

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: P630793

Luminaire Tested: GWS-SA1E-735-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630793
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-SA1E-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6577.7 lumens
Efficiency: N/A
Efficacy: 112.6 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

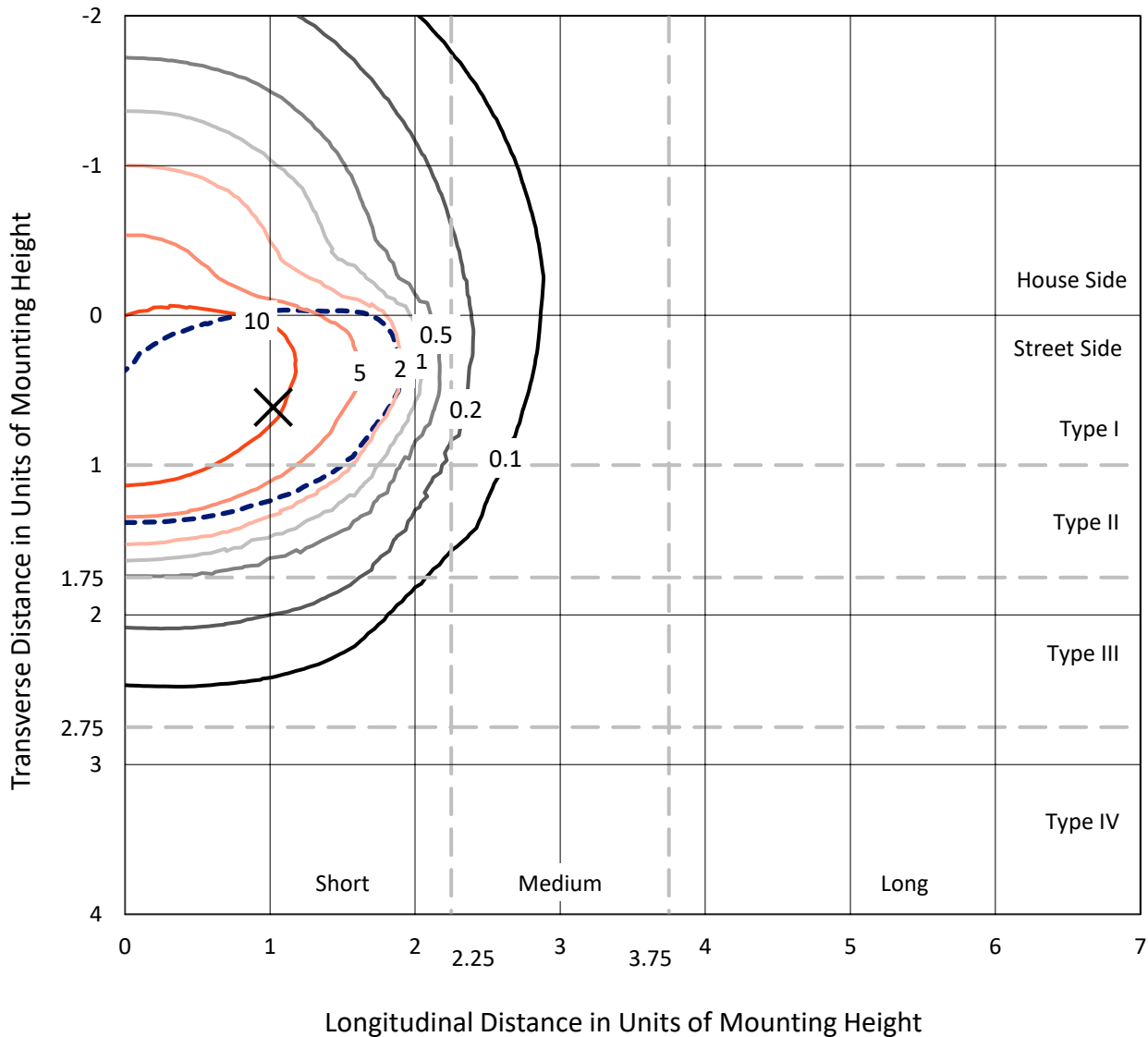
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

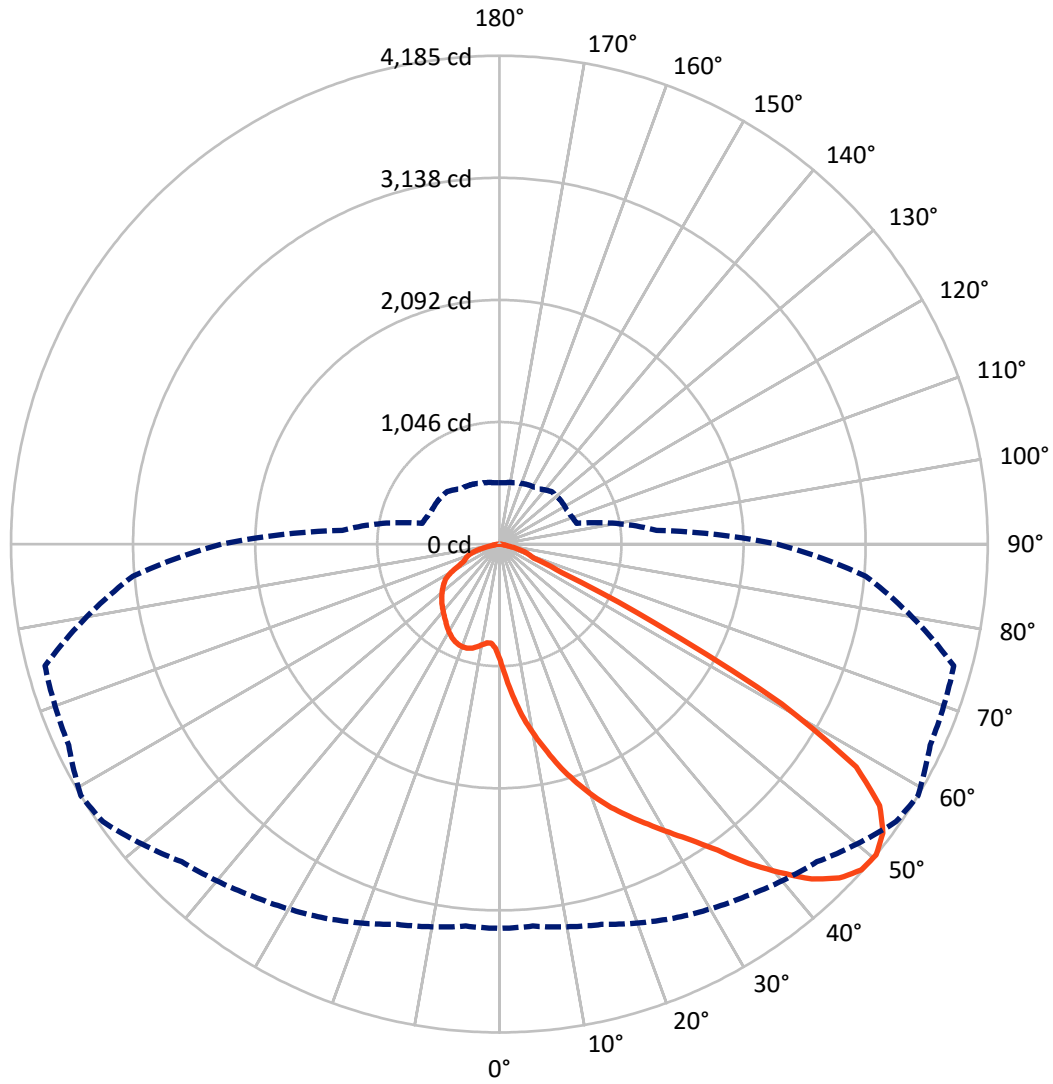
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.7 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	1513.0	0.0	1513.0
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	5064.7	0.0	5064.7
	% Fixture	77.0	0.0	77.0
Total	Lumens	6577.7	0.0	6577.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.8	1.7
10°-20°	405.8	6.2
20°-30°	768.5	11.7
30°-40°	1274.4	19.4
40°-50°	1740.9	26.5
50°-60°	1580.3	24.0
60°-70°	526.3	8.0
70°-80°	153.5	2.3
80°-90°	16.1	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°	6577.7	100.0
0°-180°	6577.7	100.0

Coefficient of Utilization



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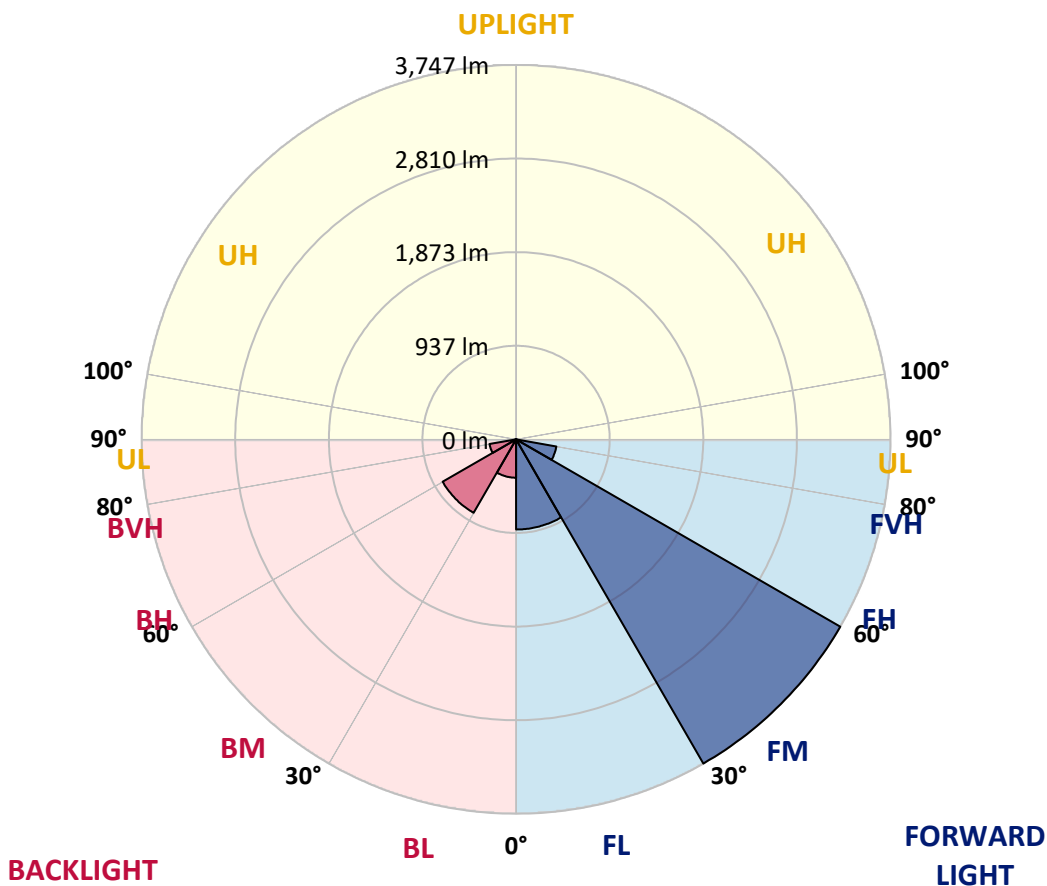
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	902.0	13.7			
FM (30°-60°)	3746.7	57.0			
FH (60°-80°)	409.7	6.2			G0/660
FVH (80°-90°)	6.3	0.1			G0/10
BL (0°-30°)	384.2	5.8	B1/500		
BM (30°-60°)	848.9	12.9	B1/1000		
BH (60°-80°)	270.1	4.1	B1/500		G1/500
BVH (80°-90°)	9.8	0.1			G0/10
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°	996.6	996.6	996.6	996.6	996.6	996.6	996.6	996.6	996.6	996.6	996.6
2.5°	1291.3	1300.9	1285.9	1287.0	1249.5	1232.3	1184.1	1155.7	1136.9	1084.4	1036.8
5°	1551.6	1540.4	1528.6	1521.6	1489.0	1442.9	1382.9	1335.2	1291.3	1188.4	1089.3
7.5°	1711.3	1705.4	1697.4	1693.1	1660.9	1612.7	1552.7	1512.0	1448.2	1308.9	1153.0
10°	1846.9	1839.9	1835.1	1838.3	1812.0	1781.0	1715.6	1669.0	1597.2	1436.5	1230.2
12.5°	1951.9	1955.6	1957.2	1974.4	1963.1	1944.4	1876.9	1827.6	1747.7	1570.9	1320.7
15°	2034.9	2033.9	2052.6	2085.3	2103.5	2091.7	2037.6	1996.4	1898.8	1703.3	1418.2
17.5°	2054.2	2055.3	2084.8	2142.1	2201.6	2230.5	2200.0	2150.7	2054.2	1834.0	1519.5
20°	2069.8	2071.9	2102.4	2167.8	2254.6	2335.5	2340.3	2305.0	2221.9	1975.5	1622.4
22.5°	2167.8	2172.6	2180.7	2221.9	2300.1	2402.5	2458.7	2451.2	2381.6	2123.9	1733.3
25°	2425.5	2411.1	2371.9	2360.2	2390.2	2473.2	2569.1	2583.6	2549.3	2287.3	1852.8
27.5°	2743.8	2728.2	2670.4	2609.3	2544.5	2573.4	2675.7	2719.1	2719.7	2467.3	1972.8
30°	3032.6	3020.2	2973.1	2885.8	2773.8	2732.0	2807.5	2865.9	2900.8	2675.2	2109.4
32.5°	3279.6	3268.3	3204.6	3133.3	3024.0	2939.9	2967.2	3023.5	3104.9	2944.2	2279.2
35°	3487.5	3476.2	3415.1	3343.3	3242.1	3191.7	3182.1	3220.6	3326.2	3224.9	2474.3
37.5°	3656.2	3645.0	3581.2	3513.7	3436.6	3439.8	3454.2	3473.0	3533.5	3525.5	2682.7
40°	3765.5	3753.7	3708.2	3660.0	3611.2	3649.8	3721.6	3699.1	3731.2	3768.2	2874.5
42.5°	3814.3	3799.3	3773.0	3762.3	3747.3	3807.3	3945.6	3923.0	3884.5	3930.0	3017.0
45°	3765.5	3752.7	3752.1	3784.8	3819.6	3896.8	4100.4	4082.2	3984.7	4008.2	3102.2
47.5°	3616.0	3604.8	3635.3	3721.1	3806.8	3919.3	4169.5	4172.7	4055.9	4040.9	3157.4
50°	3293.0	3285.5	3373.9	3536.2	3684.1	3849.1	4147.5	4184.5	4073.1	4030.7	3150.4
52.5°	2636.1	2670.9	2863.3	3134.4	3421.6	3725.9	4066.1	4114.3	3990.6	3963.8	3112.9
55°	1804.5	1820.6	2013.0	2408.9	2864.3	3459.1	3879.1	3953.6	3893.0	3952.5	3152.0
57.5°	934.4	947.3	1098.9	1450.4	1942.8	2733.6	3359.9	3604.3	3696.4	4009.3	3273.7
60°	383.6	394.3	457.0	626.9	980.0	1591.8	2418.0	2780.2	2996.7	3661.6	2907.2
62.5°	278.6	284.0	314.0	374.0	513.3	780.1	1368.4	1501.8	1654.0	2294.8	1845.8
65°	234.7	240.6	264.7	301.1	374.5	478.5	584.5	587.8	647.8	935.0	684.2
67.5°	196.6	202.0	223.4	254.5	302.7	339.7	314.0	314.5	313.4	339.2	327.9
70°	153.2	157.5	179.0	212.2	237.4	218.1	245.4	271.6	260.4	270.6	286.1
72.5°	112.0	116.8	135.6	160.7	154.3	155.4	198.8	225.6	219.1	230.4	244.9
75°	80.9	84.1	93.8	80.4	84.7	102.3	139.8	154.3	160.7	170.4	183.2
77.5°	26.3	26.3	29.5	37.0	46.1	56.8	71.3	77.2	86.8	97.5	106.6
80°	13.4	13.9	16.6	20.4	25.7	32.7	41.8	44.5	49.3	55.2	58.9
82.5°	6.4	7.0	8.0	10.2	13.4	17.1	23.0	25.7	28.9	32.7	35.4
85°	1.6	1.6	2.1	3.2	4.3	6.4	8.6	10.2	12.9	15.5	17.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.5	1.6	2.1	2.7	3.2	4.3
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°	996.6	996.6	996.6	996.6	996.6	996.6	996.6	996.6	996.6	996.6	996.6
2.5°	1015.3	985.3	946.7	914.1	884.1	861.0	841.2	831.5	822.4	816.0	818.2
5°	1043.2	991.7	920.0	870.1	839.6	824.0	813.3	808.0	806.9	802.6	801.0
7.5°	1083.9	1010.5	914.6	864.2	843.9	835.8	829.9	826.7	828.3	824.0	822.4
10°	1134.3	1041.6	928.0	883.5	865.8	859.9	853.5	849.2	847.1	840.7	839.6
12.5°	1197.0	1080.2	952.1	908.2	890.5	880.3	871.7	864.2	859.4	851.4	849.2
15°	1264.5	1123.0	980.5	932.3	911.4	896.4	882.4	871.2	862.6	851.9	850.3
17.5°	1337.9	1168.0	1004.1	948.9	922.1	902.3	881.9	865.3	853.5	839.6	838.0
20°	1414.5	1213.6	1021.8	956.9	922.6	895.8	868.5	846.5	831.5	817.6	816.5
22.5°	1493.8	1255.4	1032.5	954.8	914.1	880.8	848.2	823.5	805.8	789.2	788.1
25°	1573.6	1295.5	1035.1	946.2	896.9	858.3	825.7	796.7	776.9	758.1	756.0
27.5°	1654.5	1329.3	1028.7	929.1	873.9	832.1	799.4	771.0	750.6	731.9	728.7
30°	1740.8	1358.2	1014.8	906.6	847.1	804.2	772.1	750.6	731.4	712.6	709.4
32.5°	1832.9	1383.4	995.0	879.2	816.0	776.4	752.8	733.5	714.2	697.6	694.4
35°	1942.8	1400.0	965.5	843.9	787.1	756.0	739.9	717.4	693.8	675.6	674.0
37.5°	2056.4	1412.9	930.1	810.1	761.9	744.2	730.8	700.3	670.8	648.8	646.2
40°	2166.2	1423.6	886.2	778.5	738.9	735.6	717.4	679.4	628.5	603.8	601.7
42.5°	2268.5	1426.8	840.1	744.7	718.0	716.4	696.0	637.1	597.9	582.4	580.3
45°	2338.7	1424.1	792.4	713.1	697.1	688.5	667.1	606.5	582.4	568.5	565.8
47.5°	2390.7	1410.2	738.9	679.9	673.5	661.7	615.6	587.2	564.7	550.8	548.1
50°	2381.6	1352.3	684.7	647.8	645.1	634.9	578.1	563.1	543.3	528.3	526.1
52.5°	2334.4	1242.5	629.6	612.4	617.8	597.9	551.3	534.2	517.0	499.9	496.1
55°	2346.2	1163.2	587.8	578.1	587.8	542.8	521.3	503.1	487.0	470.4	467.2
57.5°	2397.7	1085.0	543.3	541.1	551.3	500.4	482.7	459.7	436.7	423.3	423.3
60°	2013.5	790.8	465.1	470.4	493.5	466.1	450.6	427.0	401.8	390.1	390.1
62.5°	1190.5	496.1	385.8	379.9	394.3	411.5	420.1	400.8	370.8	355.2	355.8
65°	524.5	361.1	340.2	335.4	331.1	342.9	366.5	368.1	336.5	318.3	318.8
67.5°	323.1	326.8	318.3	314.5	310.8	308.6	306.5	307.5	299.0	282.4	281.8
70°	291.5	301.6	295.8	292.5	287.7	284.0	271.1	250.2	235.7	231.5	236.3
72.5°	250.7	264.7	261.5	259.9	254.0	244.9	227.7	207.4	190.2	179.5	181.6
75°	189.1	200.4	202.0	202.5	196.1	187.5	169.8	152.7	137.7	126.4	129.1
77.5°	108.8	115.2	116.8	118.4	113.6	110.4	98.6	86.3	78.2	66.4	69.7
80°	60.5	63.2	63.2	63.8	61.1	57.3	49.3	42.3	38.6	33.2	33.8
82.5°	36.4	37.5	38.0	38.6	37.0	33.2	27.3	22.5	20.4	17.7	17.1
85°	17.7	18.8	18.8	19.3	16.6	14.5	11.3	8.6	7.5	5.4	5.9
87.5°	4.3	4.8	4.8	4.3	3.8	2.7	1.6	0.5	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)