

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: P631343

Luminaire Tested: GWS-SA1F-740-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631343
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-740-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7414.8 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

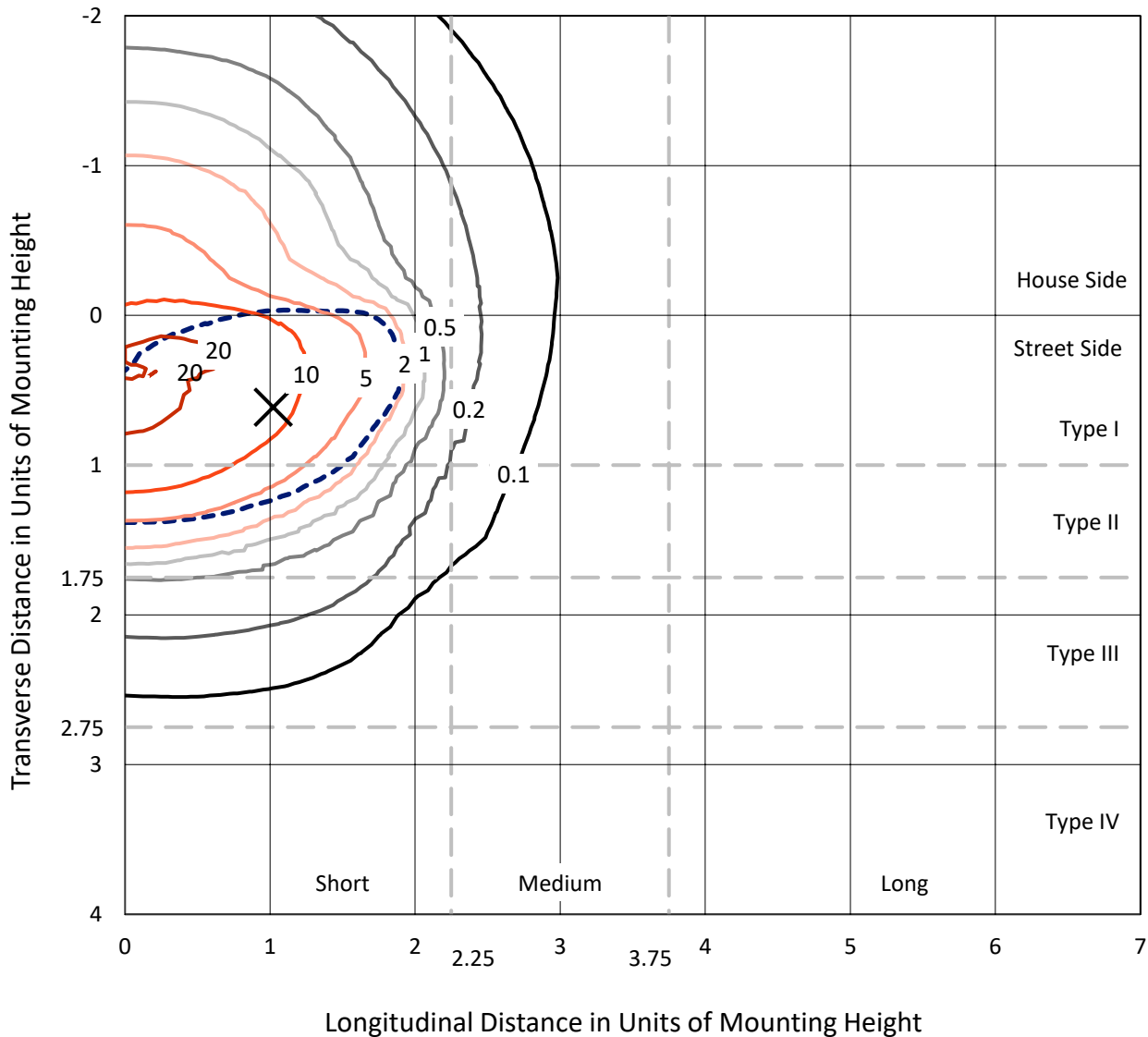
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

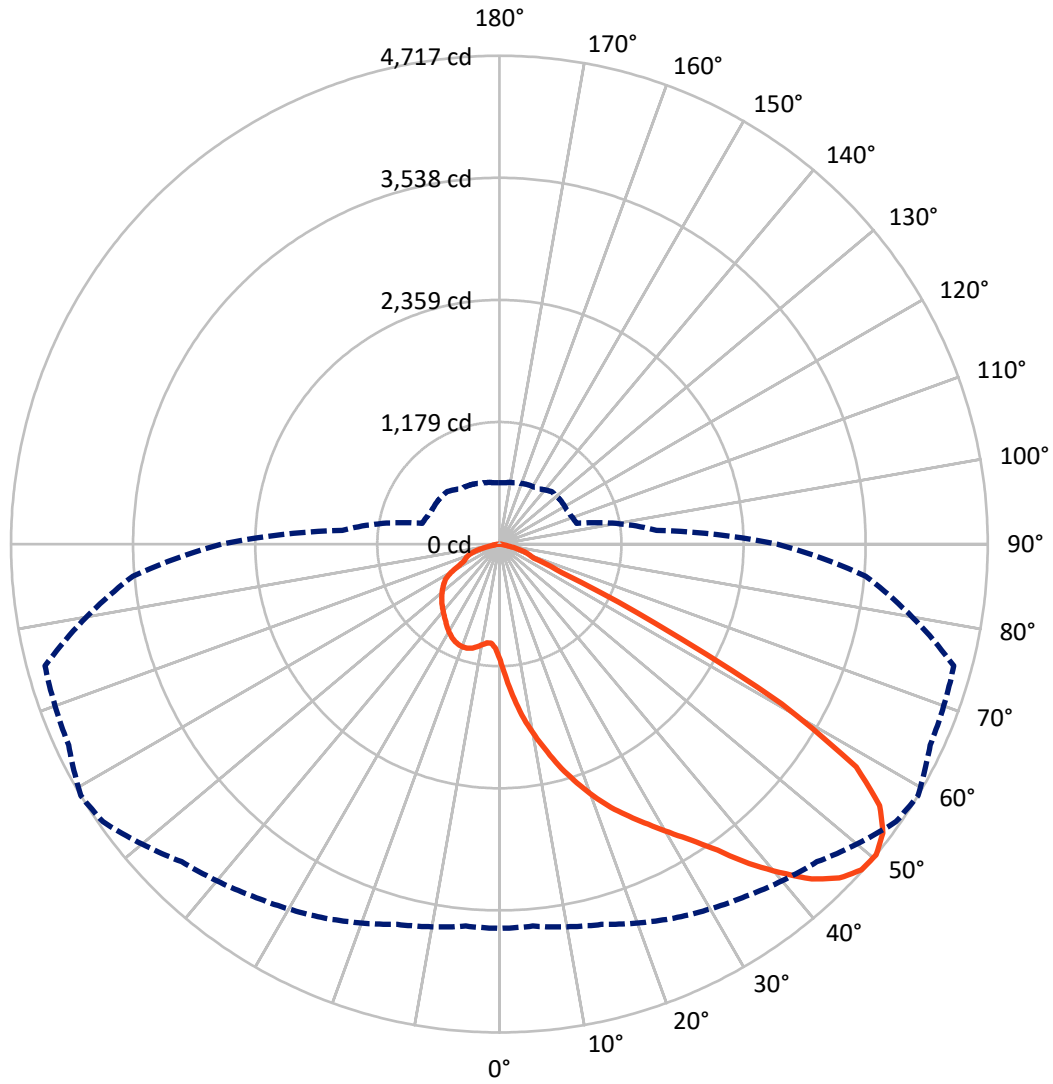
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1705.5	0.0	1705.5
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	5709.2	0.0	5709.2
	% Fixture	77.0	0.0	77.0
Total	Lumens	7414.8	0.0	7414.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.0	1.7
10°-20°	457.5	6.2
20°-30°	866.3	11.7
30°-40°	1436.6	19.4
40°-50°	1962.5	26.5
50°-60°	1781.4	24.0
60°-70°	593.2	8.0
70°-80°	173.0	2.3
80°-90°	18.2	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°	7414.8	100.0
0°-180°	7414.8	100.0

Coefficient of Utilization



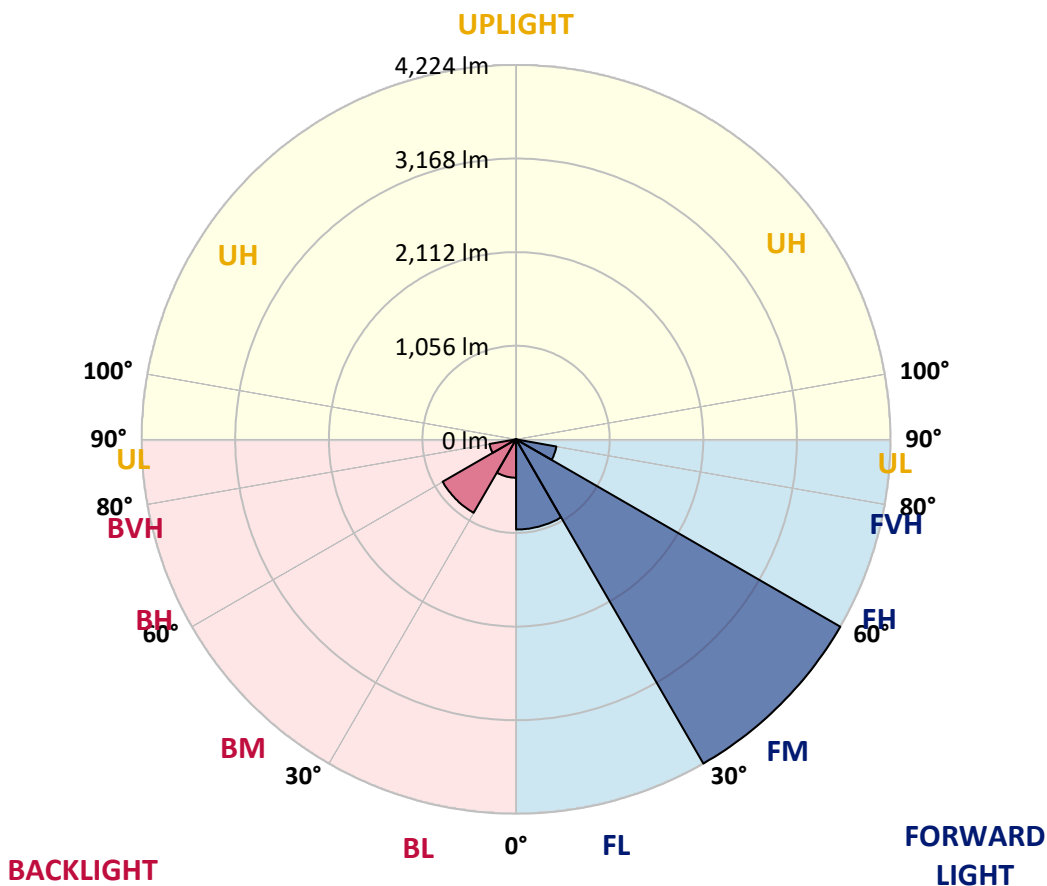
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1016.8	13.7			
FM (30°-60°)	4223.6	57.0			
FH (60°-80°)	461.8	6.2			G0/660
FVH (80°-90°)	7.1	0.1			G0/10
BL (0°-30°)	433.1	5.8	B1/500		
BM (30°-60°)	957.0	12.9	B1/1000		
BH (60°-80°)	304.4	4.1	B1/500		G1/500
BVH (80°-90°)	11.1	0.1			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°	59°	65°	75°	85°
0°	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4
2.5°	1455.6	1466.5	1449.5	1450.7	1408.5	1389.1	1334.8	1302.8	1281.6	1222.4	1168.7
5°	1749.1	1736.4	1723.1	1715.3	1678.4	1626.5	1558.9	1505.1	1455.6	1339.6	1227.9
7.5°	1929.1	1922.5	1913.4	1908.6	1872.3	1818.0	1750.3	1704.4	1632.5	1475.5	1299.8
10°	2081.9	2074.1	2068.6	2072.2	2042.6	2007.6	1933.9	1881.4	1800.5	1619.3	1386.7
12.5°	2200.3	2204.5	2206.3	2225.7	2213.0	2191.8	2115.7	2060.2	1970.2	1770.9	1488.8
15°	2293.9	2292.7	2313.8	2350.7	2371.2	2357.9	2296.9	2250.4	2140.5	1920.0	1598.7
17.5°	2315.6	2316.9	2350.1	2414.7	2481.7	2514.4	2479.9	2424.4	2315.6	2067.4	1712.9
20°	2333.2	2335.6	2370.0	2443.7	2541.5	2632.7	2638.2	2598.3	2504.7	2226.9	1828.8
22.5°	2443.7	2449.1	2458.2	2504.7	2592.9	2708.2	2771.6	2763.2	2684.7	2394.2	1953.9
25°	2734.2	2717.9	2673.8	2660.5	2694.3	2788.0	2896.1	2912.4	2873.7	2578.4	2088.5
27.5°	3093.0	3075.4	3010.2	2941.4	2868.3	2900.9	3016.3	3065.2	3065.8	2781.3	2223.8
30°	3418.5	3404.6	3351.5	3253.0	3126.8	3079.7	3164.8	3230.7	3269.9	3015.7	2377.9
32.5°	3696.9	3684.3	3612.4	3532.0	3408.8	3314.0	3344.8	3408.2	3500.0	3318.8	2569.3
35°	3931.3	3918.6	3849.7	3768.8	3654.7	3597.9	3587.0	3630.5	3749.5	3635.3	2789.2
37.5°	4121.5	4108.8	4037.0	3960.9	3873.9	3877.5	3893.8	3915.0	3983.2	3974.2	3024.1
40°	4244.7	4231.5	4180.1	4125.8	4070.8	4114.3	4195.2	4169.8	4206.1	4247.8	3240.3
42.5°	4299.7	4282.8	4253.2	4241.1	4224.2	4291.9	4447.7	4422.3	4378.8	4430.2	3401.0
45°	4244.7	4230.2	4229.6	4266.5	4305.7	4392.7	4622.2	4601.7	4491.8	4518.3	3497.0
47.5°	4076.2	4063.5	4098.0	4194.6	4291.2	4418.1	4700.1	4703.8	4572.1	4555.2	3559.2
50°	3712.0	3703.6	3803.2	3986.2	4152.9	4339.0	4675.4	4717.0	4591.4	4543.7	3551.4
52.5°	2971.6	3010.8	3227.6	3533.3	3857.0	4200.0	4583.6	4637.9	4498.4	4468.2	3509.1
55°	2034.2	2052.3	2269.1	2715.5	3228.9	3899.3	4372.8	4456.7	4388.5	4455.5	3553.2
57.5°	1053.3	1067.8	1238.8	1635.0	2190.0	3081.5	3787.5	4062.9	4166.8	4519.5	3690.3
60°	432.4	444.5	515.2	706.7	1104.7	1794.4	2725.7	3134.0	3378.0	4127.6	3277.2
62.5°	314.1	320.1	353.9	421.6	578.6	879.4	1542.6	1692.9	1864.5	2586.8	2080.7
65°	264.5	271.2	298.4	339.4	422.2	539.4	658.9	662.6	730.2	1053.9	771.3
67.5°	221.7	227.7	251.9	286.9	341.2	382.9	353.9	354.5	353.3	382.3	369.6
70°	172.7	177.6	201.7	239.2	267.6	245.8	276.6	306.2	293.5	305.0	322.5
72.5°	126.2	131.7	152.8	181.2	173.9	175.2	224.1	254.3	247.0	259.7	276.0
75°	91.2	94.8	105.7	90.6	95.4	115.4	157.6	173.9	181.2	192.1	206.6
77.5°	29.6	29.6	33.2	41.7	51.9	64.0	80.3	87.0	97.8	109.9	120.2
80°	15.1	15.7	18.7	23.0	29.0	36.8	47.1	50.1	55.6	62.2	66.4
82.5°	7.2	7.9	9.1	11.5	15.1	19.3	26.0	29.0	32.6	36.8	39.9
85°	1.8	1.8	2.4	3.6	4.8	7.2	9.7	11.5	14.5	17.5	19.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.6	1.8	2.4	3.0	3.6	4.8
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°	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4	1123.4
2.5°	1144.5	1110.7	1067.2	1030.4	996.6	970.6	948.2	937.4	927.1	919.9	922.3
5°	1175.9	1118.0	1037.0	980.9	946.4	928.9	916.8	910.8	909.6	904.8	902.9
7.5°	1221.8	1139.1	1031.0	974.2	951.3	942.2	935.6	931.9	933.7	928.9	927.1
10°	1278.6	1174.1	1046.1	996.0	976.0	969.4	962.1	957.3	954.9	947.6	946.4
12.5°	1349.3	1217.6	1073.3	1023.7	1003.8	992.3	982.7	974.2	968.8	959.7	957.3
15°	1425.4	1265.9	1105.3	1050.9	1027.4	1010.5	994.7	982.1	972.4	960.3	958.5
17.5°	1508.1	1316.7	1131.9	1069.6	1039.4	1017.1	994.1	975.4	962.1	946.4	944.6
20°	1594.5	1368.0	1151.8	1078.7	1040.0	1009.8	979.0	954.3	937.4	921.7	920.5
22.5°	1683.9	1415.1	1163.9	1076.3	1030.4	992.9	956.1	928.3	908.4	889.7	888.4
25°	1773.9	1460.4	1166.9	1066.6	1011.1	967.6	930.7	898.1	875.8	854.6	852.2
27.5°	1865.1	1498.5	1159.6	1047.3	985.1	938.0	901.1	869.1	846.2	825.0	821.4
30°	1962.3	1531.1	1143.9	1021.9	954.9	906.6	870.3	846.2	824.4	803.3	799.7
32.5°	2066.2	1559.5	1121.6	991.1	919.9	875.2	848.6	826.8	805.1	786.4	782.8
35°	2190.0	1578.2	1088.4	951.3	887.2	852.2	834.1	808.7	782.1	761.6	759.8
37.5°	2318.1	1592.7	1048.5	913.2	858.9	838.9	823.8	789.4	756.2	731.4	728.4
40°	2441.9	1604.8	999.0	877.6	832.9	829.3	808.7	765.8	708.5	680.7	678.3
42.5°	2557.2	1608.4	947.0	839.5	809.3	807.5	784.6	718.1	674.0	656.5	654.1
45°	2636.4	1605.4	893.3	803.9	785.8	776.1	751.9	683.7	656.5	640.8	637.8
47.5°	2694.9	1589.7	832.9	766.4	759.2	745.9	694.0	662.0	636.6	620.9	617.9
50°	2684.7	1524.4	771.9	730.2	727.2	715.7	651.7	634.8	612.4	595.5	593.1
52.5°	2631.5	1400.6	709.7	690.3	696.4	674.0	621.5	602.2	582.8	563.5	559.3
55°	2644.8	1311.2	662.6	651.7	662.6	611.8	587.7	567.1	549.0	530.3	526.7
57.5°	2702.8	1223.1	612.4	610.0	621.5	564.1	544.2	518.2	492.2	477.1	477.1
60°	2269.7	891.5	524.3	530.3	556.3	525.5	507.9	481.4	453.0	439.7	439.7
62.5°	1342.0	559.3	434.9	428.2	444.5	463.9	473.5	451.8	418.0	400.4	401.0
65°	591.3	407.1	383.5	378.1	373.3	386.5	413.1	414.9	379.3	358.8	359.4
67.5°	364.2	368.4	358.8	354.5	350.3	347.9	345.5	346.7	337.0	318.3	317.7
70°	328.6	340.0	333.4	329.8	324.3	320.1	305.6	282.1	265.7	260.9	266.4
72.5°	282.7	298.4	294.7	292.9	286.3	276.0	256.7	233.7	214.4	202.3	204.7
75°	213.2	225.9	227.7	228.3	221.1	211.4	191.5	172.1	155.2	142.5	145.6
77.5°	122.6	129.9	131.7	133.5	128.0	124.4	111.1	97.2	88.2	74.9	78.5
80°	68.2	71.3	71.3	71.9	68.9	64.6	55.6	47.7	43.5	37.4	38.1
82.5°	41.1	42.3	42.9	43.5	41.7	37.4	30.8	25.4	23.0	19.9	19.3
85°	19.9	21.1	21.1	21.7	18.7	16.3	12.7	9.7	8.5	6.0	6.6
87.5°	4.8	5.4	5.4	4.8	4.2	3.0	1.8	0.6	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)