

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: P642977

Luminaire Tested: GWS-SA6E-722-U-RW-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642977  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-722-U-RW-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

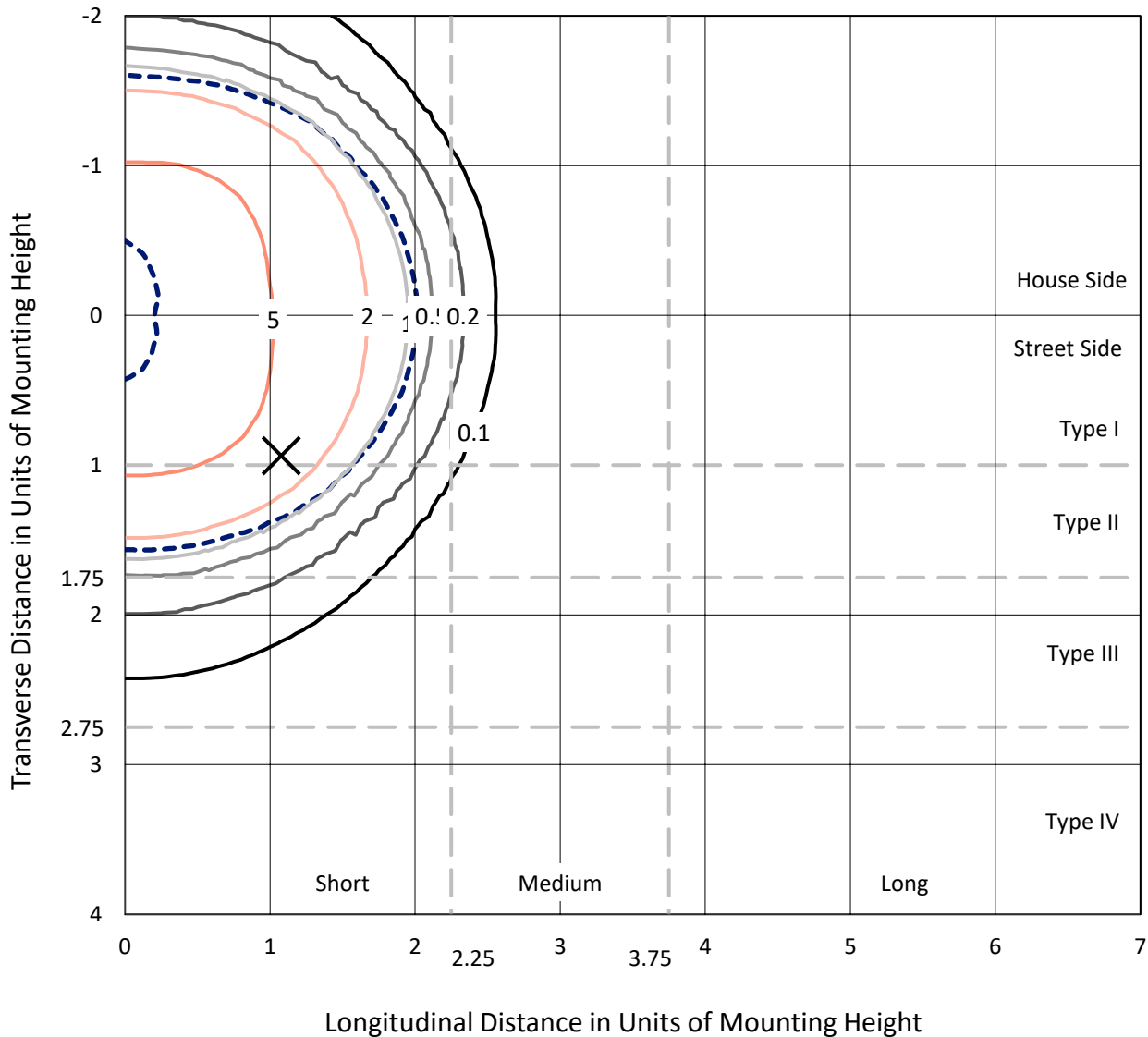
Lumens per Lamp: N/A  
Luminaire Lumens: 29067.2 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

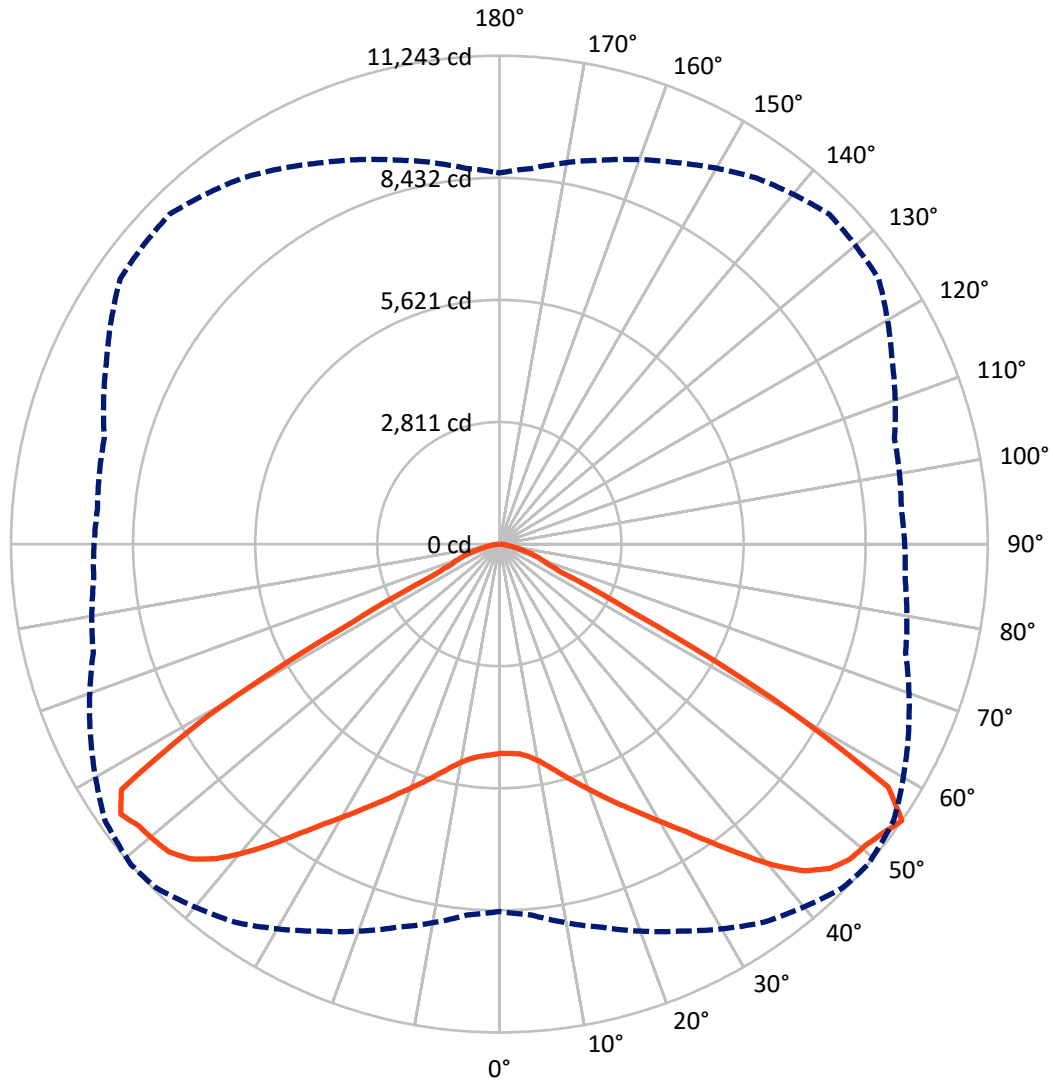
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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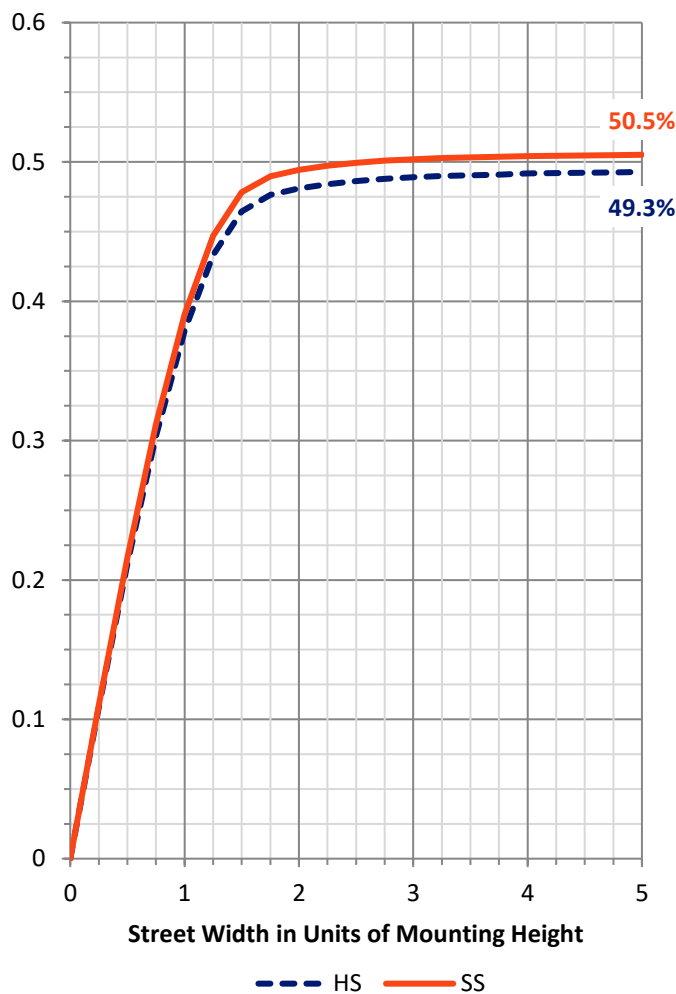
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14391.0	0.0	14391.0
	% Fixture	49.5	0.0	49.5
<b>Street Side</b>	Lumens	14676.2	0.0	14676.2
	% Fixture	50.5	0.0	50.5
<b>Total</b>	Lumens	29067.2	0.0	29067.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	469.7	1.6
10°-20°	1549.3	5.3
20°-30°	2951.0	10.2
30°-40°	5002.6	17.2
40°-50°	7528.6	25.9
50°-60°	8240.8	28.4
60°-70°	2605.8	9.0
70°-80°	625.4	2.2
80°-90°	93.9	0.3
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°	29067.2	100.0
0°-180°	29067.2	100.0

**Coefficient of Utilization**



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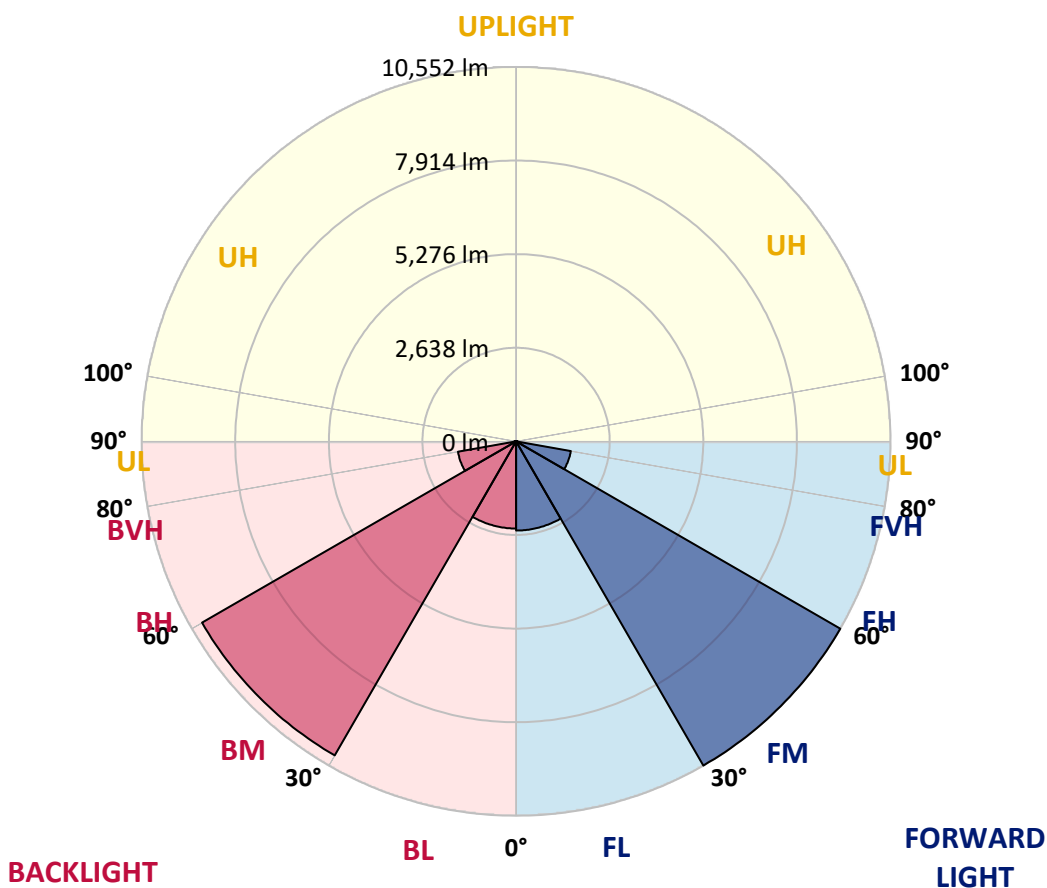
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2513.1	8.6			
FM (30°-60°)	10552.2	36.3			
FH (60°-80°)	1567.4	5.4			G1/1800
FVH (80°-90°)	43.4	0.1			G1/100
BL (0°-30°)	2457.0	8.5	B3/2500		
BM (30°-60°)	10219.9	35.2	B5		
BH (60°-80°)	1663.8	5.7	B3/2500		G1/1800
BVH (80°-90°)	50.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2
2.5°	4744.2	4749.0	4758.4	4775.0	4791.5	4815.2	4824.6	4836.4	4834.1	4848.3	4848.3
5°	4720.6	4727.7	4741.9	4765.5	4793.9	4838.8	4850.6	4879.0	4907.3	4942.8	4954.6
7.5°	4749.0	4758.4	4775.0	4812.8	4855.3	4914.4	4938.1	4985.4	5039.7	5103.5	5129.5
10°	4803.3	4815.2	4843.5	4905.0	4973.5	5063.4	5084.6	5143.7	5231.2	5318.7	5370.7
12.5°	4864.8	4883.7	4935.7	5032.6	5134.3	5252.5	5285.6	5358.8	5453.4	5566.9	5637.8
15°	4935.7	4952.3	5032.6	5169.7	5328.1	5484.1	5521.9	5592.9	5699.2	5810.3	5909.6
17.5°	5084.6	5113.0	5207.6	5365.9	5550.3	5734.7	5777.2	5857.6	5942.7	6030.2	6124.7
20°	5287.9	5311.6	5432.1	5628.3	5845.8	6013.6	6056.2	6127.1	6167.3	6212.2	6292.6
22.5°	5491.2	5524.3	5661.4	5893.1	6148.4	6330.4	6363.5	6429.7	6401.3	6387.1	6439.1
25°	5744.2	5789.1	5923.8	6176.7	6436.8	6661.3	6687.3	6744.1	6696.8	6623.5	6621.1
27.5°	6058.5	6098.7	6238.2	6498.2	6755.9	6989.9	7039.5	7115.2	7011.2	6921.3	6857.5
30°	6432.0	6458.0	6611.7	6888.3	7153.0	7375.2	7439.0	7514.7	7436.7	7287.7	7223.9
32.5°	6867.0	6902.4	7079.7	7370.5	7606.9	7829.1	7892.9	7987.4	7902.3	7734.5	7654.1
35°	7389.4	7424.8	7611.6	7928.3	8169.5	8398.8	8443.7	8521.7	8415.3	8221.5	8157.6
37.5°	7956.7	8001.6	8238.0	8538.2	8791.1	9058.3	9060.6	9084.3	8933.0	8691.9	8621.0
40°	8595.0	8654.0	8890.4	9202.5	9507.4	9724.9	9722.5	9656.3	9401.0	9027.5	8918.8
42.5°	9226.1	9273.4	9512.1	9833.6	10138.5	10344.2	10282.7	10122.0	9753.2	9245.0	9100.8
45°	9682.3	9717.8	9968.3	10330.0	10639.7	10767.3	10656.2	10462.4	9963.6	9382.1	9169.4
47.5°	9897.4	9944.7	10197.6	10556.9	10906.8	10980.1	10847.7	10665.7	10086.5	9509.8	9223.7
50°	9781.6	9843.1	10129.1	10462.4	10857.2	11008.4	10913.9	10731.9	10216.6	9635.0	9320.7
52.5°	9481.4	9540.5	9902.2	10306.4	10753.1	11053.4	11051.0	10902.1	10365.5	9670.5	9325.4
55°	8455.5	8571.3	9133.9	9831.2	10625.5	11185.7	11242.5	11084.1	10389.1	9680.0	9375.0
57.5°	5503.0	5706.3	6240.6	7148.3	8741.5	10174.0	10556.9	10594.8	10218.9	9639.8	9384.5
60°	2297.7	2460.8	2883.9	3486.7	4803.3	6507.7	7249.9	7994.5	8892.8	9219.0	9297.0
62.5°	1427.8	1441.9	1484.5	1621.6	2061.3	2893.3	3370.8	4068.2	5403.8	6540.8	7065.5
65°	1288.3	1295.4	1304.8	1295.4	1316.7	1418.3	1546.0	1789.4	2333.1	2898.1	3569.4
67.5°	1134.6	1144.1	1151.2	1144.1	1151.2	1155.9	1170.1	1191.4	1290.7	1371.0	1432.5
70°	917.2	931.4	943.2	938.4	966.8	966.8	981.0	997.5	1047.2	1106.3	1148.8
72.5°	699.7	687.9	702.1	706.8	732.8	747.0	768.3	787.2	843.9	879.4	933.7
75°	453.9	442.0	463.3	475.1	510.6	529.5	548.4	567.3	607.5	631.1	683.2
77.5°	245.8	243.5	264.8	281.3	319.1	342.8	356.9	371.1	404.2	411.3	444.4
80°	141.8	141.8	156.0	167.8	191.5	217.5	231.7	243.5	267.1	274.2	288.4
82.5°	78.0	78.0	85.1	92.2	111.1	125.3	137.1	146.6	167.8	174.9	182.0
85°	37.8	35.5	40.2	44.9	52.0	59.1	66.2	70.9	87.5	92.2	101.6
87.5°	4.7	4.7	4.7	7.1	9.5	14.2	16.5	16.5	26.0	30.7	35.5
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°	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2	4815.2
2.5°	4862.4	4831.7	4850.6	4857.7	4857.7	4850.6	4819.9	4810.4	4796.2	4775.0	4775.0
5°	4971.2	4947.5	4952.3	4940.4	4912.1	4876.6	4819.9	4791.5	4767.9	4741.9	4739.5
7.5°	5157.9	5127.2	5122.5	5077.5	5001.9	4926.3	4841.2	4789.2	4753.7	4720.6	4718.2
10°	5401.4	5373.0	5337.6	5247.7	5136.6	5025.5	4909.7	4838.8	4786.8	4739.5	4737.2
12.5°	5673.2	5640.1	5574.0	5441.6	5302.1	5193.4	5061.0	4952.3	4874.3	4810.4	4798.6
15°	5968.7	5921.4	5808.0	5652.0	5514.9	5399.0	5257.2	5101.2	4983.0	4881.3	4869.5
17.5°	6195.6	6134.2	6011.3	5864.7	5751.2	5635.4	5451.0	5254.8	5084.6	4957.0	4938.1
20°	6351.7	6302.0	6162.6	6053.8	5987.6	5886.0	5670.9	5448.7	5257.2	5096.5	5087.0
22.5°	6495.9	6436.8	6299.7	6235.8	6235.8	6167.3	5961.6	5699.2	5474.7	5287.9	5264.3
25°	6659.0	6595.1	6491.1	6484.0	6517.1	6486.4	6238.2	5956.9	5694.5	5484.1	5446.3
27.5°	6885.9	6815.0	6753.5	6796.1	6843.3	6810.2	6533.7	6207.5	5930.9	5718.1	5685.1
30°	7247.6	7160.1	7103.4	7155.4	7247.6	7150.6	6850.4	6505.3	6226.4	5992.4	5975.8
32.5°	7668.3	7569.0	7509.9	7592.7	7675.4	7524.1	7226.3	6895.3	6602.2	6356.4	6328.0
35°	8174.2	8048.9	7961.4	8072.5	8157.6	8008.7	7713.2	7398.8	7072.6	6817.3	6779.5
37.5°	8623.3	8472.0	8412.9	8568.9	8682.4	8585.5	8264.0	7968.5	7611.6	7332.7	7316.1
40°	8949.5	8800.6	8758.1	9015.7	9214.3	9190.6	8902.3	8564.2	8228.6	7907.1	7876.3
42.5°	9091.4	8987.3	8996.8	9344.3	9651.6	9802.9	9545.2	9183.5	8859.7	8526.4	8505.1
45°	9122.1	9058.3	9133.9	9568.9	9973.1	10282.7	10062.9	9760.3	9393.9	9072.4	9063.0
47.5°	9155.2	9119.7	9235.6	9696.5	10176.4	10535.7	10412.7	10100.7	9729.6	9415.2	9391.6
50°	9233.2	9219.0	9349.0	9786.3	10273.3	10604.2	10464.8	10155.1	9774.5	9464.8	9408.1
52.5°	9256.8	9233.2	9419.9	9925.8	10434.0	10601.9	10301.6	9897.4	9514.5	9169.4	9110.3
55°	9330.1	9287.6	9415.2	9977.8	10656.2	10739.0	10292.2	9687.0	9152.8	8682.4	8542.9
57.5°	9349.0	9301.7	9384.5	9892.7	10415.1	10341.8	9046.4	7817.2	6810.2	6287.8	6346.9
60°	9247.4	9261.6	9119.7	9063.0	8353.8	7375.2	5538.5	4427.5	3477.2	3075.4	3162.8
62.5°	7039.5	7098.6	6614.0	5751.2	4422.8	3505.6	2318.9	1801.3	1524.7	1453.8	1465.6
65°	3552.9	3633.2	3129.7	2588.4	1924.2	1555.4	1345.0	1302.5	1288.3	1271.8	1271.8
67.5°	1406.5	1430.1	1411.2	1321.4	1229.2	1196.1	1186.7	1181.9	1165.4	1155.9	1158.3
70°	1129.9	1148.8	1120.5	1063.7	1025.9	1023.5	1018.8	1009.4	997.5	997.5	1004.6
72.5°	921.9	940.8	900.6	865.2	836.8	815.5	803.7	796.6	780.1	780.1	787.2
75°	678.4	690.2	657.1	652.4	621.7	600.4	581.5	572.1	550.8	541.3	548.4
77.5°	451.5	449.1	432.6	432.6	420.8	394.8	373.5	352.2	323.8	304.9	309.7
80°	293.1	293.1	286.0	286.0	274.2	252.9	226.9	205.7	189.1	174.9	174.9
82.5°	186.7	184.4	182.0	179.7	174.9	153.7	134.7	120.6	108.7	99.3	101.6
85°	104.0	104.0	99.3	99.3	89.8	78.0	68.6	59.1	52.0	49.6	49.6
87.5°	35.5	35.5	33.1	33.1	28.4	21.3	16.5	14.2	11.8	9.5	11.8
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)