

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: P631453

Luminaire Tested: GWS-SA1F-760-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631453
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7480.8 lumens
Efficiency: N/A
Efficacy: 111.3 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

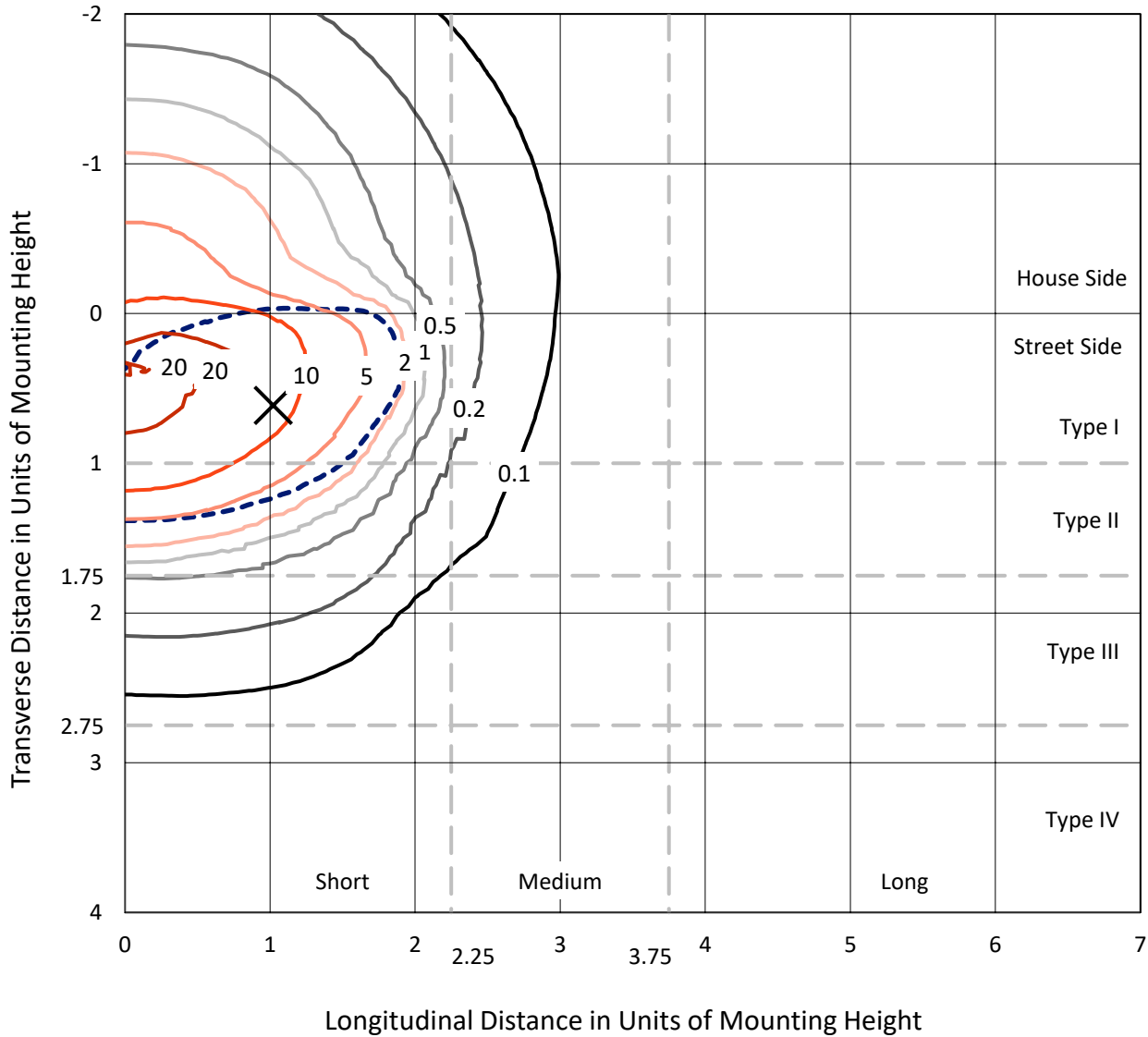
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

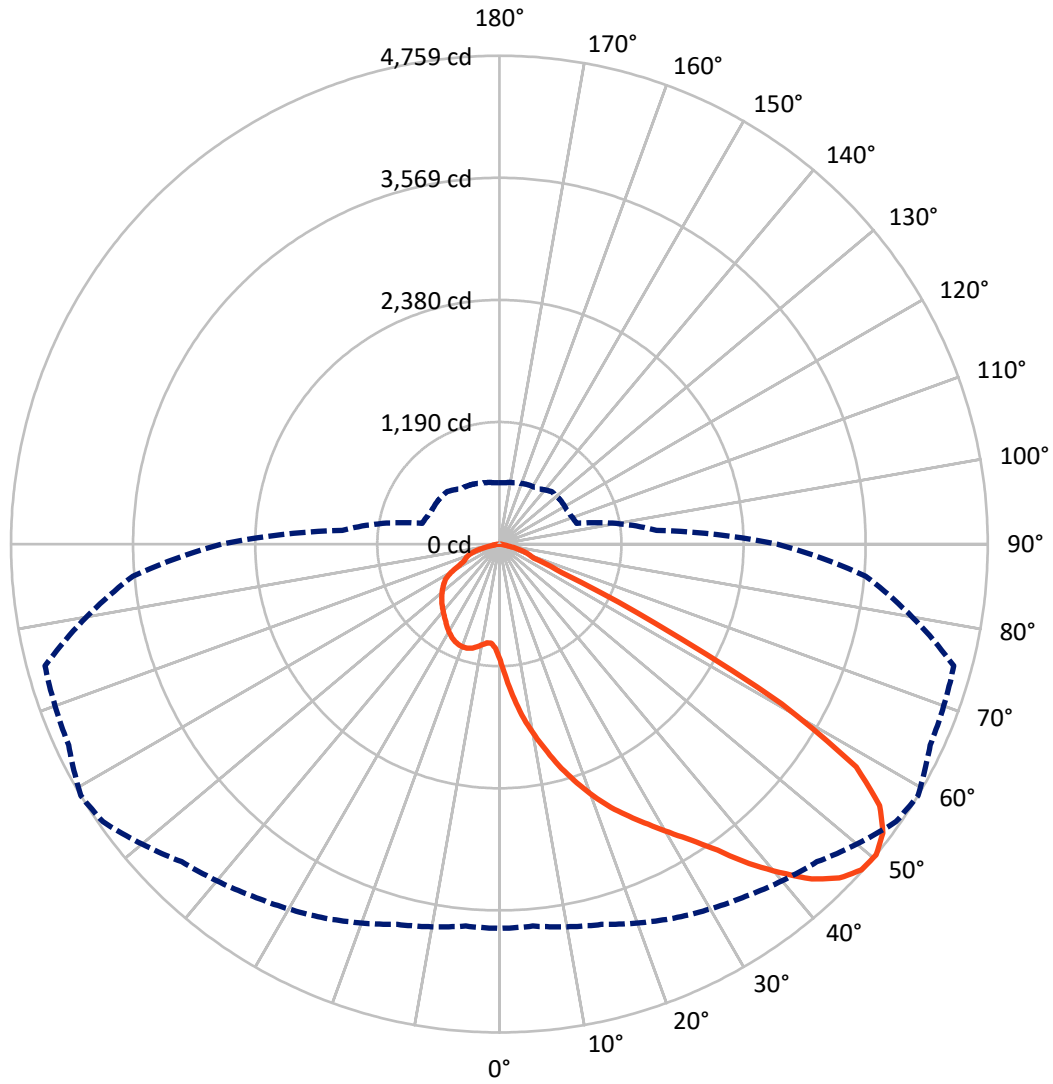
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.4 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	1720.7	0.0	1720.7
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	5760.1	0.0	5760.1
	% Fixture	77.0	0.0	77.0
Total	Lumens	7480.8	0.0	7480.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.1	1.7
10°-20°	461.6	6.2
20°-30°	874.0	11.7
30°-40°	1449.4	19.4
40°-50°	1980.0	26.5
50°-60°	1797.3	24.0
60°-70°	598.5	8.0
70°-80°	174.6	2.3
80°-90°	18.3	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°	7480.8	100.0
0°-180°	7480.8	100.0

Coefficient of Utilization



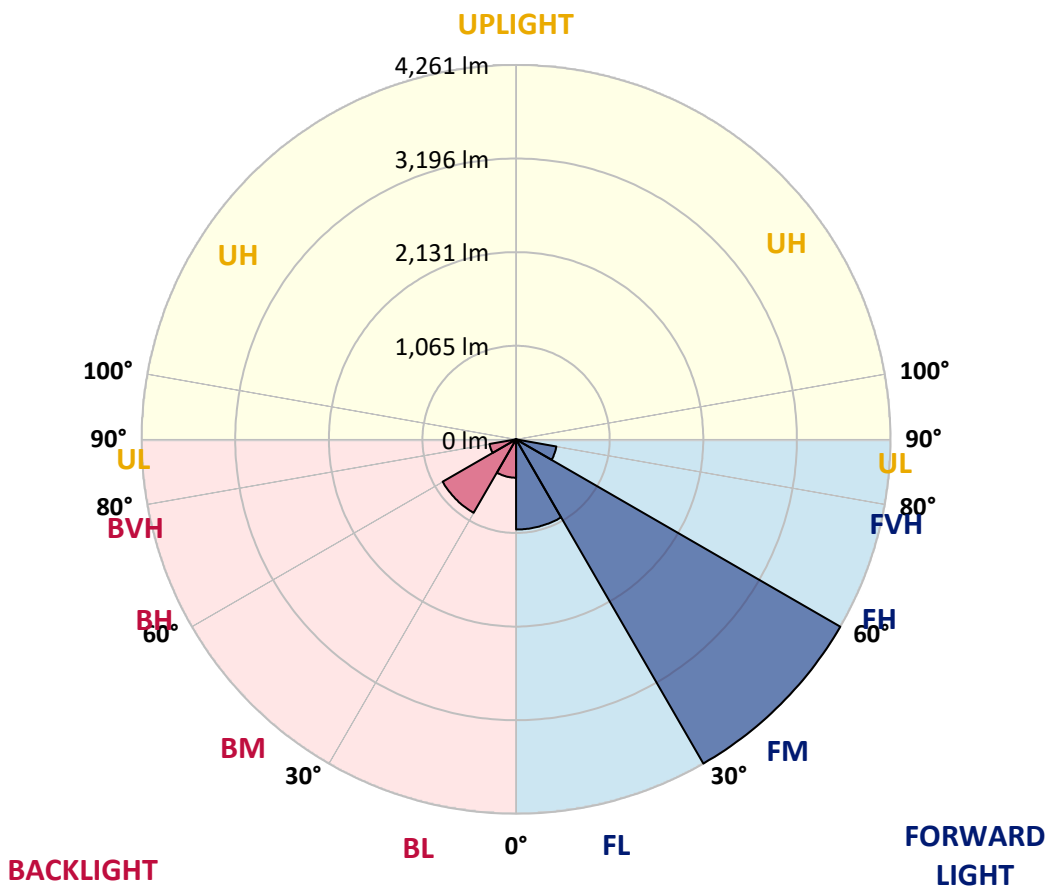
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1025.8	13.7			
FM (30°-60°)	4261.2	57.0			
FH (60°-80°)	465.9	6.2			G0/660
FVH (80°-90°)	7.2	0.1			G0/10
BL (0°-30°)	436.9	5.8	B1/500		
BM (30°-60°)	965.5	12.9	B1/1000		
BH (60°-80°)	307.1	4.1	B1/500		G1/500
BVH (80°-90°)	11.2	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°	1133.4	1133.4	1133.4	1133.4	1133.4	1133.4	1133.4	1133.4	1133.4	1133.4	1133.4
2.5°	1468.5	1479.5	1462.4	1463.7	1421.0	1401.5	1346.7	1314.4	1293.0	1233.3	1179.1
5°	1764.7	1751.9	1738.5	1730.6	1693.4	1641.0	1572.7	1518.5	1468.5	1351.5	1238.8
7.5°	1946.3	1939.6	1930.4	1925.6	1889.0	1834.1	1765.9	1719.6	1647.1	1488.6	1311.3
10°	2100.4	2092.5	2087.0	2090.7	2060.8	2025.5	1951.1	1898.1	1816.5	1633.7	1399.1
12.5°	2219.9	2224.1	2226.0	2245.5	2232.7	2211.3	2134.6	2078.5	1987.7	1786.6	1502.1
15°	2314.3	2313.1	2334.4	2371.6	2392.3	2378.9	2317.4	2270.4	2159.5	1937.1	1613.0
17.5°	2336.3	2337.5	2371.0	2436.2	2503.8	2536.7	2502.0	2445.9	2336.3	2085.8	1728.1
20°	2353.9	2356.4	2391.1	2465.4	2564.2	2656.2	2661.6	2621.4	2527.0	2246.7	1845.1
22.5°	2465.4	2470.9	2480.1	2527.0	2615.9	2732.3	2796.3	2787.8	2708.6	2415.5	1971.3
25°	2758.5	2742.1	2697.6	2684.2	2718.3	2812.8	2921.8	2938.3	2899.3	2601.3	2107.1
27.5°	3120.5	3102.8	3037.0	2967.5	2893.8	2926.7	3043.1	3092.5	3093.1	2806.1	2243.6
30°	3448.9	3434.9	3381.3	3282.0	3154.6	3107.1	3193.0	3259.4	3299.0	3042.5	2399.0
32.5°	3729.8	3717.0	3644.5	3563.5	3439.2	3343.5	3374.6	3438.6	3531.2	3348.4	2592.2
35°	3966.3	3953.5	3884.0	3802.4	3687.2	3629.9	3618.9	3662.8	3782.9	3667.7	2814.0
37.5°	4158.2	4145.4	4072.9	3996.1	3908.4	3912.0	3928.5	3949.8	4018.7	4009.5	3051.0
40°	4282.5	4269.1	4217.3	4162.5	4107.0	4150.9	4232.6	4207.0	4243.5	4285.6	3269.2
42.5°	4338.0	4320.9	4291.1	4278.9	4261.8	4330.1	4487.3	4461.7	4417.8	4469.6	3431.3
45°	4282.5	4267.9	4267.3	4304.5	4344.1	4431.8	4663.4	4642.7	4531.7	4558.6	3528.1
47.5°	4112.5	4099.7	4134.5	4231.9	4329.4	4457.4	4742.0	4745.6	4612.8	4595.7	3590.9
50°	3745.1	3736.5	3837.1	4021.7	4189.9	4377.6	4717.0	4759.0	4632.3	4584.2	3583.0
52.5°	2998.0	3037.6	3256.4	3564.7	3891.3	4237.4	4624.4	4679.2	4538.5	4508.0	3540.3
55°	2052.3	2070.6	2289.3	2739.6	3257.6	3934.0	4411.7	4496.4	4427.5	4495.2	3584.8
57.5°	1062.7	1077.3	1249.8	1649.5	2209.5	3108.9	3821.2	4099.1	4203.9	4559.8	3723.1
60°	436.3	448.5	519.8	712.9	1114.5	1810.4	2750.0	3161.9	3408.1	4164.3	3306.3
62.5°	316.9	323.0	357.1	425.3	583.8	887.2	1556.3	1708.0	1881.1	2609.9	2099.2
65°	266.9	273.6	301.0	342.5	425.9	544.2	664.8	668.5	736.7	1063.3	778.1
67.5°	223.6	229.7	254.1	289.4	344.3	386.3	357.1	357.7	356.5	385.7	372.9
70°	174.3	179.1	203.5	241.3	269.9	248.0	279.1	308.9	296.1	307.7	325.4
72.5°	127.4	132.8	154.2	182.8	175.5	176.7	226.1	256.5	249.2	262.0	278.5
75°	92.0	95.7	106.6	91.4	96.3	116.4	159.0	175.5	182.8	193.8	208.4
77.5°	29.9	29.9	33.5	42.0	52.4	64.6	81.0	87.7	98.7	110.9	121.3
80°	15.2	15.8	18.9	23.2	29.2	37.2	47.5	50.6	56.1	62.8	67.0
82.5°	7.3	7.9	9.1	11.6	15.2	19.5	26.2	29.2	32.9	37.2	40.2
85°	1.8	1.8	2.4	3.7	4.9	7.3	9.7	11.6	14.6	17.7	19.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.6	1.8	2.4	3.0	3.7	4.9
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°	1133.4	1133.4	1133.4	1133.4	1133.4	1133.4	1133.4	1133.4	1133.4	1133.4	1133.4
2.5°	1154.7	1120.6	1076.7	1039.6	1005.4	979.2	956.7	945.7	935.4	928.0	930.5
5°	1186.4	1127.9	1046.3	989.6	954.9	937.2	925.0	918.9	917.7	912.8	911.0
7.5°	1232.7	1149.2	1040.2	982.9	959.7	950.6	943.9	940.2	942.1	937.2	935.4
10°	1290.0	1184.6	1055.4	1004.8	984.7	978.0	970.7	965.8	963.4	956.1	954.9
12.5°	1361.3	1228.5	1082.8	1032.9	1012.7	1001.2	991.4	982.9	977.4	968.3	965.8
15°	1438.1	1277.2	1115.1	1060.3	1036.5	1019.4	1003.6	990.8	981.1	968.9	967.0
17.5°	1521.6	1328.4	1141.9	1079.2	1048.7	1026.1	1003.0	984.1	970.7	954.9	953.0
20°	1608.7	1380.2	1162.0	1088.3	1049.3	1018.8	987.8	962.8	945.7	929.9	928.7
22.5°	1698.9	1427.7	1174.2	1085.9	1039.6	1001.8	964.6	936.6	916.5	897.6	896.4
25°	1789.7	1473.4	1177.3	1076.1	1020.1	976.2	939.0	906.1	883.6	862.2	859.8
27.5°	1881.7	1511.8	1170.0	1056.6	993.9	946.3	909.2	876.9	853.7	832.4	828.7
30°	1979.8	1544.7	1154.1	1031.0	963.4	914.6	878.1	853.7	831.8	810.4	806.8
32.5°	2084.6	1573.3	1131.6	999.9	928.0	883.0	856.1	834.2	812.3	793.4	789.7
35°	2209.5	1592.2	1098.1	959.7	895.1	859.8	841.5	815.9	789.1	768.4	766.6
37.5°	2338.7	1606.9	1057.8	921.3	866.5	846.4	831.2	796.4	762.9	737.9	734.9
40°	2463.6	1619.0	1007.9	885.4	840.3	836.6	815.9	772.7	714.8	686.7	684.3
42.5°	2580.0	1622.7	955.5	847.0	816.5	814.7	791.5	724.5	680.0	662.4	659.9
45°	2659.8	1619.7	901.2	811.0	792.8	783.0	758.6	689.8	662.4	646.5	643.5
47.5°	2718.9	1603.8	840.3	773.3	766.0	752.5	700.1	667.8	642.3	626.4	623.4
50°	2708.6	1538.0	778.8	736.7	733.7	722.1	657.5	640.4	617.9	600.8	598.4
52.5°	2654.9	1413.1	716.0	696.5	702.6	680.0	627.0	607.5	588.0	568.5	564.3
55°	2668.4	1322.9	668.5	657.5	668.5	617.3	592.9	572.2	553.9	535.0	531.4
57.5°	2726.8	1233.9	617.9	615.4	627.0	569.1	549.0	522.8	496.6	481.4	481.4
60°	2289.9	899.4	528.9	535.0	561.2	530.1	512.5	485.7	457.0	443.6	443.6
62.5°	1354.0	564.3	438.7	432.0	448.5	468.0	477.7	455.8	421.7	404.0	404.6
65°	596.6	410.7	386.9	381.5	376.6	390.0	416.8	418.6	382.7	362.0	362.6
67.5°	367.4	371.7	362.0	357.7	353.4	351.0	348.5	349.8	340.0	321.1	320.5
70°	331.5	343.1	336.4	332.7	327.2	323.0	308.3	284.6	268.1	263.2	268.7
72.5°	285.2	301.0	297.4	295.5	288.8	278.5	259.0	235.8	216.3	204.1	206.6
75°	215.1	227.9	229.7	230.3	223.0	213.3	193.2	173.7	156.6	143.8	146.9
77.5°	123.7	131.0	132.8	134.7	129.2	125.5	112.1	98.1	89.0	75.6	79.2
80°	68.9	71.9	71.9	72.5	69.5	65.2	56.1	48.1	43.9	37.8	38.4
82.5°	41.4	42.7	43.3	43.9	42.0	37.8	31.1	25.6	23.2	20.1	19.5
85°	20.1	21.3	21.3	21.9	18.9	16.5	12.8	9.7	8.5	6.1	6.7
87.5°	4.9	5.5	5.5	4.9	4.3	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)