

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: P641306

Luminaire Tested: GWS-SA5F-750-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641306
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-750-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37432 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

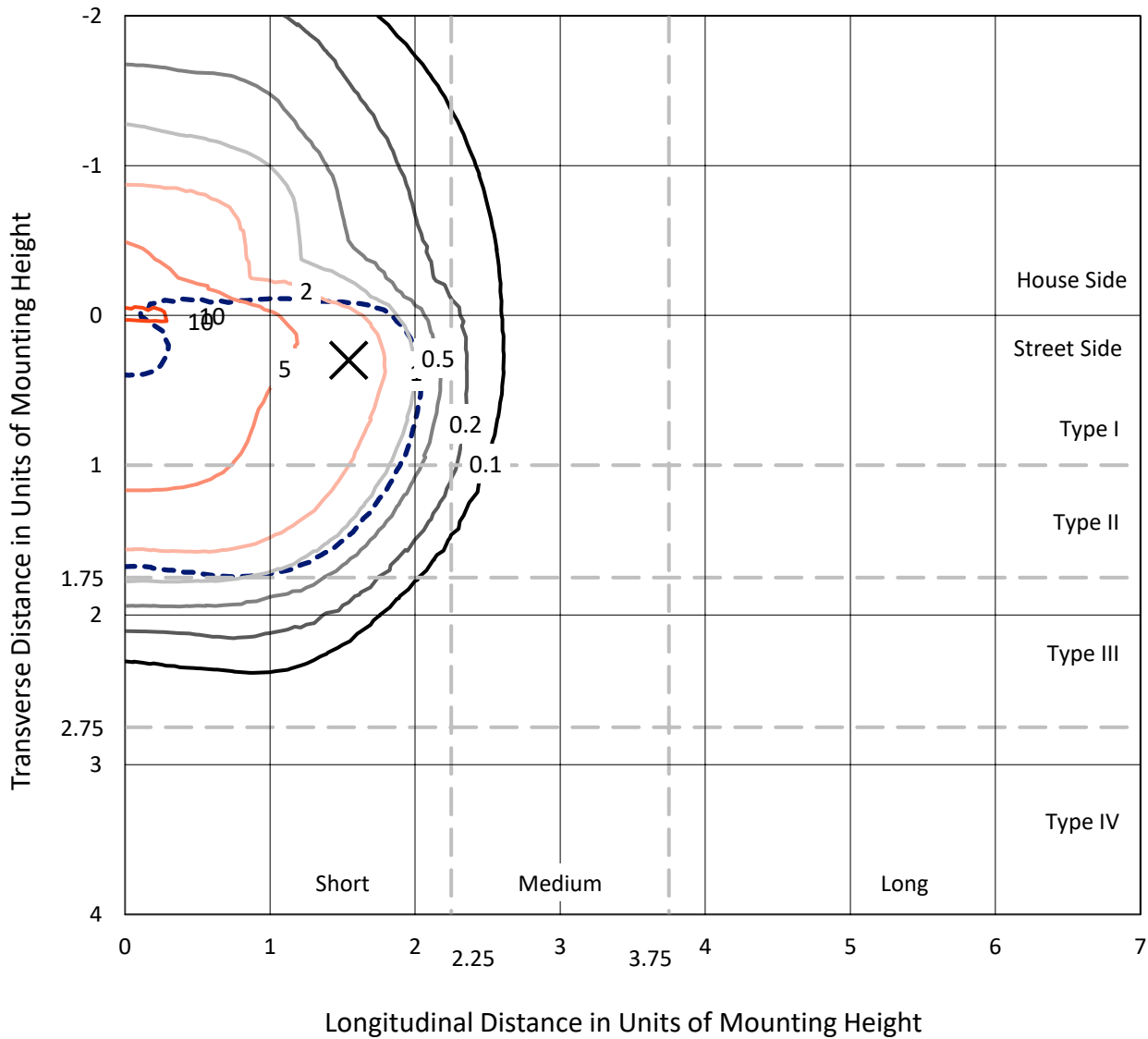
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

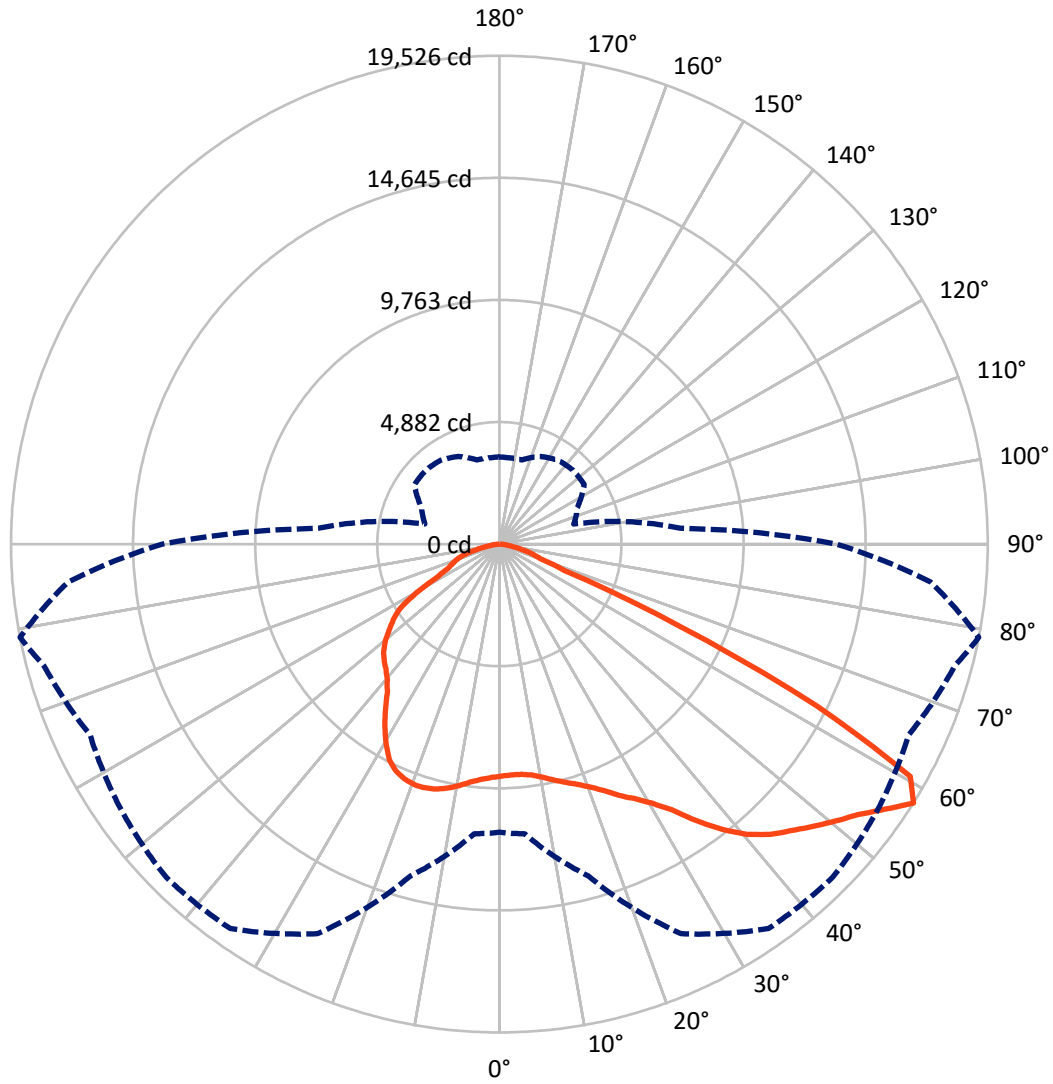
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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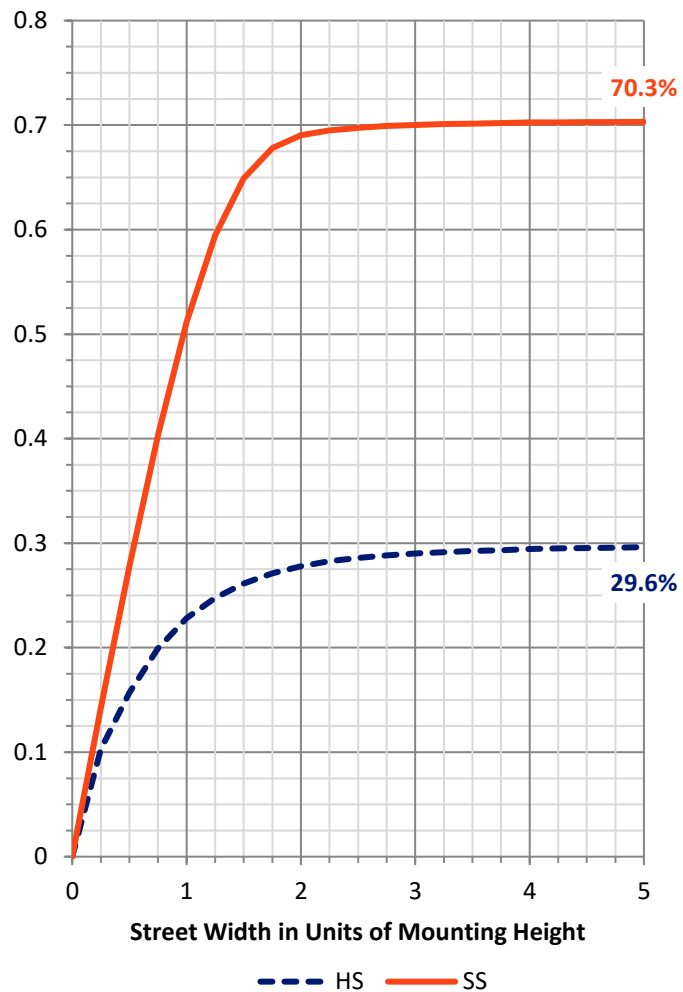
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11126.8	0.0	11126.8
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	26305.2	0.0	26305.2
	% Fixture	70.3	0.0	70.3
Total	Lumens	37432.0	0.0	37432.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	859.1	2.3
10°-20°	2387.4	6.4
20°-30°	4046.8	10.8
30°-40°	6194.1	16.5
40°-50°	8259.2	22.1
50°-60°	9538.7	25.5
60°-70°	4956.7	13.2
70°-80°	1053.7	2.8
80°-90°	136.5	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°	37432.0	100.0
0°-180°	37432.0	100.0

Coefficient of Utilization



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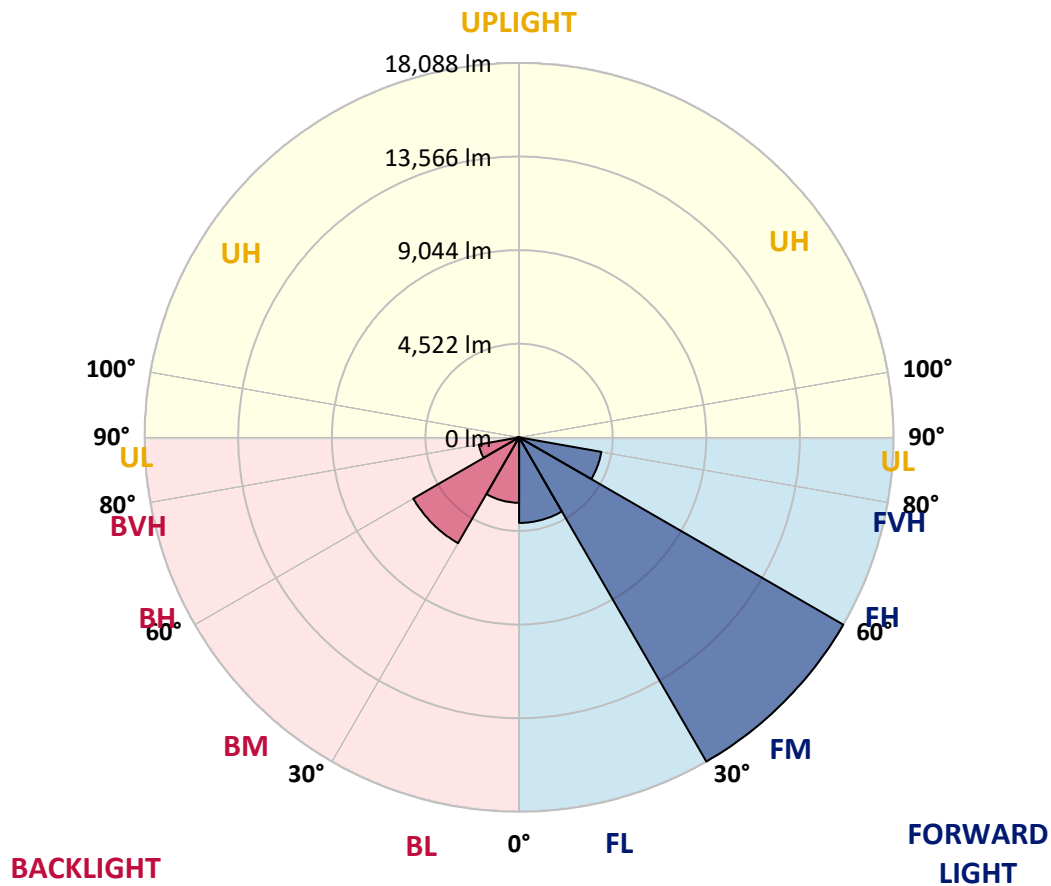
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4133.3	11.0			
FM (30°-60°)	18088.2	48.3			
FH (60°-80°)	4036.1	10.8			G2/5000
FVH (80°-90°)	47.6	0.1			G1/100
BL (0°-30°)	3159.9	8.4	B4/5000		
BM (30°-60°)	5903.8	15.8	B4/8500		
BH (60°-80°)	1974.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	88.9	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°	75°	79°	85°
0°	9276.5	9276.5	9276.5	9276.5	9276.5	9276.5	9276.5	9276.5	9276.5	9276.5	9276.5
2.5°	8854.2	8835.8	8841.9	8866.4	8958.2	9025.6	9095.9	9160.2	9221.4	9239.8	9255.1
5°	8538.9	8505.3	8514.4	8554.2	8661.3	8774.6	8900.1	9053.1	9200.0	9249.0	9313.2
7.5°	8315.5	8309.4	8324.7	8385.9	8499.1	8606.3	8768.5	8985.8	9239.8	9322.4	9435.7
10°	8018.6	8006.4	8067.6	8193.1	8379.8	8551.2	8744.0	9001.1	9356.1	9478.5	9653.0
12.5°	7783.0	7776.8	7841.1	8015.6	8254.3	8526.7	8792.9	9080.6	9512.2	9680.5	9894.7
15°	7920.7	7893.1	7896.2	8018.6	8232.9	8554.2	8915.4	9224.5	9668.3	9882.5	10158.0
17.5°	8321.6	8272.7	8235.9	8257.4	8379.8	8713.4	9102.1	9417.3	9848.8	10099.8	10436.5
20°	8875.6	8848.0	8747.0	8679.7	8707.3	9001.1	9395.9	9689.7	10084.5	10366.1	10727.2
22.5°	9619.3	9552.0	9414.2	9307.1	9224.5	9454.0	9818.2	10072.3	10412.0	10705.8	11082.2
25°	10540.5	10442.6	10225.3	10057.0	9879.4	10115.1	10439.5	10632.3	10861.9	11134.3	11492.4
27.5°	11480.1	11397.5	11155.7	10929.2	10708.9	10855.8	11241.4	11351.6	11327.1	11526.0	11832.1
30°	12480.9	12376.8	12147.3	11902.5	11617.8	11712.7	12058.6	12113.6	11853.5	12018.8	12226.9
32.5°	13536.8	13435.8	13236.9	12952.2	12630.9	12667.6	12762.5	12814.5	12566.6	12661.5	12820.6
35°	14611.0	14516.2	14314.2	14032.6	13796.9	13573.5	13334.8	13542.9	13399.1	13582.7	13570.5
37.5°	15593.5	15498.6	15373.1	15155.8	14751.8	14311.1	13760.2	14017.3	14240.7	14473.3	14433.5
40°	16257.6	16193.3	16224.0	16190.3	15670.0	14797.7	13968.3	14249.9	14859.0	15256.8	15235.4
42.5°	16829.9	16765.7	16943.2	17071.7	16459.6	15247.6	14069.3	14338.7	15253.8	15875.1	15844.4
45°	17084.0	17065.6	17359.4	17766.5	17181.9	15725.1	14329.5	14522.3	15553.7	16349.4	16233.1
47.5°	16781.0	16845.2	17423.7	18112.3	17781.8	16291.3	14862.0	14911.0	15945.4	16863.6	16536.1
50°	16178.0	16318.8	17099.3	18121.5	18219.4	16930.9	15599.6	15477.2	16471.9	17411.4	16695.3
52.5°	15299.7	15446.6	16719.8	18051.1	18470.4	17671.6	16582.0	16407.6	17136.0	17959.3	16722.8
55°	13282.8	13481.7	15850.6	17892.0	18715.2	18344.9	17690.0	17334.9	17993.0	18712.2	16995.2
57.5°	11523.0	11627.0	13732.7	17185.0	18764.2	18840.7	18479.6	18057.2	18843.8	19526.3	17301.3
60°	8456.3	8480.8	10375.3	14219.3	17261.5	18553.0	18415.3	17787.9	18439.8	18874.4	15899.5
62.5°	4777.5	4780.6	6292.5	9490.8	12894.1	15122.2	15207.9	14653.9	14106.1	14234.6	11066.9
65°	1793.5	1961.8	2873.9	4664.3	7434.1	8927.6	9282.6	9411.2	8499.1	7932.9	5934.4
67.5°	1199.7	1239.5	1677.2	2399.5	3308.5	3819.6	4272.5	4284.8	3134.0	2794.3	2338.3
70°	915.1	954.9	1319.1	1717.0	1677.2	1548.6	1674.1	1628.2	1683.3	1729.2	1778.2
72.5°	682.5	722.3	1022.2	1212.0	1006.9	991.6	1123.2	1248.7	1365.0	1414.0	1490.5
75°	453.0	483.6	688.6	648.8	557.0	658.0	820.2	945.7	1013.0	1071.2	1129.3
77.5°	287.7	309.1	367.3	296.9	309.1	385.6	477.4	590.7	655.0	713.1	743.7
80°	131.6	128.5	125.5	140.8	174.5	226.5	287.7	355.0	404.0	428.5	446.8
82.5°	52.0	58.2	64.3	76.5	94.9	122.4	162.2	208.1	247.9	254.0	269.3
85°	21.4	24.5	27.5	33.7	42.8	55.1	67.3	94.9	119.4	128.5	137.7
87.5°	0.0	0.0	0.0	0.0	3.1	6.1	9.2	15.3	27.5	30.6	33.7
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°	9276.5	9276.5	9276.5	9276.5	9276.5	9276.5	9276.5	9276.5	9276.5	9276.5	9276.5
2.5°	9337.7	9297.9	9365.3	9411.2	9454.0	9408.1	9392.8	9353.0	9346.9	9346.9	9368.3
5°	9423.4	9395.9	9466.3	9493.8	9490.8	9389.8	9328.5	9249.0	9209.2	9209.2	9215.3
7.5°	9576.4	9561.1	9600.9	9558.1	9460.1	9255.1	9053.1	8884.8	8771.5	8713.4	8731.7
10°	9830.5	9812.1	9778.4	9619.3	9337.7	8912.3	8499.1	8193.1	8009.4	7905.4	7911.5
12.5°	10078.4	10047.8	9928.4	9576.4	8998.0	8321.6	7779.9	7437.1	7235.1	7112.7	7085.2
15°	10350.8	10271.2	10014.1	9356.1	8444.0	7599.3	7033.1	6662.8	6445.5	6372.1	6369.0
17.5°	10610.9	10470.1	10004.9	8964.3	7779.9	6843.4	6274.1	6044.6	6007.9	6041.5	6050.7
20°	10874.1	10647.6	9903.9	8422.6	6990.3	6090.5	5796.7	5891.6	6029.3	6121.1	6142.5
22.5°	11146.5	10794.5	9674.4	7724.8	6157.8	5582.4	5704.9	5913.0	6084.4	6206.8	6219.0
25°	11452.6	10932.3	9331.6	6870.9	5490.6	5441.7	5683.4	5903.8	6087.4	6228.2	6252.7
27.5°	11627.0	10935.3	8851.1	5992.5	5184.6	5386.6	5631.4	5839.5	6023.2	6176.2	6203.7
30°	11798.4	10852.7	8089.0	5279.4	5095.8	5322.3	5542.6	5735.5	5909.9	6059.9	6093.5
32.5°	12040.2	10776.2	7210.6	4869.3	5043.8	5261.1	5441.7	5613.0	5747.7	5815.0	5833.4
35°	12340.1	10678.2	6277.2	4691.8	5010.1	5212.1	5371.3	5463.1	5288.6	5251.9	5291.7
37.5°	12759.4	10586.4	5346.8	4615.3	4988.7	5193.7	5334.5	5098.9	4884.6	4798.9	4829.5
40°	13212.4	10534.4	4716.3	4554.1	4997.9	5212.1	5181.5	4832.6	4523.5	4342.9	4336.8
42.5°	13598.0	10454.8	4312.3	4514.3	5022.4	5282.5	4973.4	4596.9	4137.9	4030.7	4033.8
45°	13858.2	10252.8	4098.1	4471.5	5043.8	5297.8	4875.4	4272.5	3945.0	3877.7	3874.7
47.5°	13965.3	9885.6	3960.3	4404.1	5040.7	5172.3	4676.5	4137.9	3810.4	3792.0	3804.3
50°	13894.9	9282.6	3819.6	4272.5	4967.3	5040.7	4447.0	4018.5	3718.6	3819.6	3893.0
52.5°	13634.7	8502.2	3651.2	4092.0	4835.7	4890.8	4330.7	3945.0	3651.2	3785.9	3844.0
55°	13567.4	7868.7	3437.0	3856.3	4639.8	4624.5	4208.3	3908.3	3605.3	3553.3	3562.5
57.5°	13478.6	7250.4	3082.0	3433.9	4144.0	4168.5	4092.0	3865.5	3486.0	3470.7	3486.0
60°	11709.6	5558.0	2748.4	2962.6	3403.3	3534.9	3960.3	3785.9	3293.1	3228.9	3225.8
62.5°	7648.3	3366.6	2445.4	2583.1	2772.9	2925.9	3611.4	3556.4	3082.0	3042.2	3069.7
65°	4113.4	2399.5	2225.0	2307.7	2411.7	2528.0	2993.2	3167.7	2785.1	2644.3	2647.4
67.5°	2102.6	2041.4	2059.7	2117.9	2197.5	2255.6	2414.8	2567.8	2375.0	2255.6	2252.6
70°	1799.6	1848.6	1876.1	1909.8	1961.8	1952.6	1967.9	1995.5	1980.2	1922.0	1919.0
72.5°	1533.3	1609.8	1616.0	1622.1	1640.5	1597.6	1570.1	1524.2	1527.2	1536.4	1539.5
75°	1166.1	1239.5	1257.9	1248.7	1267.1	1212.0	1175.2	1129.3	1074.3	1065.1	1071.2
77.5°	759.0	817.2	844.7	838.6	847.8	804.9	786.6	737.6	673.3	648.8	648.8
80°	459.1	492.7	514.2	520.3	529.5	498.9	468.3	425.4	397.9	370.3	370.3
82.5°	278.5	299.9	315.2	315.2	324.4	290.8	266.3	235.7	223.4	198.9	198.9
85°	140.8	156.1	162.2	159.1	153.0	125.5	116.3	101.0	94.9	82.6	82.6
87.5°	33.7	42.8	42.8	30.6	30.6	15.3	9.2	3.1	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)