

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: P641218

Luminaire Tested: GWS-SA5F-740-U-RW-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641218  
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-SA5F-740-U-RW-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

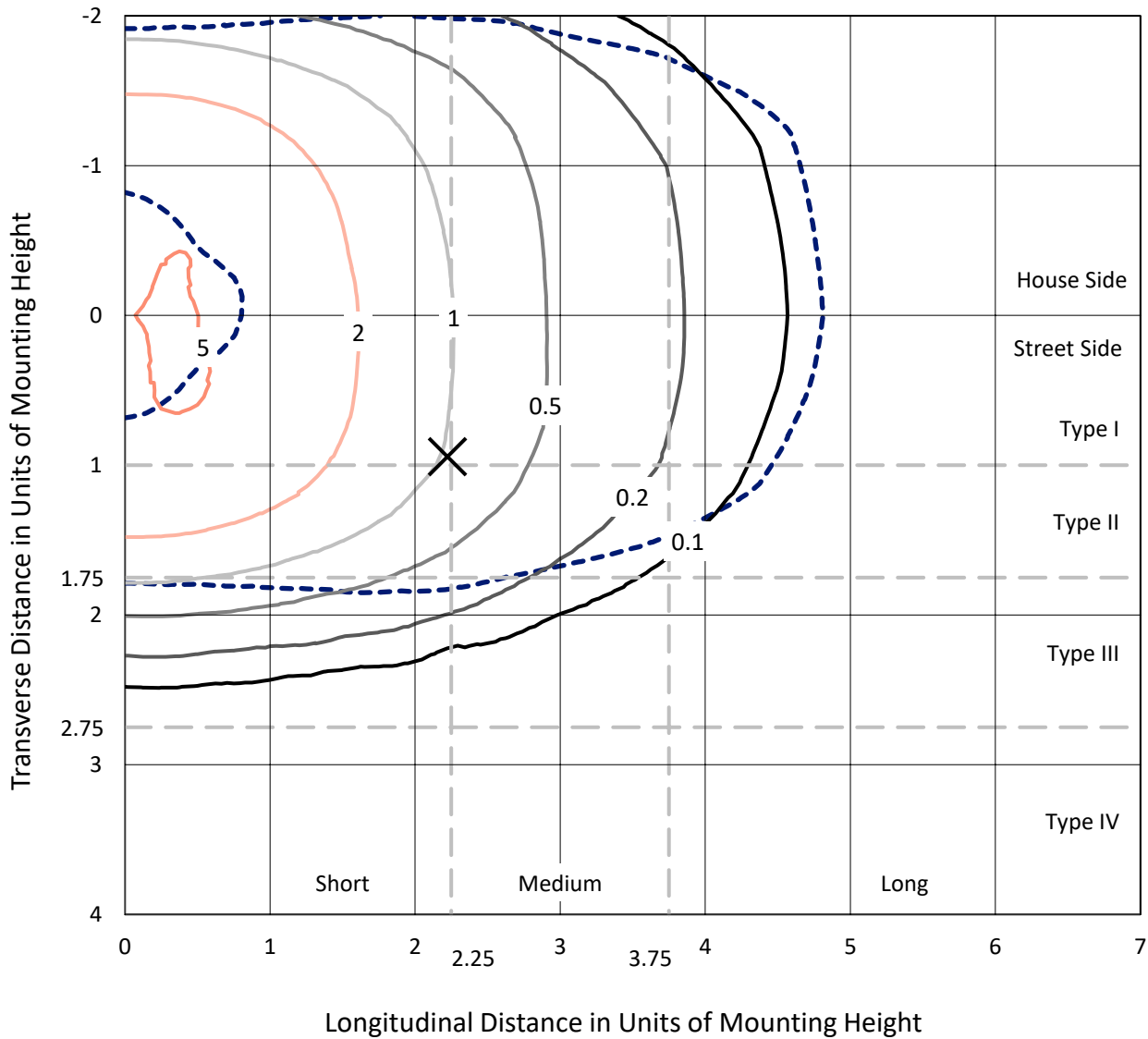
Lumens per Lamp: N/A  
Luminaire Lumens: 42966.6 lumens  
Efficiency: N/A  
Efficacy: 138.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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

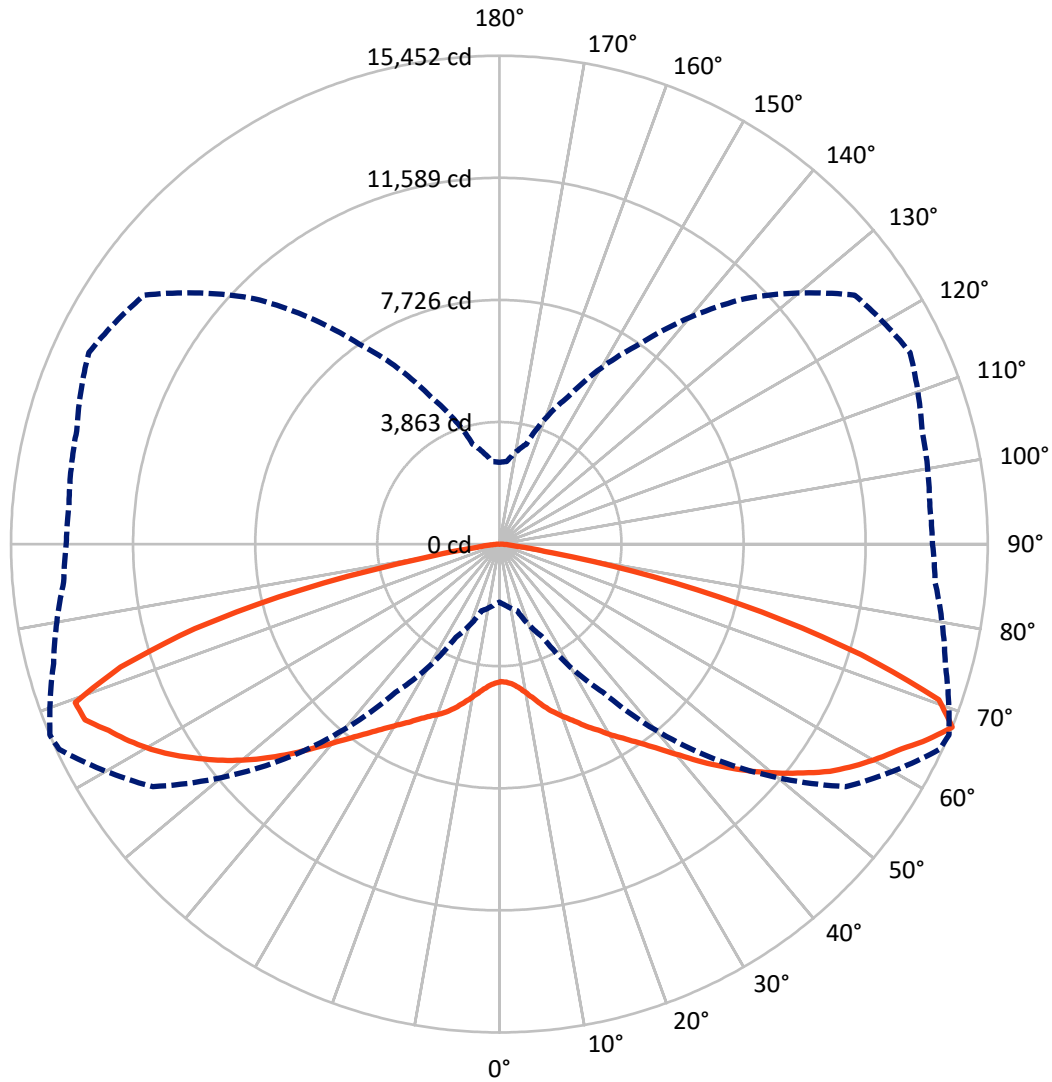
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.6 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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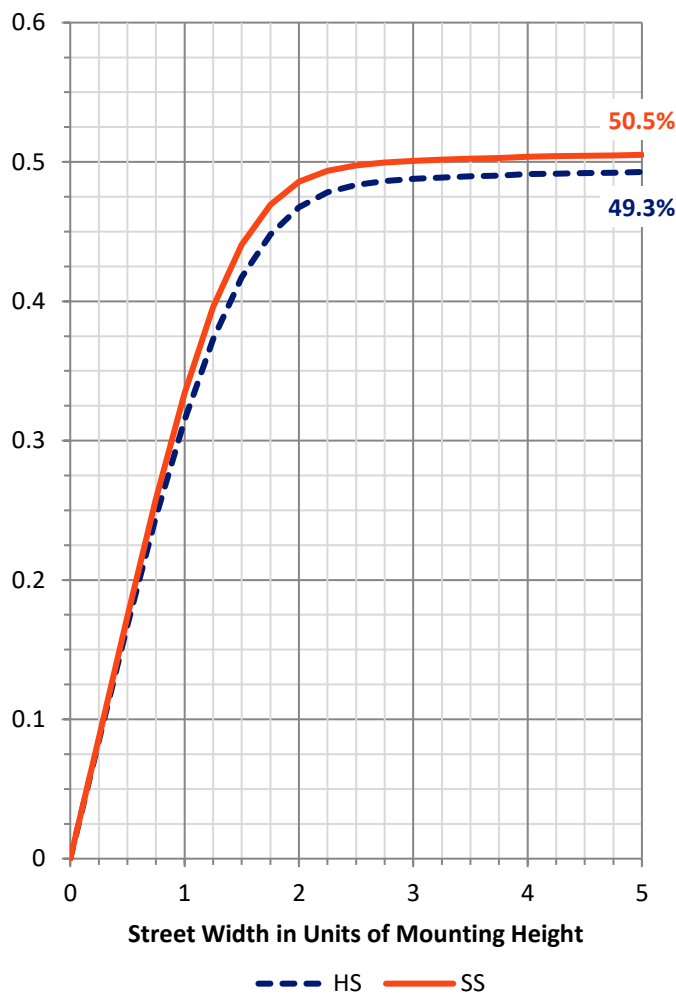
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21246.2	0.0	21246.2
	% Fixture	49.4	0.0	49.4
<b>Street Side</b>	Lumens	21720.4	0.0	21720.4
	% Fixture	50.6	0.0	50.6
<b>Total</b>	Lumens	42966.6	0.0	42966.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	426.9	1.0
10°-20°	1442.1	3.4
20°-30°	2829.3	6.6
30°-40°	4820.2	11.2
40°-50°	7740.3	18.0
50°-60°	10517.4	24.5
60°-70°	10060.6	23.4
70°-80°	4783.2	11.1
80°-90°	346.6	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°	42966.6	100.0
0°-180°	42966.6	100.0

**Coefficient of Utilization**



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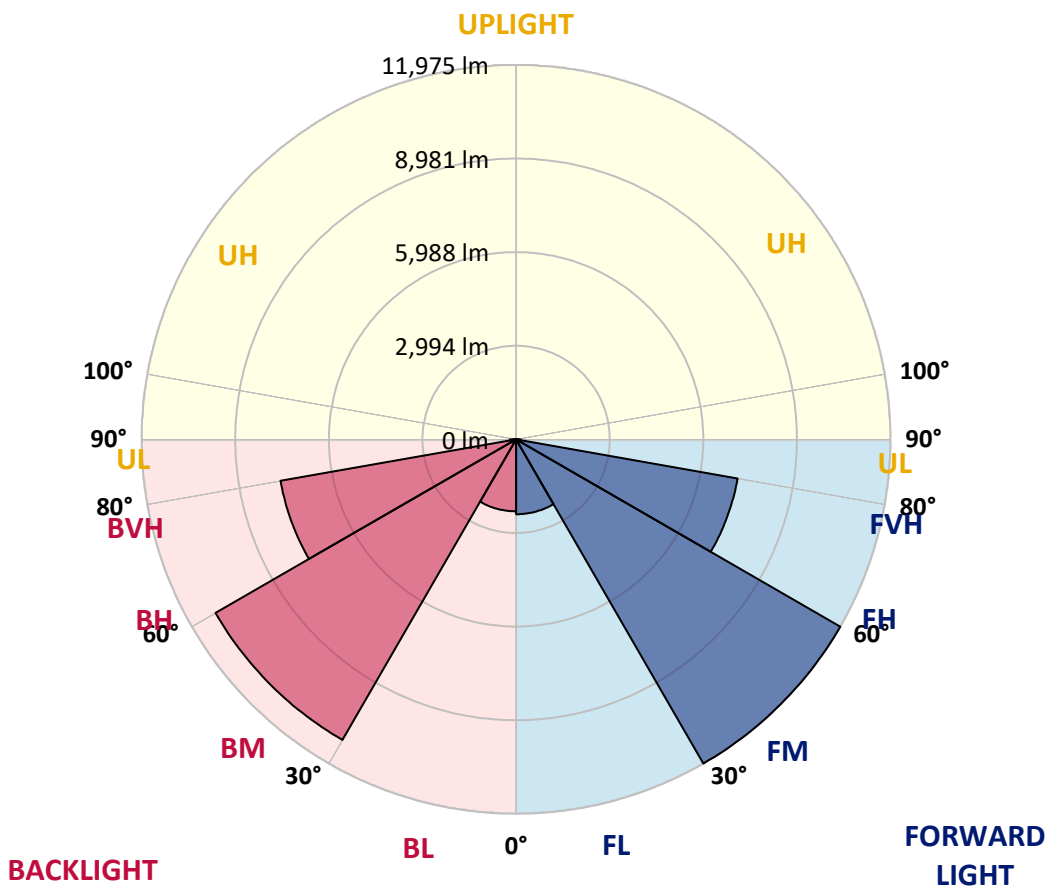
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2395.7	5.6			
FM (30°-60°)	11975.2	27.9			
FH (60°-80°)	7193.7	16.7			G3/7500
FVH (80°-90°)	155.8	0.4			G2/225
BL (0°-30°)	2302.5	5.4	B3/2500		
BM (30°-60°)	11102.8	25.8	B5		
BH (60°-80°)	7650.1	17.8	B5		G5
BVH (80°-90°)	190.8	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°	4350.6	4350.6	4350.6	4350.6	4350.6	4350.6	4350.6	4350.6	4350.6	4350.6	4350.6
2.5°	4260.8	4266.8	4275.8	4293.8	4311.7	4338.6	4365.6	4362.6	4374.5	4383.5	4392.5
5°	4236.9	4242.9	4257.9	4281.8	4308.7	4353.6	4410.5	4434.4	4452.3	4485.3	4515.2
7.5°	4287.8	4299.7	4320.7	4353.6	4395.5	4452.3	4530.1	4572.0	4599.0	4658.8	4709.7
10°	4356.6	4371.6	4413.4	4476.3	4539.1	4625.9	4724.6	4787.5	4805.4	4883.2	4979.0
12.5°	4422.4	4440.4	4509.2	4622.9	4736.6	4853.3	4970.0	5047.8	5053.8	5158.5	5266.2
15°	4527.1	4542.1	4634.9	4781.5	4955.0	5116.6	5260.2	5314.1	5338.0	5412.8	5547.5
17.5°	4757.5	4775.5	4895.2	5053.8	5236.3	5406.8	5550.5	5595.3	5595.3	5658.2	5768.9
20°	5005.9	5023.8	5182.4	5385.9	5607.3	5780.9	5891.6	5849.7	5834.7	5852.7	5930.5
22.5°	5284.2	5317.1	5469.7	5706.1	5978.3	6190.8	6247.6	6122.0	6080.1	6038.2	6056.1
25°	5640.2	5679.1	5828.7	6080.1	6346.4	6570.8	6603.7	6409.2	6385.3	6238.7	6184.8
27.5°	6050.2	6080.1	6265.6	6513.9	6762.3	6950.8	6986.7	6747.3	6666.5	6463.1	6337.4
30°	6579.8	6606.7	6768.3	7013.6	7229.1	7360.7	7405.6	7076.5	7013.6	6702.4	6508.0
32.5°	7157.3	7169.2	7333.8	7570.2	7761.7	7887.3	7824.5	7441.5	7348.8	6998.7	6732.4
35°	7818.5	7818.5	8031.0	8222.5	8375.1	8411.0	8291.3	7854.4	7746.7	7366.7	7034.6
37.5°	8467.8	8485.8	8683.3	8910.7	9045.3	9039.3	8820.9	8342.2	8219.5	7806.6	7438.5
40°	9171.0	9209.9	9407.4	9661.7	9790.4	9772.4	9437.3	8904.7	8779.0	8291.3	7932.2
42.5°	9817.3	9880.1	10110.5	10370.8	10511.5	10499.5	10149.4	9551.0	9428.3	8877.8	8518.7
45°	10331.9	10397.8	10685.0	11047.1	11271.5	11250.5	10897.5	10221.2	10071.6	9494.1	9099.2
47.5°	10783.8	10852.6	11172.7	11555.7	11911.8	11947.7	11624.6	10897.5	10738.9	10155.4	9709.6
50°	11130.9	11163.8	11522.8	11941.7	12354.6	12555.1	12273.9	11576.7	11385.2	10807.7	10305.0
52.5°	11103.9	11148.8	11591.6	12160.2	12713.7	13042.8	12848.4	12217.0	12031.5	11403.1	10912.4
55°	10556.4	10601.2	11127.9	11956.7	12914.2	13398.9	13378.0	12827.4	12692.8	12010.5	11543.8
57.5°	9757.4	9856.2	10379.8	11274.5	12650.9	13683.2	13767.0	13384.0	13243.3	12606.0	12169.1
60°	8327.2	8458.9	9063.3	10224.2	11807.1	13587.4	14182.9	13853.7	13767.0	13159.5	12734.7
62.5°	6050.2	6145.9	6950.8	8473.8	10556.4	12905.2	14532.9	14338.5	14272.6	13656.2	13246.3
65°	3623.5	3841.9	4488.2	5993.3	8515.7	11618.6	14341.4	14972.8	14904.0	14167.9	13683.2
67.5°	1834.2	1932.9	2187.3	3249.5	5727.0	9613.8	13381.0	15367.8	15451.5	14604.8	13838.8
70°	1137.0	1164.0	1235.8	1603.8	2860.5	6316.5	10942.3	14338.5	14748.4	14535.9	13434.8
72.5°	912.6	918.6	930.6	999.4	1373.4	2953.3	6917.9	11229.6	11968.7	13575.5	12857.3
75°	757.0	760.0	763.0	783.9	855.8	1205.8	3366.2	7716.8	8581.5	11537.8	11920.8
77.5°	607.4	592.4	604.4	613.4	631.3	673.2	1161.0	4117.2	4993.9	7573.2	9218.9
80°	395.0	389.0	412.9	421.9	439.8	466.8	619.4	1397.3	1696.6	2755.8	2932.3
82.5°	212.4	200.5	251.3	242.4	251.3	272.3	365.0	511.7	574.5	831.8	703.2
85°	65.8	65.8	68.8	80.8	98.7	95.7	158.6	251.3	278.3	356.1	263.3
87.5°	12.0	12.0	12.0	12.0	12.0	15.0	32.9	50.9	68.8	122.7	92.8
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°	4350.6	4350.6	4350.6	4350.6	4350.6	4350.6	4350.6	4350.6	4350.6	4350.6	4350.6
2.5°	4410.5	4383.5	4398.5	4407.5	4404.5	4398.5	4368.6	4362.6	4347.6	4323.7	4317.7
5°	4542.1	4512.2	4515.2	4506.2	4476.3	4437.4	4371.6	4338.6	4311.7	4281.8	4278.8
7.5°	4748.6	4715.7	4706.7	4664.8	4581.0	4491.2	4386.5	4326.7	4281.8	4242.9	4236.9
10°	5011.9	4979.0	4949.0	4850.3	4712.7	4593.0	4455.3	4368.6	4302.7	4254.9	4245.9
12.5°	5305.1	5278.2	5203.4	5059.8	4895.2	4754.6	4613.9	4506.2	4410.5	4338.6	4329.7
15°	5631.3	5571.4	5457.7	5272.2	5116.6	5002.9	4832.3	4685.7	4533.1	4437.4	4416.4
17.5°	5858.7	5807.8	5673.1	5493.6	5370.9	5272.2	5071.7	4862.3	4655.8	4515.2	4485.3
20°	6020.2	5966.4	5813.8	5682.1	5643.2	5559.4	5326.1	5083.7	4844.3	4670.8	4631.9
22.5°	6136.9	6080.1	5924.5	5858.7	5912.5	5897.6	5670.2	5394.9	5110.6	4904.2	4856.3
25°	6247.6	6193.8	6056.1	6080.1	6223.7	6268.6	6023.2	5703.1	5379.9	5137.5	5080.7
27.5°	6352.4	6283.5	6220.7	6352.4	6555.8	6639.6	6379.3	6017.2	5667.2	5418.8	5373.9
30°	6513.9	6433.2	6424.2	6615.7	6938.8	7010.6	6723.4	6361.3	6014.3	5762.9	5706.1
32.5°	6717.4	6642.6	6648.6	6935.8	7309.9	7369.7	7124.3	6786.2	6439.1	6187.8	6110.0
35°	6992.7	6899.9	6950.8	7303.9	7680.9	7791.6	7594.1	7312.9	6974.7	6717.4	6630.6
37.5°	7372.7	7238.0	7342.8	7713.8	8093.8	8258.4	8105.8	7896.3	7561.2	7300.9	7220.1
40°	7857.4	7746.7	7788.6	8198.5	8590.5	8788.0	8692.2	8485.8	8153.6	7881.4	7788.6
42.5°	8431.9	8321.2	8306.2	8743.1	9135.1	9434.3	9341.5	9153.0	8808.9	8497.7	8408.0
45°	8994.4	8892.7	8913.7	9359.5	9799.3	10125.5	10032.7	9811.3	9437.3	9078.2	9006.4
47.5°	9580.9	9497.1	9515.1	9987.8	10472.6	10798.7	10682.0	10412.7	9975.9	9592.9	9506.1
50°	10182.3	10086.6	10113.5	10610.2	11133.8	11442.0	11262.5	10864.6	10382.8	10008.8	9934.0
52.5°	10780.8	10667.1	10735.9	11205.7	11747.2	11992.6	11660.5	11178.7	10712.0	10340.9	10257.1
55°	11469.0	11349.3	11274.5	11777.2	12312.8	12414.5	11959.7	11397.2	10843.6	10421.7	10370.8
57.5°	12097.3	11995.6	11855.0	12357.6	12752.6	12677.8	12190.1	11337.3	10523.4	9981.9	9910.1
60°	12659.8	12573.1	12450.4	12878.3	13057.8	12890.2	12004.6	10628.2	9733.5	9168.0	9135.1
62.5°	13177.5	13084.7	12971.0	13336.1	13312.1	12923.2	11160.8	9539.0	8342.2	7734.7	7680.9
65°	13587.4	13503.6	13470.7	13758.0	13719.1	12279.8	9847.2	7755.7	6095.0	5409.8	5388.9
67.5°	13704.1	13671.2	13847.7	14335.5	13728.1	10987.2	7722.8	5143.5	3273.4	2624.1	2585.2
70°	13267.3	13264.3	13769.9	14467.1	12483.3	8393.0	4557.1	2318.9	1645.7	1460.2	1436.2
72.5°	12698.7	12689.8	13090.7	12480.3	9257.8	4593.0	1918.0	1241.7	1029.3	978.4	978.4
75°	11765.2	11741.3	12043.5	9494.1	5206.4	1729.5	1017.3	852.8	807.9	798.9	798.9
77.5°	9589.9	9389.4	8913.7	5867.6	1816.2	849.8	673.2	670.2	643.3	640.3	640.3
80°	3153.7	3153.7	3665.4	2238.1	801.9	523.6	475.8	499.7	472.8	454.8	451.8
82.5°	514.7	709.1	1008.4	640.3	433.9	326.1	293.2	311.2	326.1	260.3	260.3
85°	203.5	266.3	389.0	299.2	200.5	131.7	140.6	155.6	137.6	119.7	116.7
87.5°	77.8	95.7	137.6	71.8	41.9	23.9	15.0	15.0	12.0	12.0	12.0
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)