

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: P631783

Luminaire Tested: GWS-SA2B-735-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631783
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-SA2B-735-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5990.5 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

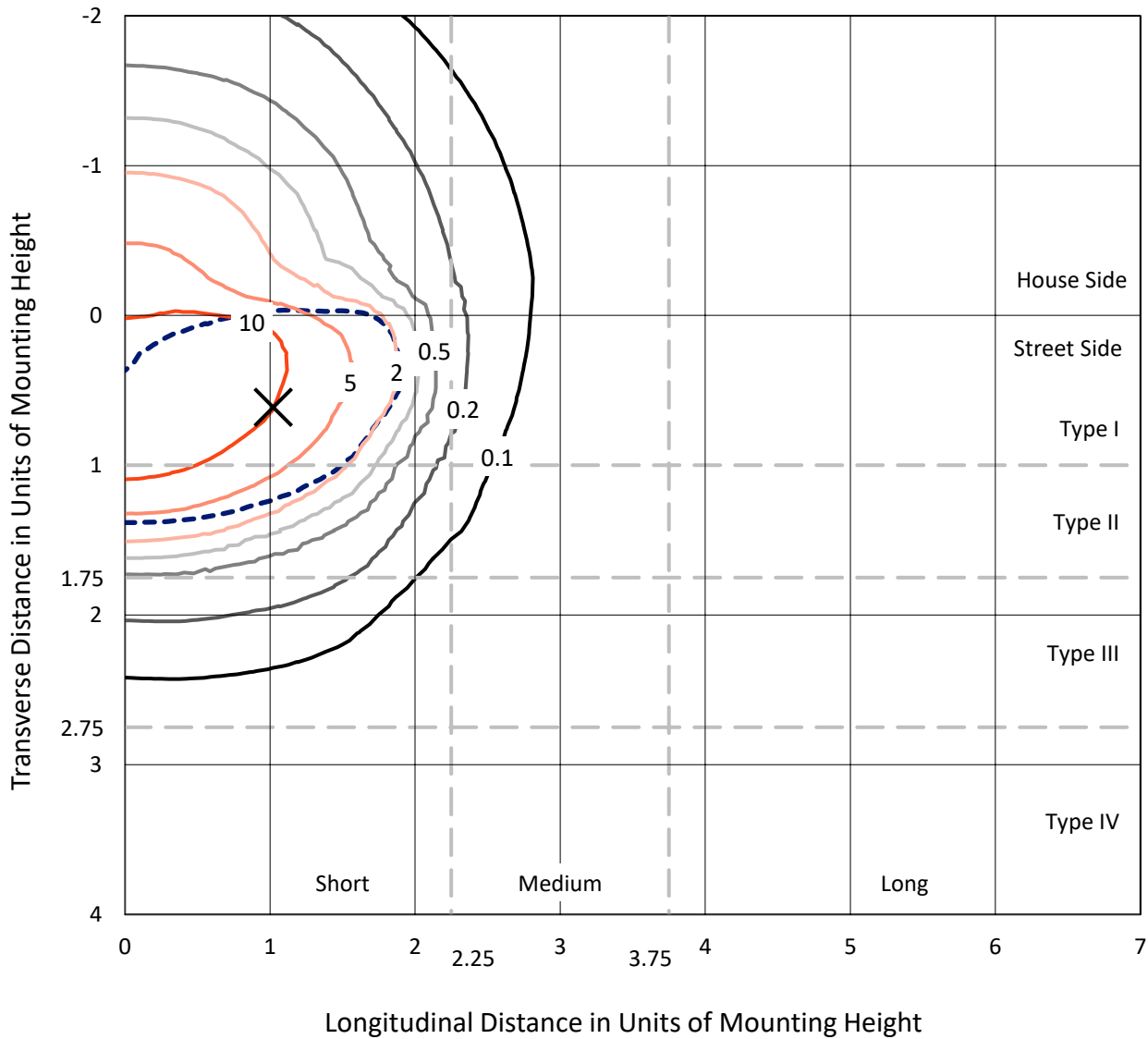
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

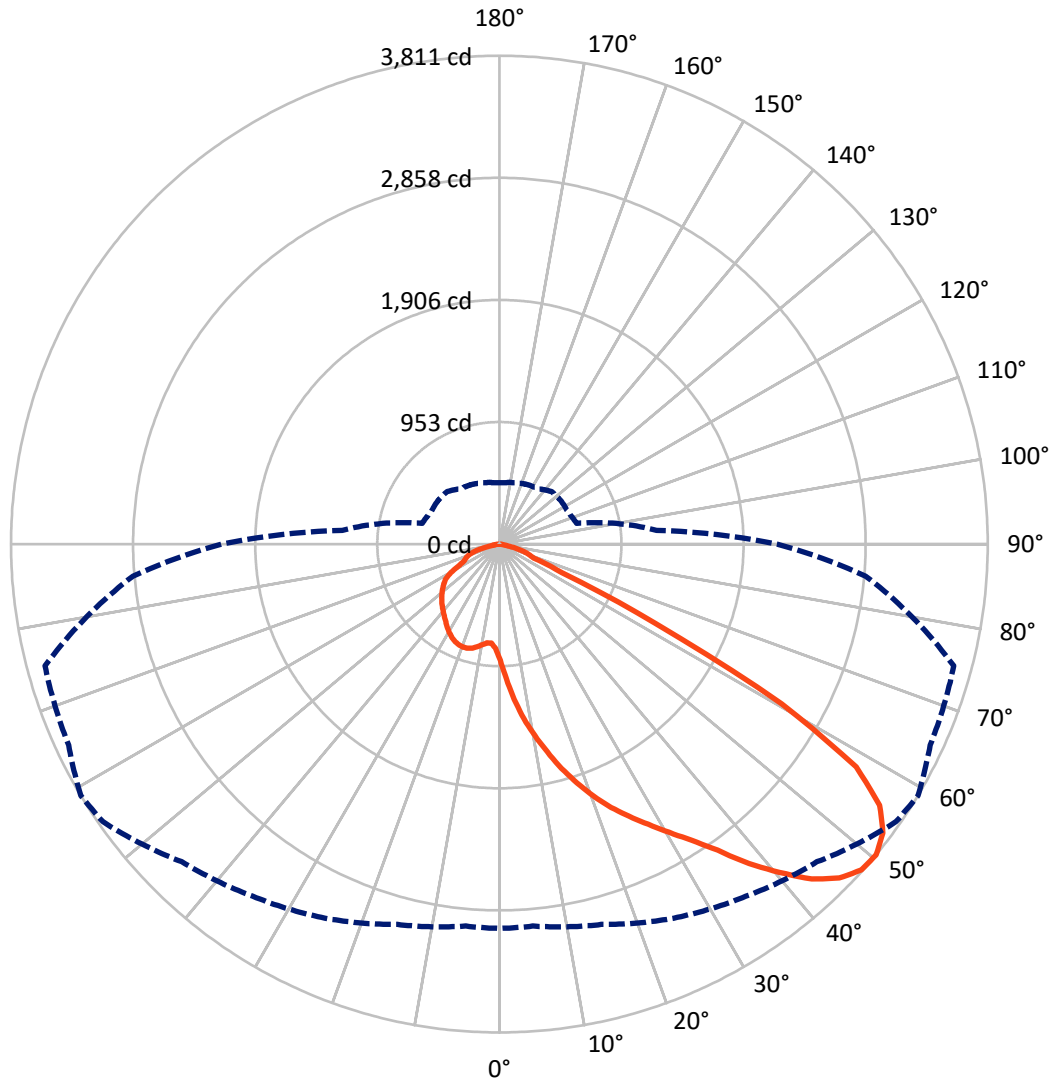
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.9 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	1377.9	0.0	1377.9
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	4612.6	0.0	4612.6
	% Fixture	77.0	0.0	77.0
Total	Lumens	5990.5	0.0	5990.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.8	1.7
10°-20°	369.6	6.2
20°-30°	699.9	11.7
30°-40°	1160.7	19.4
40°-50°	1585.5	26.5
50°-60°	1439.2	24.0
60°-70°	479.3	8.0
70°-80°	139.8	2.3
80°-90°	14.7	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°	5990.5	100.0
0°-180°	5990.5	100.0

Coefficient of Utilization



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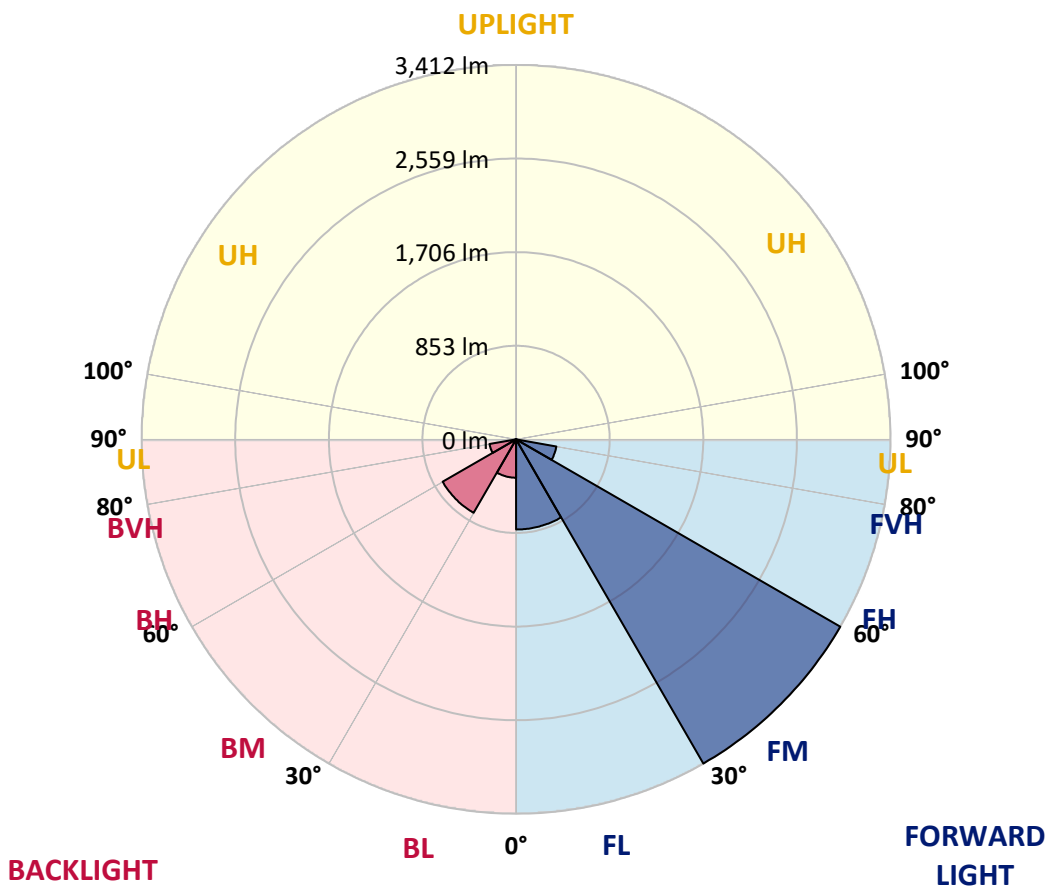
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	821.4	13.7			
FM (30°-60°)	3412.3	57.0			
FH (60°-80°)	373.1	6.2			G0/660
FVH (80°-90°)	5.7	0.1			G0/10
BL (0°-30°)	349.9	5.8	B1/500		
BM (30°-60°)	773.2	12.9	B1/1000		
BH (60°-80°)	245.9	4.1	B1/500		G1/500
BVH (80°-90°)	8.9	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°	907.6	907.6	907.6	907.6	907.6	907.6	907.6	907.6	907.6	907.6	907.6
2.5°	1176.0	1184.8	1171.1	1172.1	1137.9	1122.3	1078.4	1052.5	1035.4	987.6	944.2
5°	1413.1	1402.9	1392.1	1385.8	1356.0	1314.1	1259.4	1216.0	1176.0	1082.3	992.0
7.5°	1558.5	1553.2	1545.9	1541.9	1512.7	1468.8	1414.1	1377.0	1319.0	1192.1	1050.1
10°	1682.0	1675.7	1671.3	1674.2	1650.3	1622.0	1562.4	1520.0	1454.6	1308.2	1120.4
12.5°	1777.6	1781.0	1782.5	1798.1	1787.9	1770.8	1709.3	1664.4	1591.7	1430.7	1202.8
15°	1853.3	1852.3	1869.4	1899.1	1915.7	1905.0	1855.7	1818.1	1729.3	1551.2	1291.6
17.5°	1870.8	1871.8	1898.6	1950.9	2005.0	2031.4	2003.6	1958.7	1870.8	1670.3	1383.9
20°	1885.0	1886.9	1914.7	1974.3	2053.3	2127.0	2131.4	2099.2	2023.6	1799.1	1477.5
22.5°	1974.3	1978.7	1986.0	2023.6	2094.8	2188.0	2239.2	2232.4	2169.0	1934.3	1578.5
25°	2209.0	2195.8	2160.2	2149.5	2176.8	2252.4	2339.8	2352.9	2321.7	2083.1	1687.4
27.5°	2498.8	2484.7	2432.0	2376.4	2317.3	2343.7	2436.9	2476.4	2476.9	2247.0	1796.7
30°	2761.8	2750.6	2707.7	2628.1	2526.2	2488.1	2556.9	2610.1	2641.8	2436.4	1921.1
32.5°	2986.8	2976.5	2918.5	2853.6	2754.0	2677.4	2702.3	2753.6	2827.7	2681.3	2075.8
35°	3176.1	3165.9	3110.2	3044.9	2952.6	2906.8	2898.0	2933.1	3029.2	2937.0	2253.4
37.5°	3329.8	3319.6	3261.5	3200.0	3129.8	3132.7	3145.9	3162.9	3218.1	3210.8	2443.2
40°	3429.4	3418.6	3377.2	3333.2	3288.8	3324.0	3389.4	3368.9	3398.1	3431.8	2617.9
42.5°	3473.8	3460.1	3436.2	3426.4	3412.8	3467.4	3593.3	3572.8	3537.7	3579.2	2747.7
45°	3429.4	3417.7	3417.2	3446.9	3478.7	3548.9	3734.3	3717.8	3628.9	3650.4	2825.3
47.5°	3293.2	3283.0	3310.8	3388.9	3466.9	3569.4	3797.3	3800.2	3693.8	3680.2	2875.5
50°	2999.0	2992.2	3072.7	3220.5	3355.2	3505.5	3777.3	3811.0	3709.5	3670.9	2869.2
52.5°	2400.8	2432.5	2607.7	2854.6	3116.1	3393.3	3703.1	3747.0	3634.3	3609.9	2835.0
55°	1643.4	1658.1	1833.3	2193.9	2608.6	3150.3	3532.8	3600.6	3545.5	3599.7	2870.7
57.5°	851.0	862.7	1000.8	1320.9	1769.3	2489.6	3060.0	3282.5	3366.4	3651.4	2981.4
60°	349.4	359.1	416.2	570.9	892.5	1449.7	2202.2	2532.0	2729.2	3334.7	2647.7
62.5°	253.7	258.6	285.9	340.6	467.5	710.5	1246.2	1367.7	1506.3	2089.9	1681.0
65°	213.7	219.1	241.1	274.2	341.1	435.7	532.4	535.3	589.9	851.5	623.1
67.5°	179.1	184.0	203.5	231.8	275.7	309.4	285.9	286.4	285.5	308.9	298.6
70°	139.6	143.5	163.0	193.2	216.2	198.6	223.5	247.4	237.1	246.4	260.6
72.5°	102.0	106.4	123.5	146.4	140.5	141.5	181.0	205.4	199.6	209.8	223.0
75°	73.7	76.6	85.4	73.2	77.1	93.2	127.4	140.5	146.4	155.2	166.9
77.5°	23.9	23.9	26.8	33.7	42.0	51.7	64.9	70.3	79.0	88.8	97.1
80°	12.2	12.7	15.1	18.5	23.4	29.8	38.1	40.5	44.9	50.3	53.7
82.5°	5.9	6.3	7.3	9.3	12.2	15.6	21.0	23.4	26.3	29.8	32.2
85°	1.5	1.5	2.0	2.9	3.9	5.9	7.8	9.3	11.7	14.2	15.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.5	1.5	2.0	2.4	2.9	3.9
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°	907.6	907.6	907.6	907.6	907.6	907.6	907.6	907.6	907.6	907.6	907.6
2.5°	924.7	897.4	862.2	832.5	805.1	784.1	766.1	757.3	749.0	743.2	745.1
5°	950.1	903.2	837.8	792.4	764.6	750.5	740.7	735.8	734.9	731.0	729.5
7.5°	987.1	920.3	832.9	787.1	768.5	761.2	755.8	752.9	754.4	750.5	749.0
10°	1033.0	948.6	845.1	804.6	788.5	783.2	777.3	773.4	771.5	765.6	764.6
12.5°	1090.1	983.7	867.1	827.1	811.0	801.7	793.9	787.1	782.7	775.4	773.4
15°	1151.6	1022.8	893.0	849.0	830.0	816.4	803.7	793.4	785.6	775.9	774.4
17.5°	1218.4	1063.7	914.4	864.2	839.8	821.7	803.2	788.1	777.3	764.6	763.2
20°	1288.2	1105.2	930.5	871.5	840.3	815.9	791.0	771.0	757.3	744.6	743.6
22.5°	1360.4	1143.3	940.3	869.5	832.5	802.2	772.4	750.0	733.9	718.8	717.8
25°	1433.1	1179.9	942.7	861.7	816.8	781.7	751.9	725.6	707.5	690.5	688.5
27.5°	1506.8	1210.6	936.9	846.1	795.9	757.8	728.0	702.2	683.6	666.6	663.6
30°	1585.4	1237.0	924.2	825.6	771.5	732.4	703.1	683.6	666.1	649.0	646.1
32.5°	1669.3	1259.9	906.1	800.7	743.2	707.1	685.6	668.0	650.4	635.3	632.4
35°	1769.3	1275.0	879.3	768.5	716.8	688.5	673.9	653.4	631.9	615.3	613.9
37.5°	1872.8	1286.7	847.1	737.8	693.9	677.8	665.6	637.8	610.9	590.9	588.5
40°	1972.8	1296.5	807.1	709.0	672.9	670.0	653.4	618.7	572.4	549.9	548.0
42.5°	2066.0	1299.4	765.1	678.3	653.9	652.4	633.9	580.2	544.6	530.4	528.5
45°	2129.9	1297.0	721.7	649.5	634.8	627.0	607.5	552.4	530.4	517.7	515.3
47.5°	2177.3	1284.3	672.9	619.2	613.4	602.6	560.7	534.8	514.3	501.6	499.2
50°	2169.0	1231.6	623.6	589.9	587.5	578.2	526.5	512.8	494.8	481.1	479.2
52.5°	2126.0	1131.6	573.4	557.7	562.6	544.6	502.1	486.5	470.9	455.3	451.8
55°	2136.8	1059.4	535.3	526.5	535.3	494.3	474.8	458.2	443.6	428.4	425.5
57.5°	2183.6	988.1	494.8	492.8	502.1	455.8	439.7	418.7	397.7	385.5	385.5
60°	1833.7	720.2	423.5	428.4	449.4	424.5	410.4	388.9	366.0	355.2	355.2
62.5°	1084.2	451.8	351.3	346.0	359.1	374.8	382.6	365.0	337.7	323.5	324.0
65°	477.7	328.9	309.9	305.5	301.6	312.3	333.8	335.2	306.4	289.8	290.3
67.5°	294.2	297.7	289.8	286.4	283.0	281.1	279.1	280.1	272.3	257.2	256.7
70°	265.4	274.7	269.4	266.4	262.0	258.6	246.9	227.9	214.7	210.8	215.2
72.5°	228.4	241.1	238.1	236.7	231.3	223.0	207.4	188.8	173.2	163.5	165.4
75°	172.2	182.5	184.0	184.4	178.6	170.8	154.7	139.1	125.4	115.2	117.6
77.5°	99.1	104.9	106.4	107.8	103.4	100.5	89.8	78.6	71.2	60.5	63.4
80°	55.1	57.6	57.6	58.1	55.6	52.2	44.9	38.5	35.1	30.3	30.7
82.5°	33.2	34.2	34.6	35.1	33.7	30.3	24.9	20.5	18.5	16.1	15.6
85°	16.1	17.1	17.1	17.6	15.1	13.2	10.2	7.8	6.8	4.9	5.4
87.5°	3.9	4.4	4.4	3.9	3.4	2.4	1.5	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)