

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: P643638

Luminaire Tested: GWS-SA6F-735-U-RW-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643638  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6F-735-U-RW-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 50532.5 lumens  
Efficiency: N/A  
Efficacy: 135.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5  
  
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

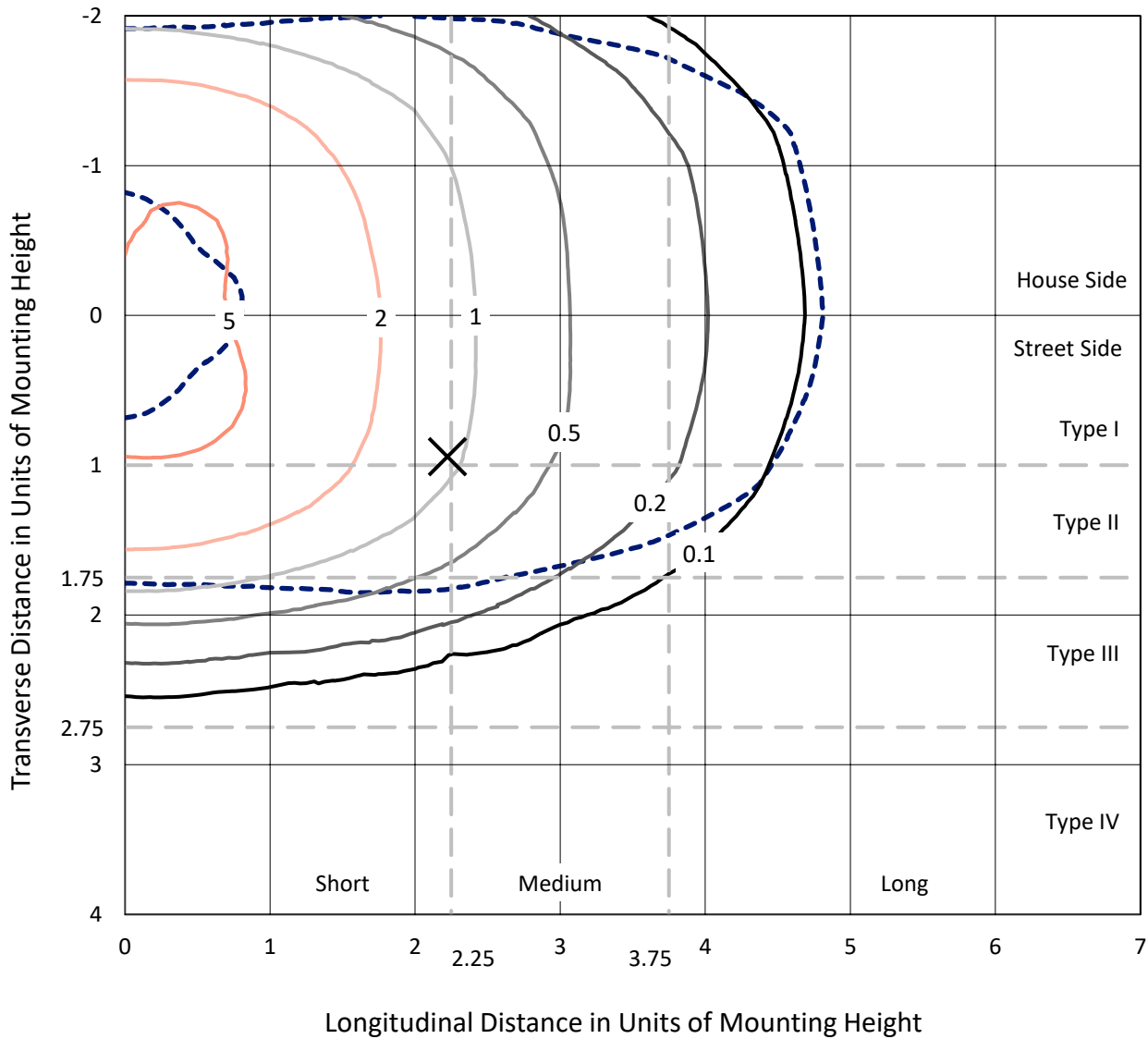


REPORT NUMBER: P643638

CATALOG NUMBER: GWS-SA6F-735-U-RW-W

### Iso-Footcandle Lines of Horizontal Illumination

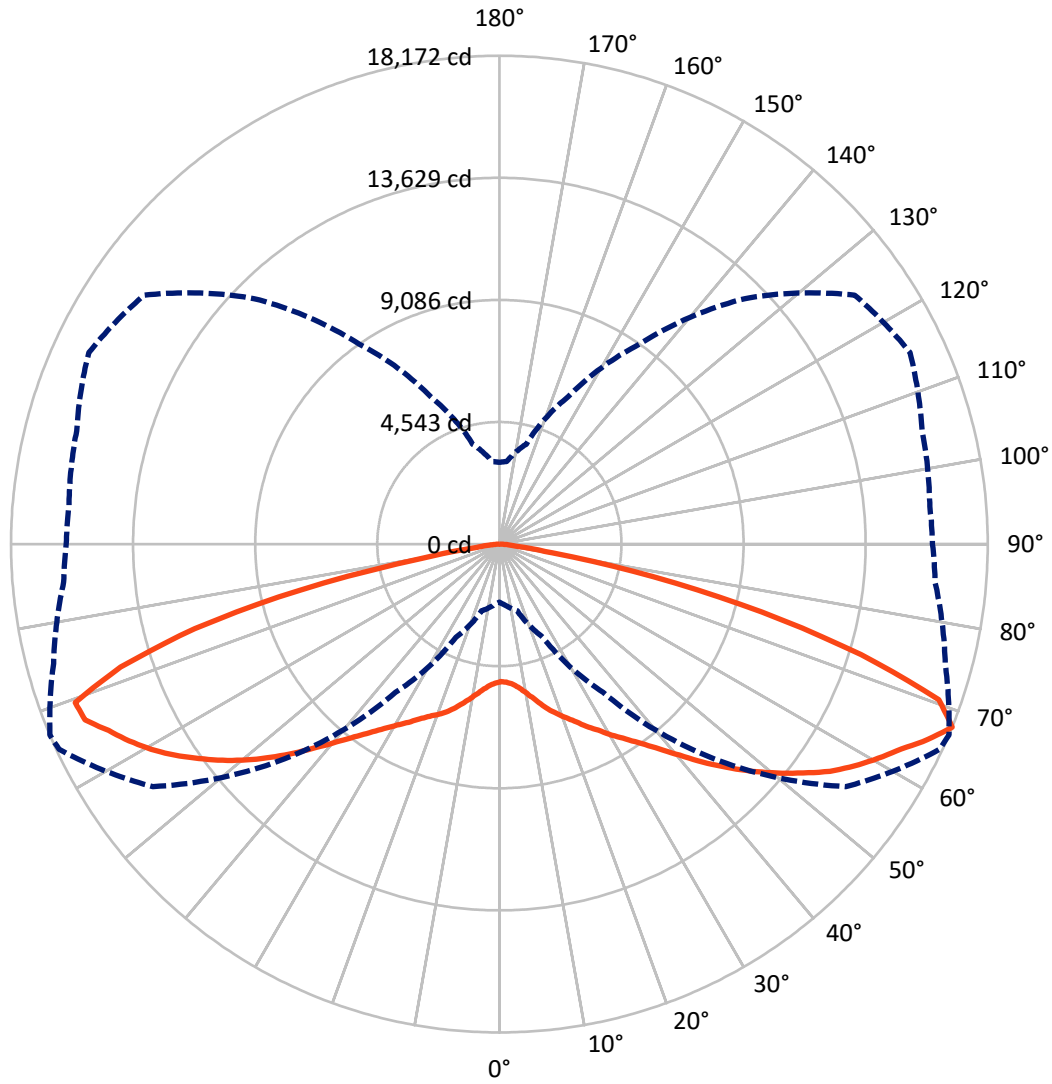
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 fc  
 Type III - Short - N/A

REPORT NUMBER: P643638  
CATALOG NUMBER: GWS-SA6F-735-U-RW-W

### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P643638

CATALOG NUMBER: GWS-SA6F-735-U-RW-W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	24987.4	0.0	24987.4
	% Fixture	49.4	0.0	49.4
<b>Street Side</b>	Lumens	25545.1	0.0	25545.1
	% Fixture	50.6	0.0	50.6
<b>Total</b>	Lumens	50532.5	0.0	50532.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	502.0	1.0
10°-20°	1696.0	3.4
20°-30°	3327.5	6.6
30°-40°	5669.0	11.2
40°-50°	9103.3	18.0
50°-60°	12369.4	24.5
60°-70°	11832.2	23.4
70°-80°	5625.5	11.1
80°-90°	407.7	0.8
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°	50532.5	100.0
0°-180°	50532.5	100.0

**Coefficient of Utilization**



REPORT NUMBER: P643638

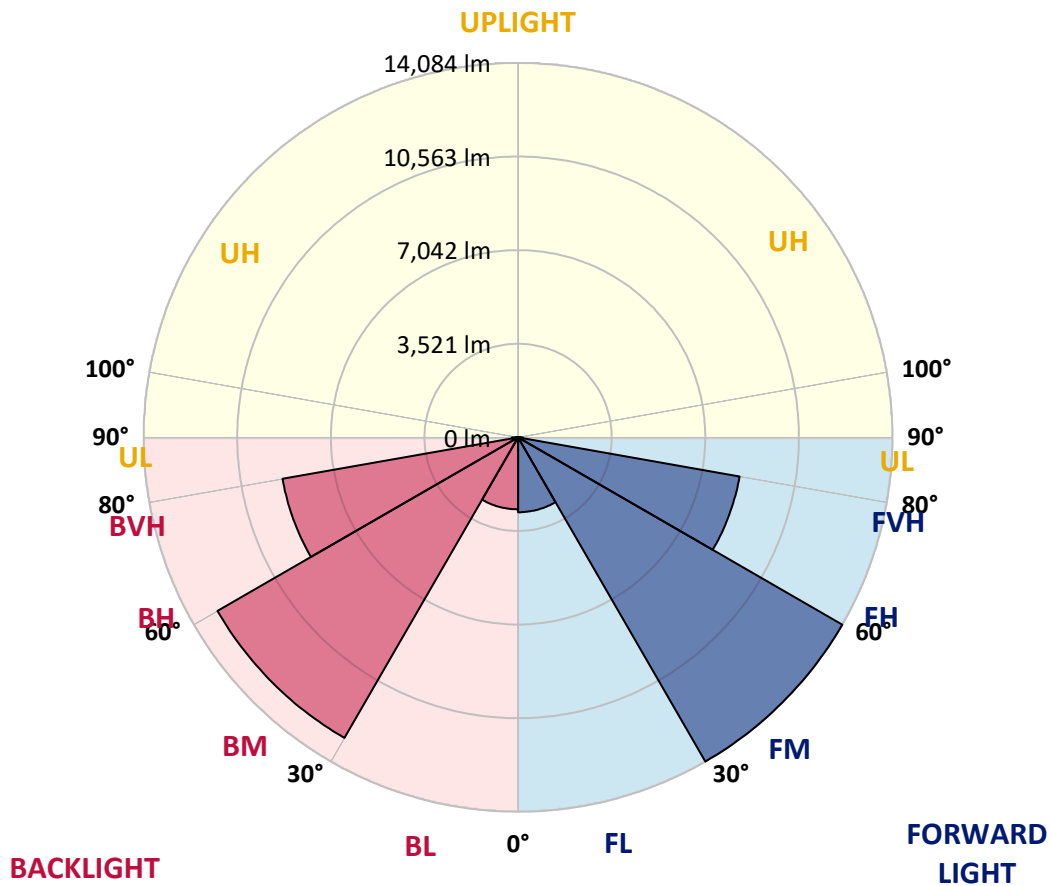
CATALOG NUMBER: GWS-SA6F-735-U-RW-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2817.6	5.6			
FM (30°-60°)	14083.8	27.9			
FH (60°-80°)	8460.5	16.7			G4/12000
FVH (80°-90°)	183.2	0.4			G2/225
BL (0°-30°)	2707.9	5.4	B4/5000		
BM (30°-60°)	13057.8	25.8	B5		
BH (60°-80°)	8997.2	17.8	B5		G5
BVH (80°-90°)	224.4	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type III Short





REPORT NUMBER: P643638  
 CATALOG NUMBER: GWS-SA6F-735-U-RW-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5116.7	5116.7	5116.7	5116.7	5116.7	5116.7	5116.7	5116.7	5116.7	5116.7	5116.7
2.5°	5011.1	5018.2	5028.7	5049.8	5070.9	5102.6	5134.3	5130.8	5144.8	5155.4	5166.0
5°	4983.0	4990.0	5007.6	5035.8	5067.4	5120.2	5187.1	5215.2	5236.3	5275.1	5310.2
7.5°	5042.8	5056.9	5081.5	5120.2	5169.5	5236.3	5327.8	5377.1	5408.8	5479.2	5539.0
10°	5123.7	5141.3	5190.6	5264.5	5338.4	5440.4	5556.6	5630.5	5651.6	5743.1	5855.7
12.5°	5201.2	5222.3	5303.2	5436.9	5570.7	5707.9	5845.1	5936.6	5943.7	6066.8	6193.5
15°	5324.3	5341.9	5451.0	5623.4	5827.5	6017.6	6186.5	6249.8	6278.0	6366.0	6524.3
17.5°	5595.3	5616.4	5757.2	5943.7	6158.3	6358.9	6527.8	6580.6	6580.6	6654.5	6784.7
20°	5887.4	5908.5	6095.0	6334.3	6594.7	6798.8	6929.0	6879.7	6862.1	6883.3	6974.8
22.5°	6214.6	6253.4	6432.8	6710.8	7031.1	7280.9	7347.8	7200.0	7150.7	7101.4	7122.6
25°	6633.4	6679.2	6855.1	7150.7	7463.9	7727.8	7766.5	7537.8	7509.7	7337.2	7273.9
27.5°	7115.5	7150.7	7368.9	7661.0	7953.1	8174.8	8217.0	7935.5	7840.4	7601.1	7453.3
30°	7738.4	7770.1	7960.1	8248.7	8502.0	8656.9	8709.6	8322.6	8248.7	7882.7	7653.9
32.5°	8417.6	8431.6	8625.2	8903.2	9128.4	9276.2	9202.3	8751.9	8642.8	8231.1	7917.9
35°	9195.3	9195.3	9445.1	9670.3	9849.8	9892.0	9751.3	9237.5	9110.8	8663.9	8273.3
37.5°	9958.9	9980.0	10212.3	10479.7	10638.1	10631.0	10374.2	9811.1	9666.8	9181.2	8748.4
40°	10785.9	10831.6	11063.9	11363.0	11514.3	11493.2	11099.1	10472.7	10324.9	9751.3	9329.0
42.5°	11546.0	11619.9	11890.9	12197.0	12362.4	12348.3	11936.6	11232.8	11088.5	10441.0	10018.7
45°	12151.3	12228.7	12566.5	12992.3	13256.3	13231.6	12816.4	12021.1	11845.1	11165.9	10701.4
47.5°	12682.7	12763.6	13140.1	13590.6	14009.3	14051.6	13671.5	12816.4	12629.9	11943.7	11419.3
50°	13090.9	13129.6	13551.9	14044.5	14530.2	14765.9	14435.1	13615.2	13390.0	12710.8	12119.6
52.5°	13059.2	13112.0	13632.8	14301.4	14952.4	15339.5	15110.8	14368.3	14150.1	13411.1	12834.0
55°	12415.2	12468.0	13087.3	14062.1	15188.2	15758.3	15733.7	15086.2	14927.8	14125.5	13576.5
57.5°	11475.6	11591.7	12207.6	13259.8	14878.5	16092.6	16191.1	15740.7	15575.3	14825.8	14312.0
60°	9793.5	9948.4	10659.2	12024.6	13886.2	15980.0	16680.3	16293.2	16191.1	15476.8	14977.1
62.5°	7115.5	7228.1	8174.8	9965.9	12415.2	15177.7	17092.0	16863.3	16785.9	16060.9	15578.8
65°	4261.6	4518.5	5278.6	7048.7	10015.2	13664.5	16866.8	17609.3	17528.4	16662.7	16092.6
67.5°	2157.2	2273.3	2572.4	3821.7	6735.5	11306.7	15737.2	18073.8	18172.4	17176.5	16275.6
70°	1337.2	1368.9	1453.4	1886.2	3364.2	7428.7	12869.2	16863.3	17345.4	17095.5	15800.5
72.5°	1073.3	1080.3	1094.4	1175.4	1615.2	3473.3	8136.0	13207.0	14076.2	15965.9	15121.4
75°	890.3	893.8	897.4	922.0	1006.4	1418.2	3958.9	9075.6	10092.6	13569.5	14019.9
77.5°	714.4	696.8	710.8	721.4	742.5	791.8	1365.4	4842.2	5873.3	8906.7	10842.2
80°	464.5	457.5	485.6	496.2	517.3	549.0	728.4	1643.4	1995.3	3241.0	3448.7
82.5°	249.9	235.8	295.6	285.0	295.6	320.2	429.3	601.8	675.7	978.3	827.0
85°	77.4	77.4	80.9	95.0	116.1	112.6	186.5	295.6	327.3	418.8	309.7
87.5°	14.1	14.1	14.1	14.1	14.1	17.6	38.7	59.8	80.9	144.3	109.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P643638

CATALOG NUMBER: GWS-SA6F-735-U-RW-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5116.7	5116.7	5116.7	5116.7	5116.7	5116.7	5116.7	5116.7	5116.7	5116.7	5116.7
2.5°	5187.1	5155.4	5173.0	5183.6	5180.0	5173.0	5137.8	5130.8	5113.2	5085.0	5078.0
5°	5341.9	5306.7	5310.2	5299.7	5264.5	5218.7	5141.3	5102.6	5070.9	5035.8	5032.2
7.5°	5584.7	5546.0	5535.5	5486.2	5387.7	5282.1	5158.9	5088.5	5035.8	4990.0	4983.0
10°	5894.4	5855.7	5820.5	5704.4	5542.5	5401.7	5239.9	5137.8	5060.4	5004.1	4993.5
12.5°	6239.3	6207.6	6119.6	5950.7	5757.2	5591.8	5426.4	5299.7	5187.1	5102.6	5092.1
15°	6622.9	6552.5	6418.7	6200.6	6017.6	5883.8	5683.3	5510.8	5331.4	5218.7	5194.1
17.5°	6890.3	6830.5	6672.1	6461.0	6316.7	6200.6	5964.8	5718.5	5475.6	5310.2	5275.1
20°	7080.3	7017.0	6837.5	6682.7	6636.9	6538.4	6263.9	5978.9	5697.3	5493.2	5447.5
22.5°	7217.6	7150.7	6967.7	6890.3	6953.6	6936.0	6668.6	6344.8	6010.5	5767.7	5711.4
25°	7347.8	7284.4	7122.6	7150.7	7319.6	7372.4	7083.8	6707.3	6327.3	6042.2	5975.3
27.5°	7470.9	7390.0	7316.1	7470.9	7710.2	7808.8	7502.6	7076.8	6665.1	6373.0	6320.2
30°	7661.0	7566.0	7555.4	7780.6	8160.7	8245.1	7907.3	7481.5	7073.3	6777.7	6710.8
32.5°	7900.3	7812.3	7819.3	8157.2	8597.0	8667.4	8378.9	7981.2	7573.0	7277.4	7185.9
35°	8224.0	8114.9	8174.8	8590.0	9033.4	9163.6	8931.3	8600.6	8202.9	7900.3	7798.2
37.5°	8670.9	8512.6	8635.7	9072.1	9519.0	9712.6	9533.1	9286.8	8892.6	8586.5	8491.5
40°	9241.0	9110.8	9160.1	9642.2	10103.2	10335.4	10222.8	9980.0	9589.4	9269.2	9160.1
42.5°	9916.7	9786.5	9768.9	10282.7	10743.7	11095.6	10986.5	10764.8	10360.1	9994.1	9888.5
45°	10578.3	10458.6	10483.2	11007.6	11524.9	11908.5	11799.4	11539.0	11099.1	10676.8	10592.3
47.5°	11268.0	11169.5	11190.6	11746.6	12316.7	12700.2	12563.0	12246.3	11732.5	11282.1	11180.0
50°	11975.3	11862.7	11894.4	12478.5	13094.4	13456.8	13245.7	12777.7	12211.1	11771.2	11683.2
52.5°	12679.1	12545.4	12626.3	13178.8	13815.8	14104.3	13713.7	13147.2	12598.2	12161.8	12063.3
55°	13488.5	13347.8	13259.8	13851.0	14480.9	14600.5	14065.6	13404.1	12753.0	12256.8	12197.0
57.5°	14227.5	14107.9	13942.5	14533.7	14998.2	14910.2	14336.6	13333.7	12376.5	11739.5	11655.1
60°	14889.1	14787.0	14642.8	15146.0	15357.1	15160.1	14118.4	12499.7	11447.5	10782.4	10743.7
62.5°	15497.9	15388.8	15255.1	15684.4	15656.2	15198.8	13126.1	11218.7	9811.1	9096.7	9033.4
65°	15980.0	15881.5	15842.8	16180.6	16134.8	14442.2	11581.2	9121.4	7168.3	6362.4	6337.8
67.5°	16117.2	16078.5	16286.2	16859.8	16145.4	12921.9	9082.7	6049.2	3849.8	3086.2	3040.5
70°	15603.5	15599.9	16194.7	17014.6	14681.5	9870.9	5359.5	2727.3	1935.5	1717.3	1689.1
72.5°	14934.8	14924.3	15395.8	14678.0	10887.9	5401.7	2255.7	1460.4	1210.6	1150.7	1150.7
75°	13836.9	13808.7	14164.2	11165.9	6123.1	2034.0	1196.5	1002.9	950.1	939.6	939.6
77.5°	11278.6	11042.8	10483.2	6900.9	2136.1	999.4	791.8	788.3	756.6	753.1	753.1
80°	3709.1	3709.1	4310.8	2632.2	943.1	615.8	559.5	587.7	556.0	534.9	531.4
82.5°	605.3	834.0	1185.9	753.1	510.3	383.6	344.9	366.0	383.6	306.2	306.2
85°	239.3	313.2	457.5	351.9	235.8	154.8	165.4	183.0	161.9	140.8	137.2
87.5°	91.5	112.6	161.9	84.5	49.3	28.2	17.6	17.6	14.1	14.1	14.1
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)