

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: P631895

Luminaire Tested: GWS-SA2B-750-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631895  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2B-750-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7198.3 lumens  
Efficiency: N/A  
Efficacy: 155.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

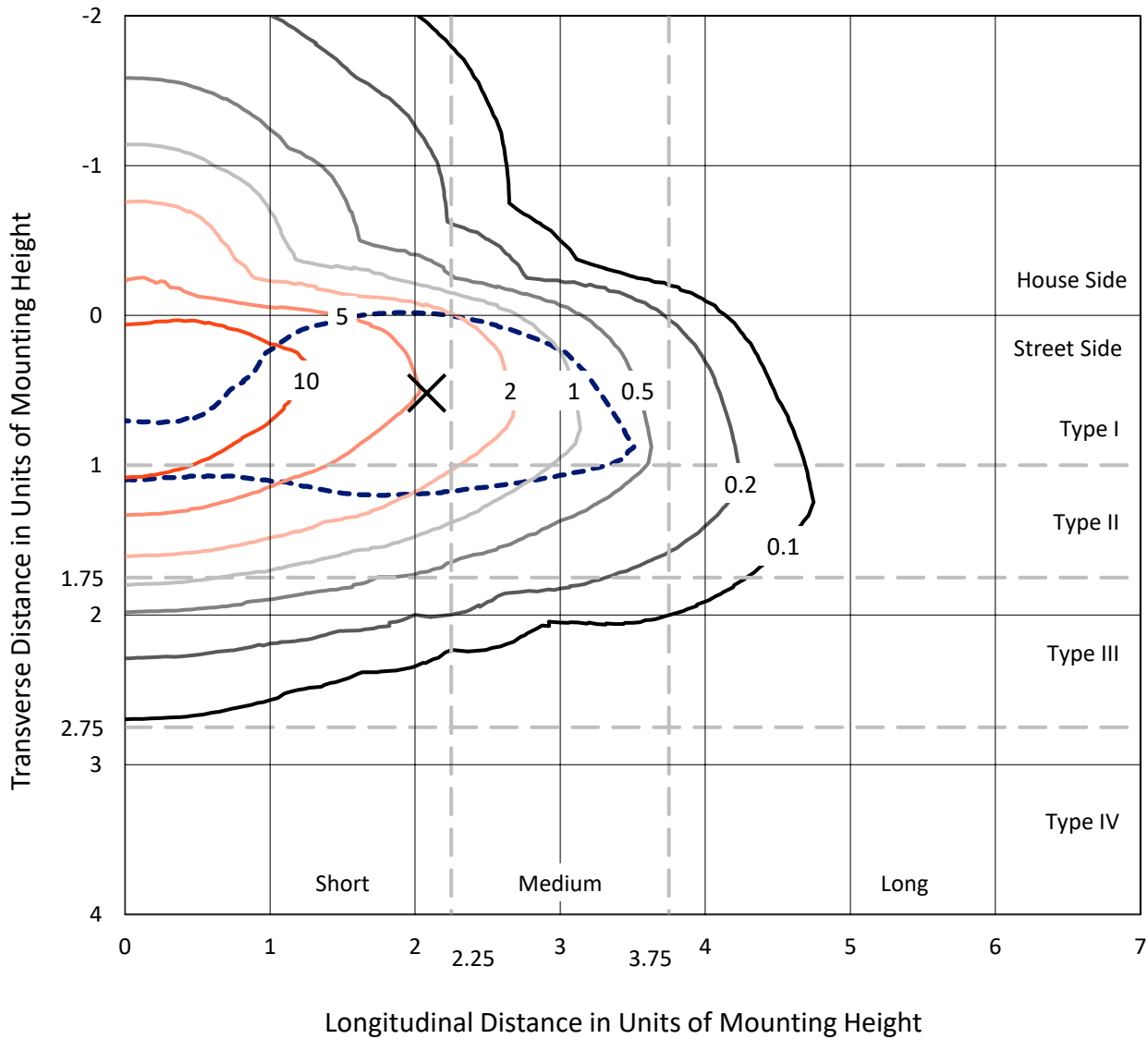
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

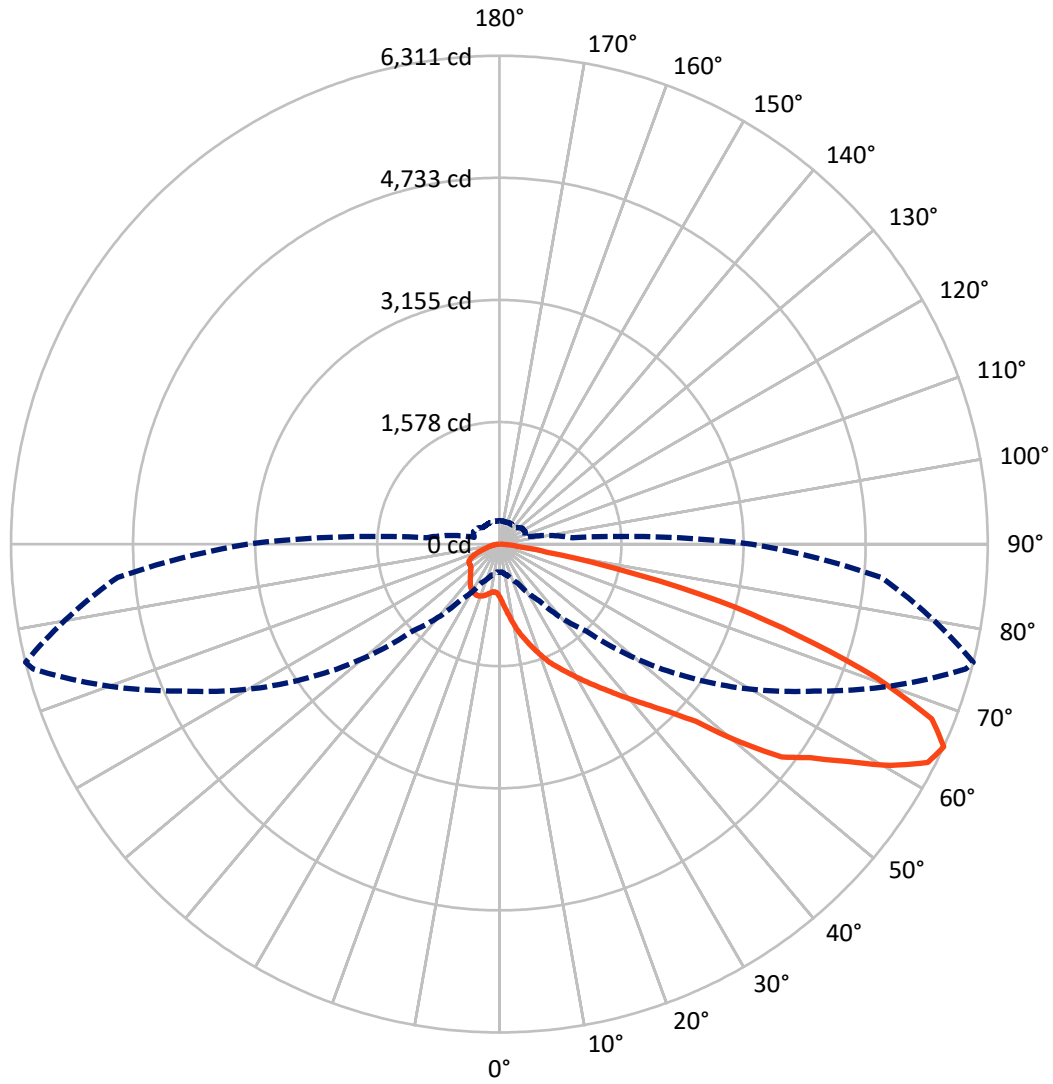
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1203.2	0.0	1203.2
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	5995.1	0.0	5995.1
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	7198.3	0.0	7198.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.0	1.1
10°-20°	308.5	4.3
20°-30°	601.1	8.4
30°-40°	1005.4	14.0
40°-50°	1439.5	20.0
50°-60°	1704.2	23.7
60°-70°	1417.0	19.7
70°-80°	579.9	8.1
80°-90°	61.7	0.9
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°	7198.3	100.0
0°-180°	7198.3	100.0

**Coefficient of Utilization**



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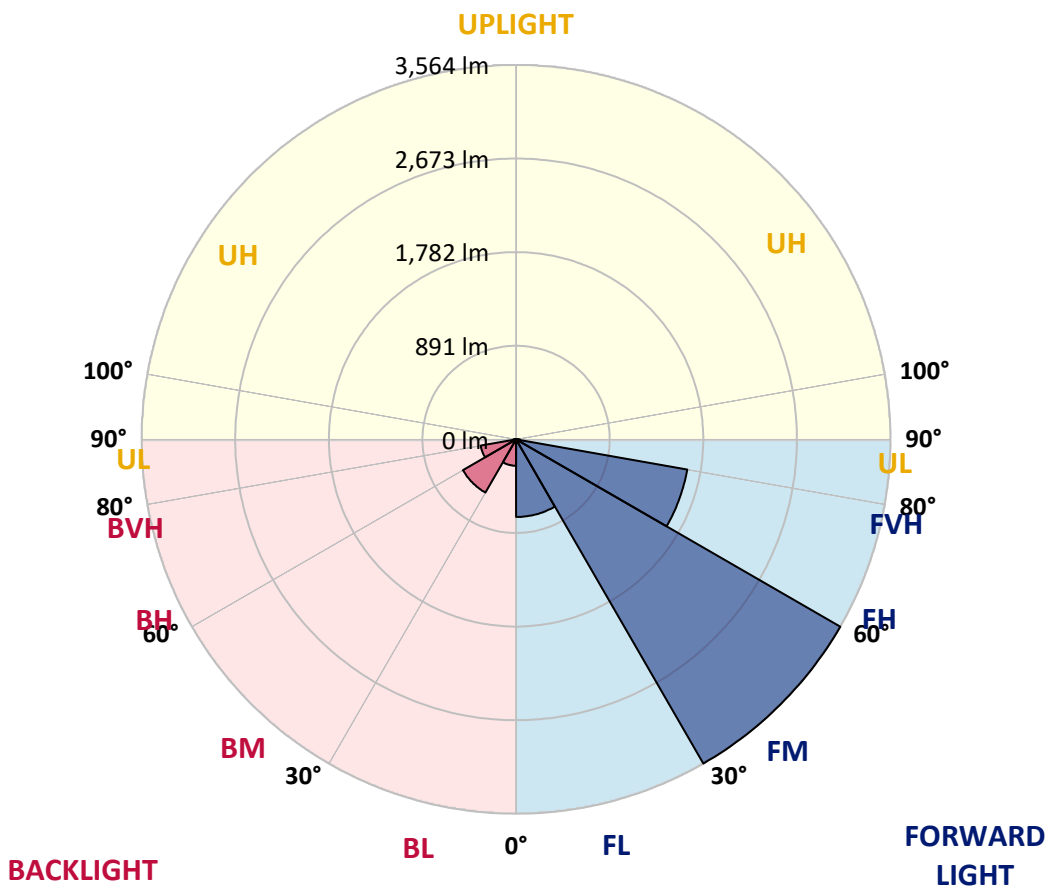
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	738.9	10.3			
FM (30°-60°)	3564.3	49.5			
FH (60°-80°)	1655.1	23.0			G1/1800
FVH (80°-90°)	36.8	0.5			G1/100
BL (0°-30°)	251.7	3.5	B1/500		
BM (30°-60°)	584.7	8.1	B1/1000		
BH (60°-80°)	341.8	4.7	B1/500		G1/500
BVH (80°-90°)	24.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	681.7	681.7	681.7	681.7	681.7	681.7	681.7	681.7	681.7	681.7	681.7
2.5°	955.4	959.0	947.3	943.3	916.0	879.0	848.1	801.6	758.6	752.0	713.5
5°	1213.5	1198.3	1185.2	1176.6	1138.6	1096.6	1031.3	943.8	852.2	841.1	758.1
7.5°	1366.8	1364.3	1348.1	1343.1	1313.7	1271.7	1204.4	1095.6	962.5	944.3	818.3
10°	1489.8	1488.3	1480.2	1484.8	1457.9	1416.9	1351.7	1239.3	1083.5	1065.2	885.6
12.5°	1597.1	1599.6	1598.1	1614.8	1601.1	1569.3	1501.5	1378.0	1204.4	1184.7	967.6
15°	1675.5	1677.6	1685.2	1721.6	1729.2	1722.6	1653.8	1514.1	1323.8	1295.5	1052.1
17.5°	1697.8	1701.9	1720.1	1778.8	1819.8	1847.1	1796.0	1652.8	1441.2	1410.4	1138.1
20°	1727.7	1732.2	1750.4	1811.7	1871.9	1934.1	1925.0	1793.4	1559.7	1534.4	1225.2
22.5°	1865.8	1862.3	1854.2	1883.5	1926.5	2004.0	2026.7	1928.6	1682.1	1657.8	1321.3
25°	2132.0	2125.4	2073.8	2047.0	2032.8	2079.9	2120.4	2051.5	1801.5	1765.1	1410.9
27.5°	2425.5	2422.0	2356.2	2292.4	2205.4	2185.1	2208.9	2158.8	1917.4	1880.5	1488.8
30°	2703.3	2692.7	2623.9	2543.9	2427.5	2340.5	2305.6	2264.1	2044.5	2006.0	1579.9
32.5°	2951.8	2938.1	2857.2	2768.6	2646.7	2543.9	2439.7	2375.9	2188.2	2143.6	1673.0
35°	3155.7	3142.1	3059.1	2965.0	2830.9	2754.9	2612.2	2497.4	2334.4	2289.4	1782.8
37.5°	3313.6	3301.0	3214.4	3121.8	3004.9	2944.7	2820.7	2634.0	2502.9	2455.9	1899.2
40°	3402.2	3393.1	3323.8	3250.4	3152.2	3100.1	3044.4	2806.6	2691.7	2644.6	2036.4
42.5°	3429.0	3422.9	3374.4	3336.4	3270.1	3230.6	3262.5	3009.5	2893.1	2852.1	2190.7
45°	3361.7	3361.7	3347.5	3366.8	3369.8	3369.3	3481.1	3238.7	3140.6	3095.5	2408.3
47.5°	3189.6	3200.8	3221.5	3316.2	3415.9	3499.4	3736.7	3544.4	3458.9	3421.9	2716.5
50°	2874.9	2905.2	2976.1	3160.8	3372.8	3585.4	3978.6	3996.3	4077.8	4012.5	3169.9
52.5°	2413.9	2409.3	2590.0	2853.1	3176.5	3588.9	4111.7	4395.1	4614.2	4569.1	3506.9
55°	1918.4	1910.9	2079.4	2442.2	2875.4	3453.3	4191.6	4577.7	4911.7	4871.3	3810.1
57.5°	1469.1	1459.5	1609.2	1936.7	2450.3	3165.4	4176.4	4795.4	5321.1	5300.4	4222.0
60°	1011.1	999.5	1139.6	1426.1	1947.3	2725.1	4008.4	4907.2	5800.4	5807.5	4662.8
62.5°	607.3	600.7	702.4	924.6	1400.8	2179.6	3615.2	4839.4	6181.9	6213.8	4946.2
65°	366.4	361.8	421.5	551.6	888.6	1590.5	3009.0	4492.7	6237.1	6310.5	4952.7
67.5°	266.7	267.2	284.4	336.0	518.2	1027.3	2258.0	3871.3	5949.7	6025.6	4640.5
70°	231.8	232.8	241.9	253.5	313.2	588.0	1468.1	3056.0	5100.0	5158.7	3892.0
72.5°	206.0	206.0	212.0	218.1	244.9	358.3	786.4	2136.0	4025.1	4040.8	2970.5
75°	181.2	179.6	182.7	185.7	212.5	250.5	382.6	1488.3	2973.1	2936.6	1920.0
77.5°	144.2	142.7	143.2	146.2	170.5	179.1	193.8	929.6	1675.5	1581.4	848.1
80°	102.7	101.7	107.3	114.9	126.0	109.8	121.5	449.9	664.4	618.4	328.9
82.5°	61.2	63.3	71.9	77.9	87.0	68.8	78.4	150.3	235.3	229.2	133.6
85°	8.6	9.1	25.8	29.9	37.4	26.8	41.5	67.8	94.1	100.7	47.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	12.1	26.8	27.3	11.6
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°	681.7	681.7	681.7	681.7	681.7	681.7	681.7	681.7	681.7	681.7	681.7
2.5°	693.8	670.0	636.1	607.8	584.0	564.8	548.6	536.4	532.9	527.8	527.8
5°	719.1	676.1	615.4	572.3	547.5	532.9	522.8	517.7	515.2	512.1	510.6
7.5°	754.0	693.8	611.8	568.3	549.1	540.0	533.4	530.3	528.3	525.3	525.3
10°	802.1	720.1	623.0	582.5	567.3	558.2	550.6	545.5	541.0	536.4	535.4
12.5°	854.2	754.5	643.2	601.7	585.5	574.4	563.7	556.2	550.6	545.0	543.5
15°	911.9	789.9	665.0	620.4	600.2	585.0	572.3	560.7	553.1	545.0	544.0
17.5°	968.6	825.9	683.2	633.1	607.3	588.5	570.3	555.1	545.5	536.4	533.9
20°	1036.4	861.8	695.8	636.6	605.7	580.9	559.2	540.0	529.3	518.7	517.2
22.5°	1098.6	895.2	701.9	631.6	594.1	564.8	539.5	518.7	507.1	496.4	494.4
25°	1158.9	924.6	699.4	619.4	576.4	542.5	516.2	495.4	484.3	473.2	470.1
27.5°	1217.1	944.3	689.2	600.7	554.1	517.7	492.4	473.7	464.0	454.4	450.4
30°	1274.2	962.5	673.6	576.4	525.8	491.9	471.1	458.0	448.4	438.2	435.2
32.5°	1331.9	975.7	649.8	548.1	496.9	469.1	456.5	446.8	436.7	426.6	423.6
35°	1390.1	981.2	620.9	515.7	472.7	454.4	449.9	438.7	425.1	412.9	408.9
37.5°	1459.5	986.3	585.0	483.8	451.4	447.4	446.3	429.6	413.4	396.7	392.2
40°	1543.0	992.9	548.1	454.9	434.2	444.8	440.8	418.0	385.6	369.4	364.4
42.5°	1645.2	1005.0	509.6	428.6	421.5	435.2	430.7	389.7	367.9	358.8	356.3
45°	1795.5	1049.6	471.1	407.9	411.9	421.5	414.5	373.0	364.4	358.3	355.2
47.5°	2063.2	1117.9	437.7	392.2	404.3	409.4	382.1	368.4	361.8	353.7	350.2
50°	2341.5	1147.7	410.9	382.6	395.7	398.3	364.4	362.3	357.8	349.2	345.6
52.5°	2529.8	1143.7	394.7	379.0	388.6	379.0	356.3	355.8	352.7	342.6	338.5
55°	2742.3	1150.8	387.6	380.0	385.6	346.6	346.1	347.7	346.1	335.0	333.0
57.5°	3029.2	1172.5	384.1	383.6	383.6	331.0	336.5	338.5	335.5	330.5	328.9
60°	3305.0	1174.0	377.5	387.6	382.1	321.3	325.4	327.4	323.9	322.9	322.4
62.5°	3408.8	1101.2	362.8	384.6	376.0	310.7	313.8	314.8	311.2	313.8	313.2
65°	3254.4	946.3	338.5	369.9	357.3	301.1	299.1	301.6	295.5	302.1	302.6
67.5°	2889.6	752.0	301.6	342.1	331.0	290.5	286.4	286.4	276.3	286.4	285.9
70°	2329.9	531.4	247.5	297.6	302.1	277.8	275.8	264.2	248.0	263.1	261.6
72.5°	1766.1	381.6	194.8	235.3	260.1	260.1	260.6	240.9	222.2	229.2	223.2
75°	1118.9	268.7	155.9	180.2	203.9	228.2	239.9	203.4	186.7	183.7	180.7
77.5°	504.0	176.6	121.5	138.2	144.7	180.2	219.1	175.1	152.3	145.7	143.7
80°	211.0	109.8	86.5	97.7	89.1	151.3	193.3	136.1	111.8	102.7	96.1
82.5°	92.6	65.3	55.2	52.6	55.7	112.3	144.2	90.6	69.8	94.6	95.6
85°	39.0	34.4	28.3	25.8	22.8	43.0	67.8	35.4	43.5	24.8	20.2
87.5°	9.1	10.1	7.6	5.1	3.0	0.5	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)