

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: P643721

Luminaire Tested: GWS-SA6F-740-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643721
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-740-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III 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: 30733.7 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

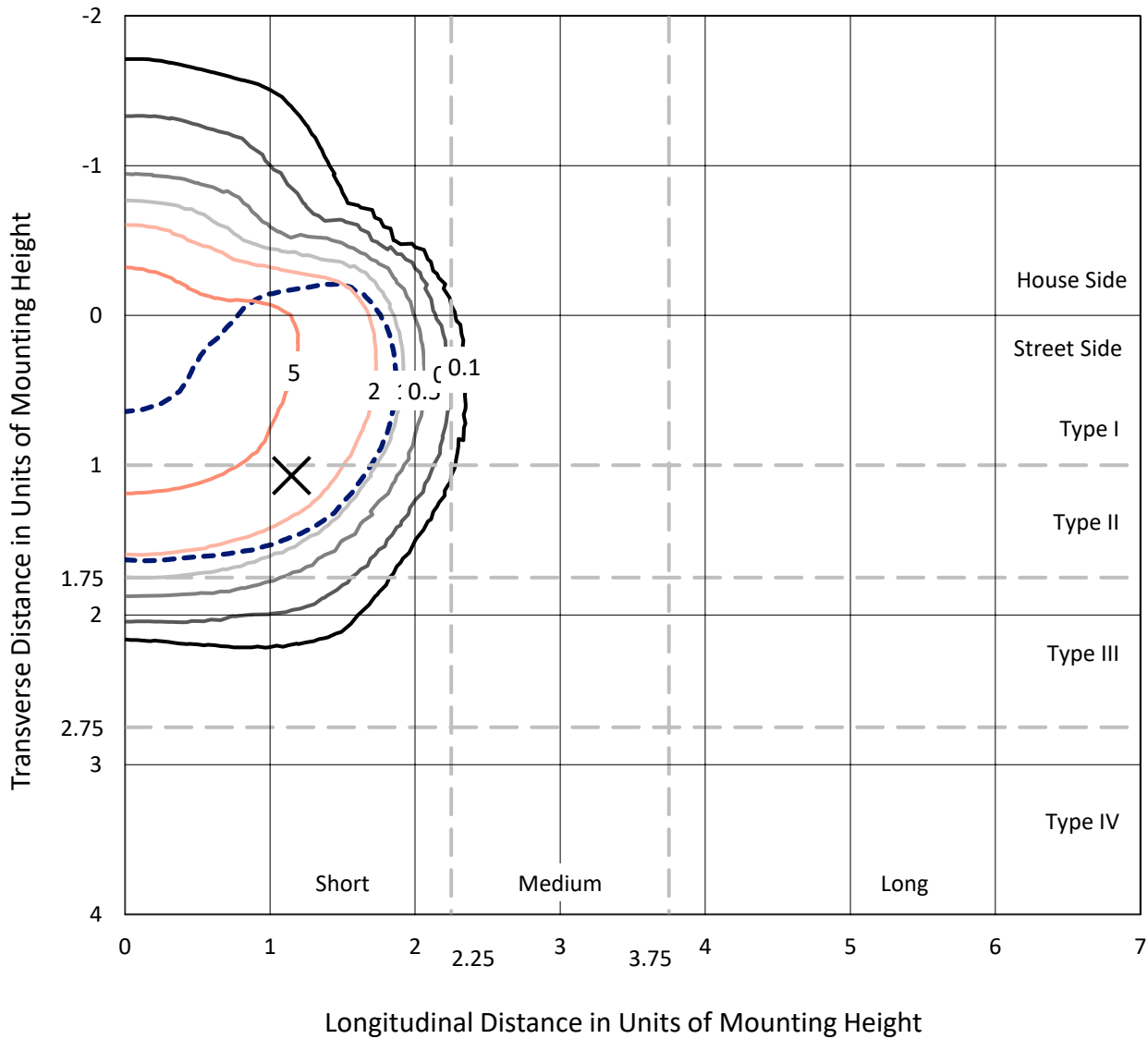
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P643721
 CATALOG NUMBER: GWS-SA6F-740-U-T3-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

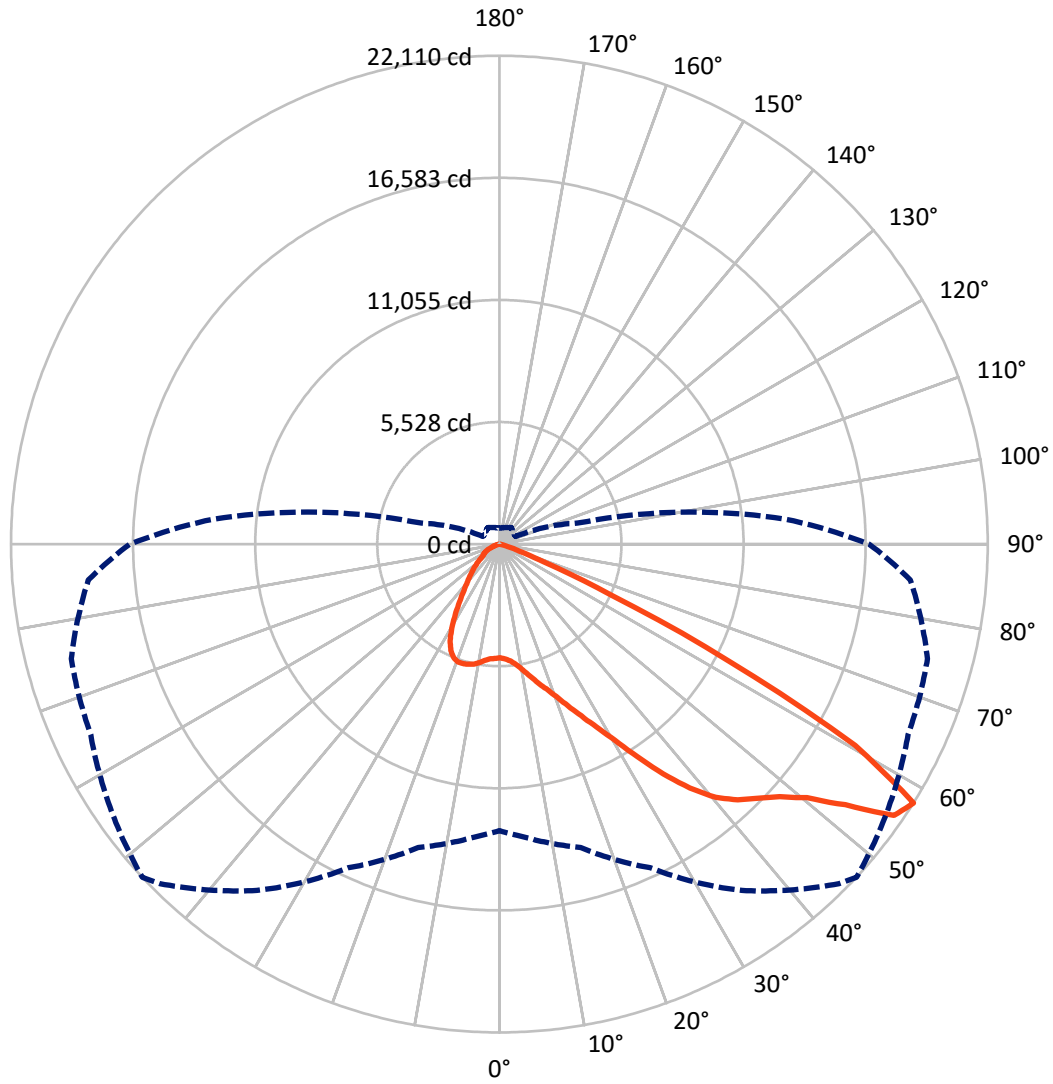
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - N/A

REPORT NUMBER: P643721
CATALOG NUMBER: GWS-SA6F-740-U-T3-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P643721

CATALOG NUMBER: GWS-SA6F-740-U-T3-W-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6667.6	0.0	6667.6
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	24066.1	0.0	24066.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	30733.7	0.0	30733.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.9	1.7
10°-20°	1727.1	5.6
20°-30°	3206.8	10.4
30°-40°	5133.6	16.7
40°-50°	7504.1	24.4
50°-60°	9261.3	30.1
60°-70°	3094.6	10.1
70°-80°	288.3	0.9
80°-90°	6.0	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°	30733.7	100.0
0°-180°	30733.7	100.0

Coefficient of Utilization



REPORT NUMBER: P643721

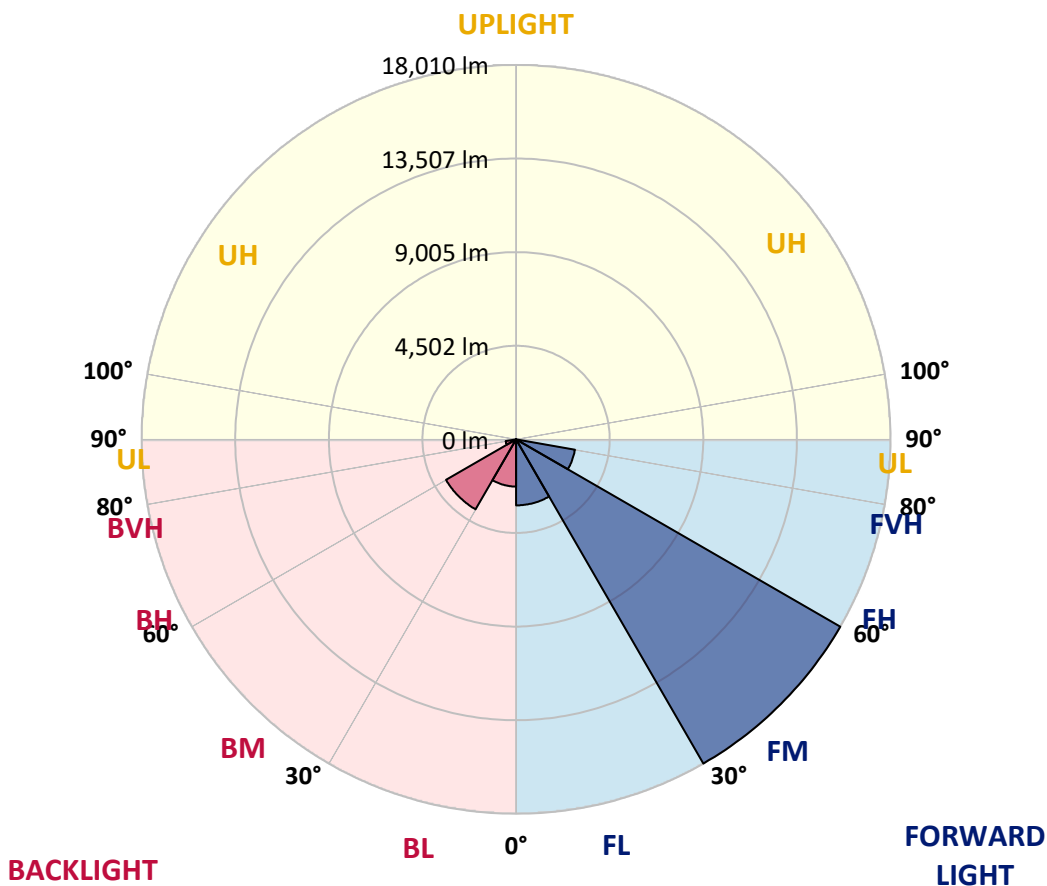
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3176.2	10.3			
FM (30°-60°)	18009.7	58.6			
FH (60°-80°)	2876.0	9.4			G2/5000
FVH (80°-90°)	4.1	0.0			G0/10
BL (0°-30°)	2269.6	7.4	B3/2500		
BM (30°-60°)	3889.3	12.7	B3/5000		
BH (60°-80°)	506.9	1.6	B2/1000		G2/1000
BVH (80°-90°)	1.9	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





REPORT NUMBER: P643721

CATALOG NUMBER: GWS-SA6F-740-U-T3-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	5144.9	5144.9	5144.9	5144.9	5144.9	5144.9	5144.9	5144.9	5144.9	5144.9	5144.9
2.5°	5198.4	5194.8	5191.2	5212.6	5205.5	5201.9	5209.1	5209.1	5209.1	5187.7	5144.9
5°	5323.2	5323.2	5319.7	5341.1	5323.2	5312.5	5316.1	5316.1	5301.8	5262.6	5209.1
7.5°	5519.5	5512.3	5505.2	5526.6	5508.8	5505.2	5512.3	5490.9	5466.0	5401.7	5326.8
10°	5801.3	5801.3	5790.6	5812.0	5797.8	5790.6	5790.6	5776.4	5730.0	5630.1	5519.5
12.5°	6190.2	6172.4	6147.4	6129.6	6122.4	6118.9	6122.4	6101.0	6051.1	5922.6	5769.2
15°	6614.8	6600.5	6561.3	6532.8	6493.5	6486.4	6507.8	6489.9	6440.0	6265.2	6047.5
17.5°	7150.0	7167.8	7067.9	7007.3	6893.1	6886.0	6893.1	6921.6	6886.0	6661.2	6343.7
20°	7606.7	7620.9	7546.0	7503.2	7399.7	7353.4	7367.6	7414.0	7374.8	7110.7	6668.3
22.5°	8095.5	8113.3	8034.8	7945.6	7899.2	7899.2	7952.8	8017.0	7963.5	7617.4	7039.4
25°	8680.6	8694.9	8630.7	8512.9	8430.9	8534.3	8612.8	8784.1	8694.9	8223.9	7478.2
27.5°	9351.4	9354.9	9262.2	9140.9	9098.0	9290.7	9369.2	9633.2	9597.5	8905.4	7942.1
30°	10068.5	10072.1	10050.7	9968.6	9929.4	10182.7	10289.7	10671.5	10646.5	9751.0	8573.6
32.5°	10814.2	10814.2	10853.4	10846.3	10892.7	11306.5	11477.8	11913.1	11888.1	10785.6	9358.5
35°	11563.4	11567.0	11634.8	11806.0	11998.7	12548.2	12772.9	13301.0	13243.9	12023.7	10361.1
37.5°	12416.2	12380.5	12473.2	12730.1	13158.3	13793.3	14007.4	14510.5	14446.3	13290.3	11670.5
40°	13443.7	13379.5	13379.5	13679.2	14164.4	14895.8	15077.8	15327.5	15109.9	14314.3	12954.9
42.5°	14578.3	14517.6	14439.1	14703.2	15109.9	15680.7	15830.6	15762.8	15584.4	15281.1	14417.7
45°	15727.1	15634.4	15687.9	15848.4	16083.9	16355.1	16412.2	16098.2	16016.1	16101.8	15627.2
47.5°	16601.3	16537.0	16669.0	16893.8	17086.5	17125.7	17086.5	16651.2	16644.1	16947.3	16465.7
50°	16893.8	16901.0	17264.9	17757.2	18067.6	18099.8	18046.2	17546.7	17478.9	17568.1	16918.8
52.5°	16922.4	16950.9	17482.5	18420.9	19266.4	19651.8	19609.0	19070.2	18406.6	18310.3	17603.8
55°	16233.8	16401.5	17143.6	18513.6	20311.8	21542.7	21685.5	20654.3	19669.6	19587.6	19077.3
57.5°	12976.3	13318.8	14214.4	16166.0	19145.1	21739.0	22110.0	21367.9	20415.3	20065.6	18681.3
60°	7756.5	8181.1	9041.0	11435.0	14571.1	17867.8	18506.5	18610.0	18171.1	17161.4	14332.1
62.5°	3328.8	3293.1	4352.8	6186.7	8666.3	11356.5	11645.5	12095.0	12476.8	11420.7	8698.4
65°	1141.7	1241.6	1726.8	2790.1	4338.5	5273.3	5530.2	5933.4	6475.7	5344.7	3186.1
67.5°	706.4	749.3	995.4	1648.4	2340.5	2304.8	2190.7	2126.4	2069.4	1416.4	874.1
70°	513.8	549.5	699.3	1134.6	1573.4	1106.0	959.8	777.8	863.4	795.6	620.8
72.5°	346.1	374.6	481.7	688.6	806.3	538.7	499.5	567.3	685.0	652.9	506.6
75°	206.9	224.8	274.7	335.4	328.2	278.3	281.9	399.6	524.5	488.8	360.4
77.5°	142.7	149.9	182.0	217.6	160.6	85.6	78.5	110.6	178.4	178.4	121.3
80°	35.7	46.4	46.4	28.5	25.0	21.4	21.4	32.1	50.0	35.7	17.8
82.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	7.1	7.1	7.1	7.1
85°	0.0	0.0	3.6	3.6	3.6	3.6	3.6	3.6	7.1	7.1	7.1
87.5°	0.0	0.0	3.6	3.6	3.6	3.6	3.6	3.6	3.6	7.1	7.1
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: P643721

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5144.9	5144.9	5144.9	5144.9	5144.9	5144.9	5144.9	5144.9	5144.9	5144.9	5144.9
2.5°	5169.8	5127.0	5155.6	5148.4	5169.8	5177.0	5144.9	5137.7	5141.3	5098.5	5084.2
5°	5219.8	5169.8	5184.1	5169.8	5194.8	5216.2	5205.5	5219.8	5237.6	5205.5	5191.2
7.5°	5326.8	5276.9	5273.3	5251.9	5287.6	5301.8	5298.3	5337.5	5373.2	5351.8	5330.4
10°	5512.3	5444.6	5437.4	5419.6	5430.3	5441.0	5401.7	5408.9	5441.0	5416.0	5405.3
12.5°	5740.7	5658.6	5640.8	5598.0	5598.0	5544.5	5458.8	5441.0	5466.0	5448.1	5430.3
15°	5986.9	5876.3	5847.7	5772.8	5701.4	5601.5	5512.3	5490.9	5508.8	5487.4	5473.1
17.5°	6261.6	6136.7	6044.0	5911.9	5755.0	5637.2	5537.3	5490.9	5462.4	5419.6	5416.0
20°	6532.8	6368.6	6211.6	6001.1	5794.2	5615.8	5451.7	5330.4	5226.9	5162.7	5137.7
22.5°	6846.7	6604.1	6350.8	6054.7	5758.5	5487.4	5198.4	4991.4	4813.0	4752.4	4723.8
25°	7182.1	6868.1	6489.9	6104.6	5637.2	5201.9	4809.5	4502.6	4267.2	4188.7	4156.6
27.5°	7553.2	7121.4	6632.7	6093.9	5387.5	4795.2	4274.3	3892.5	3660.6	3589.3	3614.2
30°	8024.1	7449.7	6811.0	5983.3	5012.8	4224.3	3614.2	3293.1	3118.3	3050.5	3054.1
32.5°	8652.1	7920.6	7071.5	5747.8	4531.2	3575.0	3039.8	2804.3	2686.6	2597.4	2590.3
35°	9551.2	8637.8	7314.1	5369.6	3946.1	2997.0	2608.1	2422.6	2258.5	2155.0	2172.8
37.5°	10628.7	9540.5	7446.1	4859.4	3289.6	2547.5	2283.4	2094.3	1908.8	1755.4	1773.2
40°	11905.9	10721.4	7435.4	4188.7	2690.2	2240.6	2012.3	1791.1	1559.2	1420.0	1434.3
42.5°	13329.5	11838.2	7203.5	3478.7	2229.9	1990.9	1751.8	1473.5	1248.8	1163.1	1166.7
45°	14564.0	12744.4	6796.8	2743.7	1876.7	1748.3	1480.7	1195.2	1095.3	1034.7	1031.1
47.5°	15477.4	13408.0	6215.2	2158.6	1591.3	1527.0	1216.6	1070.4	991.9	941.9	934.8
50°	15987.6	13639.9	5573.0	1691.2	1345.1	1295.1	1088.2	970.5	916.9	884.8	877.7
52.5°	16672.6	13918.2	5112.7	1334.4	1127.4	1059.7	1002.6	902.7	867.0	842.0	831.3
55°	17757.2	14457.0	4713.1	1059.7	938.3	924.1	945.5	863.4	842.0	802.8	788.5
57.5°	16736.8	12987.0	3660.6	820.6	792.1	845.6	913.4	824.2	770.7	735.0	720.7
60°	11777.5	8634.2	1841.0	660.1	706.4	792.1	859.9	745.7	692.2	699.3	692.2
62.5°	6493.5	4320.7	827.7	553.0	613.7	699.3	735.0	645.8	610.1	670.8	681.5
65°	2122.9	1470.0	478.1	428.1	485.2	570.9	635.1	613.7	606.5	677.9	699.3
67.5°	652.9	485.2	324.7	306.8	335.4	421.0	535.2	663.6	713.6	735.0	745.7
70°	488.8	381.8	278.3	260.5	274.7	321.1	453.1	553.0	520.9	524.5	517.3
72.5°	392.5	303.3	239.0	228.3	228.3	221.2	239.0	299.7	338.9	356.8	356.8
75°	274.7	214.1	182.0	167.7	132.0	107.0	96.3	96.3	85.6	82.1	78.5
77.5°	92.8	78.5	71.4	57.1	39.2	32.1	28.5	25.0	17.8	10.7	7.1
80°	14.3	10.7	7.1	7.1	7.1	3.6	3.6	3.6	0.0	0.0	0.0
82.5°	7.1	7.1	7.1	7.1	7.1	3.6	3.6	0.0	0.0	0.0	0.0
85°	7.1	7.1	7.1	7.1	7.1	3.6	3.6	0.0	0.0	0.0	0.0
87.5°	7.1	7.1	7.1	7.1	3.6	3.6	3.6	0.0	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)