

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: P643725

Luminaire Tested: GWS-SA6F-740-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643725
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-740-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31215.3 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

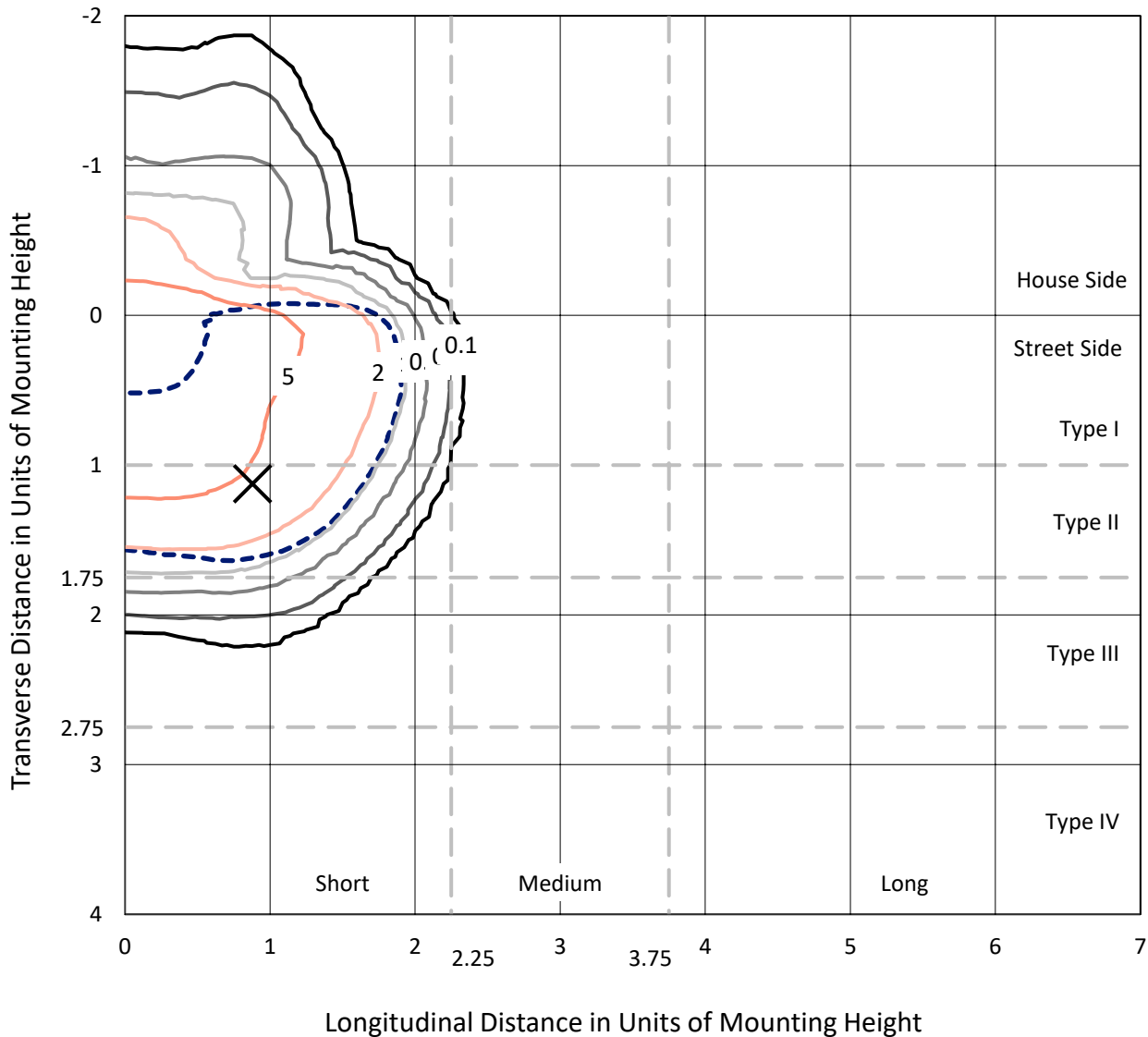
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

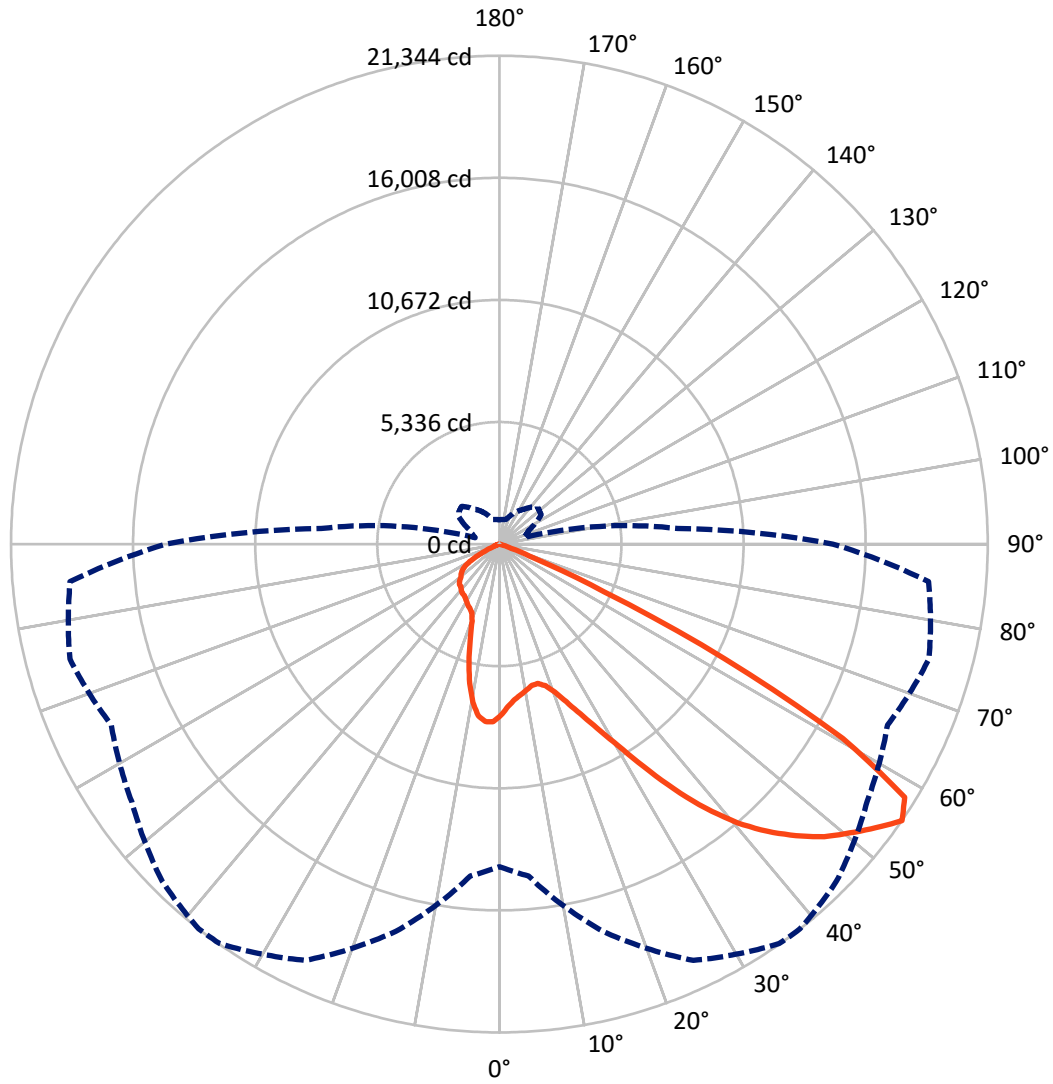
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6081.7	0.0	6081.7
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	25133.6	0.0	25133.6
	% Fixture	80.5	0.0	80.5
Total	Lumens	31215.3	0.0	31215.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	692.1	2.2
10°-20°	1863.4	6.0
20°-30°	3197.6	10.2
30°-40°	5303.5	17.0
40°-50°	7796.3	25.0
50°-60°	9110.2	29.2
60°-70°	3088.1	9.9
70°-80°	157.9	0.5
80°-90°	6.2	0.0
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°	31215.3	100.0
0°-180°	31215.3	100.0

Coefficient of Utilization



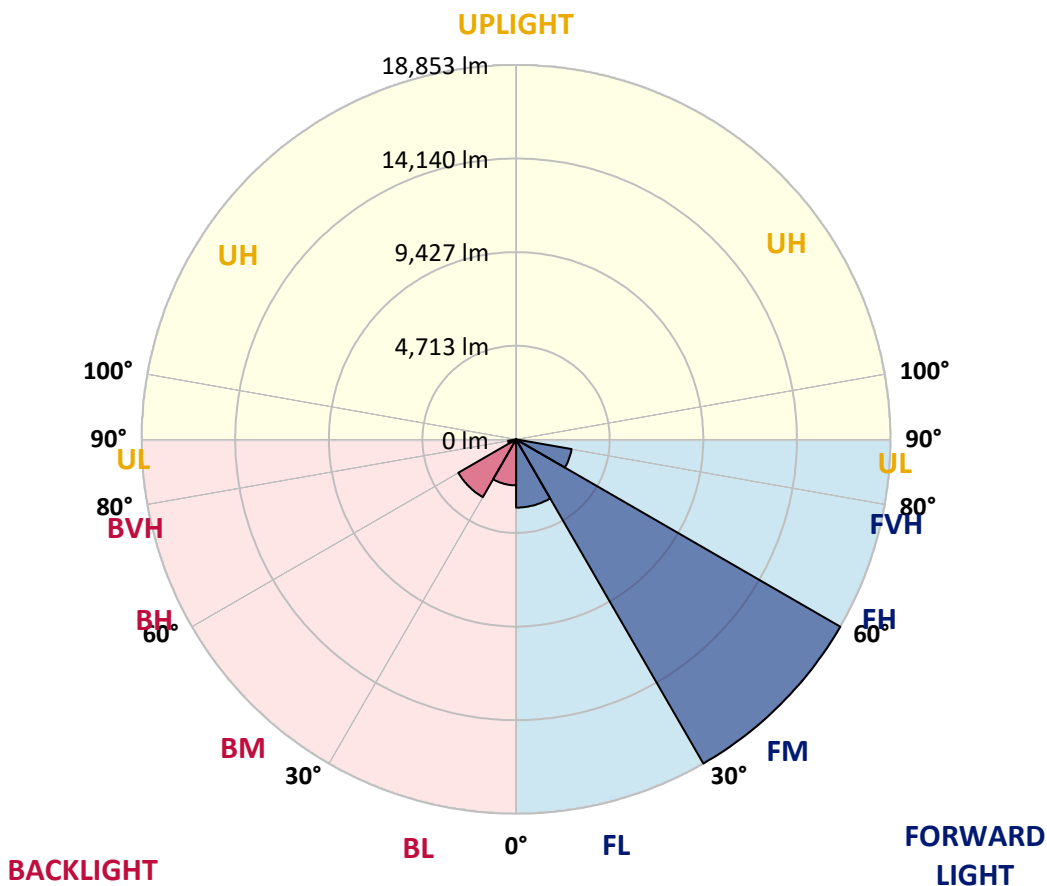
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3436.0	11.0			
FM (30°-60°)	18853.2	60.4			
FH (60°-80°)	2841.1	9.1			G2/5000
FVH (80°-90°)	3.3	0.0			G0/10
BL (0°-30°)	2317.1	7.4	B3/2500		
BM (30°-60°)	3356.8	10.8	B3/5000		
BH (60°-80°)	404.9	1.3	B1/500		G1/500
BVH (80°-90°)	2.9	0.0			G0/10
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°	38°	45°	55°	65°	75°	85°
0°	7485.7	7485.7	7485.7	7485.7	7485.7	7485.7	7485.7	7485.7	7485.7	7485.7	7485.7
2.5°	6971.9	6957.6	6986.1	7043.2	7096.8	7114.6	7168.1	7243.0	7289.4	7400.0	7489.2
5°	6657.9	6650.8	6679.3	6729.3	6800.6	6825.6	6907.7	7032.5	7157.4	7350.1	7539.2
7.5°	6372.5	6368.9	6411.7	6522.3	6625.8	6657.9	6757.8	6911.2	7078.9	7375.1	7653.4
10°	5997.8	6001.4	6083.4	6240.4	6429.5	6493.8	6654.3	6875.5	7093.2	7475.0	7860.3
12.5°	5876.5	5883.6	5926.5	6047.8	6254.7	6336.8	6561.6	6896.9	7175.3	7617.7	8127.9
15°	6172.6	6172.6	6137.0	6151.2	6244.0	6318.9	6554.4	6968.3	7314.4	7788.9	8391.9
17.5°	6747.1	6725.7	6636.5	6515.2	6483.1	6508.0	6697.1	7121.7	7510.6	7988.8	8691.7
20°	7524.9	7532.1	7357.2	7103.9	6900.5	6896.9	7011.1	7392.9	7792.5	8227.8	9016.3
22.5°	8466.9	8438.3	8206.4	7860.3	7507.1	7478.5	7524.9	7806.8	8199.3	8606.0	9416.0
25°	9558.7	9544.4	9216.1	8752.3	8284.9	8217.1	8217.1	8495.4	8780.9	9144.8	9894.1
27.5°	10700.4	10700.4	10382.9	9847.7	9226.9	9105.5	9087.7	9416.0	9605.1	9676.4	10297.3
30°	11874.3	11860.0	11546.1	10996.6	10332.9	10208.1	10158.1	10400.7	10536.3	10322.2	10800.3
32.5°	13066.0	13091.0	12773.4	12263.2	11670.9	11588.9	11435.4	11435.4	11546.1	11246.3	11592.4
35°	14346.9	14339.8	14090.0	13743.9	13237.3	13144.5	12891.2	12495.1	12662.8	12530.8	12687.8
37.5°	15478.0	15531.5	15410.2	15153.3	14743.0	14650.2	14232.8	13515.6	13644.0	13851.0	13990.1
40°	16626.9	16669.7	16791.0	16709.0	16191.6	16020.3	15278.2	14100.7	14243.5	14953.5	15353.1
42.5°	17754.4	17775.8	18022.0	18157.6	17465.4	17165.7	16070.3	14457.5	14607.4	15817.0	16516.3
45°	18471.5	18517.9	18924.7	19338.6	18589.3	18179.0	16758.9	14914.2	14978.5	16416.4	17376.2
47.5°	18443.0	18550.0	19313.6	20066.4	19556.2	19113.8	17586.7	15645.7	15538.6	16980.1	17943.5
50°	17868.6	17997.0	19092.4	20287.7	20252.0	19841.7	18507.2	16705.4	16370.0	17479.6	18014.8
52.5°	16676.8	17047.9	18703.5	20316.2	20812.2	20605.2	19645.4	18132.6	17493.9	18196.8	18129.0
55°	14100.7	14557.4	17522.5	20073.6	21318.8	21343.8	20840.7	19620.4	18714.2	19431.3	18831.9
57.5°	10704.0	11067.9	13487.0	17868.6	20480.3	20890.7	21304.5	20405.4	19467.0	20273.4	18996.0
60°	6450.9	6872.0	8445.5	13112.4	16541.3	17240.6	18864.0	18689.2	17558.1	17904.2	15577.9
62.5°	2615.3	2836.6	3899.8	7225.2	10411.4	11064.4	12620.0	12884.1	12605.8	12252.5	9448.1
65°	956.2	1045.4	1562.8	2986.4	4788.3	5027.3	5848.0	6315.4	6700.7	5705.2	3514.5
67.5°	592.3	649.4	1016.9	1534.2	1741.2	1619.9	1648.4	1966.0	1876.8	1159.6	628.0
70°	438.9	485.2	795.7	1063.3	702.9	542.3	367.5	392.5	353.2	310.4	306.8
72.5°	303.3	346.1	595.9	628.0	271.2	192.7	135.6	189.1	214.1	210.5	217.6
75°	199.8	231.9	374.6	246.2	67.8	53.5	46.4	99.9	128.4	128.4	132.0
77.5°	117.7	135.6	132.0	50.0	14.3	14.3	10.7	17.8	28.5	32.1	39.2
80°	14.3	10.7	7.1	7.1	7.1	7.1	7.1	7.1	10.7	10.7	10.7
82.5°	3.6	3.6	3.6	7.1	7.1	7.1	7.1	7.1	7.1	10.7	10.7
85°	0.0	0.0	3.6	3.6	7.1	7.1	7.1	7.1	7.1	10.7	10.7
87.5°	0.0	0.0	3.6	3.6	7.1	7.1	7.1	7.1	7.1	10.7	10.7
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°	7485.7	7485.7	7485.7	7485.7	7485.7	7485.7	7485.7	7485.7	7485.7	7485.7	7485.7
2.5°	7557.0	7532.1	7635.5	7710.5	7771.1	7799.7	7760.4	7756.8	7756.8	7678.3	7656.9
5°	7646.2	7656.9	7803.2	7867.4	7878.1	7842.5	7753.3	7692.6	7656.9	7574.9	7528.5
7.5°	7817.5	7853.2	7992.3	7981.6	7885.3	7721.2	7485.7	7303.7	7186.0	7057.5	6979.0
10°	8063.7	8131.5	8217.1	8067.3	7760.4	7342.9	6857.7	6511.6	6304.7	6158.4	6069.2
12.5°	8363.4	8431.2	8402.6	8049.4	7410.7	6665.0	6040.6	5541.1	5302.1	5170.0	5077.3
15°	8666.7	8709.5	8524.0	7835.3	6793.5	5790.9	5095.1	4599.2	4306.6	4199.5	4121.0
17.5°	8977.1	8966.4	8545.4	7414.3	5969.3	4806.1	4121.0	3782.1	3700.0	3682.2	3675.0
20°	9301.8	9205.4	8459.7	6811.3	4977.4	3832.0	3443.1	3464.5	3614.4	3685.7	3700.0
22.5°	9672.9	9430.2	8245.7	5994.2	3964.1	3193.4	3232.6	3443.1	3646.5	3742.8	3757.1
25°	10068.9	9637.2	7888.9	4945.3	3125.6	2936.5	3168.4	3411.0	3628.7	3746.4	3760.7
27.5°	10329.4	9687.1	7303.7	3889.1	2683.1	2836.6	3082.8	3314.7	3539.5	3667.9	3685.7
30°	10611.2	9665.7	6508.0	2997.1	2533.3	2750.9	2965.0	3175.5	3382.5	3525.2	3539.5
32.5°	11025.1	9651.4	5537.5	2433.4	2472.6	2683.1	2840.1	3015.0	3157.7	3239.7	3229.0
35°	11567.5	9633.6	4406.5	2194.3	2436.9	2629.6	2754.5	2836.6	2679.6	2629.6	2640.3
37.5°	12263.2	9676.4	3453.8	2094.4	2426.2	2615.3	2722.4	2486.9	2244.3	2151.5	2137.2
40°	13033.9	9787.0	2633.2	2055.2	2461.9	2651.0	2601.1	2212.2	1912.4	1730.5	1691.2
42.5°	13808.2	9908.3	2083.7	2040.9	2522.6	2750.9	2401.3	2012.4	1562.8	1459.3	1445.0
45°	14382.6	9886.9	1801.8	2015.9	2576.1	2808.0	2347.7	1726.9	1395.1	1348.7	1352.3
47.5°	14671.6	9651.4	1648.4	1958.8	2597.5	2750.9	2215.7	1609.2	1280.9	1330.9	1373.7
50°	14518.2	9041.3	1505.7	1848.2	2551.1	2676.0	2005.2	1520.0	1223.8	1430.8	1527.1
52.5°	14332.7	8292.0	1348.7	1677.0	2440.5	2572.5	1923.2	1495.0	1188.1	1380.8	1452.2
55°	14578.9	7817.5	1091.8	1412.9	2222.9	2329.9	1858.9	1491.4	1106.1	1074.0	1063.3
57.5°	14232.8	6872.0	781.4	1016.9	1705.5	1844.7	1812.5	1466.4	981.2	977.6	991.9
60°	11000.1	4192.4	535.2	645.8	1045.4	1177.4	1644.8	1402.2	845.6	777.8	781.4
62.5°	6251.1	1784.0	367.5	399.6	535.2	635.1	1255.9	1273.8	781.4	742.1	781.4
65°	2176.5	638.7	285.4	267.6	296.1	339.0	720.7	984.8	710.0	642.2	649.4
67.5°	449.6	317.6	253.3	221.2	221.2	221.2	367.5	613.7	585.2	510.2	517.4
70°	285.4	271.2	221.2	189.1	182.0	167.7	210.5	339.0	403.2	371.1	374.6
72.5°	210.5	206.9	174.8	153.4	135.6	121.3	132.0	167.7	206.9	214.1	217.6
75°	128.4	132.0	114.2	96.3	85.6	74.9	78.5	78.5	78.5	71.4	78.5
77.5°	39.2	42.8	35.7	28.5	25.0	25.0	25.0	21.4	17.8	10.7	10.7
80°	10.7	10.7	10.7	10.7	10.7	7.1	7.1	3.6	3.6	0.0	0.0
82.5°	10.7	10.7	10.7	10.7	7.1	7.1	3.6	3.6	0.0	0.0	0.0
85°	10.7	10.7	10.7	10.7	7.1	7.1	3.6	3.6	0.0	0.0	0.0
87.5°	10.7	10.7	10.7	10.7	7.1	7.1	3.6	3.6	0.0	0.0	0.0
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)