15427.4	15361.6	15630.9	16130.6	18302.9	20953.9	20792.3	16256.3
50°	16088.7	16127.6	16196.4	16004.9	15759.6	15828.4	16280.2	18434.5	21585.3	21471.6	16612.3
52.5°	16217.4	16259.3	16582.4	16621.3	16307.1	16064.8	16543.5	18724.8	21956.3	21884.5	16741.0
55°	14598.6	14673.4	15316.7	16055.8	16830.8	16753.0	16965.4	18877.4	22102.9	22120.8	16971.4
57.5°	11331.2	11438.9	12378.5	13392.8	15023.5	16373.0	17019.3	18838.5	22052.0	22150.8	17207.8
60°	7432.5	7495.3	8608.4	9745.4	11435.9	13303.0	15233.0	18138.3	21600.2	21740.8	17147.9
62.5°	4488.2	4560.0	5454.7	6316.4	7312.8	8560.5	10331.8	14577.7	18105.4	18419.6	13733.9
65°	3132.8	3228.5	4012.5	4721.6	5065.7	4808.4	5233.2	8141.6	11280.3	11412.0	8392.9
67.5°	2271.0	2336.9	2980.2	3823.9	4203.9	3396.1	2588.2	3605.5	4913.1	4961.0	3461.9
70°	1487.1	1561.9	2145.4	2911.3	3432.0	2752.8	1935.9	1950.9	2067.6	2091.5	2010.7
72.5°	816.9	861.7	1325.5	1932.9	2028.7	1645.7	1511.0	1621.7	1702.5	1702.5	1723.5
75°	421.9	460.8	541.6	637.3	769.0	900.6	1089.1	1253.7	1340.5	1346.5	1337.5
77.5°	215.4	230.4	290.2	314.2	344.1	400.9	520.6	667.2	745.0	775.0	769.0
80°	101.7	107.7	122.7	143.6	176.5	224.4	281.3	335.1	383.0	389.0	421.9
82.5°	53.9	59.8	65.8	77.8	95.7	119.7	164.6	197.5	227.4	233.4	260.3
85°	20.9	23.9	26.9	29.9	41.9	50.9	68.8	92.8	113.7	113.7	134.6
87.5°	0.0	0.0	0.0	0.0	3.0	6.0	12.0	15.0	20.9	20.9	35.9
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°	6516.9	6516.9	6516.9	6516.9	6516.9	6516.9	6516.9	6516.9	6516.9	6516.9	6516.9
2.5°	6582.7	6495.9	6457.0	6394.2	6343.3	6286.5	6241.6	6208.7	6187.7	6175.8	6163.8
5°	6690.4	6558.8	6454.0	6328.4	6241.6	6157.8	6089.0	6041.1	6017.2	5999.2	5987.3
7.5°	6858.0	6681.4	6484.0	6289.5	6136.9	6002.2	5915.4	5864.6	5831.7	5819.7	5810.7
10°	7088.4	6843.0	6516.9	6208.7	5981.3	5834.7	5774.8	5750.9	5753.9	5747.9	5744.9
12.5°	7348.7	7013.6	6507.9	6065.1	5813.7	5726.9	5729.9	5768.8	5813.7	5825.7	5828.7
15°	7629.9	7181.1	6421.1	5879.5	5682.1	5691.0	5768.8	5861.6	5945.4	5978.3	5984.3
17.5°	7935.1	7321.8	6262.5	5676.1	5574.3	5670.1	5813.7	5966.3	6089.0	6142.9	6157.8
20°	8276.2	7441.4	6038.1	5475.6	5472.6	5631.2	5840.6	6041.1	6196.7	6268.5	6280.5
22.5°	8638.3	7516.2	5762.8	5290.1	5367.9	5580.3	5819.7	6029.1	6193.7	6265.5	6280.5
25°	9003.3	7540.2	5460.6	5119.5	5260.2	5499.5	5718.0	5885.5	6041.1	6104.0	6115.9
27.5°	9344.4	7471.4	5173.4	4972.9	5161.4	5379.9	5526.5	5616.2	5724.0	5771.8	5780.8
30°	9691.5	7333.7	4931.0	4856.2	5050.7	5215.3	5281.1	5287.1	5329.0	5329.0	5335.0
32.5°	10041.6	7130.3	4718.6	4742.5	4913.1	5020.8	5029.8	4961.0	4910.1	4826.3	4823.3
35°	10445.5	6923.8	4545.1	4613.9	4751.5	4817.3	4790.4	4658.8	4536.1	4398.4	4392.5
37.5°	10819.6	6711.4	4398.4	4482.2	4569.0	4616.9	4554.0	4395.4	4293.7	4153.1	4132.1
40°	11127.7	6519.9	4257.8	4344.6	4386.5	4428.4	4326.6	4198.0	4212.9	4135.1	4132.1
42.5°	11307.3	6334.3	4126.2	4192.0	4218.9	4248.8	4159.1	4063.3	4144.1	4084.3	4087.3
45°	11438.9	6172.8	4006.5	4030.4	4096.2	4141.1	4057.3	3949.6	3967.6	3737.2	3683.3
47.5°	11588.5	6083.0	3892.8	3868.8	3985.5	4063.3	3934.7	3779.1	3671.3	3443.9	3423.0
50°	11747.1	6050.1	3773.1	3707.3	3847.9	3922.7	3773.1	3578.6	3438.0	3315.3	3303.3
52.5°	11801.0	6047.1	3623.5	3512.8	3653.4	3758.1	3632.5	3435.0	3267.4	3147.7	3141.7
55°	12013.4	6133.9	3432.0	3246.5	3378.1	3593.6	3500.8	3216.5	3081.9	3028.0	3022.1
57.5°	12261.8	6148.8	3129.8	2956.2	3138.7	3393.1	3276.4	3031.0	2884.4	2818.6	2812.6
60°	12160.0	5780.8	2806.6	2734.8	2935.3	3204.6	3096.9	2884.4	2713.9	2651.0	2645.0
62.5°	9266.6	4081.3	2570.2	2543.3	2716.9	2932.3	2911.3	2689.9	2528.4	2483.5	2477.5
65°	5574.3	2866.5	2342.8	2339.8	2462.5	2669.0	2695.9	2516.4	2345.8	2283.0	2283.0
67.5°	2755.8	2193.2	2085.5	2070.6	2148.4	2295.0	2408.7	2262.1	2118.4	2058.6	2049.6
70°	1947.9	1932.9	1897.0	1855.1	1870.1	1929.9	1977.8	1855.1	1702.5	1642.7	1630.7
72.5°	1684.6	1687.6	1663.6	1630.7	1618.7	1576.9	1535.0	1445.2	1352.4	1289.6	1295.6
75°	1307.6	1313.5	1328.5	1316.5	1283.6	1238.7	1193.9	1080.2	1005.4	945.5	933.5
77.5°	763.0	792.9	840.8	828.8	834.8	772.0	754.0	643.3	574.5	532.6	523.6
80°	430.9	448.8	469.8	484.7	466.8	439.8	400.9	341.1	320.2	290.2	284.3
82.5°	260.3	278.3	287.2	299.2	293.2	257.3	227.4	188.5	170.6	155.6	152.6
85°	131.7	143.6	152.6	158.6	140.6	116.7	104.7	83.8	71.8	62.8	62.8
87.5°	32.9	35.9	41.9	35.9	32.9	15.0	12.0	3.0	0.0	0.0	0.0
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)