

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: P641202

Luminaire Tested: GWS-SA5F-735-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641202  
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-SA5F-735-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

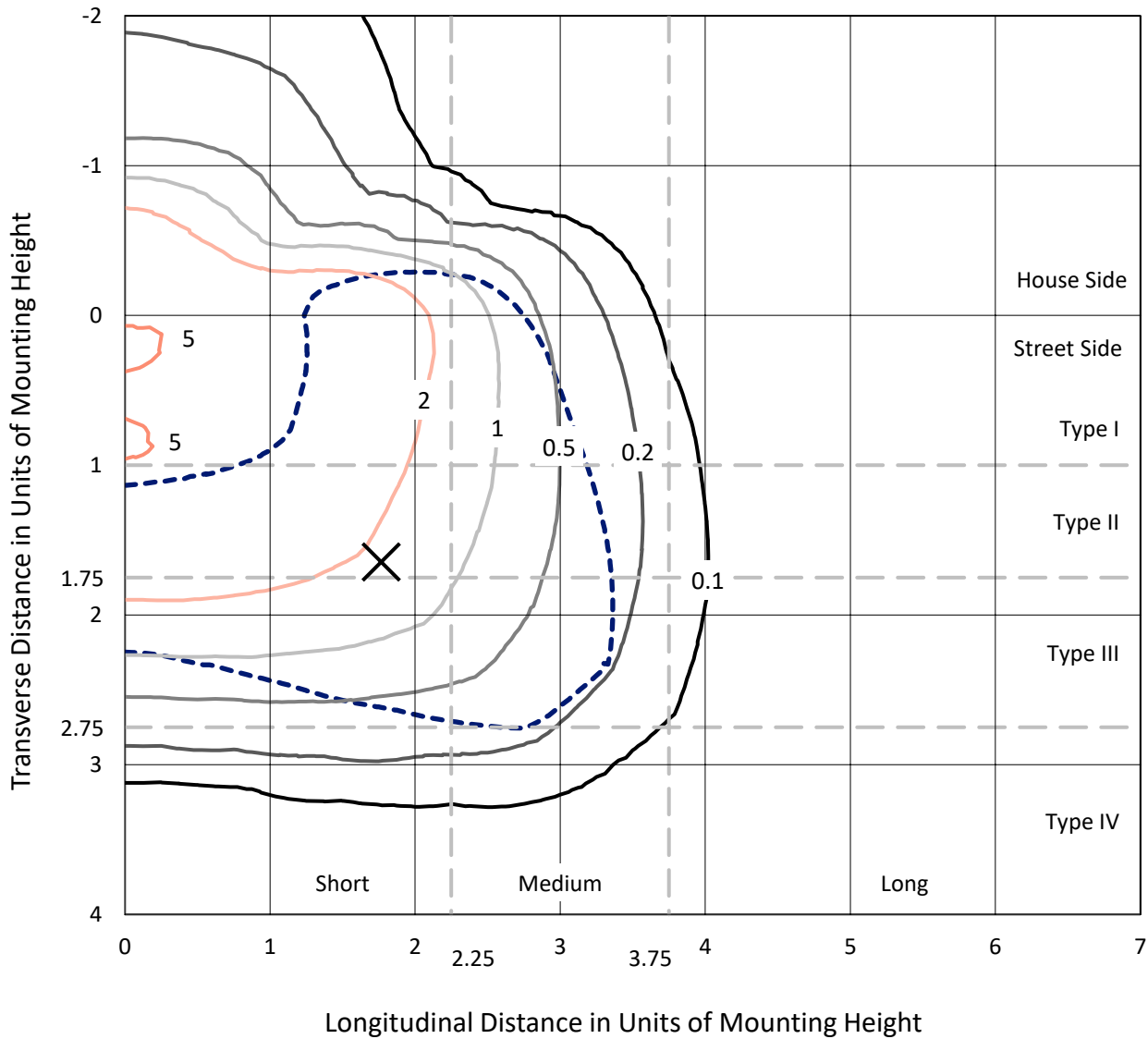
Lumens per Lamp: N/A  
Luminaire Lumens: 40813.7 lumens  
Efficiency: N/A  
Efficacy: 131.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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

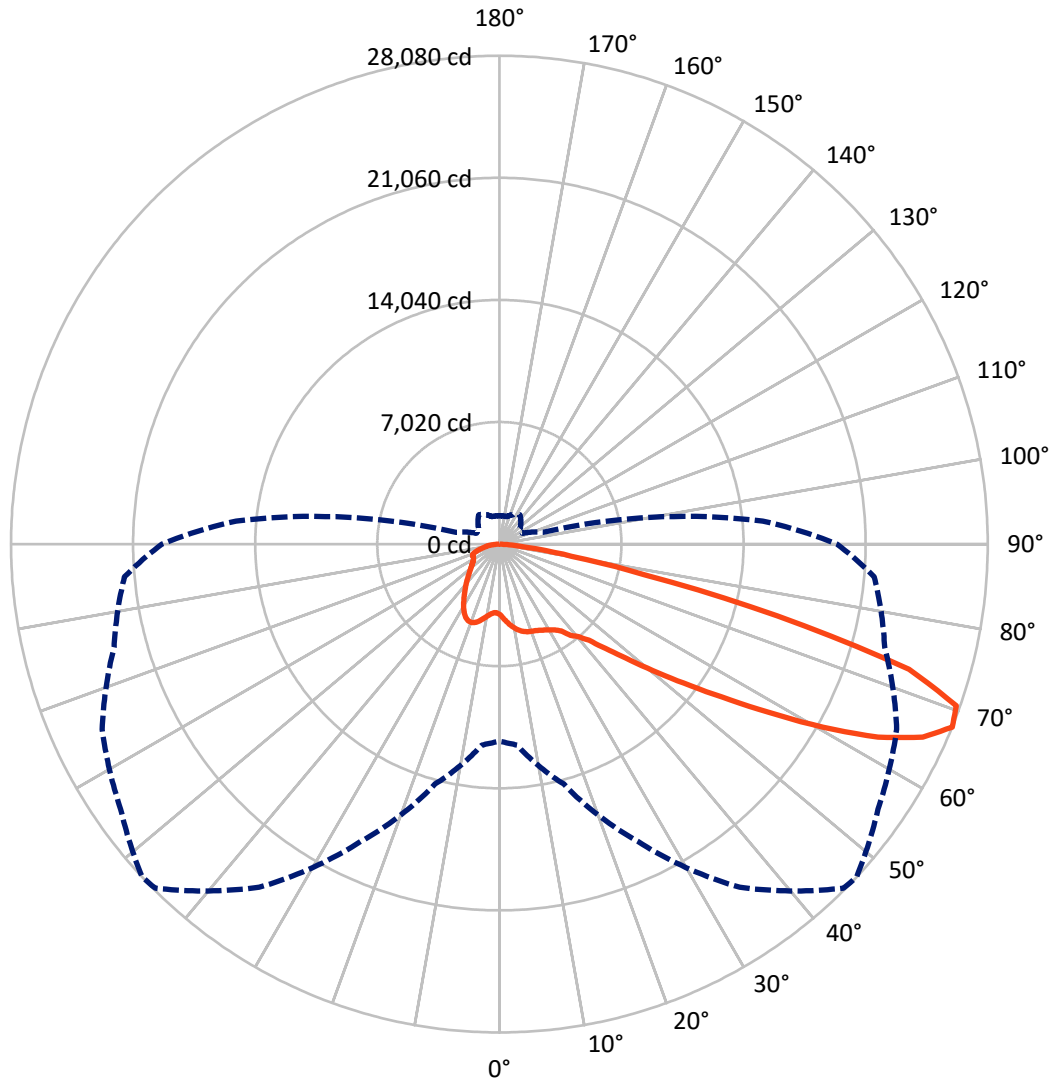
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 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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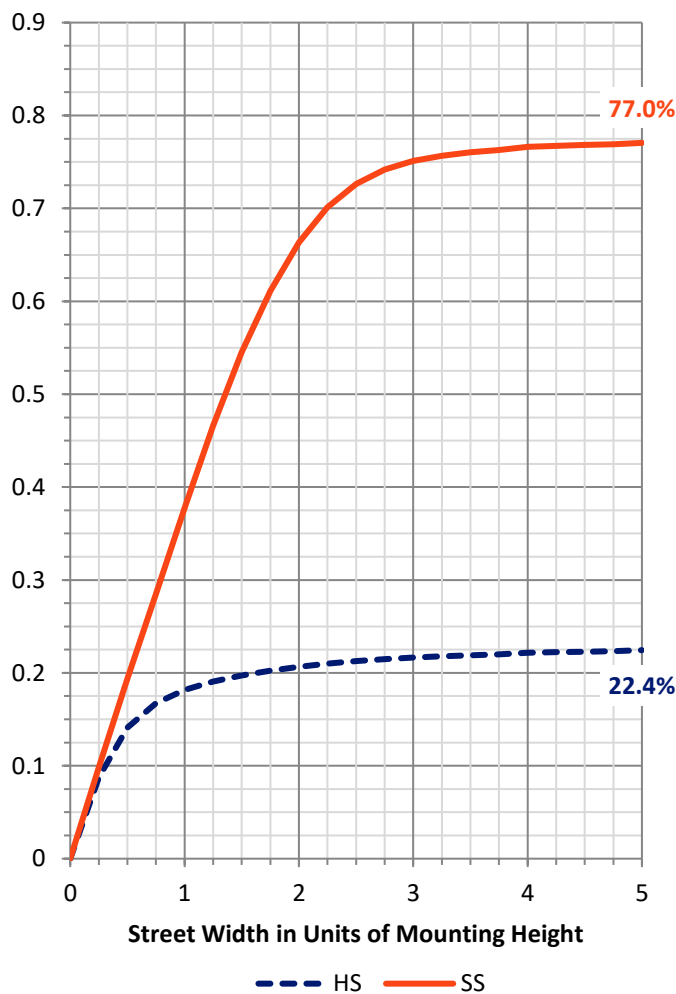
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9301.7	0.0	9301.7
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	31512.0	0.0	31512.0
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	40813.7	0.0	40813.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	413.5	1.0
10°-20°	1377.6	3.4
20°-30°	2341.6	5.7
30°-40°	3430.2	8.4
40°-50°	5226.3	12.8
50°-60°	9351.0	22.9
60°-70°	12477.9	30.6
70°-80°	5642.8	13.8
80°-90°	552.8	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°	40813.7	100.0
0°-180°	40813.7	100.0

**Coefficient of Utilization**



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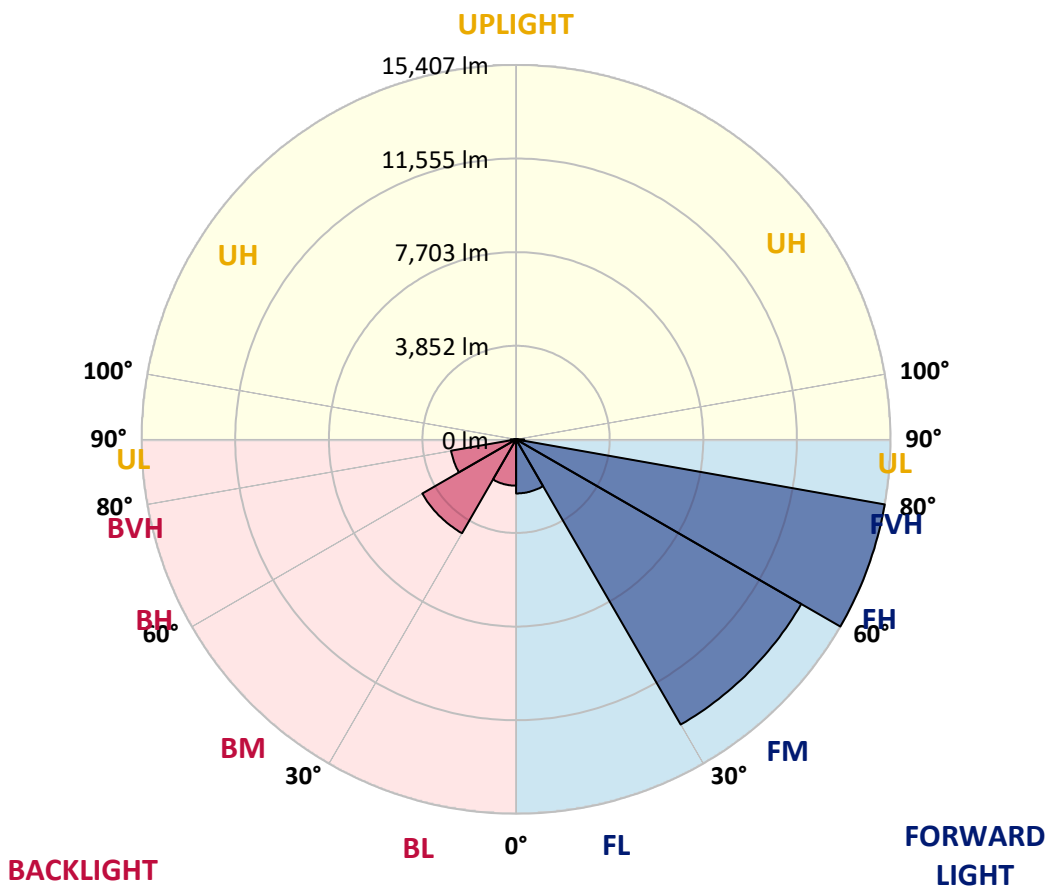
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2225.8	5.5			
FM (30°-60°)	13550.6	33.2			
FH (60°-80°)	15406.7	37.7			G5
FVH (80°-90°)	328.8	0.8			G3/500
BL (0°-30°)	1906.9	4.7	B3/2500		
BM (30°-60°)	4456.9	10.9	B3/5000		
BH (60°-80°)	2713.9	6.6	B4/5000		G4/5000
BVH (80°-90°)	224.0	0.5			G2/225
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°	4045.9	4045.9	4045.9	4045.9	4045.9	4045.9	4045.9	4045.9	4045.9	4045.9	4045.9
2.5°	4314.5	4329.2	4326.3	4302.7	4287.9	4261.4	4264.3	4223.0	4161.0	4119.7	4072.5
5°	4695.2	4718.8	4689.3	4650.9	4591.9	4506.3	4497.4	4403.0	4285.0	4202.3	4116.8
7.5°	5025.7	5040.4	5005.0	4940.1	4854.5	4739.4	4718.8	4606.6	4459.1	4329.2	4205.3
10°	5282.4	5300.1	5252.9	5167.3	5055.2	4940.1	4925.4	4810.3	4653.9	4500.4	4344.0
12.5°	5500.8	5506.7	5456.5	5341.5	5220.5	5102.4	5087.7	4981.4	4836.8	4680.4	4509.2
15°	5627.7	5630.7	5568.7	5441.8	5326.7	5223.4	5214.6	5123.1	4990.3	4842.7	4659.8
17.5°	5618.9	5624.8	5580.5	5468.3	5368.0	5306.0	5297.2	5238.2	5134.9	5002.1	4819.1
20°	5509.7	5515.6	5486.1	5412.3	5359.2	5341.5	5344.4	5326.7	5264.7	5155.5	4969.6
22.5°	5424.1	5432.9	5406.4	5353.3	5347.4	5388.7	5397.5	5406.4	5376.9	5279.5	5099.5
25°	5465.4	5480.2	5438.8	5365.1	5376.9	5468.3	5486.1	5515.6	5492.0	5409.3	5252.9
27.5°	5751.7	5760.5	5654.3	5503.8	5468.3	5565.7	5592.3	5639.5	5621.8	5545.1	5424.1
30°	6415.6	6409.7	6182.5	5813.6	5666.1	5704.4	5725.1	5793.0	5798.9	5748.7	5633.6
32.5°	7351.1	7321.6	6970.4	6383.2	5955.3	5860.8	5884.5	5975.9	6043.8	5990.7	5834.3
35°	8339.7	8313.2	7926.6	7239.0	6489.4	6161.9	6135.3	6206.1	6309.4	6161.9	5937.6
37.5°	9281.1	9239.8	8844.4	7994.5	7147.5	6690.1	6651.7	6580.9	6518.9	6235.6	6064.5
40°	10325.8	10278.6	9933.3	8971.3	7873.5	7094.4	6997.0	6716.7	6660.6	6480.6	6395.0
42.5°	11441.3	11441.3	11155.1	10207.8	8749.9	7672.8	7545.9	7123.9	7182.9	7064.9	6964.5
45°	12556.8	12589.3	12362.1	11453.1	9921.5	8764.7	8561.1	7962.0	8103.7	8050.5	8000.4
47.5°	13507.1	13569.1	13524.8	12725.1	11355.8	10092.7	9782.8	9160.1	9464.1	9591.0	9732.7
50°	14531.1	14599.0	14554.7	14239.0	13034.9	11701.0	11423.6	10780.3	11302.6	11683.3	12146.6
52.5°	16050.9	16148.3	15779.4	15658.4	15074.1	13527.7	13279.9	12548.0	13495.3	14126.8	15159.7
55°	17334.6	17331.7	17201.8	17479.2	17263.8	15761.7	15487.3	14823.3	16033.2	16703.1	18214.1
57.5°	17930.8	18001.6	18447.2	19232.2	19663.0	18491.5	18228.8	17550.1	18757.1	19105.3	20737.2
60°	18237.7	18326.2	19187.9	20740.2	21900.0	21472.1	21368.8	20504.1	21182.8	21141.5	22865.0
62.5°	17806.8	17983.9	19367.9	21430.7	23496.5	24467.4	24434.9	23127.6	23245.6	22841.4	24184.1
65°	15829.6	16021.4	18193.4	21085.5	24408.4	26745.6	26754.5	25503.2	24830.4	23667.7	23962.8
67.5°	11320.3	11594.8	14280.3	18866.2	24086.7	27976.2	28079.5	26580.4	25202.2	22935.8	21637.3
70°	6170.7	6371.4	8475.5	13713.7	21188.7	27681.1	27872.9	26061.0	23561.4	19840.1	16655.9
72.5°	2803.5	2868.4	3942.6	7525.3	14475.0	23827.0	24629.7	23257.5	19350.2	14655.1	10591.4
75°	1283.7	1313.2	1717.5	3600.3	7563.6	15944.7	16508.3	17322.8	13465.8	9254.6	5521.5
77.5°	805.6	814.5	976.8	1646.7	3771.5	7959.1	8552.2	10314.0	7885.3	4580.1	2307.7
80°	475.1	484.0	607.9	891.2	1770.6	3641.6	4205.3	4078.4	3706.6	1977.2	1050.6
82.5°	239.0	247.9	351.2	507.6	965.0	1449.0	1705.7	1714.6	1381.1	1071.2	593.2
85°	85.6	88.5	115.1	200.7	410.2	478.1	534.1	652.2	675.8	622.7	286.3
87.5°	0.0	0.0	3.0	5.9	11.8	47.2	50.2	94.4	197.7	221.3	115.1
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°	4045.9	4045.9	4045.9	4045.9	4045.9	4045.9	4045.9	4045.9	4045.9	4045.9	4045.9
2.5°	4057.7	4013.5	3998.7	3984.0	3960.3	3951.5	3933.8	3916.1	3916.1	3898.4	3889.5
5°	4078.4	4019.4	3981.0	3963.3	3948.5	3957.4	3957.4	3963.3	3984.0	3972.2	3978.1
7.5°	4152.2	4084.3	4031.2	4016.4	4016.4	4051.8	4075.4	4105.0	4143.3	4149.2	4149.2
10°	4282.0	4202.3	4146.3	4137.4	4152.2	4202.3	4237.7	4273.2	4320.4	4323.3	4329.2
12.5°	4423.7	4344.0	4287.9	4299.7	4314.5	4379.4	4417.8	4447.3	4494.5	4494.5	4491.5
15°	4571.2	4482.7	4435.5	4459.1	4503.3	4577.1	4583.0	4586.0	4609.6	4603.7	4600.7
17.5°	4724.7	4630.2	4594.8	4630.2	4677.5	4712.9	4683.4	4642.0	4633.2	4621.4	4615.5
20°	4875.2	4777.8	4763.0	4789.6	4804.4	4774.8	4683.4	4606.6	4571.2	4553.5	4547.6
22.5°	5005.0	4922.4	4913.5	4913.5	4839.8	4736.5	4600.7	4497.4	4450.2	4426.6	4420.7
25°	5158.5	5081.8	5067.0	4987.3	4798.5	4609.6	4426.6	4332.2	4293.8	4282.0	4285.0
27.5°	5338.5	5285.4	5238.2	5010.9	4680.4	4385.3	4178.7	4137.4	4122.7	4137.4	4146.3
30°	5559.8	5506.7	5400.5	4981.4	4491.5	4093.1	3895.4	3892.5	3936.7	3975.1	3981.0
32.5°	5739.8	5716.2	5542.1	4887.0	4225.9	3771.5	3603.3	3615.1	3694.8	3747.9	3756.7
35°	5881.5	5919.9	5660.2	4730.6	3910.2	3467.5	3334.7	3340.6	3384.9	3458.7	3461.6
37.5°	6082.2	6212.0	5766.4	4491.5	3547.2	3204.9	3083.9	3039.6	3033.7	3054.4	3060.3
40°	6486.5	6681.2	5843.1	4143.3	3196.0	2968.8	2833.0	2747.5	2673.7	2617.6	2599.9
42.5°	7097.3	7321.6	5887.4	3721.3	2883.2	2735.7	2582.2	2473.0	2343.2	2225.1	2183.8
45°	8218.8	8292.5	5887.4	3272.7	2605.8	2517.3	2363.8	2234.0	2068.7	1930.0	1900.5
47.5°	10013.0	9776.9	5893.3	2838.9	2360.9	2325.5	2192.7	2045.1	1862.1	1747.0	1729.3
50°	12716.2	11886.9	6014.3	2478.9	2157.2	2163.1	2065.8	1903.4	1738.2	1652.6	1637.8
52.5°	15779.4	14486.8	6338.9	2213.3	1986.1	2030.3	1977.2	1820.8	1673.3	1599.5	1584.7
55°	18659.7	16877.2	6616.3	2024.4	1841.5	1918.2	1915.3	1770.6	1637.8	1564.1	1555.2
57.5°	21109.1	18515.1	6575.0	1871.0	1717.5	1814.9	1859.2	1738.2	1614.2	1552.3	1543.4
60°	22631.8	19382.7	5987.7	1729.3	1623.1	1741.1	1826.7	1729.3	1626.0	1611.3	1614.2
62.5°	23292.9	19223.3	4860.4	1623.1	1561.1	1705.7	1862.1	1791.3	1735.2	1770.6	1791.3
65°	22265.9	17854.0	3576.7	1543.4	1502.1	1714.6	1944.8	1888.7	1735.2	1758.8	1767.7
67.5°	19415.1	15198.1	2585.1	1463.7	1428.3	1741.1	2062.8	1873.9	1634.9	1634.9	1617.2
70°	13991.1	10930.8	1876.9	1384.1	1354.5	1702.8	2068.7	1773.6	1519.8	1511.0	1466.7
72.5°	8419.4	6448.1	1463.7	1295.5	1242.4	1511.0	1938.9	1655.6	1407.7	1333.9	1280.8
75°	4373.5	3231.4	1227.6	1198.1	1065.3	1280.8	1773.6	1472.6	1204.0	1139.1	1109.6
77.5°	1873.9	1511.0	1053.5	1068.3	885.3	1077.1	1431.3	1274.9	1068.3	985.7	959.1
80°	923.7	858.8	832.2	855.8	708.3	832.2	1233.6	1115.5	906.0	811.5	773.2
82.5°	528.2	501.7	599.1	607.9	504.6	696.5	1041.7	944.3	749.6	646.3	584.3
85°	244.9	262.6	363.0	365.9	312.8	478.1	681.7	531.2	398.4	330.5	315.8
87.5°	97.4	115.1	159.4	156.4	91.5	88.5	59.0	32.5	26.6	23.6	20.7
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)