

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: P643747

Luminaire Tested: GWS-SA6F-750-U-RW-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643747  
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-SA6F-750-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) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 44879.5 lumens  
Efficiency: N/A  
Efficacy: 120.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2  
  
Input Watts (W): 372.6  
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

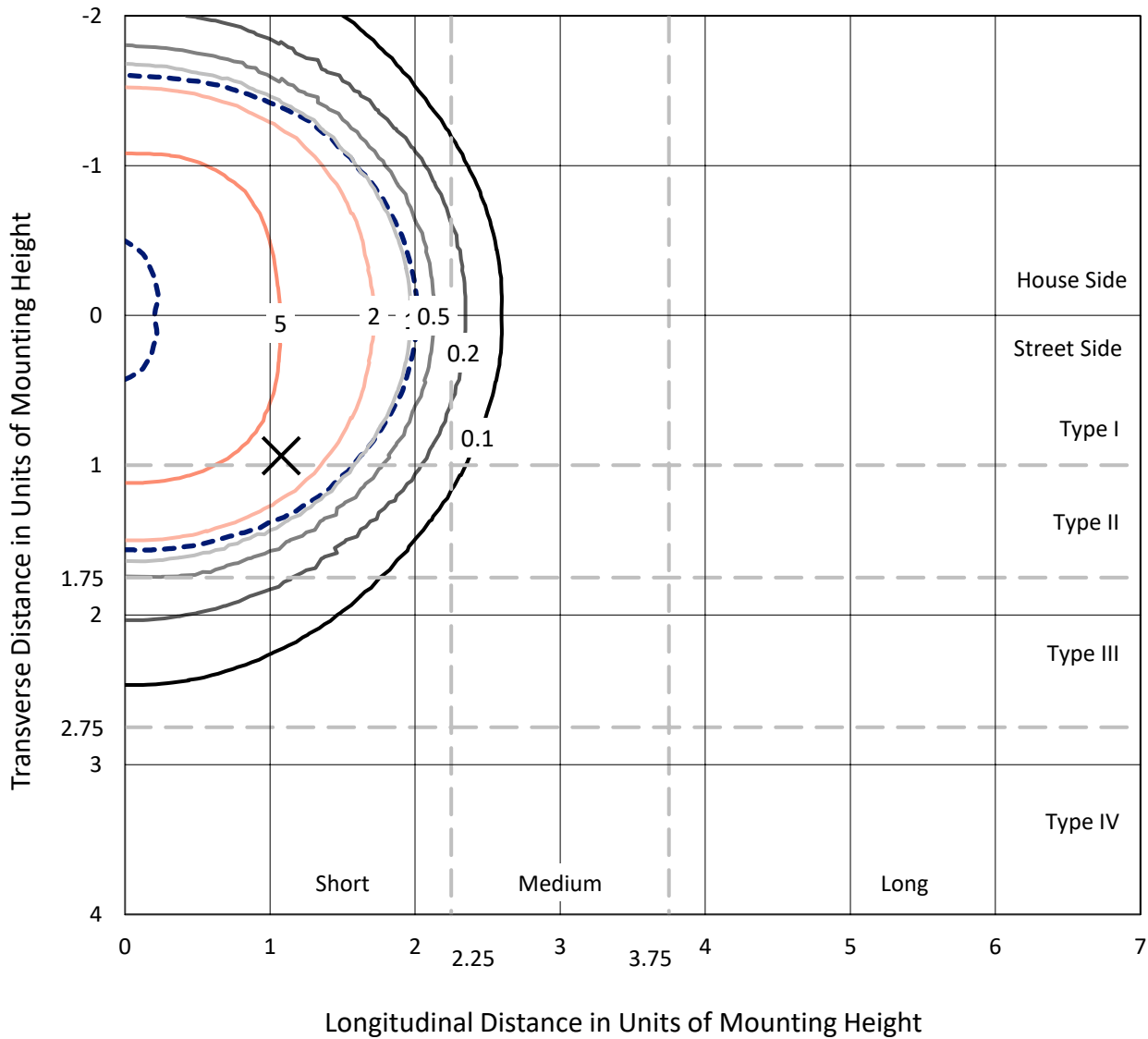


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### Iso-Footcandle Lines of Horizontal Illumination

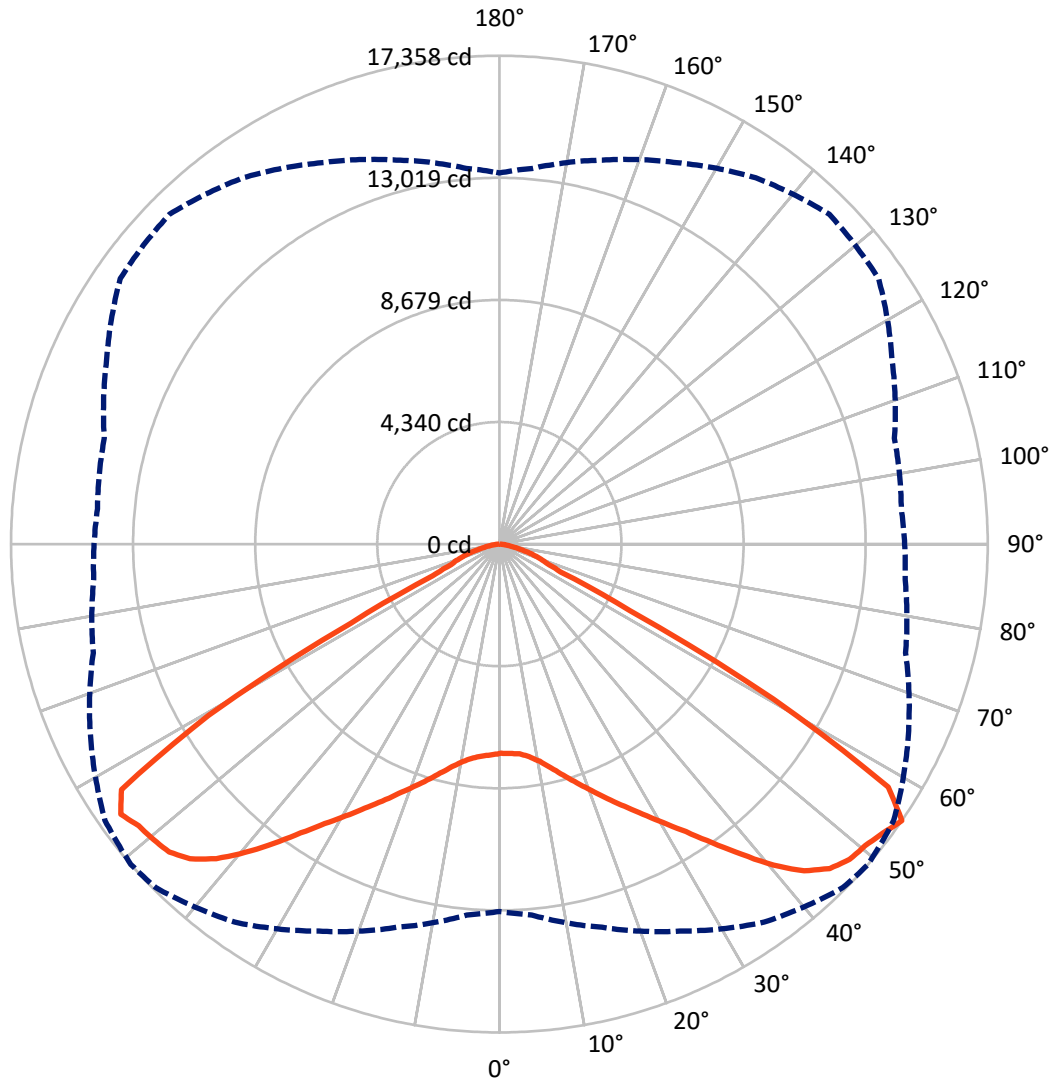
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.2 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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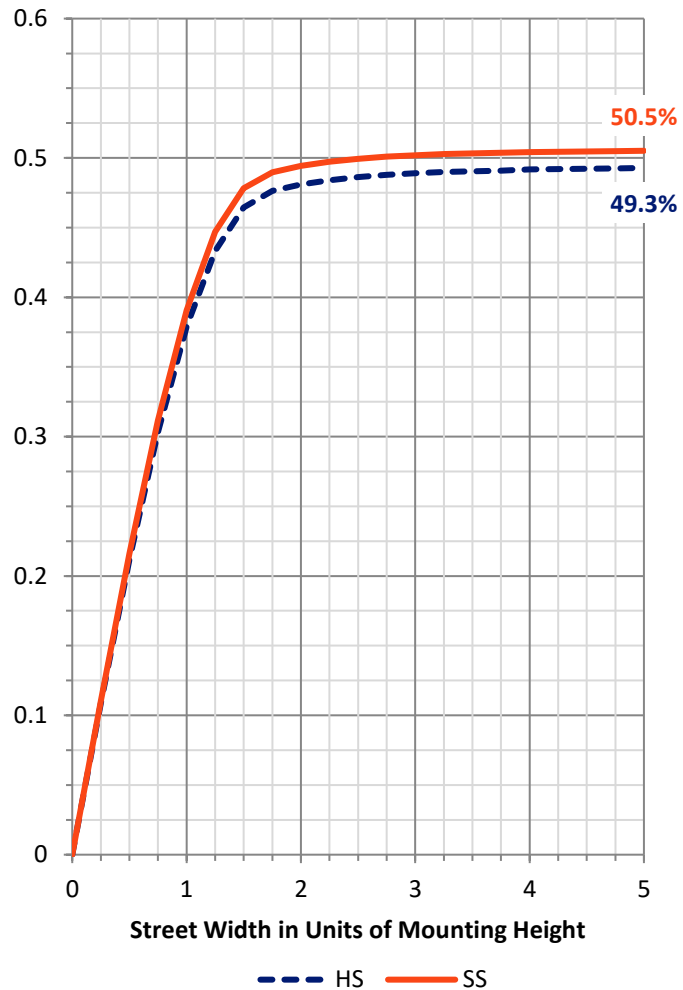
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	22219.6	0.0	22219.6
	% Fixture	49.5	0.0	49.5
<b>Street Side</b>	Lumens	22659.9	0.0	22659.9
	% Fixture	50.5	0.0	50.5
<b>Total</b>	Lumens	44879.5	0.0	44879.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	725.2	1.6
10°-20°	2392.2	5.3
20°-30°	4556.4	10.2
30°-40°	7724.0	17.2
40°-50°	11624.1	25.9
50°-60°	12723.8	28.4
60°-70°	4023.3	9.0
70°-80°	965.6	2.2
80°-90°	144.9	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°	44879.5	100.0
0°-180°	44879.5	100.0

**Coefficient of Utilization**



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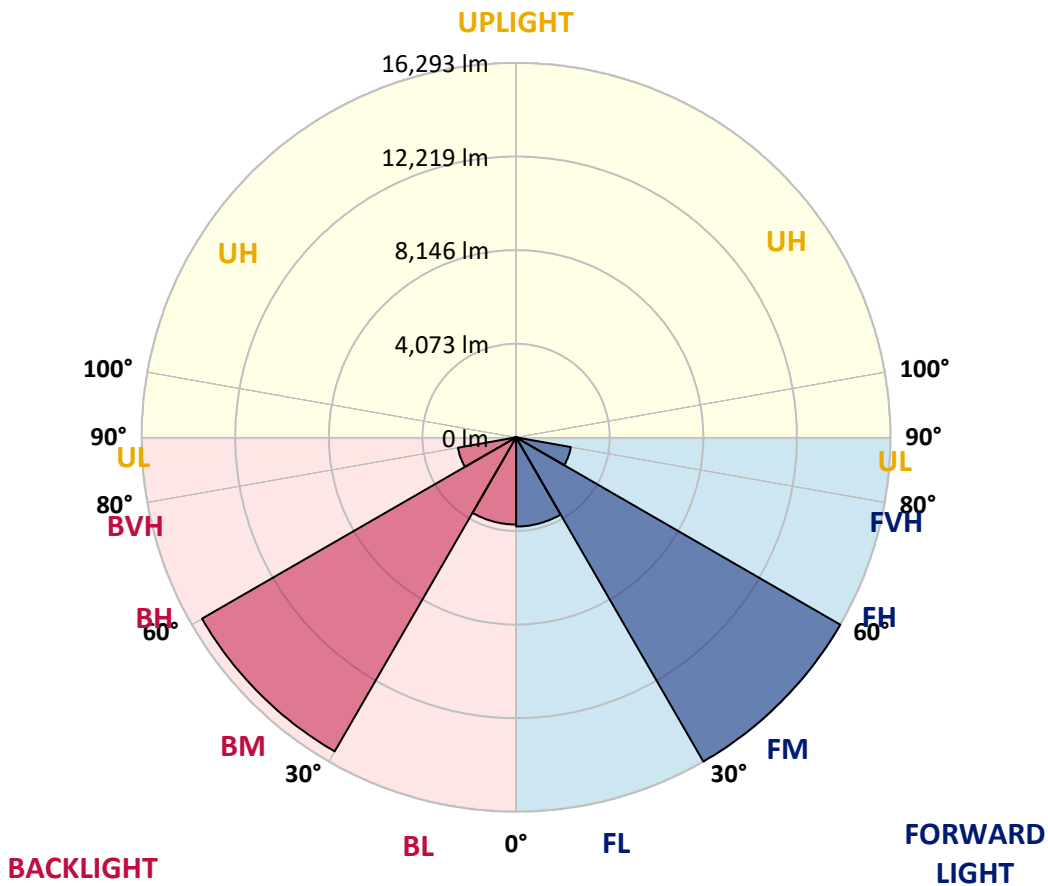
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3880.2	8.6			
FM (30°-60°)	16292.5	36.3			
FH (60°-80°)	2420.1	5.4			G2/5000
FVH (80°-90°)	67.1	0.1			G1/100
BL (0°-30°)	3793.6	8.5	B4/5000		
BM (30°-60°)	15779.4	35.2	B5		
BH (60°-80°)	2568.8	5.7	B4/5000		G2/5000
BVH (80°-90°)	77.8	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-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	7434.6	7434.6	7434.6	7434.6	7434.6	7434.6	7434.6	7434.6	7434.6	7434.6	7434.6
2.5°	7325.1	7332.4	7347.0	7372.5	7398.1	7434.6	7449.2	7467.4	7463.8	7485.7	7485.7
5°	7288.6	7299.5	7321.4	7357.9	7401.7	7471.1	7489.3	7533.1	7576.9	7631.6	7649.9
7.5°	7332.4	7347.0	7372.5	7430.9	7496.6	7587.9	7624.3	7697.3	7781.3	7879.8	7920.0
10°	7416.3	7434.6	7478.4	7573.3	7679.1	7817.8	7850.6	7941.9	8076.9	8212.0	8292.3
12.5°	7511.2	7540.4	7620.7	7770.3	7927.3	8109.8	8160.9	8274.0	8420.0	8595.2	8704.7
15°	7620.7	7646.2	7770.3	7982.0	8226.6	8467.4	8525.8	8635.3	8799.6	8971.1	9124.4
17.5°	7850.6	7894.4	8040.4	8285.0	8569.6	8854.3	8920.0	9044.1	9175.5	9310.5	9456.5
20°	8164.5	8201.0	8387.1	8690.1	9025.9	9285.0	9350.7	9460.2	9522.2	9591.6	9715.7
22.5°	8478.4	8529.5	8741.2	9098.9	9493.0	9774.1	9825.2	9927.3	9883.6	9861.7	9941.9
25°	8868.9	8938.3	9146.3	9536.8	9938.3	10285.0	10325.2	10412.8	10339.8	10226.6	10223.0
27.5°	9354.3	9416.4	9631.7	10033.2	10431.0	10792.3	10869.0	10985.8	10825.2	10686.5	10588.0
30°	9931.0	9971.1	10208.4	10635.4	11044.2	11387.3	11485.8	11602.6	11482.1	11252.2	11153.7
32.5°	10602.6	10657.3	10931.0	11380.0	11744.9	12088.0	12186.5	12332.5	12201.1	11942.0	11817.9
35°	11409.2	11463.9	11752.2	12241.3	12613.6	12967.6	13036.9	13157.4	12993.1	12693.9	12595.3
37.5°	12285.1	12354.4	12719.4	13182.9	13573.5	13985.9	13989.5	14026.0	13792.4	13420.2	13310.7
40°	13270.5	13361.8	13726.7	14208.5	14679.3	15015.1	15011.5	14909.3	14515.1	13938.4	13770.5
42.5°	14245.0	14318.0	14686.6	15183.0	15653.8	15971.4	15876.5	15628.3	15058.9	14274.2	14051.6
45°	14949.4	15004.2	15391.0	15949.5	16427.6	16624.7	16453.1	16153.8	15383.7	14485.9	14157.4
47.5°	15281.5	15354.5	15745.1	16299.8	16840.0	16953.1	16748.7	16467.7	15573.5	14683.0	14241.4
50°	15102.7	15197.6	15639.2	16153.8	16763.3	16996.9	16850.9	16569.9	15774.3	14876.4	14391.0
52.5°	14639.2	14730.4	15288.8	15913.0	16602.8	17066.3	17062.6	16832.7	16004.2	14931.2	14398.3
55°	13055.2	13234.0	14102.7	15179.4	16405.7	17270.7	17358.3	17113.7	16040.7	14945.8	14474.9
57.5°	8496.6	8810.5	9635.4	11036.9	13496.8	15708.6	16299.8	16358.2	15777.9	14883.7	14489.5
60°	3547.6	3799.4	4452.7	5383.4	7416.3	10047.8	11193.8	12343.5	13730.4	14234.1	14354.5
62.5°	2204.5	2226.4	2292.0	2503.7	3182.6	4467.3	5204.6	6281.2	8343.4	10098.9	10909.1
65°	1989.1	2000.1	2014.7	2000.1	2032.9	2189.9	2386.9	2762.9	3602.3	4474.6	5511.1
67.5°	1751.9	1766.5	1777.4	1766.5	1777.4	1784.7	1806.6	1839.5	1992.8	2116.9	2211.8
70°	1416.1	1438.0	1456.3	1449.0	1492.8	1492.8	1514.7	1540.2	1616.8	1708.1	1773.8
72.5°	1080.3	1062.1	1084.0	1091.3	1131.4	1153.3	1186.2	1215.4	1303.0	1357.7	1441.7
75°	700.8	682.5	715.4	733.6	788.3	817.5	846.7	875.9	938.0	974.5	1054.8
77.5°	379.6	375.9	408.8	434.3	492.7	529.2	551.1	573.0	624.1	635.1	686.2
80°	219.0	219.0	240.9	259.1	295.6	335.8	357.7	375.9	412.4	423.4	445.3
82.5°	120.4	120.4	131.4	142.3	171.5	193.4	211.7	226.3	259.1	270.1	281.0
85°	58.4	54.7	62.0	69.3	80.3	91.2	102.2	109.5	135.0	142.3	156.9
87.5°	7.3	7.3	7.3	10.9	14.6	21.9	25.5	25.5	40.1	47.4	54.7
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°	7434.6	7434.6	7434.6	7434.6	7434.6	7434.6	7434.6	7434.6	7434.6	7434.6	7434.6
2.5°	7507.6	7460.1	7489.3	7500.3	7500.3	7489.3	7441.9	7427.3	7405.4	7372.5	7372.5
5°	7675.4	7638.9	7646.2	7628.0	7584.2	7529.5	7441.9	7398.1	7361.6	7321.4	7317.8
7.5°	7963.8	7916.3	7909.0	7839.7	7722.9	7606.1	7474.7	7394.4	7339.7	7288.6	7284.9
10°	8339.7	8295.9	8241.2	8102.5	7930.9	7759.4	7580.6	7471.1	7390.8	7317.8	7314.1
12.5°	8759.4	8708.3	8606.1	8401.7	8186.4	8018.5	7814.1	7646.2	7525.8	7427.3	7409.0
15°	9215.6	9142.6	8967.5	8726.6	8514.9	8336.1	8117.1	7876.2	7693.7	7536.8	7518.5
17.5°	9566.0	9471.1	9281.3	9055.1	8879.9	8701.0	8416.3	8113.4	7850.6	7653.5	7624.3
20°	9806.9	9730.3	9514.9	9347.0	9244.8	9087.9	8755.8	8412.7	8117.1	7868.9	7854.3
22.5°	10029.5	9938.3	9726.6	9628.1	9628.1	9522.2	9204.7	8799.6	8452.8	8164.5	8128.0
25°	10281.4	10182.8	10022.2	10011.3	10062.4	10014.9	9631.7	9197.4	8792.3	8467.4	8409.0
27.5°	10631.8	10522.3	10427.4	10493.1	10566.1	10515.0	10087.9	9584.3	9157.2	8828.8	8777.7
30°	11190.2	11055.1	10967.5	11047.8	11190.2	11040.5	10577.0	10044.1	9613.5	9252.1	9226.6
32.5°	11839.8	11686.5	11595.3	11723.0	11850.8	11617.2	11157.3	10646.4	10193.8	9814.2	9770.4
35°	12620.9	12427.4	12292.4	12463.9	12595.3	12365.4	11909.2	11423.7	10920.1	10525.9	10467.5
37.5°	13314.3	13080.7	12989.5	13230.4	13405.6	13255.9	12759.6	12303.3	11752.2	11321.6	11296.0
40°	13818.0	13588.1	13522.4	13920.2	14226.8	14190.3	13745.0	13223.1	12704.8	12208.4	12161.0
42.5°	14037.0	13876.4	13891.0	14427.5	14902.0	15135.6	14737.7	14179.3	13679.3	13164.7	13131.8
45°	14084.4	13985.9	14102.7	14774.2	15398.3	15876.5	15537.0	15069.9	14504.1	14007.8	13993.2
47.5°	14135.5	14080.8	14259.6	14971.3	15712.2	16267.0	16077.2	15595.4	15022.4	14537.0	14500.5
50°	14256.0	14234.1	14434.8	15110.0	15861.9	16372.8	16157.5	15679.4	15091.8	14613.6	14526.0
52.5°	14292.5	14256.0	14544.3	15325.3	16110.0	16369.2	15905.7	15281.5	14690.3	14157.4	14066.2
55°	14405.6	14339.9	14537.0	15405.6	16453.1	16580.9	15891.1	14956.7	14131.9	13405.6	13190.2
57.5°	14434.8	14361.8	14489.5	15274.2	16080.8	15967.7	13967.6	12069.8	10515.0	9708.4	9799.6
60°	14277.9	14299.8	14080.8	13993.2	12898.3	11387.3	8551.4	6836.0	5368.8	4748.3	4883.4
62.5°	10869.0	10960.2	10212.0	8879.9	6828.7	5412.6	3580.4	2781.1	2354.1	2244.6	2262.9
65°	5485.6	5609.7	4832.3	3996.5	2970.9	2401.5	2076.7	2011.0	1989.1	1963.6	1963.6
67.5°	2171.6	2208.1	2178.9	2040.2	1897.9	1846.8	1832.2	1824.9	1799.3	1784.7	1788.4
70°	1744.6	1773.8	1730.0	1642.4	1584.0	1580.3	1573.0	1558.4	1540.2	1540.2	1551.1
72.5°	1423.4	1452.6	1390.6	1335.8	1292.0	1259.2	1240.9	1230.0	1204.4	1204.4	1215.4
75°	1047.5	1065.7	1014.6	1007.3	959.9	927.0	897.8	883.2	850.4	835.8	846.7
77.5°	697.1	693.5	667.9	667.9	649.7	609.5	576.7	543.8	500.0	470.8	478.1
80°	452.6	452.6	441.6	441.6	423.4	390.5	350.4	317.5	292.0	270.1	270.1
82.5°	288.3	284.7	281.0	277.4	270.1	237.2	208.0	186.1	167.9	153.3	156.9
85°	160.6	160.6	153.3	153.3	138.7	120.4	105.8	91.2	80.3	76.6	76.6
87.5°	54.7	54.7	51.1	51.1	43.8	32.8	25.5	21.9	18.2	14.6	18.2
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)