

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: P643914

Luminaire Tested: GWS-SA6F-830-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643914
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGF-830-U-SL2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23215.6 lumens
Efficiency: N/A
Efficacy: 62.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

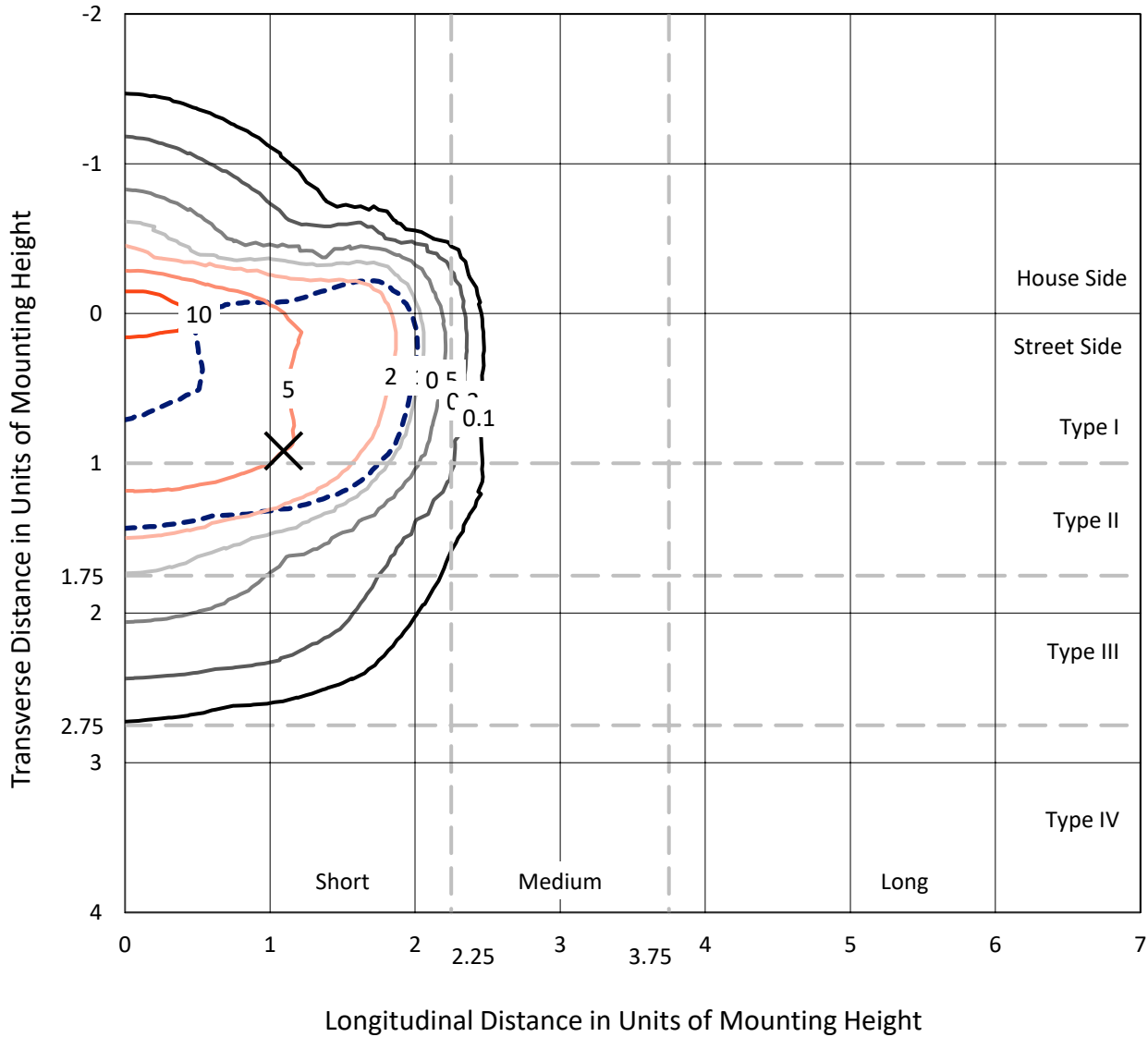
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

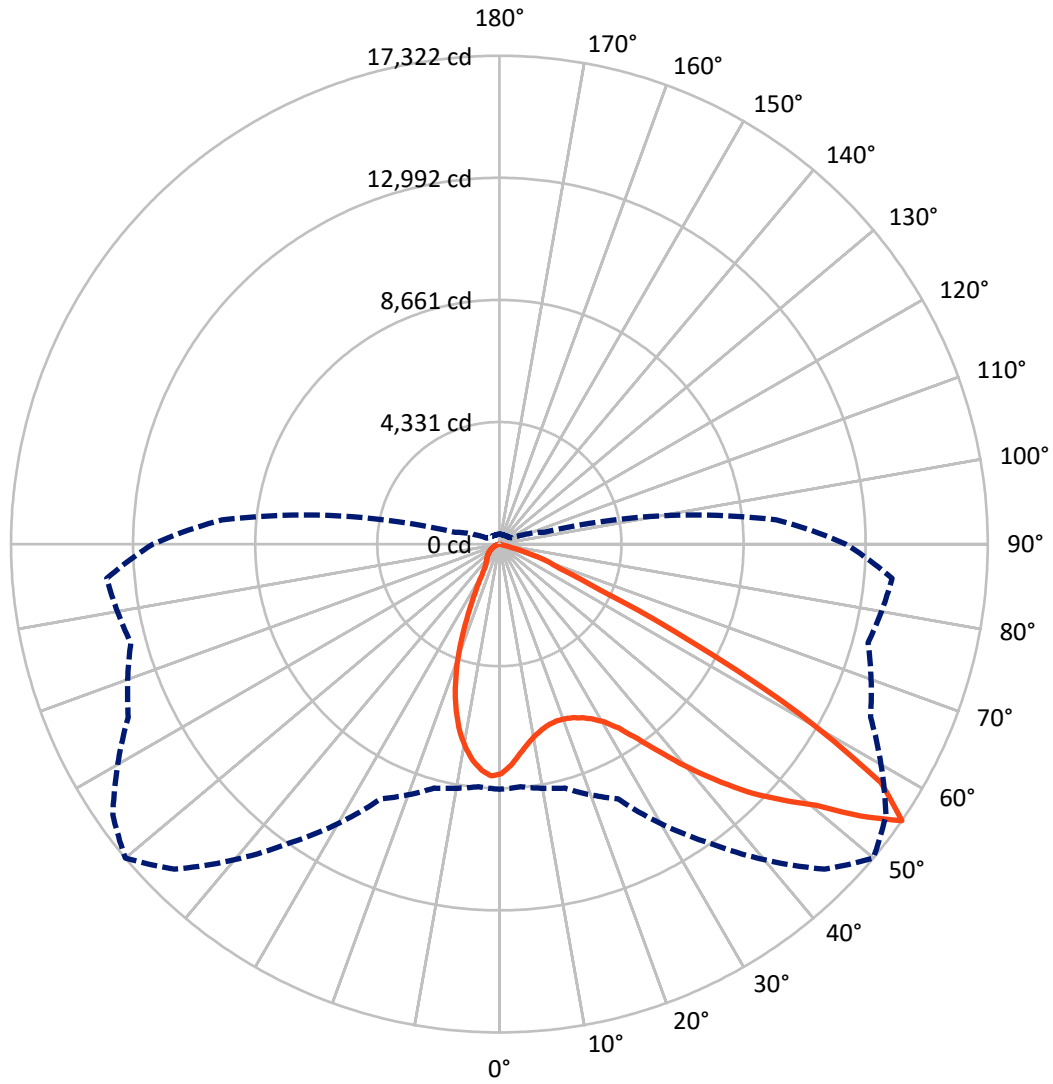
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4574.6	0.0	4574.6
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	18641.0	0.0	18641.0
	% Fixture	80.3	0.0	80.3
Total	Lumens	23215.6	0.0	23215.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	715.3	3.1
10°-20°	1760.3	7.6
20°-30°	2483.0	10.7
30°-40°	3674.3	15.8
40°-50°	5300.8	22.8
50°-60°	6252.7	26.9
60°-70°	2789.2	12.0
70°-80°	239.8	1.0
80°-90°	0.1	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°	23215.6	100.0
0°-180°	23215.6	100.0

Coefficient of Utilization



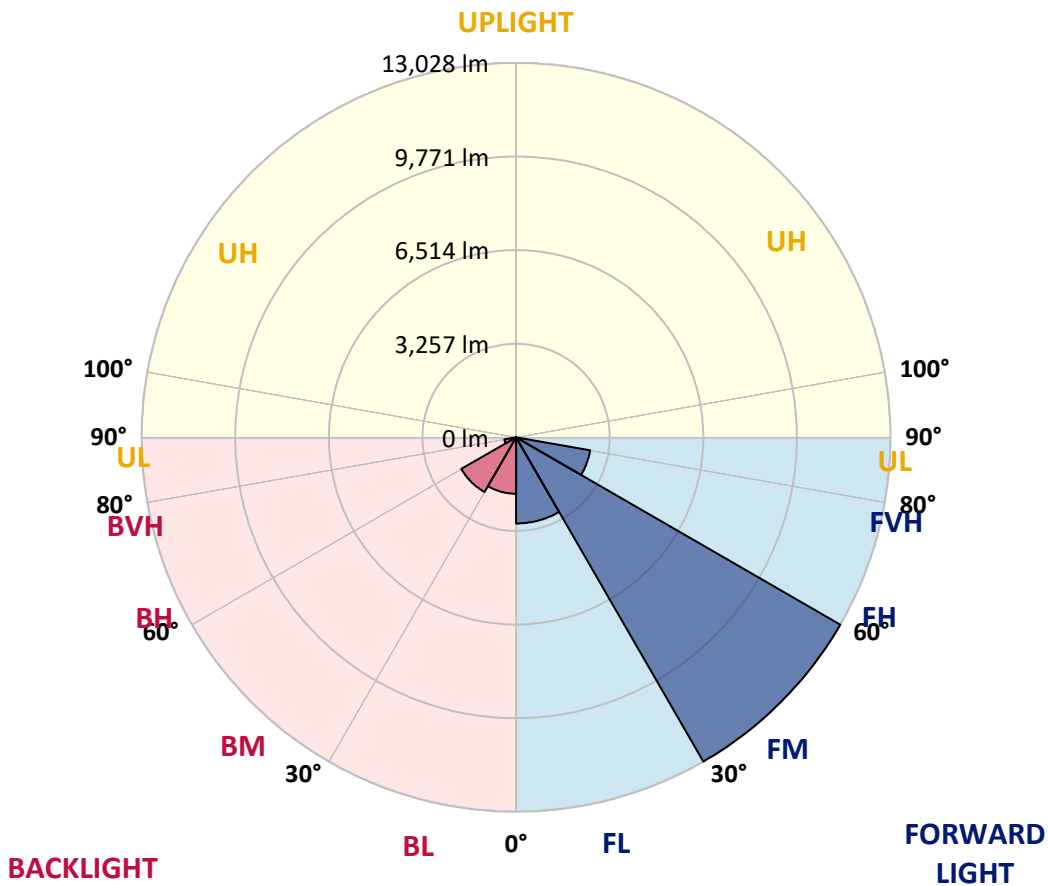
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2997.2	12.9			
FM (30°-60°)	13027.8	56.1			
FH (60°-80°)	2616.0	11.3			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1961.4	8.4	B3/2500		
BM (30°-60°)	2200.0	9.5	B2/2500		
BH (60°-80°)	413.0	1.8	B1/500		G1/500
BVH (80°-90°)	0.1	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°	45°	50°	55°	65°	75°	85°
0°	8145.3	8145.3	8145.3	8145.3	8145.3	8145.3	8145.3	8145.3	8145.3	8145.3	8145.3
2.5°	7567.2	7572.8	7575.7	7652.2	7680.5	7793.9	7853.4	7884.6	7966.8	8063.1	8142.5
5°	7059.8	7051.3	7065.5	7161.9	7224.2	7391.4	7482.1	7544.5	7725.9	7952.6	8142.5
7.5°	6617.7	6634.7	6651.7	6756.6	6850.1	7031.5	7161.9	7255.4	7507.6	7844.9	8165.2
10°	6306.0	6306.0	6331.5	6450.5	6561.0	6784.9	6915.3	7034.3	7334.8	7748.5	8190.7
12.5°	6076.4	6079.2	6110.4	6246.4	6374.0	6606.4	6742.4	6858.6	7190.2	7652.2	8196.3
15°	5968.7	5960.2	5985.7	6130.2	6272.0	6490.2	6631.9	6745.3	7088.2	7598.3	8224.7
17.5°	5940.4	5934.7	5954.5	6096.2	6240.8	6453.3	6592.2	6705.6	7074.0	7615.3	8309.7
20°	6022.6	6011.2	6002.7	6124.6	6260.6	6470.3	6614.9	6742.4	7142.0	7708.9	8440.1
22.5°	6218.1	6218.1	6198.3	6257.8	6348.5	6538.4	6688.6	6855.8	7320.6	7895.9	8632.8
25°	6578.0	6549.7	6512.9	6538.4	6527.0	6646.1	6824.6	7057.0	7657.9	8204.8	8868.0
27.5°	6989.0	7014.5	6952.1	6955.0	6855.8	6813.3	7020.2	7371.6	8159.5	8641.3	9216.6
30°	7547.3	7527.5	7530.3	7521.8	7292.2	7091.0	7314.9	7782.6	8791.5	9307.3	9670.1
32.5°	7983.8	8012.1	8105.6	8159.5	7859.1	7536.0	7774.1	8340.9	9511.4	10066.9	10225.6
35°	8445.7	8496.8	8686.6	8862.4	8610.1	8238.8	8493.9	9080.6	10188.7	10817.9	10863.3
37.5°	8933.2	9035.2	9262.0	9570.9	9531.2	9202.5	9434.9	9950.7	10721.6	11271.4	11390.4
40°	9491.5	9590.7	9962.0	10407.0	10500.5	10426.8	10503.3	10803.7	11073.0	11291.2	11617.1
42.5°	10103.7	10239.8	10710.2	11305.4	11656.8	11722.0	11543.5	11512.3	11226.0	11064.5	11569.0
45°	10826.4	10985.1	11518.0	12288.8	12847.2	12935.0	12626.1	12226.5	11322.4	10897.3	11424.4
47.5°	11637.0	11787.2	12317.2	13243.9	14074.3	14108.4	13569.9	12926.5	11608.6	11090.0	11535.0
50°	11909.1	12002.6	12461.7	13550.0	15080.5	15341.2	14561.8	13714.4	12184.0	11656.8	12073.4
52.5°	10973.8	11010.6	11410.3	12509.9	14876.4	16551.4	16010.1	14890.6	13207.1	12521.2	12903.8
55°	8695.1	8635.6	8958.7	9967.7	12929.4	16304.8	17322.3	16738.4	14525.0	13535.9	13983.7
57.5°	6082.1	6011.2	5937.5	6620.6	9647.4	13822.1	15961.9	16996.3	15780.5	14542.0	15148.5
60°	4999.4	4931.4	4574.3	4259.7	5832.7	9925.2	12260.5	14207.6	15678.5	14491.0	15111.6
62.5°	4319.2	4279.6	4135.0	3707.1	3432.1	5665.4	7677.7	9542.6	12030.9	11379.1	11413.1
65°	3392.5	3381.1	3480.3	3525.7	3035.4	3134.6	3916.8	4959.7	6504.4	6133.1	5815.7
67.5°	2318.3	2292.8	2479.9	3049.5	2919.2	2474.2	2292.8	2312.7	2814.3	1720.3	1366.1
70°	1473.8	1414.2	1417.1	1890.4	2375.0	1952.7	1768.5	1555.9	1400.1	255.1	289.1
72.5°	943.8	906.9	779.4	853.1	1099.6	952.3	960.8	827.6	552.7	136.0	158.7
75°	396.8	365.6	280.6	223.9	221.1	138.9	121.9	113.4	76.5	76.5	82.2
77.5°	2.8	0.0	0.0	2.8	5.7	2.8	2.8	5.7	11.3	17.0	19.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8145.3	8145.3	8145.3	8145.3	8145.3	8145.3	8145.3	8145.3	8145.3	8145.3	8145.3
2.5°	8190.7	8122.7	8199.2	8227.5	8224.7	8227.5	8145.3	8088.6	8085.8	8015.0	7980.9
5°	8221.8	8168.0	8224.7	8187.8	8100.0	7989.4	7842.1	7714.5	7657.9	7575.7	7536.0
7.5°	8281.4	8224.7	8216.2	8068.8	7850.6	7618.2	7357.4	7125.0	7000.3	6850.1	6858.6
10°	8323.9	8258.7	8148.2	7847.7	7485.0	7113.7	6725.4	6379.7	6161.4	5960.2	5926.2
12.5°	8340.9	8244.5	7986.6	7533.1	7023.0	6538.4	5968.7	5475.6	5135.5	4871.9	4835.0
15°	8372.1	8216.2	7779.7	7153.4	6453.3	5767.5	5041.9	4367.4	3916.8	3613.5	3639.0
17.5°	8420.2	8185.0	7547.3	6728.3	5841.2	4871.9	3891.3	3117.6	2703.8	2528.1	2530.9
20°	8488.3	8148.2	7292.2	6260.6	5107.1	3860.1	2720.8	2136.9	2020.7	2015.1	2006.6
22.5°	8578.9	8111.3	7020.2	5747.6	4237.0	2703.8	1811.0	1629.6	1677.8	1771.3	1788.3
25°	8686.6	8066.0	6716.9	5169.5	3287.6	1774.2	1357.6	1329.2	1445.4	1570.1	1598.5
27.5°	8853.9	8043.3	6371.2	4512.0	2307.0	1272.5	1111.0	1128.0	1232.9	1337.7	1363.2
30°	9137.3	8085.8	5994.2	3775.1	1482.3	1014.6	963.6	989.1	1045.8	1099.6	1122.3
32.5°	9522.7	8210.5	5628.6	2970.2	1057.1	881.4	870.1	884.3	906.9	938.1	946.6
35°	9973.3	8425.9	5251.7	2125.6	872.9	804.9	793.6	793.6	804.9	810.6	813.4
37.5°	10344.6	8652.6	4897.4	1414.2	782.2	745.4	728.4	719.9	717.0	722.7	725.5
40°	10506.2	8746.2	4512.0	1028.8	717.0	691.5	666.0	640.5	640.5	660.4	663.2
42.5°	10392.8	8641.3	4067.0	850.2	671.7	634.8	595.2	572.5	583.8	603.7	609.3
45°	10151.9	8383.4	3576.7	751.0	626.3	578.2	532.8	518.6	530.0	555.5	561.2
47.5°	10112.2	8213.3	2990.0	685.9	578.2	530.0	481.8	467.6	481.8	501.6	507.3
50°	10506.2	8360.7	2338.2	629.2	532.8	479.0	439.3	425.1	433.6	445.0	450.6
52.5°	11226.0	8907.7	1887.5	575.3	479.0	428.0	402.4	385.4	385.4	396.8	399.6
55°	12288.8	9862.8	1629.6	513.0	416.6	388.3	365.6	348.6	348.6	354.3	357.1
57.5°	13513.2	11019.1	1689.1	430.8	365.6	351.4	331.6	317.4	323.1	323.1	323.1
60°	13343.1	10934.1	1808.2	362.8	323.1	317.4	300.4	294.8	308.9	297.6	291.9
62.5°	9828.8	7553.0	946.6	297.6	277.7	272.1	260.7	272.1	291.9	260.7	249.4
65°	4772.7	3656.0	379.8	243.7	235.2	229.6	223.9	240.9	252.2	204.1	192.7
67.5°	1122.3	912.6	246.6	206.9	195.6	184.2	189.9	192.7	184.2	138.9	133.2
70°	291.9	286.2	192.7	172.9	155.9	144.5	144.5	141.7	121.9	87.9	82.2
72.5°	158.7	155.9	138.9	130.4	107.7	96.4	99.2	87.9	68.0	51.0	48.2
75°	79.4	85.0	79.4	73.7	59.5	53.8	53.8	48.2	34.0	19.8	19.8
77.5°	17.0	19.8	19.8	17.0	14.2	11.3	11.3	14.2	5.7	0.0	0.0
80°	2.8	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)