

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: P643180

Luminaire Tested: GWS-SA6E-735-U-T4FT-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643180  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-735-U-T4FT-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

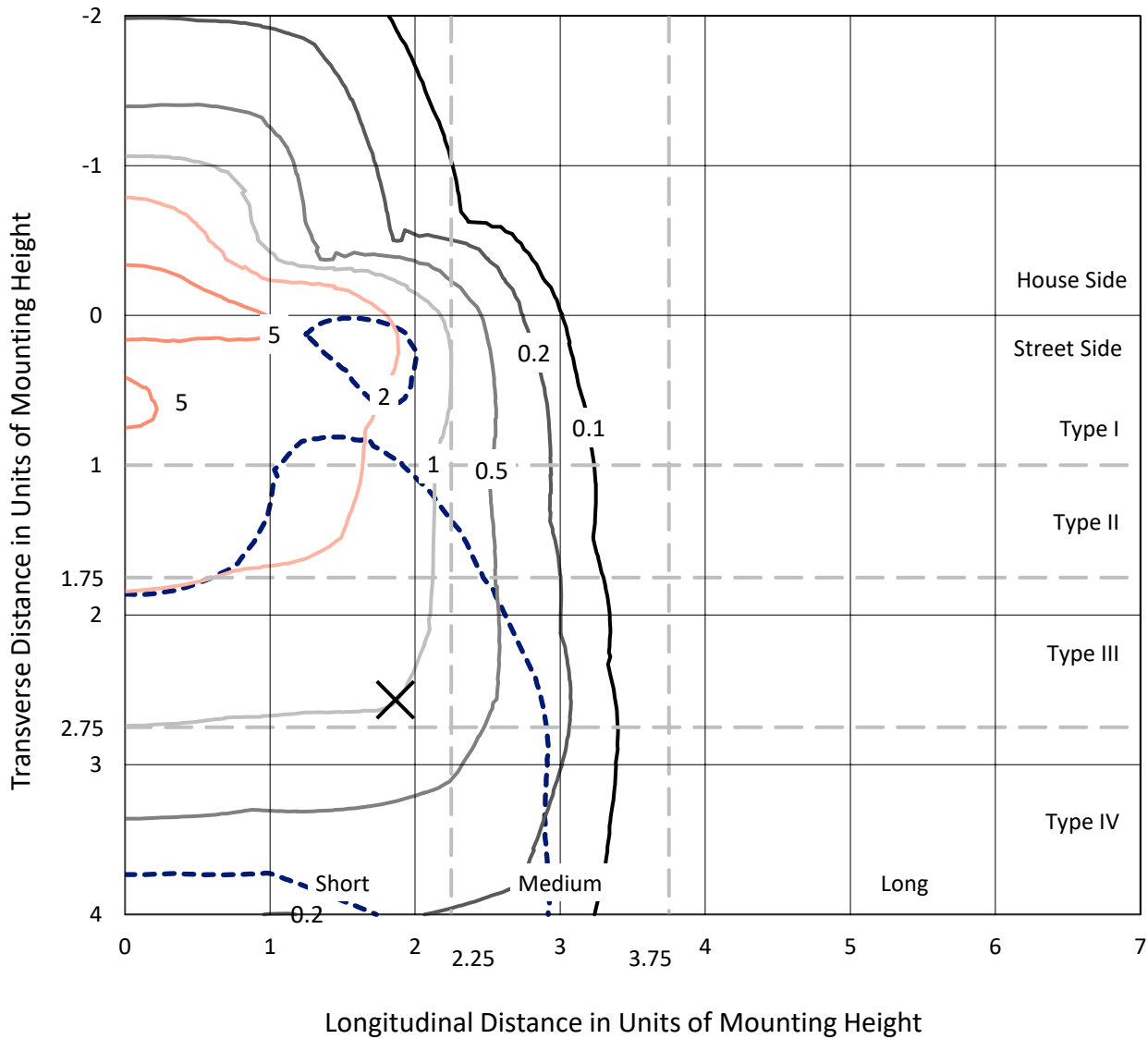
Lumens per Lamp: N/A  
Luminaire Lumens: 42646 lumens  
Efficiency: N/A  
Efficacy: 131.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

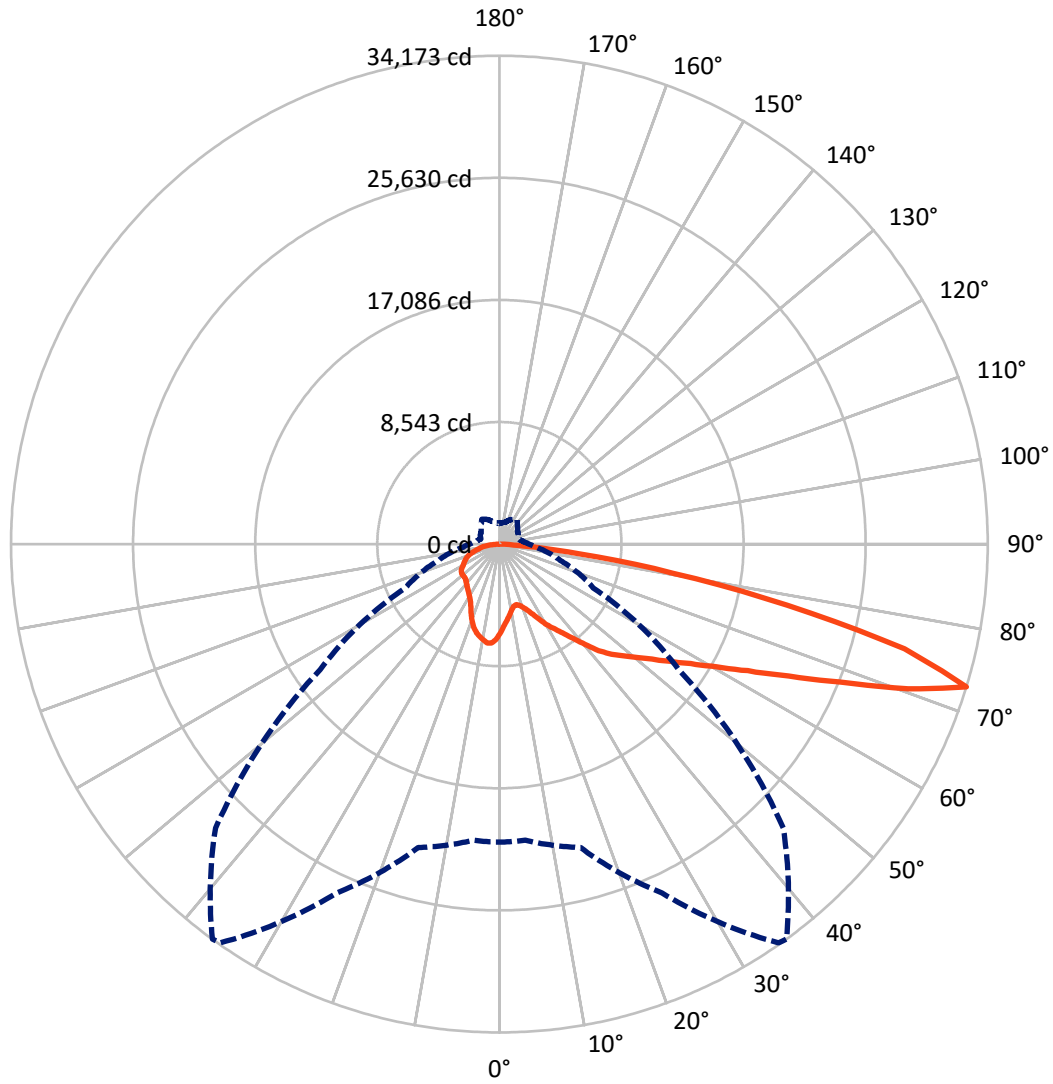
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 fc  
 Type IV - Short - N/A

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CATALOG NUMBER: GWS-SA6E-735-U-T4FT-W

### Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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CATALOG NUMBER: GWS-SA6E-735-U-T4FT-W

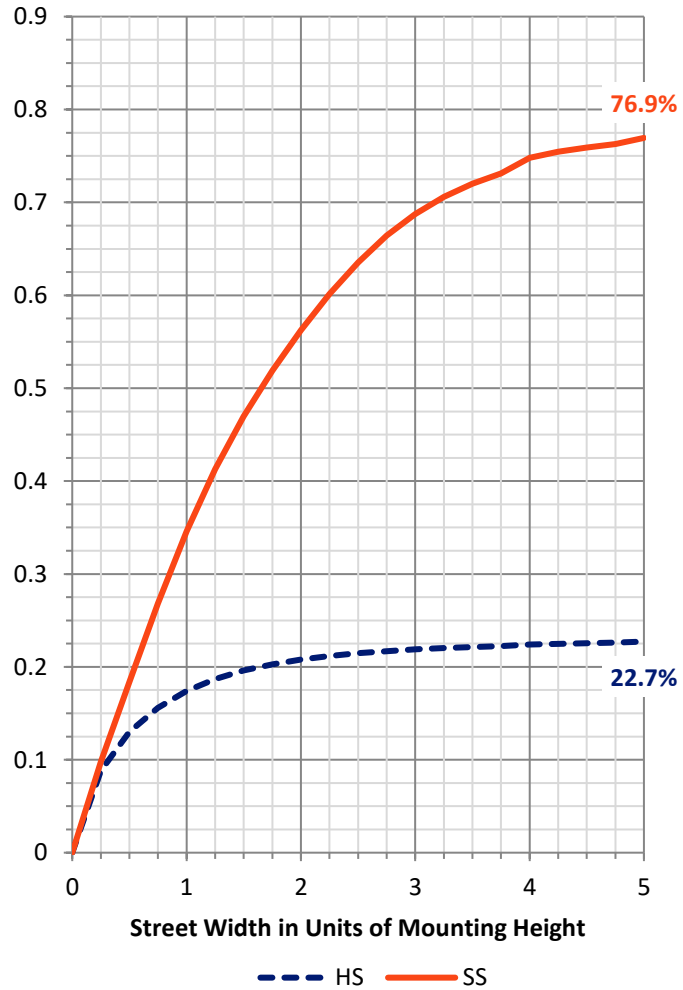
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9831.7	0.0	9831.7
	% Fixture	23.1	0.0	23.1
<b>Street Side</b>	Lumens	32814.3	0.0	32814.3
	% Fixture	76.9	0.0	76.9
<b>Total</b>	Lumens	42646.0	0.0	42646.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	583.4	1.4
10°-20°	1646.0	3.9
20°-30°	2726.0	6.4
30°-40°	4082.4	9.6
40°-50°	5955.9	14.0
50°-60°	8477.1	19.9
60°-70°	10710.2	25.1
70°-80°	7631.9	17.9
80°-90°	833.1	2.0
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°	42646.0	100.0
0°-180°	42646.0	100.0

**Coefficient of Utilization**



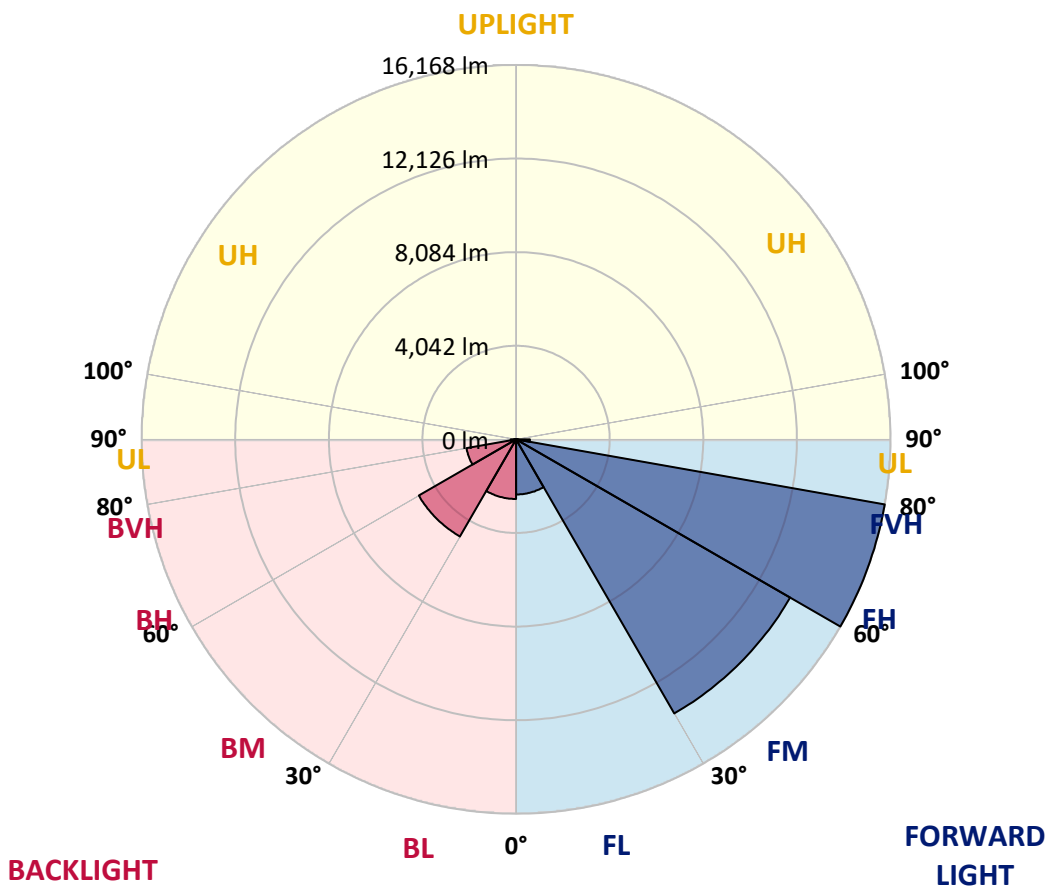
REPORT NUMBER: P643180

CATALOG NUMBER: GWS-SA6E-735-U-T4FT-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2380.8	5.6			
FM (30°-60°)	13667.0	32.0			
FH (60°-80°)	16168.5	37.9			G5
FVH (80°-90°)	598.0	1.4			G4/750
BL (0°-30°)	2574.6	6.0	B4/5000		
BM (30°-60°)	4848.4	11.4	B3/5000		
BH (60°-80°)	2173.5	5.1	B3/2500		G3/2500
BVH (80°-90°)	235.1	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	6241.4	6241.4	6241.4	6241.4	6241.4	6241.4	6241.4	6241.4	6241.4	6241.4	6241.4
2.5°	5693.9	5684.4	5665.4	5722.4	5779.3	5773.0	5852.1	5928.1	6010.4	6095.8	6209.8
5°	5238.1	5231.8	5216.0	5301.4	5386.9	5383.7	5513.5	5636.9	5804.7	5988.2	6216.1
7.5°	4782.4	4766.5	4788.7	4896.3	5016.6	5029.2	5206.5	5409.0	5652.7	5928.1	6250.9
10°	4380.4	4377.2	4386.7	4507.0	4687.4	4700.1	4927.9	5209.6	5532.5	5899.6	6330.1
12.5°	4276.0	4269.6	4244.3	4304.4	4440.5	4459.5	4709.6	5054.5	5450.2	5915.4	6437.7
15°	4446.9	4431.0	4342.4	4313.9	4380.4	4396.2	4608.3	4962.8	5402.7	5943.9	6573.8
17.5°	4741.2	4731.7	4564.0	4446.9	4491.2	4503.8	4662.1	4946.9	5390.0	6000.9	6741.5
20°	5171.7	5130.5	4867.8	4690.6	4690.6	4709.6	4804.5	5016.6	5405.9	6070.5	6931.4
22.5°	5741.4	5659.1	5288.8	5048.2	4984.9	5010.2	5051.4	5190.6	5472.3	6187.6	7168.8
25°	6380.7	6304.7	5864.8	5526.1	5437.5	5447.0	5412.2	5437.5	5617.9	6349.0	7463.1
27.5°	7061.2	7010.5	6542.1	6111.7	5972.4	5972.4	5849.0	5788.8	5820.5	6532.6	7792.3
30°	7668.9	7599.2	7203.6	6732.0	6548.4	6548.4	6314.2	6184.5	6108.5	6757.3	8232.2
32.5°	7988.5	7947.4	7684.7	7323.9	7099.2	7064.3	6861.8	6709.9	6532.6	7089.7	8827.3
35°	8406.3	8396.8	8238.6	7956.9	7672.0	7621.4	7482.1	7361.9	7054.8	7504.3	9618.5
37.5°	8931.7	8915.9	8890.6	8722.8	8381.0	8371.5	8248.1	8102.5	7703.7	8102.5	10577.5
40°	9520.4	9491.9	9460.3	9457.1	9251.4	9216.6	9207.1	9042.5	8485.4	8824.1	11577.7
42.5°	10330.6	10232.5	9935.0	10068.0	10219.9	10188.2	10308.5	10061.6	9460.3	9681.8	12524.0
45°	11327.6	11087.1	10498.4	10536.4	10919.3	10982.6	11400.4	11340.3	10533.2	10672.5	13521.0
47.5°	11925.8	11716.9	11169.4	11137.7	11615.6	11694.8	12603.1	12717.1	11688.4	11865.7	14752.2
50°	12416.4	12270.8	11821.4	11865.7	12372.1	12451.2	13796.4	14040.1	12777.2	13087.4	16182.8
52.5°	13008.3	12799.4	12451.2	12660.1	13280.5	13375.4	15122.5	15385.2	13758.4	14429.4	17664.0
55°	13340.6	13255.1	13261.5	13581.1	14359.7	14489.5	16511.9	16467.6	14657.2	15578.3	18778.1
57.5°	14106.5	14074.9	14366.1	14486.3	15619.4	15787.2	17901.4	17521.6	15473.8	16467.6	19313.0
60°	15458.0	15378.9	15632.1	15815.6	17176.6	17414.0	19452.3	18553.4	16027.7	17129.1	19132.6
62.5°	17357.0	17258.9	17268.4	17559.6	19262.4	19512.4	21177.2	19414.3	16198.6	17230.4	17990.0
65°	19718.1	19575.7	19414.3	19809.9	22031.8	22240.6	23054.1	20041.0	15790.3	16255.6	15603.6
67.5°	22209.0	22091.9	21902.0	22731.2	25617.7	25744.3	25158.8	19987.1	14495.8	13647.6	10944.7
70°	22354.6	22383.1	23281.9	26282.4	30298.8	30330.5	27149.6	18904.7	11739.1	8846.3	5453.3
72.5°	20854.4	20806.9	21977.9	26931.2	34065.2	34172.8	28089.6	15315.6	7254.2	4412.0	2557.3
75°	16939.2	17021.5	18252.7	23563.6	29197.4	29292.3	22899.0	9029.8	3446.7	2158.5	1636.3
77.5°	7292.2	7751.2	10178.7	16600.6	20911.3	20617.0	11802.4	3658.8	1838.9	1538.2	1253.4
80°	2104.7	2285.1	3627.1	7893.6	12530.3	12308.8	4671.6	1370.5	1281.8	1155.2	898.9
82.5°	680.5	753.3	1329.3	3142.9	5614.8	5608.4	1772.4	810.2	838.7	784.9	579.2
85°	189.9	218.4	408.3	952.7	1737.6	1702.8	512.7	383.0	446.3	452.6	288.0
87.5°	0.0	0.0	3.2	6.3	6.3	6.3	12.7	57.0	129.8	164.6	117.1
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°	6241.4	6241.4	6241.4	6241.4	6241.4	6241.4	6241.4	6241.4	6241.4	6241.4	6241.4
2.5°	6279.4	6269.9	6399.7	6501.0	6595.9	6659.2	6678.2	6690.9	6716.2	6728.8	6716.2
5°	6323.7	6371.2	6586.4	6744.7	6871.3	6947.2	6950.4	6944.1	6963.1	6947.2	6937.7
7.5°	6418.7	6510.5	6782.7	6950.4	7032.7	7035.9	6959.9	6871.3	6827.0	6789.0	6776.3
10°	6545.3	6681.4	6978.9	7089.7	7064.3	6947.2	6779.5	6640.2	6561.1	6504.1	6491.5
12.5°	6719.4	6871.3	7153.0	7149.8	6991.5	6782.7	6586.4	6418.7	6304.7	6238.3	6216.1
15°	6883.9	7077.0	7279.6	7130.8	6880.8	6627.6	6374.4	6149.6	5997.7	5893.3	5874.3
17.5°	7086.5	7292.2	7371.3	7070.7	6741.5	6415.5	6076.9	5782.5	5576.8	5453.3	5443.8
20°	7320.7	7504.3	7415.7	6966.2	6561.1	6133.8	5674.9	5345.7	5124.2	5003.9	5013.4
22.5°	7592.9	7725.8	7428.3	6823.8	6311.1	5735.0	5222.3	4905.8	4757.0	4693.7	4696.9
25°	7884.1	7969.5	7406.2	6630.7	5928.1	5247.6	4757.0	4611.4	4598.8	4583.0	4589.3
27.5°	8229.1	8210.1	7339.7	6358.5	5412.2	4681.1	4431.0	4469.0	4519.7	4513.3	4519.7
30°	8691.2	8510.8	7254.2	5981.9	4798.2	4206.3	4238.0	4345.6	4412.0	4418.4	4437.4
32.5°	9219.7	8843.1	7118.1	5469.2	4212.7	3940.5	4057.6	4187.3	4266.5	4282.3	4307.6
35°	9849.6	9222.9	6877.6	4829.8	3791.7	3782.2	3889.8	3978.4	4063.9	4070.2	4070.2
37.5°	10574.4	9602.7	6494.6	4124.0	3532.2	3646.1	3747.4	3766.4	3788.5	3769.5	3779.0
40°	11239.0	9969.8	5950.3	3481.5	3320.1	3525.8	3611.3	3548.0	3478.4	3430.9	3440.4
42.5°	11796.1	10219.9	5228.6	3032.1	3104.9	3418.2	3484.7	3354.9	3218.8	3130.2	3142.9
45°	12422.7	10450.9	4380.4	2728.3	2921.3	3342.3	3386.6	3218.8	3044.8	2911.8	2892.8
47.5°	13286.8	10922.5	3627.1	2516.2	2791.6	3301.1	3373.9	3146.0	2918.2	2718.8	2696.6
50°	14353.4	11590.3	2997.3	2376.9	2731.4	3279.0	3370.8	3066.9	2794.7	2560.5	2544.7
52.5°	15518.1	12242.3	2532.0	2269.3	2671.3	3212.5	3354.9	2978.3	2665.0	2411.8	2392.8
55°	16293.6	12498.7	2218.7	2168.0	2573.2	3108.1	3291.6	2892.8	2468.7	2237.7	2209.2
57.5°	16521.4	12169.5	2000.3	2076.3	2446.6	2962.5	3171.4	2712.4	2348.4	2164.9	2142.7
60°	16129.0	11340.3	1864.2	2000.3	2307.3	2775.7	2962.5	2608.0	2253.5	2088.9	2073.1
62.5°	15021.2	10061.6	1759.8	1921.2	2164.9	2579.5	2829.5	2481.4	2149.1	2019.3	1997.1
65°	12793.0	8251.2	1674.3	1838.9	2028.8	2392.8	2683.9	2354.8	2035.1	1937.0	1911.7
67.5°	8947.5	5795.2	1582.5	1740.8	1892.7	2212.4	2532.0	2237.7	1918.0	1845.2	1819.9
70°	4374.1	3073.2	1471.7	1626.8	1747.1	2028.8	2380.1	2095.2	1762.9	1721.8	1687.0
72.5°	2082.6	1718.6	1342.0	1471.7	1547.7	1785.1	2126.9	1889.5	1579.3	1490.7	1430.6
75°	1395.8	1221.7	1171.1	1288.2	1307.2	1497.1	1823.1	1630.0	1392.6	1291.3	1240.7
77.5°	1057.1	933.7	984.3	1088.8	1050.8	1231.2	1500.2	1452.7	1256.5	1164.7	1139.4
80°	743.8	680.5	781.8	845.1	816.6	1047.6	1351.5	1243.9	1035.0	933.7	914.7
82.5°	468.4	455.8	576.0	585.5	595.0	829.2	1110.9	978.0	803.9	661.5	614.0
85°	234.2	259.5	345.0	345.0	341.8	427.3	633.0	550.7	433.6	345.0	335.5
87.5°	79.1	110.8	148.8	120.3	91.8	72.8	82.3	101.3	107.6	104.4	104.4
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)