

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: P643292

Luminaire Tested: GWS-SA6E-750-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643292  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-750-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

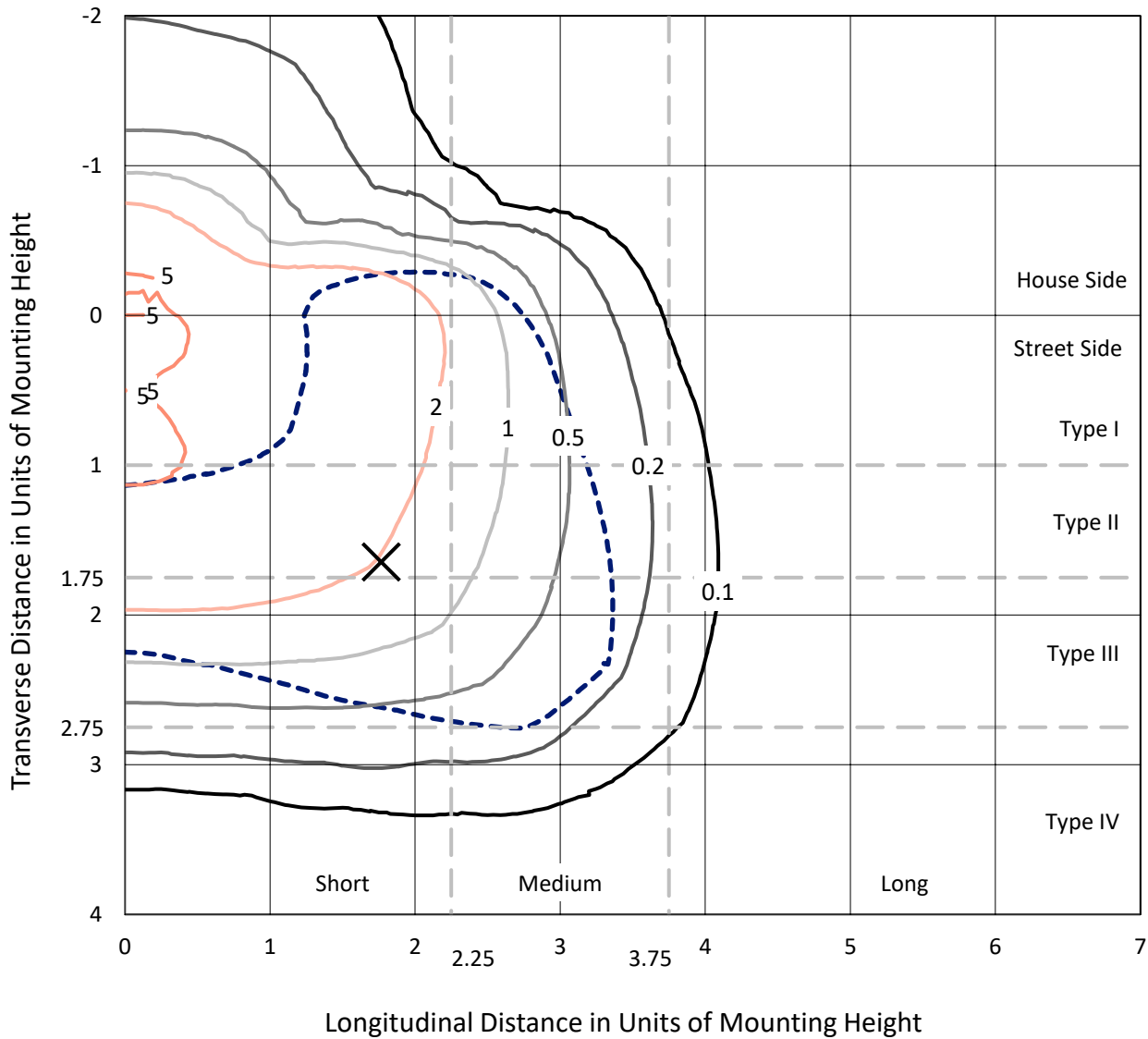
Lumens per Lamp: N/A  
Luminaire Lumens: 45398.1 lumens  
Efficiency: N/A  
Efficacy: 140.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): 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

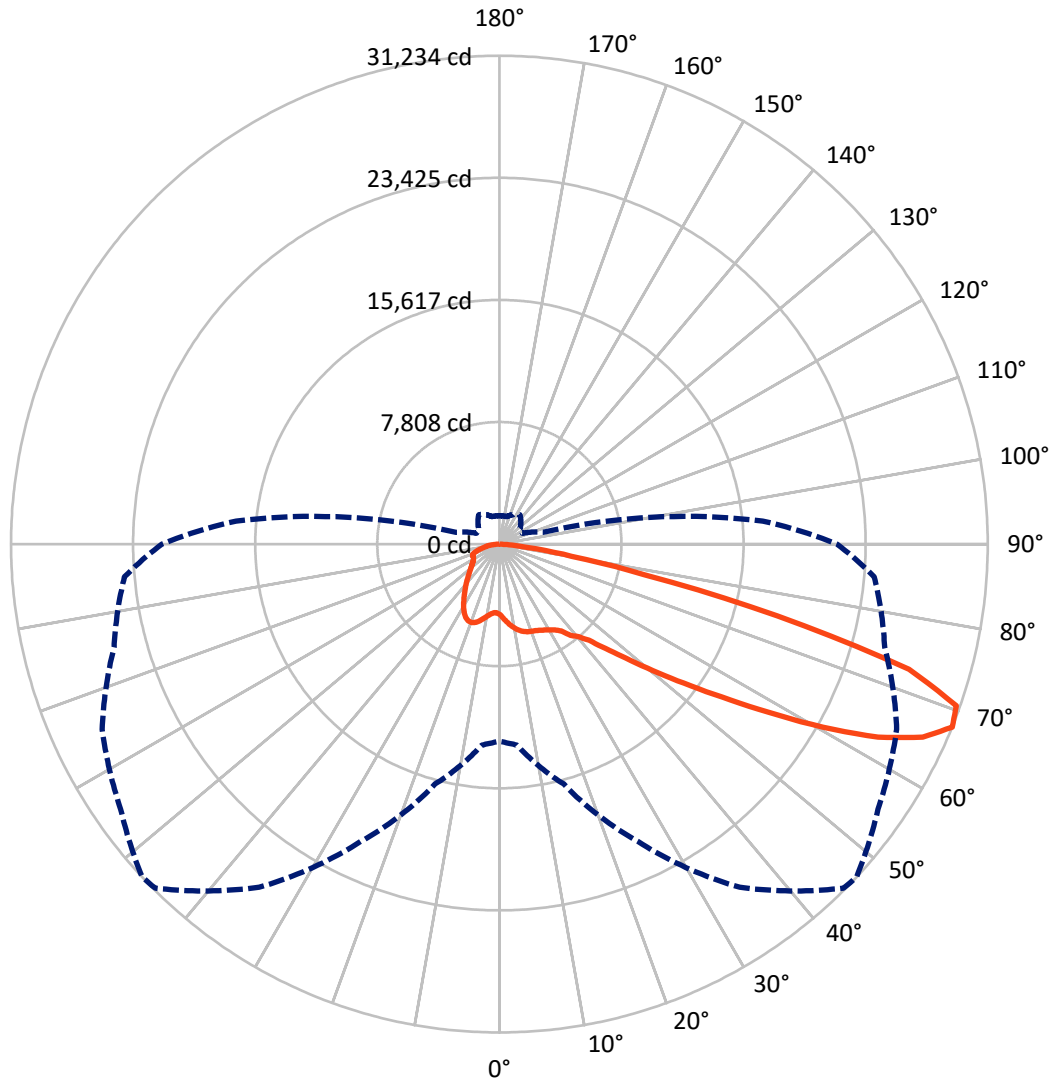
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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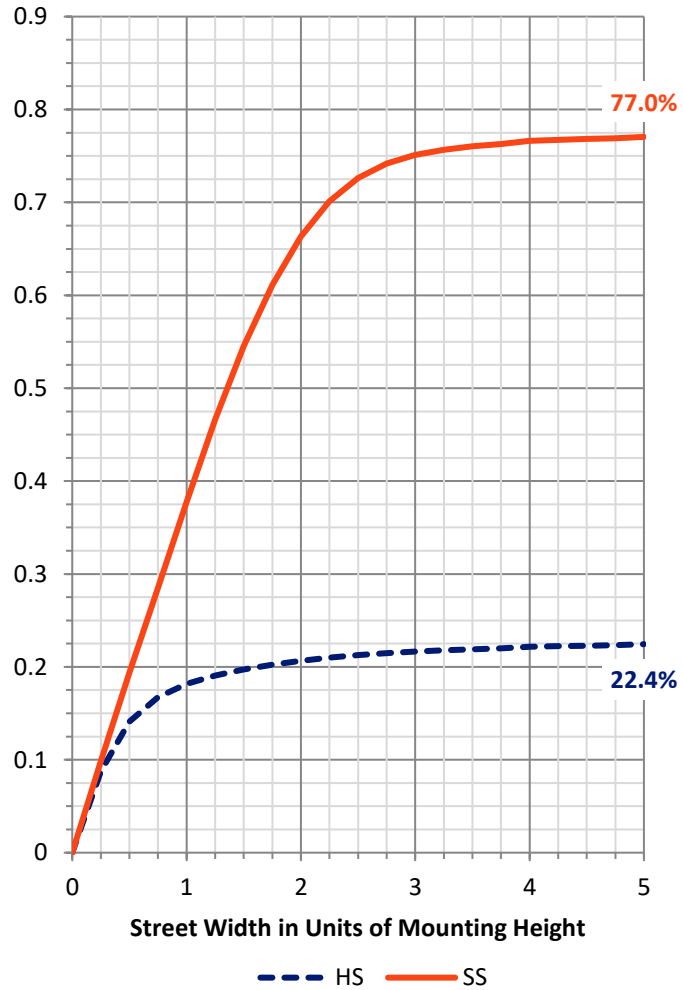
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10346.6	0.0	10346.6
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	35051.5	0.0	35051.5
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	45398.1	0.0	45398.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	459.9	1.0
10°-20°	1532.4	3.4
20°-30°	2604.6	5.7
30°-40°	3815.5	8.4
40°-50°	5813.3	12.8
50°-60°	10401.3	22.9
60°-70°	13879.5	30.6
70°-80°	6276.6	13.8
80°-90°	614.9	1.4
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°	45398.1	100.0
0°-180°	45398.1	100.0

**Coefficient of Utilization**



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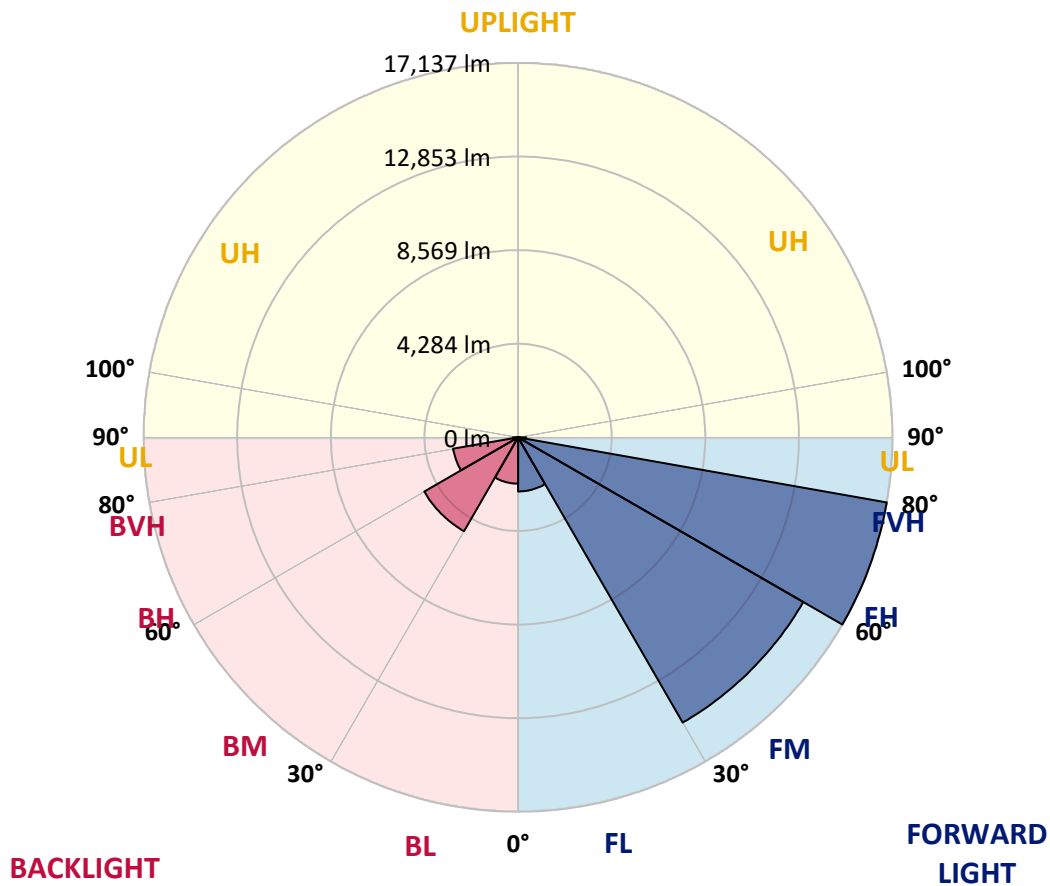
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2475.9	5.5			
FM (30°-60°)	15072.6	33.2			
FH (60°-80°)	17137.3	37.7			G5
FVH (80°-90°)	365.8	0.8			G3/500
BL (0°-30°)	2121.1	4.7	B3/2500		
BM (30°-60°)	4957.5	10.9	B3/5000		
BH (60°-80°)	3018.8	6.6	B4/5000		G4/5000
BVH (80°-90°)	249.2	0.5			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4500.4	4500.4	4500.4	4500.4	4500.4	4500.4	4500.4	4500.4	4500.4	4500.4	4500.4
2.5°	4799.1	4815.5	4812.2	4786.0	4769.6	4740.0	4743.3	4697.3	4628.4	4582.5	4529.9
5°	5222.6	5248.8	5216.0	5173.3	5107.7	5012.5	5002.6	4897.6	4766.3	4674.4	4579.2
7.5°	5590.2	5606.6	5567.2	5495.0	5399.8	5271.8	5248.8	5124.1	4959.9	4815.5	4677.6
10°	5875.8	5895.5	5843.0	5747.8	5623.0	5495.0	5478.6	5350.6	5176.6	5005.9	4831.9
12.5°	6118.7	6125.3	6069.5	5941.4	5806.8	5675.5	5659.1	5541.0	5380.1	5206.1	5015.8
15°	6259.8	6263.1	6194.2	6053.0	5925.0	5810.1	5800.3	5698.5	5550.8	5386.7	5183.2
17.5°	6250.0	6256.6	6207.3	6082.6	5971.0	5902.0	5892.2	5826.5	5711.7	5563.9	5360.4
20°	6128.5	6135.1	6102.3	6020.2	5961.1	5941.4	5944.7	5925.0	5856.1	5734.6	5527.8
22.5°	6033.3	6043.2	6013.6	5954.6	5948.0	5994.0	6003.8	6013.6	5980.8	5872.5	5672.3
25°	6079.3	6095.7	6049.8	5967.7	5980.8	6082.6	6102.3	6135.1	6108.8	6016.9	5843.0
27.5°	6397.7	6407.6	6289.4	6122.0	6082.6	6190.9	6220.4	6273.0	6253.3	6167.9	6033.3
30°	7136.3	7129.7	6877.0	6466.6	6302.5	6345.2	6368.2	6443.7	6450.2	6394.4	6266.4
32.5°	8176.9	8144.0	7753.4	7100.2	6624.2	6519.2	6545.4	6647.2	6722.7	6663.6	6489.6
35°	9276.5	9247.0	8817.0	8052.1	7218.3	6854.0	6824.4	6903.2	7018.1	6854.0	6604.5
37.5°	10323.6	10277.7	9837.8	8892.5	7950.4	7441.6	7398.9	7320.1	7251.2	6936.0	6745.7
40°	11485.7	11433.2	11049.1	9979.0	8757.9	7891.3	7782.9	7471.1	7408.7	7208.5	7113.3
42.5°	12726.5	12726.5	12408.1	11354.4	9732.8	8534.7	8393.5	7924.1	7989.7	7858.4	7746.8
45°	13967.3	14003.4	13750.6	12739.6	11036.0	9749.2	9522.7	8856.3	9013.9	8954.8	8899.0
47.5°	15024.3	15093.2	15044.0	14154.4	12631.3	11226.4	10881.7	10189.1	10527.2	10668.3	10825.9
50°	16163.3	16238.8	16189.6	15838.3	14499.1	13015.3	12706.8	11991.2	12572.2	12995.7	13511.0
52.5°	17853.8	17962.2	17551.8	17417.3	16767.3	15047.3	14771.5	13957.4	15011.1	15713.6	16862.5
55°	19281.8	19278.5	19134.0	19442.6	19203.0	17532.1	17226.9	16488.3	17834.1	18579.3	20260.0
57.5°	19944.8	20023.6	20519.3	21392.4	21871.7	20568.5	20276.4	19521.4	20863.9	21251.3	23066.5
60°	20286.2	20384.7	21343.2	23069.8	24359.9	23883.9	23769.0	22807.2	23562.2	23516.3	25433.3
62.5°	19807.0	20003.9	21543.4	23837.9	26135.7	27215.7	27179.6	25725.4	25856.7	25407.0	26900.6
65°	17607.6	17821.0	20237.0	23453.9	27150.0	29749.8	29759.7	28367.9	27619.5	26326.1	26654.4
67.5°	12591.9	12897.2	15884.3	20985.4	26792.2	31118.7	31233.5	29566.0	28033.1	25512.0	24067.7
70°	6863.8	7087.0	9427.5	15254.1	23568.8	30790.4	31003.8	28988.3	26208.0	22068.6	18526.8
72.5°	3118.4	3190.6	4385.5	8370.5	16101.0	26503.4	27396.2	25869.8	21523.7	16301.2	11781.1
75°	1427.9	1460.7	1910.4	4004.7	8413.2	17735.7	18362.6	19268.6	14978.3	10294.1	6141.7
77.5°	896.1	906.0	1086.5	1831.7	4195.1	8853.1	9512.9	11472.5	8771.0	5094.5	2567.0
80°	528.5	538.3	676.2	991.3	1969.5	4050.7	4677.6	4536.5	4122.9	2199.3	1168.6
82.5°	265.9	275.7	390.6	564.6	1073.4	1611.7	1897.3	1907.2	1536.2	1191.6	659.8
85°	95.2	98.5	128.0	223.2	456.3	531.8	594.1	725.4	751.7	692.6	318.4
87.5°	0.0	0.0	3.3	6.6	13.1	52.5	55.8	105.0	219.9	246.2	128.0
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°	4500.4	4500.4	4500.4	4500.4	4500.4	4500.4	4500.4	4500.4	4500.4	4500.4	4500.4
2.5°	4513.5	4464.3	4447.9	4431.5	4405.2	4395.3	4375.7	4356.0	4356.0	4336.3	4326.4
5°	4536.5	4470.8	4428.2	4408.5	4392.1	4401.9	4401.9	4408.5	4431.5	4418.3	4424.9
7.5°	4618.6	4543.1	4484.0	4467.6	4467.6	4507.0	4533.2	4566.0	4608.7	4615.3	4615.3
10°	4763.0	4674.4	4612.0	4602.1	4618.6	4674.4	4713.8	4753.1	4805.7	4808.9	4815.5
12.5°	4920.6	4831.9	4769.6	4782.7	4799.1	4871.3	4914.0	4946.8	4999.3	4999.3	4996.1
15°	5084.7	4986.2	4933.7	4959.9	5009.2	5091.2	5097.8	5101.1	5127.4	5120.8	5117.5
17.5°	5255.4	5150.3	5110.9	5150.3	5202.9	5242.2	5209.4	5163.5	5153.6	5140.5	5133.9
20°	5422.8	5314.5	5298.1	5327.6	5344.0	5311.2	5209.4	5124.1	5084.7	5065.0	5058.4
22.5°	5567.2	5475.3	5465.5	5465.5	5383.4	5268.5	5117.5	5002.6	4950.1	4923.8	4917.3
25°	5737.9	5652.6	5636.2	5547.5	5337.4	5127.4	4923.8	4818.8	4776.1	4763.0	4766.3
27.5°	5938.1	5879.1	5826.5	5573.8	5206.1	4877.9	4648.1	4602.1	4585.7	4602.1	4612.0
30°	6184.3	6125.3	6007.1	5541.0	4996.1	4552.9	4333.0	4329.7	4378.9	4421.6	4428.2
32.5°	6384.6	6358.3	6164.6	5435.9	4700.6	4195.1	4008.0	4021.1	4109.8	4168.8	4178.7
35°	6542.1	6584.8	6295.9	5261.9	4349.4	3857.0	3709.3	3715.9	3765.1	3847.2	3850.4
37.5°	6765.4	6909.8	6414.1	4996.1	3945.6	3564.9	3430.3	3381.0	3374.5	3397.4	3404.0
40°	7215.1	7431.7	6499.5	4608.7	3555.0	3302.3	3151.3	3056.1	2974.0	2911.6	2891.9
42.5°	7894.6	8144.0	6548.7	4139.3	3207.1	3042.9	2872.2	2750.8	2606.4	2475.0	2429.1
45°	9141.9	9224.0	6548.7	3640.4	2898.5	2800.0	2629.3	2484.9	2301.1	2146.8	2114.0
47.5°	11137.7	10875.1	6555.3	3157.8	2626.0	2586.7	2438.9	2274.8	2071.3	1943.3	1923.6
50°	14144.5	13222.1	6689.9	2757.3	2399.6	2406.1	2297.8	2117.3	1933.4	1838.2	1821.8
52.5°	17551.8	16114.1	7050.9	2461.9	2209.2	2258.4	2199.3	2025.3	1861.2	1779.1	1762.7
55°	20755.6	18773.0	7359.5	2251.8	2048.3	2133.7	2130.4	1969.5	1821.8	1739.8	1729.9
57.5°	23480.1	20594.8	7313.5	2081.1	1910.4	2018.8	2068.0	1933.4	1795.6	1726.6	1716.8
60°	25173.9	21559.8	6660.3	1923.6	1805.4	1936.7	2031.9	1923.6	1808.7	1792.3	1795.6
62.5°	25909.2	21382.6	5406.4	1805.4	1736.5	1897.3	2071.3	1992.5	1930.1	1969.5	1992.5
65°	24766.9	19859.5	3978.5	1716.8	1670.8	1907.2	2163.2	2100.8	1930.1	1956.4	1966.3
67.5°	21596.0	16905.2	2875.5	1628.1	1588.8	1936.7	2294.5	2084.4	1818.5	1818.5	1798.8
70°	15562.6	12158.6	2087.7	1539.5	1506.7	1894.0	2301.1	1972.8	1690.5	1680.7	1631.4
72.5°	9365.1	7172.4	1628.1	1441.0	1382.0	1680.7	2156.6	1841.5	1565.8	1483.7	1424.6
75°	4864.8	3594.4	1365.5	1332.7	1185.0	1424.6	1972.8	1638.0	1339.3	1267.1	1234.2
77.5°	2084.4	1680.7	1171.9	1188.3	984.8	1198.1	1592.0	1418.1	1188.3	1096.4	1066.8
80°	1027.4	955.2	925.7	951.9	787.8	925.7	1372.1	1240.8	1007.7	902.7	860.0
82.5°	587.6	558.0	666.4	676.2	561.3	774.7	1158.7	1050.4	833.8	718.9	649.9
85°	272.5	292.1	403.8	407.0	348.0	531.8	758.3	590.9	443.1	367.6	351.2
87.5°	108.3	128.0	177.3	174.0	101.8	98.5	65.7	36.1	29.5	26.3	23.0
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)