

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: P636318

Luminaire Tested: GWS-SA3F-750-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636318
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3F-750-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22689.9 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

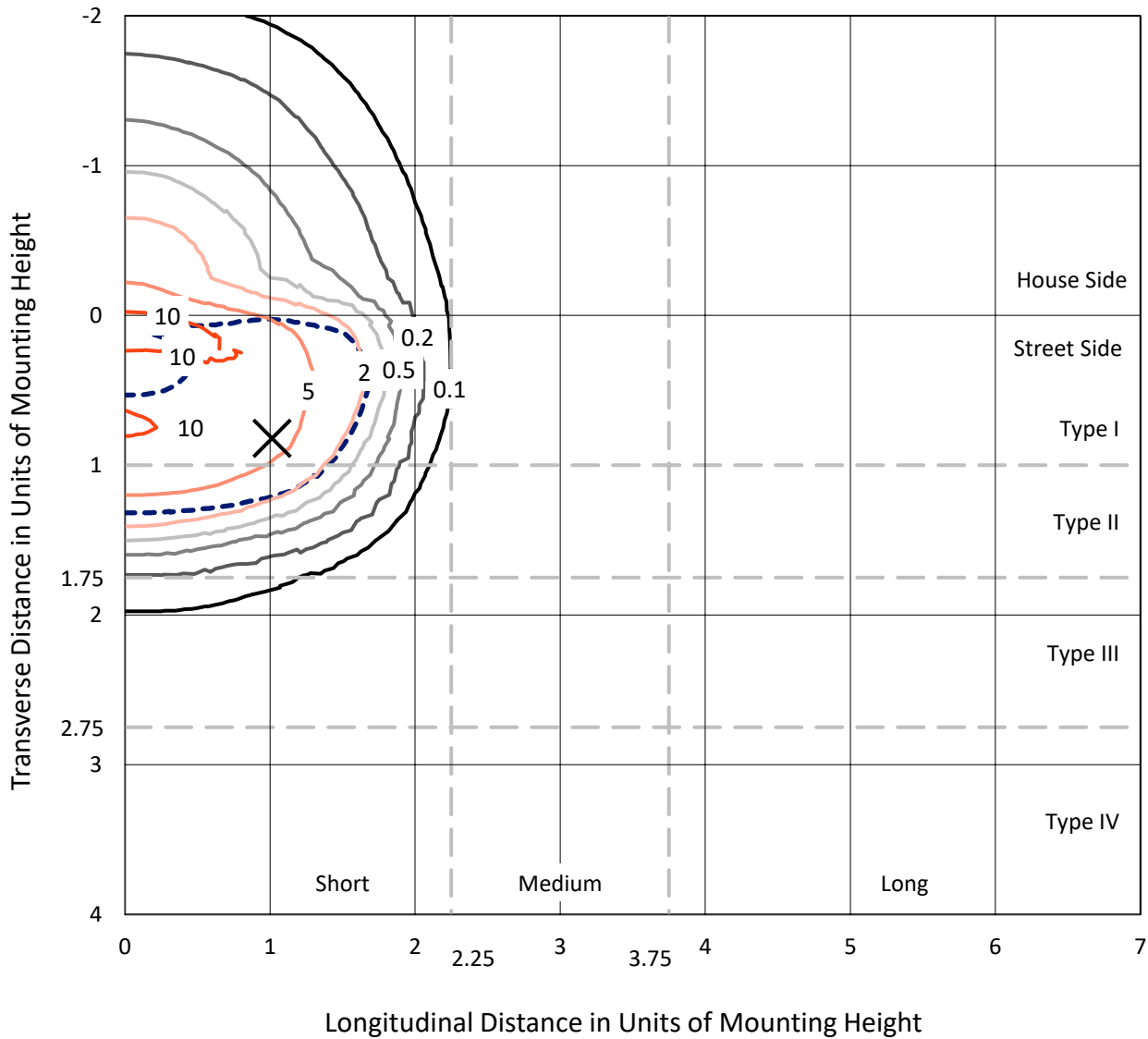
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

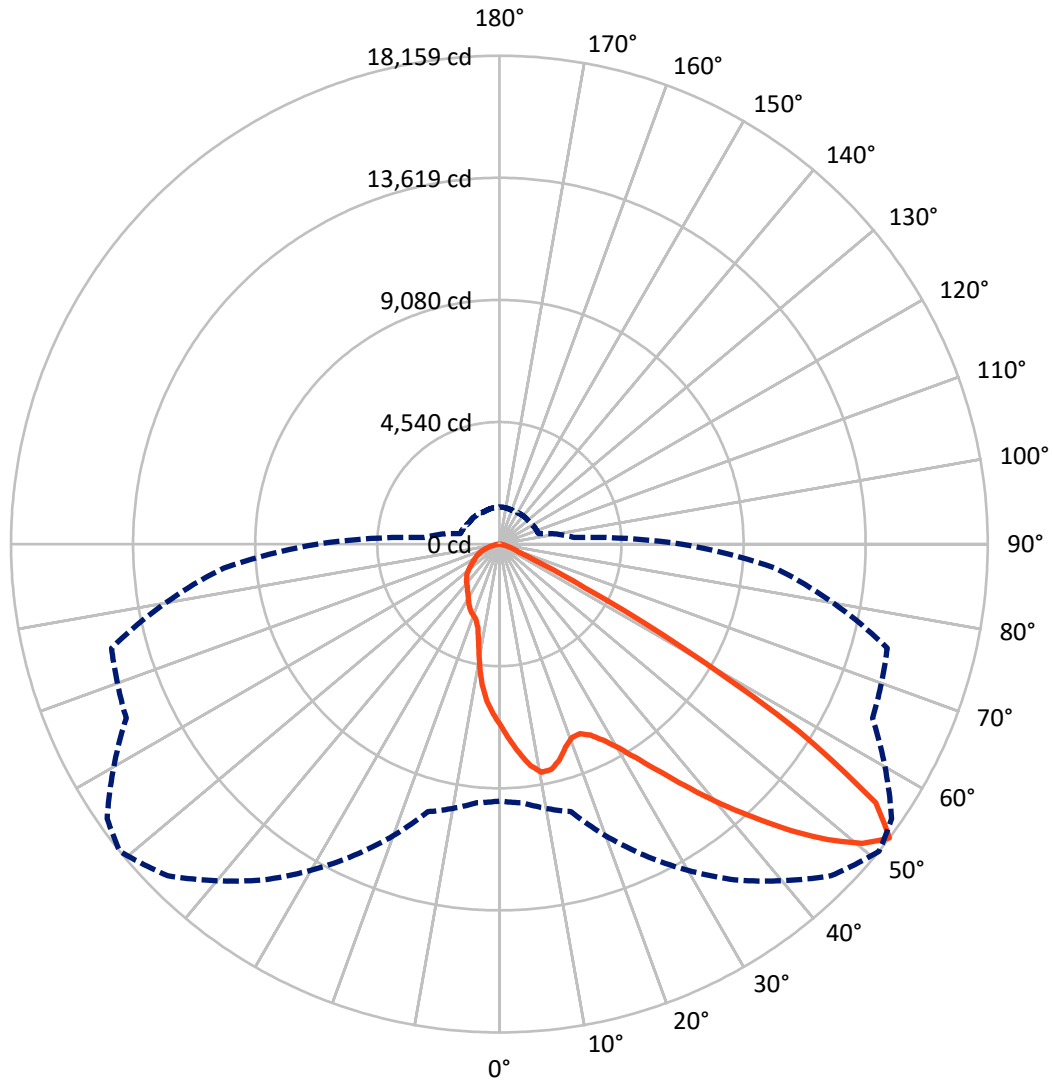
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4420.9	0.0	4420.9
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	18269.0	0.0	18269.0
	% Fixture	80.5	0.0	80.5
Total	Lumens	22689.9	0.0	22689.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	630.4	2.8
10°-20°	1638.1	7.2
20°-30°	2663.4	11.7
30°-40°	4220.9	18.6
40°-50°	6366.0	28.1
50°-60°	5507.1	24.3
60°-70°	1248.5	5.5
70°-80°	368.1	1.6
80°-90°	47.4	0.2
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°	22689.9	100.0
0°-180°	22689.9	100.0

Coefficient of Utilization



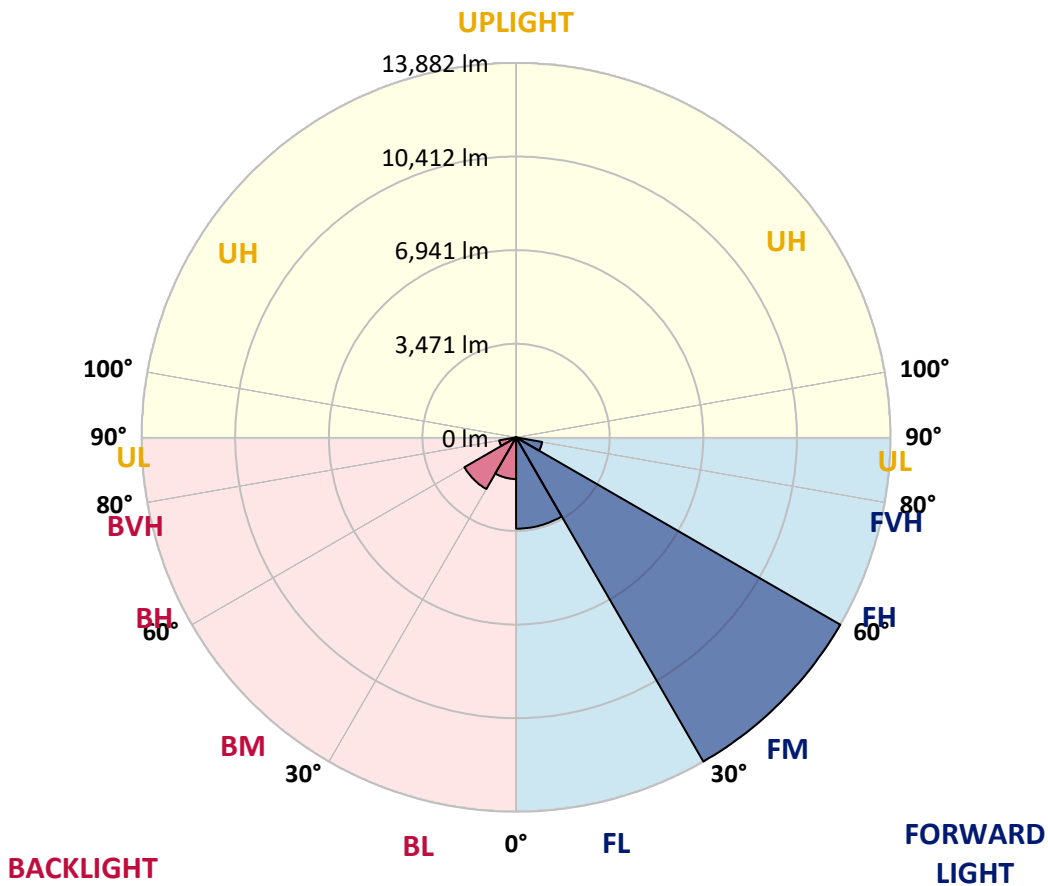
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3386.5	14.9			
FM (30°-60°)	13882.0	61.2			
FH (60°-80°)	982.6	4.3			G1/1800
FVH (80°-90°)	17.9	0.1			G1/100
BL (0°-30°)	1545.4	6.8	B3/2500		
BM (30°-60°)	2211.9	9.7	B2/2500		
BH (60°-80°)	634.1	2.8	B2/1000		G2/1000
BVH (80°-90°)	29.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	6755.9	6755.9	6755.9	6755.9	6755.9	6755.9	6755.9	6755.9	6755.9	6755.9	6755.9
2.5°	7528.7	7571.7	7505.4	7480.3	7439.0	7367.3	7284.8	7261.5	7084.0	6967.5	6836.6
5°	8285.3	8308.6	8254.8	8201.1	8098.9	7971.5	7812.0	7777.9	7455.2	7188.0	6910.1
7.5°	8453.9	8444.9	8491.5	8522.0	8509.4	8459.2	8317.6	8251.3	7865.8	7442.6	7032.0
10°	7786.9	7736.7	7908.8	8113.2	8358.8	8642.1	8626.0	8620.6	8285.3	7785.1	7188.0
12.5°	6902.9	6877.8	7017.7	7274.1	7738.5	8366.0	8600.9	8783.8	8663.6	8111.4	7361.9
15°	6397.3	6388.4	6483.4	6668.1	7037.4	7829.9	8331.9	8694.1	8988.2	8461.0	7546.6
17.5°	6305.9	6311.3	6343.5	6449.3	6714.7	7367.3	7948.2	8453.9	9241.0	8844.7	7777.9
20°	6573.0	6608.9	6553.3	6569.4	6712.9	7200.6	7686.5	8211.8	9402.3	9230.2	8027.1
22.5°	7166.5	7154.0	7032.0	6960.3	6962.1	7302.8	7657.8	8098.9	9508.1	9604.9	8253.0
25°	7838.9	7824.5	7679.3	7519.7	7419.3	7580.7	7864.0	8219.0	9603.2	9947.4	8434.1
27.5°	8633.2	8588.3	8427.0	8222.6	8000.2	8070.2	8262.0	8543.5	9750.2	10284.5	8554.3
30°	9402.3	9454.3	9223.0	8981.0	8746.1	8703.1	8814.2	9068.8	10049.6	10678.9	8697.7
32.5°	10422.5	10404.6	10148.2	9832.7	9497.4	9465.1	9553.0	9786.0	10587.5	11224.0	8916.4
35°	11657.9	11661.5	11297.5	10870.8	10393.9	10307.8	10454.8	10680.7	11389.0	11962.7	9262.5
37.5°	12941.7	12936.3	12618.9	12134.8	11484.0	11362.1	11530.6	11699.1	12391.2	12968.6	9800.4
40°	13841.7	13877.6	13728.8	13474.2	12857.4	12559.8	12708.6	12825.1	13481.4	14151.9	10508.6
42.5°	14352.7	14406.5	14438.8	14591.2	14266.7	13949.3	13895.5	13956.5	14454.9	15251.0	11173.8
45°	14462.1	14533.8	14768.7	15333.5	15459.0	15369.3	15193.6	15046.6	15181.1	16031.0	11609.5
47.5°	13979.8	14105.3	14607.3	15595.3	16328.6	16610.1	16414.7	16190.5	15600.6	16231.8	11564.7
50°	12068.5	12215.5	13346.9	15061.0	16452.3	17477.9	17495.8	17164.1	15550.4	15652.6	11001.7
52.5°	9554.7	9655.1	10302.4	12767.7	15238.5	17442.0	18159.2	17804.2	15308.4	14928.3	10297.0
55°	5710.6	5872.0	6476.2	8423.4	11871.3	15459.0	16986.6	17158.7	15190.1	14320.5	9816.5
57.5°	1927.4	2006.3	2583.7	3720.4	6996.2	11319.0	13124.5	13823.8	13789.7	13391.7	8878.8
60°	918.0	935.9	1052.5	1411.1	2800.6	5915.0	7768.9	8575.8	9310.9	9384.4	5524.1
62.5°	699.3	710.0	769.2	846.3	1126.0	2492.2	3560.8	4177.6	4462.7	3829.8	2011.7
65°	584.5	593.5	638.3	686.7	765.6	1079.4	1366.2	1576.0	1420.0	1106.3	959.2
67.5°	487.7	494.9	528.9	580.9	634.7	722.6	758.4	779.9	817.6	918.0	882.1
70°	381.9	389.1	424.9	469.8	521.8	543.3	577.3	598.9	674.2	803.3	799.7
72.5°	294.0	303.0	322.7	351.4	394.5	416.0	453.6	478.7	521.8	625.7	668.8
75°	215.2	220.5	238.5	247.4	252.8	247.4	285.1	313.8	371.1	410.6	421.3
77.5°	87.9	98.6	95.0	95.0	113.0	136.3	156.0	173.9	213.4	236.7	238.5
80°	35.9	39.4	46.6	52.0	62.8	80.7	93.2	100.4	118.3	132.7	143.4
82.5°	21.5	23.3	26.9	28.7	35.9	46.6	53.8	59.2	73.5	87.9	93.2
85°	10.8	10.8	12.6	14.3	17.9	21.5	25.1	28.7	37.7	46.6	52.0
87.5°	1.8	1.8	1.8	3.6	5.4	7.2	9.0	10.8	12.6	14.3	17.9
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°	6755.9	6755.9	6755.9	6755.9	6755.9	6755.9	6755.9	6755.9	6755.9	6755.9	6755.9
2.5°	6759.5	6662.7	6549.7	6460.1	6356.1	6279.0	6169.6	6101.5	6036.9	5983.1	5943.7
5°	6766.7	6603.5	6368.6	6160.6	5945.5	5741.1	5531.3	5361.0	5208.6	5081.3	5070.5
7.5°	6807.9	6573.0	6205.5	5841.5	5421.9	5016.7	4611.5	4281.6	4030.6	3899.7	3872.8
10°	6877.8	6569.4	6038.7	5457.8	4742.4	4089.8	3609.3	3358.2	3213.0	3161.0	3143.1
12.5°	6951.3	6560.5	5825.4	4916.3	3923.0	3351.1	3087.5	3057.0	3083.9	3087.5	3085.7
15°	7041.0	6555.1	5556.4	4281.6	3324.2	3008.6	3026.5	3091.1	3153.8	3168.2	3168.2
17.5°	7150.4	6542.6	5190.7	3661.2	2949.4	2942.3	3037.3	3123.4	3182.5	3193.3	3193.3
20°	7265.1	6510.3	4740.6	3155.6	2797.0	2901.0	3003.2	3069.6	3110.8	3125.1	3126.9
22.5°	7344.0	6424.2	4222.4	2780.9	2702.0	2822.1	2895.6	2963.8	2963.8	2927.9	2917.2
25°	7360.1	6239.5	3661.2	2524.5	2589.1	2700.2	2775.5	2736.1	2662.6	2633.9	2632.1
27.5°	7301.0	5970.6	3107.2	2341.6	2452.8	2563.9	2551.4	2494.0	2461.7	2433.1	2443.8
30°	7229.3	5647.9	2626.7	2191.0	2295.0	2404.4	2361.3	2341.6	2318.3	2286.0	2293.2
32.5°	7180.8	5287.5	2257.4	2074.5	2189.2	2207.1	2237.6	2235.8	2214.3	2153.4	2149.8
35°	7195.2	4923.5	2009.9	1979.4	2101.4	2094.2	2151.6	2140.8	1992.0	1907.7	1902.3
37.5°	7309.9	4573.9	1864.7	1904.1	1961.5	2006.3	2056.5	1927.4	1875.4	1821.7	1825.2
40°	7528.7	4249.3	1785.8	1862.9	1877.2	1943.6	1827.0	1825.2	1801.9	1753.5	1751.7
42.5°	7776.1	3975.0	1732.0	1843.2	1823.5	1836.0	1712.3	1726.6	1724.8	1694.4	1685.4
45°	7926.7	3722.2	1689.0	1769.7	1775.0	1649.5	1611.9	1628.0	1637.0	1620.8	1619.1
47.5°	7770.7	3431.7	1644.2	1656.7	1703.3	1565.3	1518.6	1520.4	1536.6	1538.4	1531.2
50°	7333.3	3107.2	1590.4	1559.9	1529.4	1477.4	1434.4	1425.4	1441.5	1457.7	1463.1
52.5°	6768.5	2797.0	1500.7	1454.1	1382.4	1382.4	1362.7	1334.0	1355.5	1377.0	1384.2
55°	6354.3	2567.5	1373.4	1321.4	1242.5	1269.4	1265.8	1240.7	1269.4	1285.6	1290.9
57.5°	5506.2	2063.7	1208.5	1192.3	1126.0	1158.3	1165.4	1133.2	1118.8	1122.4	1127.8
60°	3268.6	1332.2	1090.1	1088.3	1029.2	1066.8	1088.3	1056.1	1013.0	1018.4	1025.6
62.5°	1466.7	1018.4	941.3	934.1	932.3	980.8	1004.1	973.6	912.6	918.0	925.2
65°	923.4	880.3	817.6	817.6	846.3	887.5	905.5	880.3	810.4	801.5	808.6
67.5°	857.0	819.4	754.8	742.3	756.6	790.7	792.5	744.1	702.8	695.7	695.7
70°	769.2	740.5	677.7	652.6	647.3	645.5	640.1	627.5	600.6	593.5	597.1
72.5°	636.5	616.8	577.3	550.4	536.1	534.3	512.8	502.0	478.7	475.1	473.3
75°	421.3	426.7	426.7	423.1	410.6	405.2	381.9	371.1	344.3	333.5	331.7
77.5°	249.2	254.6	261.8	263.6	261.8	261.8	240.3	227.7	200.8	186.5	182.9
80°	152.4	156.0	159.6	165.0	157.8	152.4	132.7	120.1	107.6	98.6	96.8
82.5°	98.6	102.2	104.0	107.6	104.0	96.8	80.7	73.5	64.5	57.4	55.6
85°	55.6	57.4	61.0	61.0	55.6	50.2	41.2	35.9	30.5	26.9	26.9
87.5°	19.7	19.7	19.7	21.5	17.9	16.1	10.8	7.2	5.4	5.4	5.4
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)