

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: P638357

Luminaire Tested: GWS-SA4E-760-U-RW-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638357  
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-SA4E-760-U-RW-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

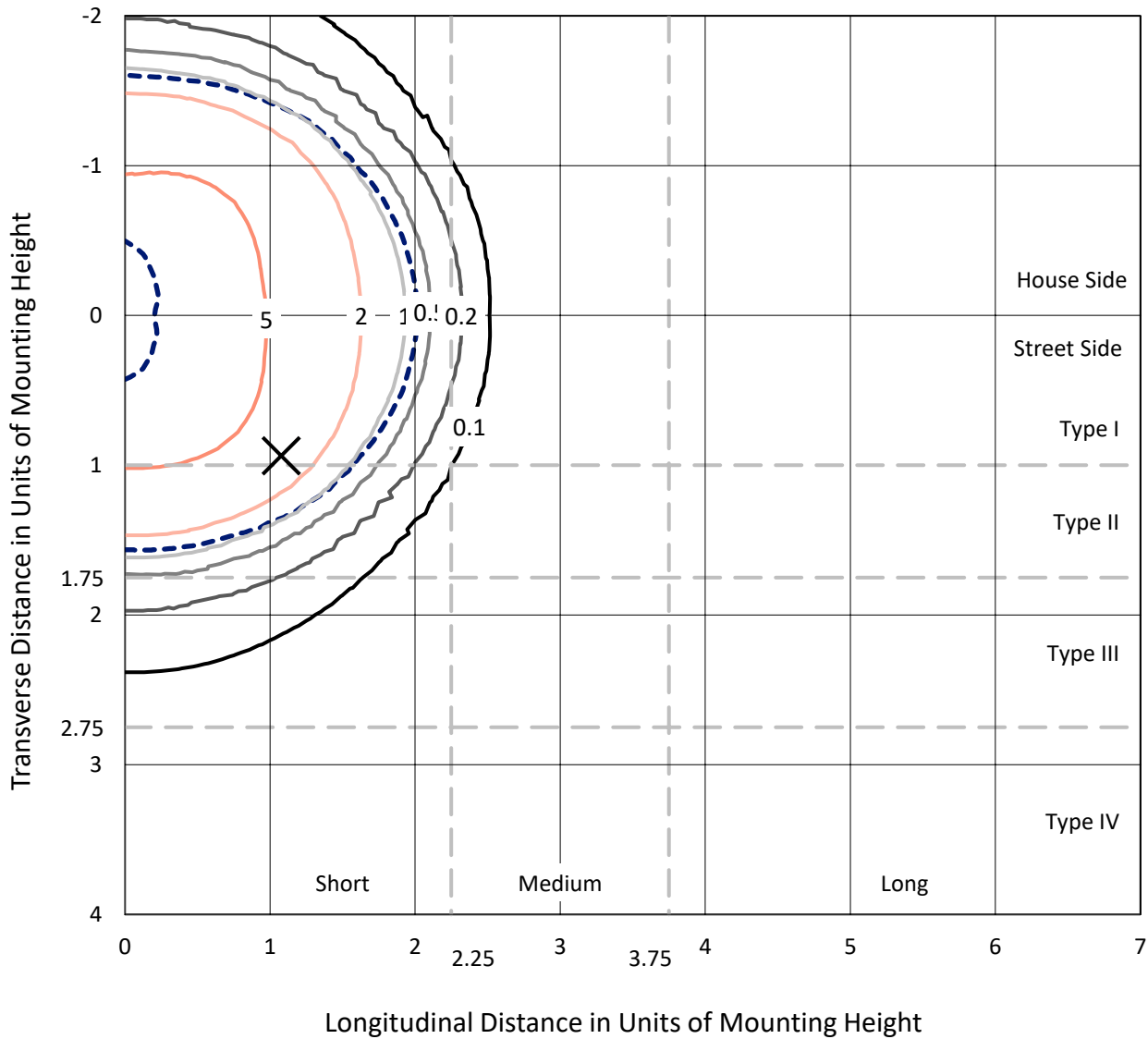
Lumens per Lamp: N/A  
Luminaire Lumens: 27217.3 lumens  
Efficiency: N/A  
Efficacy: 134.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

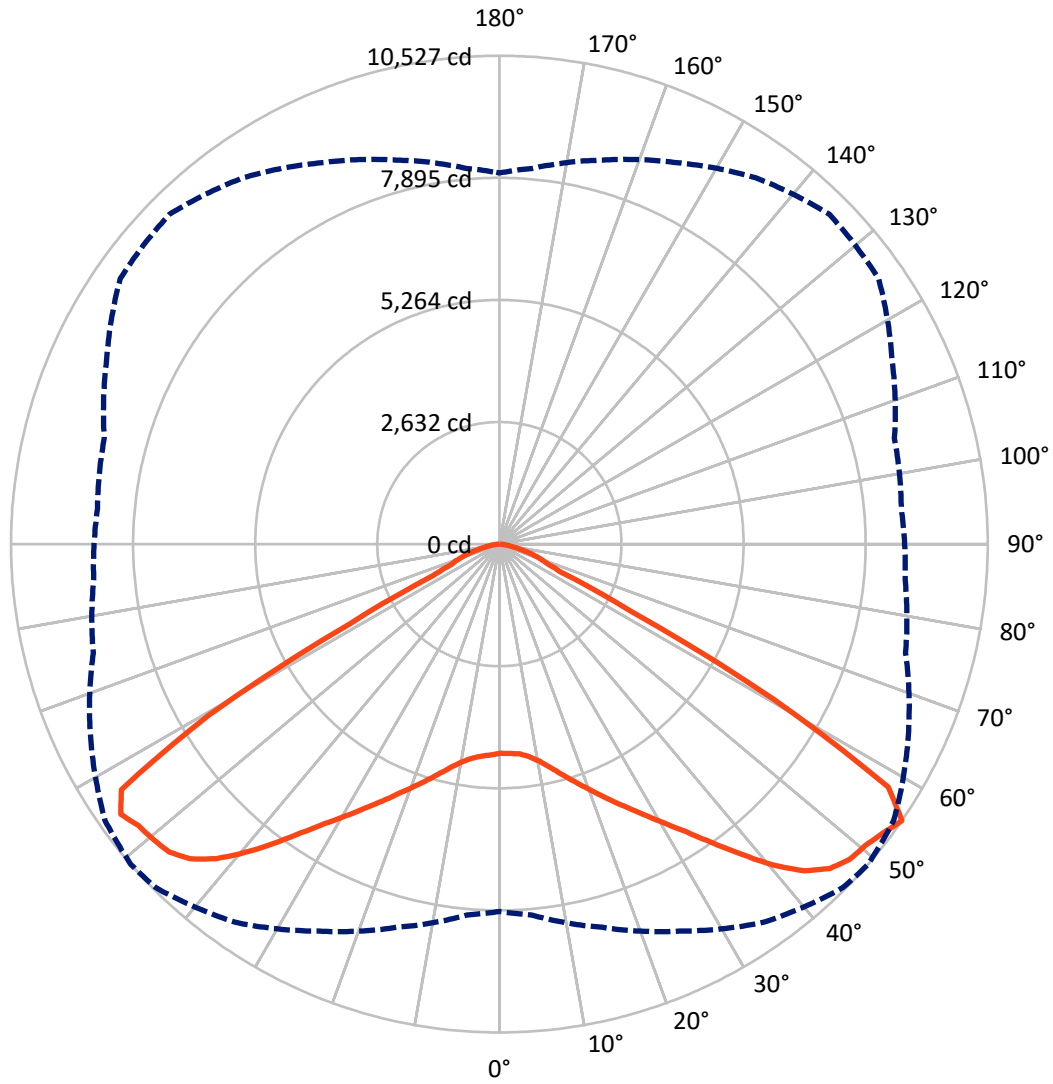
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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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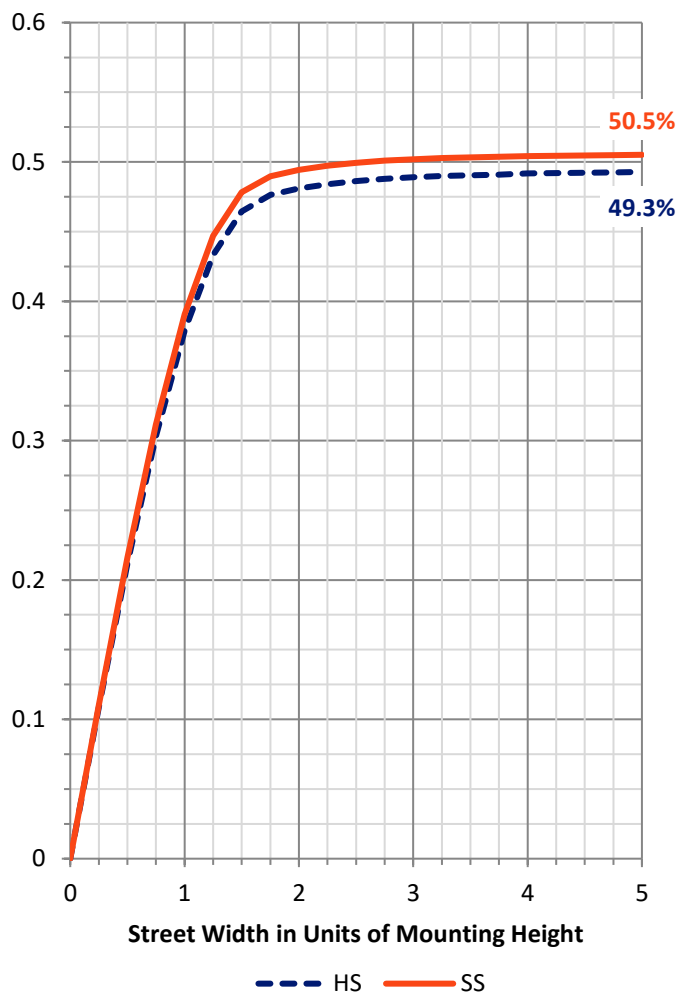
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13475.1	0.0	13475.1
	% Fixture	49.5	0.0	49.5
<b>Street Side</b>	Lumens	13742.2	0.0	13742.2
	% Fixture	50.5	0.0	50.5
<b>Total</b>	Lumens	27217.3	0.0	27217.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	439.8	1.6
10°-20°	1450.7	5.3
20°-30°	2763.2	10.2
30°-40°	4684.3	17.2
40°-50°	7049.5	25.9
50°-60°	7716.4	28.4
60°-70°	2439.9	9.0
70°-80°	585.6	2.2
80°-90°	87.9	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°	27217.3	100.0
0°-180°	27217.3	100.0

**Coefficient of Utilization**



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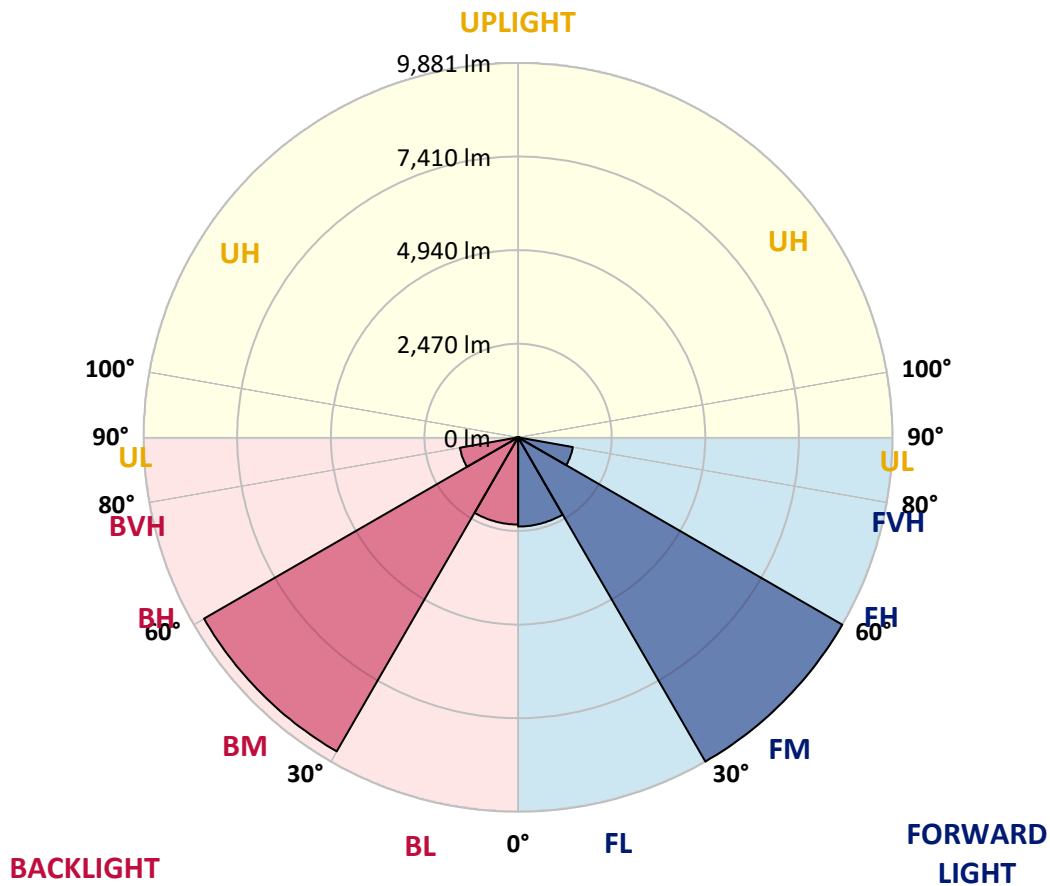
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2353.2	8.6			
FM (30°-60°)	9880.6	36.3			
FH (60°-80°)	1467.7	5.4			G1/1800
FVH (80°-90°)	40.7	0.1			G1/100
BL (0°-30°)	2300.6	8.5	B3/2500		
BM (30°-60°)	9569.5	35.2	B5		
BH (60°-80°)	1557.9	5.7	B3/2500		G1/1800
BVH (80°-90°)	47.2	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°	4508.7	4508.7	4508.7	4508.7	4508.7	4508.7	4508.7	4508.7	4508.7	4508.7	4508.7
2.5°	4442.3	4446.7	4455.6	4471.1	4486.6	4508.7	4517.6	4528.6	4526.4	4539.7	4539.7
5°	4420.2	4426.8	4440.1	4462.2	4488.8	4530.8	4541.9	4568.5	4595.0	4628.2	4639.3
7.5°	4446.7	4455.6	4471.1	4506.5	4546.3	4601.7	4623.8	4668.1	4719.0	4778.7	4803.1
10°	4497.6	4508.7	4535.3	4592.8	4657.0	4741.1	4761.0	4816.4	4898.3	4980.2	5028.9
12.5°	4555.2	4572.9	4621.6	4712.3	4807.5	4918.2	4949.2	5017.8	5106.3	5212.6	5279.0
15°	4621.6	4637.1	4712.3	4840.7	4989.0	5135.1	5170.5	5236.9	5336.5	5440.6	5533.5
17.5°	4761.0	4787.6	4876.1	5024.4	5197.1	5369.7	5409.6	5484.8	5564.5	5646.4	5734.9
20°	4951.4	4973.5	5086.4	5270.1	5473.8	5630.9	5670.7	5737.2	5774.8	5816.8	5892.1
22.5°	5141.7	5172.7	5301.1	5518.0	5757.1	5927.5	5958.5	6020.5	5993.9	5980.6	6029.3
25°	5378.6	5420.6	5546.8	5783.6	6027.1	6237.4	6261.7	6314.9	6270.6	6202.0	6199.8
27.5°	5673.0	5710.6	5841.2	6084.7	6325.9	6545.0	6591.5	6662.4	6565.0	6480.9	6421.1
30°	6022.7	6047.0	6190.9	6449.9	6697.8	6905.8	6965.6	7036.4	6963.4	6823.9	6764.2
32.5°	6429.9	6463.1	6629.2	6901.4	7122.7	7330.8	7390.6	7479.1	7399.4	7242.3	7167.0
35°	6919.1	6952.3	7127.2	7423.8	7649.5	7864.2	7906.3	7979.3	7879.7	7698.2	7638.5
37.5°	7450.3	7492.4	7713.7	7994.8	8231.7	8481.8	8484.0	8506.1	8364.5	8138.7	8072.3
40°	8047.9	8103.3	8324.6	8616.8	8902.3	9106.0	9103.7	9041.8	8802.7	8453.0	8351.2
42.5°	8638.9	8683.2	8906.8	9207.8	9493.3	9685.9	9628.3	9477.8	9132.5	8656.6	8521.6
45°	9066.1	9099.3	9333.9	9672.6	9962.5	10082.1	9978.0	9796.5	9329.5	8785.0	8585.8
47.5°	9267.5	9311.8	9548.6	9885.1	10212.7	10281.3	10157.3	9986.9	9444.6	8904.5	8636.7
50°	9159.1	9216.6	9484.5	9796.5	10166.2	10307.8	10219.3	10048.9	9566.3	9021.8	8727.5
52.5°	8878.0	8933.3	9272.0	9650.5	10068.8	10349.9	10347.7	10208.2	9705.8	9055.0	8731.9
55°	7917.4	8025.8	8552.6	9205.6	9949.3	10473.8	10527.0	10378.7	9727.9	9063.9	8778.4
57.5°	5152.8	5343.2	5843.4	6693.3	8185.2	9526.5	9885.1	9920.5	9568.6	9026.3	8787.2
60°	2151.4	2304.2	2700.4	3264.8	4497.6	6093.5	6788.5	7485.7	8326.8	8632.3	8705.3
62.5°	1336.9	1350.2	1390.0	1518.4	1930.1	2709.2	3156.3	3809.3	5059.8	6124.5	6615.9
65°	1206.3	1212.9	1221.8	1212.9	1232.9	1328.0	1447.6	1675.5	2184.6	2713.6	3342.2
67.5°	1062.4	1071.3	1077.9	1071.3	1077.9	1082.4	1095.6	1115.6	1208.5	1283.8	1341.3
70°	858.8	872.1	883.1	878.7	905.3	905.3	918.6	934.1	980.5	1035.9	1075.7
72.5°	655.2	644.1	657.4	661.8	686.2	699.4	719.4	737.1	790.2	823.4	874.3
75°	425.0	413.9	433.8	444.9	478.1	495.8	513.5	531.2	568.8	591.0	639.7
77.5°	230.2	228.0	247.9	263.4	298.8	320.9	334.2	347.5	378.5	385.1	416.1
80°	132.8	132.8	146.1	157.2	179.3	203.6	216.9	228.0	250.1	256.8	270.0
82.5°	73.0	73.0	79.7	86.3	104.0	117.3	128.4	137.2	157.2	163.8	170.4
85°	35.4	33.2	37.6	42.1	48.7	55.3	62.0	66.4	81.9	86.3	95.2
87.5°	4.4	4.4	4.4	6.6	8.9	13.3	15.5	15.5	24.3	28.8	33.2
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°	4508.7	4508.7	4508.7	4508.7	4508.7	4508.7	4508.7	4508.7	4508.7	4508.7	4508.7
2.5°	4553.0	4524.2	4541.9	4548.6	4548.6	4541.9	4513.1	4504.3	4491.0	4471.1	4471.1
5°	4654.8	4632.7	4637.1	4626.0	4599.5	4566.3	4513.1	4486.6	4464.4	4440.1	4437.9
7.5°	4829.7	4800.9	4796.5	4754.4	4683.6	4612.7	4533.1	4484.4	4451.2	4420.2	4418.0
10°	5057.6	5031.1	4997.9	4913.8	4809.7	4705.7	4597.2	4530.8	4482.1	4437.9	4435.7
12.5°	5312.2	5281.2	5219.2	5095.3	4964.7	4862.9	4738.9	4637.1	4564.0	4504.3	4493.2
15°	5588.9	5544.6	5438.3	5292.3	5163.9	5055.4	4922.6	4776.5	4665.9	4570.7	4559.6
17.5°	5801.3	5743.8	5628.7	5491.5	5385.2	5276.8	5104.1	4920.4	4761.0	4641.5	4623.8
20°	5947.4	5900.9	5770.4	5668.5	5606.6	5511.4	5310.0	5101.9	4922.6	4772.1	4763.3
22.5°	6082.4	6027.1	5898.7	5839.0	5839.0	5774.8	5582.2	5336.5	5126.3	4951.4	4929.3
25°	6235.2	6175.4	6078.0	6071.4	6102.4	6073.6	5841.2	5577.8	5332.1	5135.1	5099.7
27.5°	6447.7	6381.3	6323.7	6363.5	6407.8	6376.8	6117.9	5812.4	5553.4	5354.2	5323.2
30°	6786.3	6704.4	6651.3	6700.0	6786.3	6695.6	6414.5	6091.3	5830.1	5611.0	5595.5
32.5°	7180.3	7087.3	7032.0	7109.5	7186.9	7045.3	6766.4	6456.5	6182.0	5951.9	5925.3
35°	7654.0	7536.7	7454.8	7558.8	7638.5	7499.0	7222.3	6928.0	6622.5	6383.5	6348.1
37.5°	8074.5	7932.9	7877.5	8023.6	8129.8	8039.1	7738.1	7461.4	7127.2	6866.0	6850.5
40°	8380.0	8240.5	8200.7	8441.9	8627.9	8605.7	8335.7	8019.2	7704.9	7403.8	7375.1
42.5°	8512.8	8415.4	8424.2	8749.6	9037.3	9179.0	8937.7	8599.1	8295.9	7983.8	7963.8
45°	8541.5	8481.8	8552.6	8959.9	9338.4	9628.3	9422.5	9139.2	8796.1	8495.1	8486.2
47.5°	8572.5	8539.3	8647.8	9079.4	9528.7	9865.2	9750.1	9457.9	9110.4	8816.0	8793.9
50°	8645.6	8632.3	8754.0	9163.5	9619.5	9929.3	9798.8	9508.8	9152.4	8862.5	8809.4
52.5°	8667.7	8645.6	8820.4	9294.1	9770.0	9927.1	9646.0	9267.5	8909.0	8585.8	8530.5
55°	8736.3	8696.5	8816.0	9342.8	9978.0	10055.5	9637.2	9070.5	8570.3	8129.8	7999.3
57.5°	8754.0	8709.8	8787.2	9263.1	9752.3	9683.7	8470.7	7319.7	6376.8	5887.7	5943.0
60°	8658.8	8672.1	8539.3	8486.2	7822.2	6905.8	5186.0	4145.7	3255.9	2879.6	2961.5
62.5°	6591.5	6646.9	6193.1	5385.2	4141.3	3282.5	2171.4	1686.6	1427.6	1361.2	1372.3
65°	3326.8	3402.0	2930.6	2423.7	1801.7	1456.4	1259.4	1219.6	1206.3	1190.8	1190.8
67.5°	1317.0	1339.1	1321.4	1237.3	1151.0	1120.0	1111.1	1106.7	1091.2	1082.4	1084.6
70°	1058.0	1075.7	1049.2	996.0	960.6	958.4	954.0	945.1	934.1	934.1	940.7
72.5°	863.2	880.9	843.3	810.1	783.5	763.6	752.6	745.9	730.4	730.4	737.1
75°	635.2	646.3	615.3	610.9	582.1	562.2	544.5	535.6	515.7	506.9	513.5
77.5°	422.8	420.5	405.1	405.1	394.0	369.6	349.7	329.8	303.2	285.5	290.0
80°	274.5	274.5	267.8	267.8	256.8	236.8	212.5	192.6	177.1	163.8	163.8
82.5°	174.9	172.6	170.4	168.2	163.8	143.9	126.2	112.9	101.8	93.0	95.2
85°	97.4	97.4	93.0	93.0	84.1	73.0	64.2	55.3	48.7	46.5	46.5
87.5°	33.2	33.2	31.0	31.0	26.6	19.9	15.5	13.3	11.1	8.9	11.1
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)