

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: P630298

Luminaire Tested: GWS-SA1D-735-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630298
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-SA1D-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: 5263.6 lumens
Efficiency: N/A
Efficacy: 118.8 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): 44.3
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

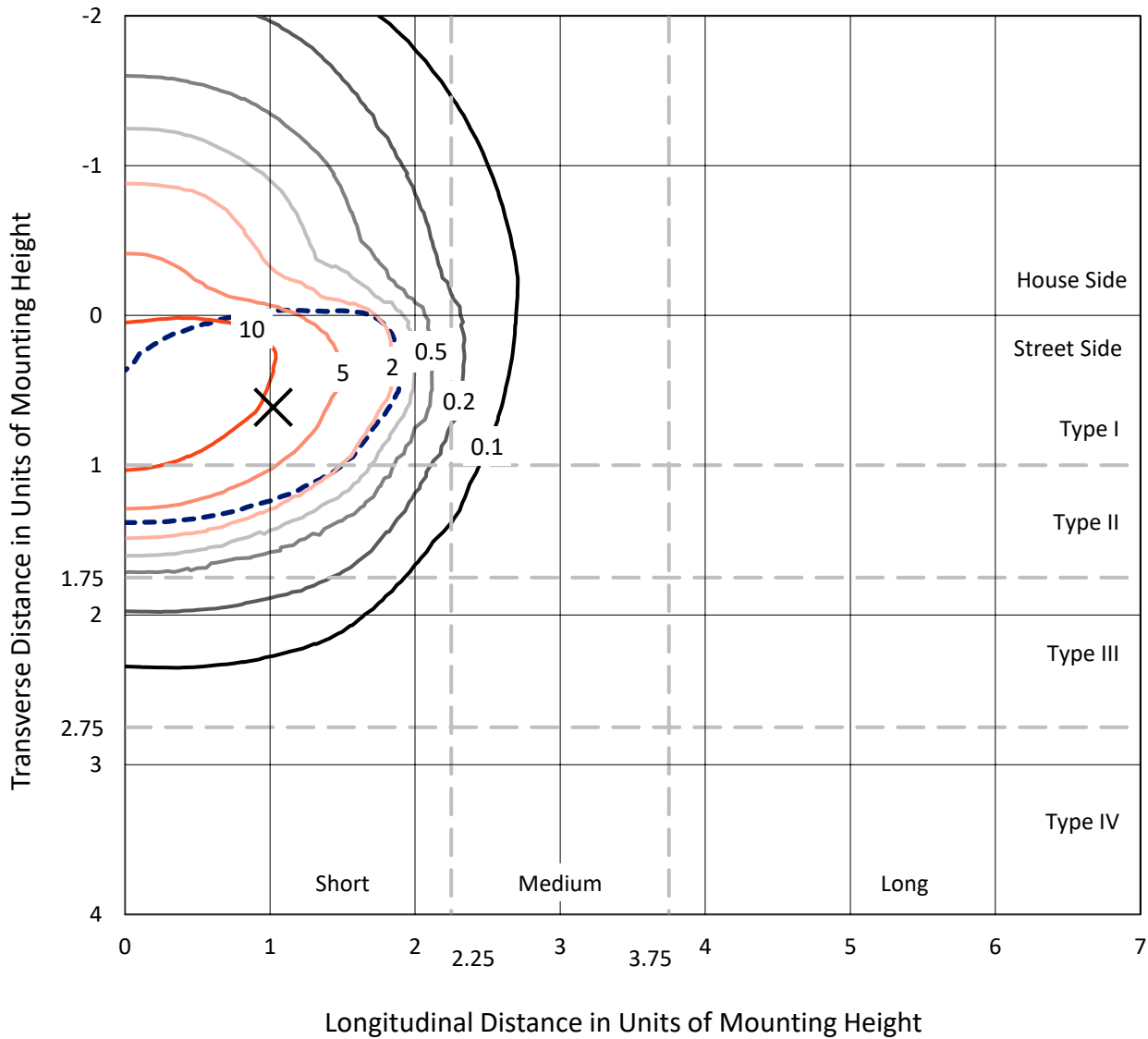


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Iso-Footcandle Lines of Horizontal Illumination

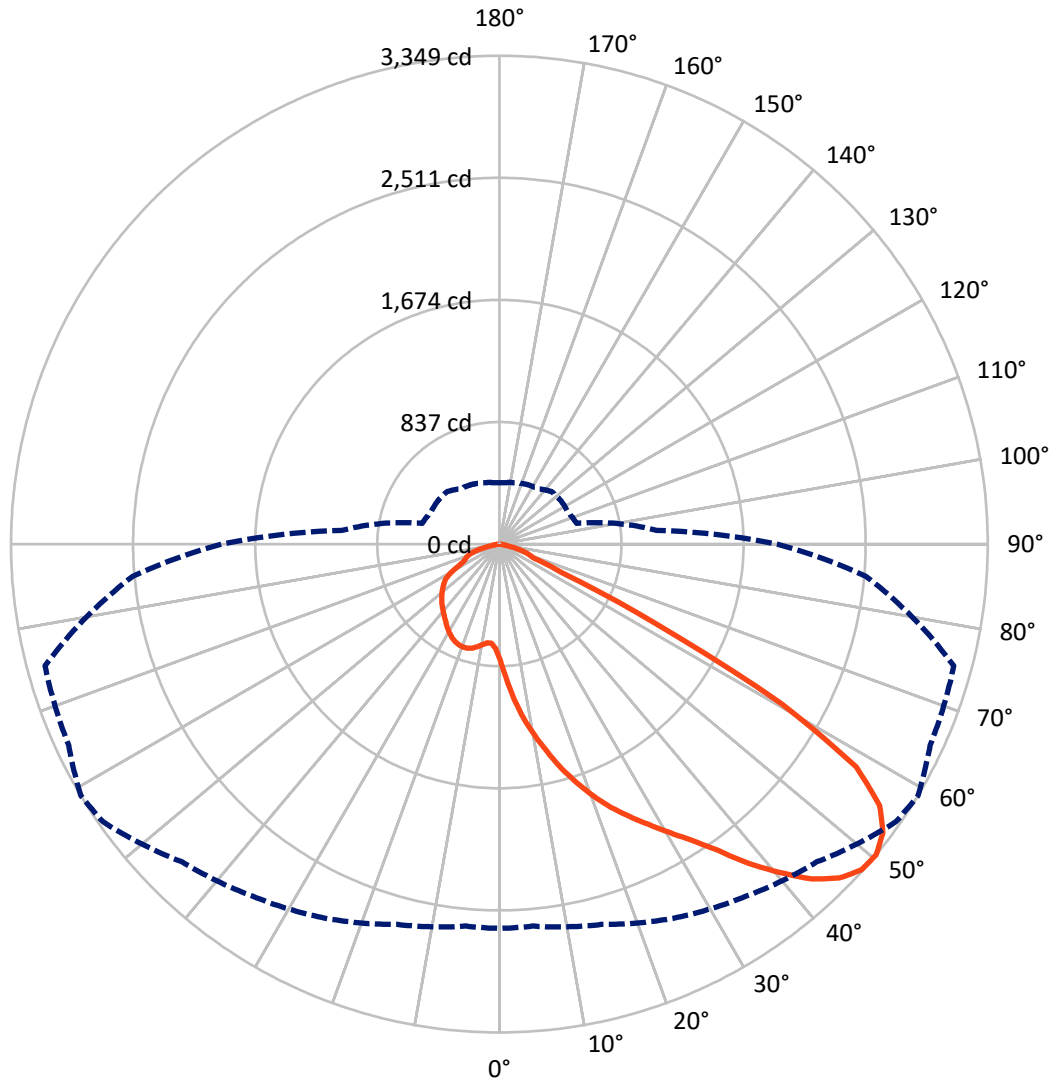
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.8 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	1210.7	0.0	1210.7
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	4052.9	0.0	4052.9
	% Fixture	77.0	0.0	77.0
Total	Lumens	5263.6	0.0	5263.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.5	1.7
10°-20°	324.8	6.2
20°-30°	615.0	11.7
30°-40°	1019.8	19.4
40°-50°	1393.1	26.5
50°-60°	1264.6	24.0
60°-70°	421.1	8.0
70°-80°	122.8	2.3
80°-90°	12.9	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°	5263.6	100.0
0°-180°	5263.6	100.0

Coefficient of Utilization



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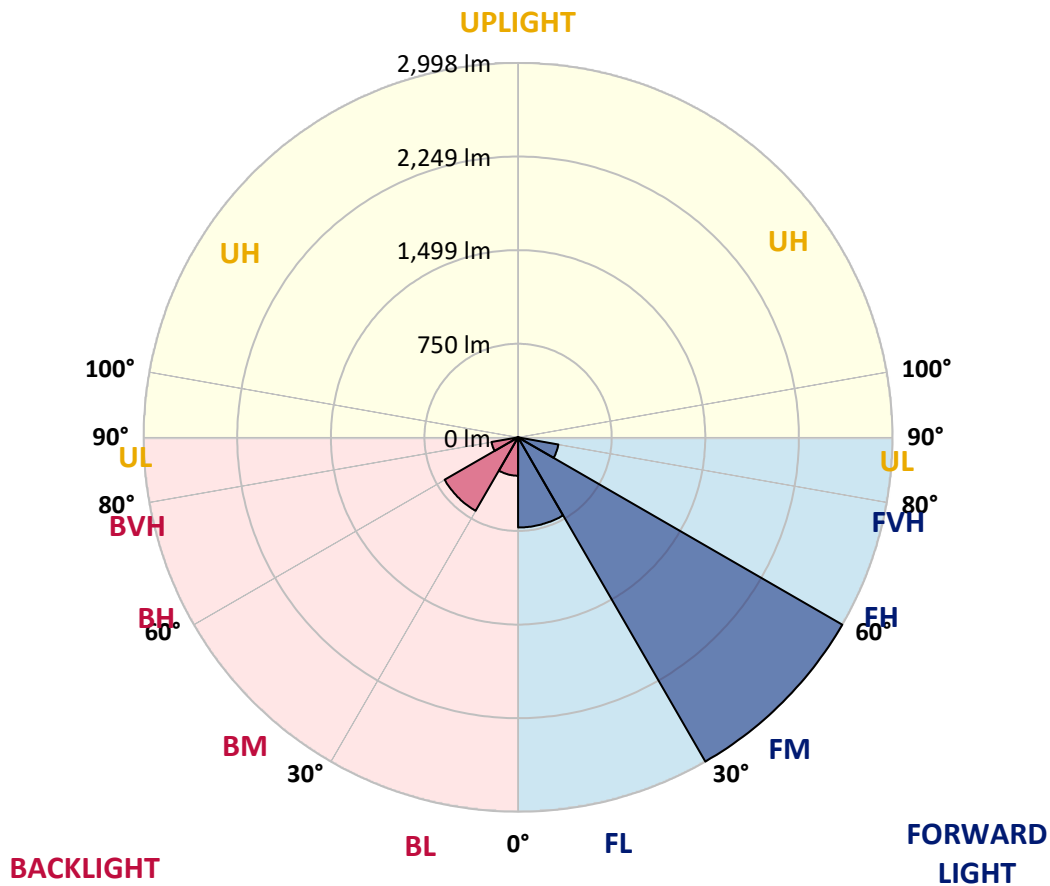
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	721.8	13.7			
FM (30°-60°)	2998.2	57.0			
FH (60°-80°)	327.8	6.2			G0/660
FVH (80°-90°)	5.0	0.1			G0/10
BL (0°-30°)	307.4	5.8	B1/500		
BM (30°-60°)	679.3	12.9	B1/1000		
BH (60°-80°)	216.1	4.1	B1/500		G1/500
BVH (80°-90°)	7.9	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°	797.5	797.5	797.5	797.5	797.5	797.5	797.5	797.5	797.5	797.5	797.5
2.5°	1033.3	1041.0	1029.0	1029.9	999.8	986.1	947.5	924.8	909.8	867.8	829.6
5°	1241.7	1232.7	1223.2	1217.6	1191.5	1154.6	1106.6	1068.4	1033.3	951.0	871.6
7.5°	1369.4	1364.7	1358.3	1354.8	1329.1	1290.5	1242.5	1209.9	1158.9	1047.4	922.7
10°	1477.9	1472.3	1468.5	1471.0	1450.0	1425.2	1372.9	1335.6	1278.1	1149.5	984.4
12.5°	1561.9	1564.9	1566.2	1579.9	1570.9	1555.9	1501.9	1462.5	1398.6	1257.1	1056.9
15°	1628.4	1627.5	1642.5	1668.7	1683.3	1673.8	1630.5	1597.5	1519.5	1363.0	1134.9
17.5°	1643.8	1644.7	1668.3	1714.1	1761.7	1784.9	1760.4	1721.0	1643.8	1467.6	1215.9
20°	1656.3	1658.0	1682.4	1734.7	1804.2	1868.9	1872.8	1844.5	1778.0	1580.8	1298.3
22.5°	1734.7	1738.6	1745.0	1778.0	1840.6	1922.5	1967.5	1961.5	1905.8	1699.6	1387.0
25°	1940.9	1929.4	1898.1	1888.6	1912.6	1979.1	2055.9	2067.4	2040.0	1830.3	1482.6
27.5°	2195.6	2183.2	2136.9	2088.0	2036.1	2059.3	2141.2	2175.9	2176.3	1974.4	1578.7
30°	2426.7	2416.9	2379.1	2309.2	2219.6	2186.2	2246.6	2293.4	2321.2	2140.7	1688.0
32.5°	2624.4	2615.4	2564.3	2507.3	2419.9	2352.5	2374.4	2419.4	2484.6	2356.0	1823.9
35°	2790.7	2781.7	2732.8	2675.4	2594.4	2554.1	2546.3	2577.2	2661.7	2580.6	1980.0
37.5°	2925.8	2916.8	2865.8	2811.7	2750.0	2752.6	2764.1	2779.1	2827.6	2821.2	2146.7
40°	3013.2	3003.8	2967.4	2928.8	2889.8	2920.6	2978.1	2960.1	2985.8	3015.4	2300.2
42.5°	3052.3	3040.3	3019.2	3010.7	2998.7	3046.7	3157.3	3139.3	3108.4	3144.9	2414.3
45°	3013.2	3003.0	3002.5	3028.7	3056.5	3118.3	3281.2	3266.6	3188.6	3207.5	2482.5
47.5°	2893.6	2884.6	2909.1	2977.7	3046.3	3136.3	3336.5	3339.1	3245.6	3233.6	2526.6
50°	2635.1	2629.1	2699.8	2829.7	2948.1	3080.1	3318.9	3348.5	3259.3	3225.5	2521.0
52.5°	2109.4	2137.3	2291.2	2508.2	2738.0	2981.5	3253.8	3292.4	3193.3	3171.9	2491.0
55°	1444.0	1456.9	1610.8	1927.7	2292.1	2768.0	3104.1	3163.7	3115.3	3162.9	2522.3
57.5°	747.7	758.0	879.4	1160.6	1554.6	2187.5	2688.7	2884.2	2957.9	3208.3	2619.7
60°	307.0	315.6	365.7	501.6	784.2	1273.8	1934.9	2224.8	2398.0	2930.1	2326.4
62.5°	222.9	227.2	251.2	299.3	410.7	624.3	1095.0	1201.8	1323.5	1836.3	1477.0
65°	187.8	192.5	211.8	241.0	299.7	382.9	467.8	470.3	518.4	748.2	547.5
67.5°	157.4	161.6	178.8	203.7	242.2	271.8	251.2	251.7	250.8	271.4	262.4
70°	122.6	126.1	143.2	169.8	189.9	174.5	196.4	217.4	208.4	216.5	229.0
72.5°	89.6	93.5	108.5	128.6	123.5	124.3	159.1	180.5	175.4	184.4	195.9
75°	64.7	67.3	75.0	64.3	67.7	81.9	111.9	123.5	128.6	136.3	146.6
77.5°	21.0	21.0	23.6	29.6	36.9	45.4	57.0	61.7	69.5	78.0	85.3
80°	10.7	11.1	13.3	16.3	20.6	26.2	33.4	35.6	39.4	44.2	47.2
82.5°	5.1	5.6	6.4	8.1	10.7	13.7	18.4	20.6	23.2	26.2	28.3
85°	1.3	1.3	1.7	2.6	3.4	5.1	6.9	8.1	10.3	12.4	13.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.4	1.3	1.7	2.1	2.6	3.4
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°	797.5	797.5	797.5	797.5	797.5	797.5	797.5	797.5	797.5	797.5	797.5
2.5°	812.5	788.5	757.6	731.4	707.4	689.0	673.1	665.4	658.1	653.0	654.7
5°	834.8	793.6	736.2	696.3	671.8	659.4	650.8	646.6	645.7	642.3	641.0
7.5°	867.4	808.6	731.9	691.6	675.3	668.8	664.1	661.6	662.8	659.4	658.1
10°	907.7	833.5	742.6	707.0	692.9	688.1	683.0	679.6	677.9	672.7	671.8
12.5°	957.8	864.4	761.9	726.7	712.6	704.4	697.6	691.6	687.7	681.3	679.6
15°	1011.8	898.7	784.6	746.0	729.3	717.3	706.1	697.1	690.3	681.7	680.4
17.5°	1070.6	934.7	803.5	759.3	737.9	722.0	705.7	692.4	683.0	671.8	670.6
20°	1131.9	971.1	817.6	765.7	738.3	716.9	695.0	677.4	665.4	654.3	653.4
22.5°	1195.4	1004.6	826.2	764.0	731.4	704.9	678.7	659.0	644.8	631.5	630.7
25°	1259.2	1036.7	828.3	757.2	717.7	686.9	660.7	637.5	621.7	606.7	605.0
27.5°	1324.0	1063.7	823.2	743.5	699.3	665.8	639.7	617.0	600.7	585.7	583.1
30°	1393.0	1086.9	812.1	725.4	677.9	643.6	617.8	600.7	585.2	570.2	567.7
32.5°	1466.7	1107.0	796.2	703.6	653.0	621.3	602.4	587.0	571.5	558.2	555.7
35°	1554.6	1120.3	772.6	675.3	629.8	605.0	592.1	574.1	555.2	540.7	539.4
37.5°	1645.5	1130.6	744.3	648.3	609.7	595.5	584.8	560.4	536.8	519.2	517.1
40°	1733.4	1139.2	709.2	623.0	591.2	588.7	574.1	543.7	502.9	483.2	481.5
42.5°	1815.3	1141.8	672.3	596.0	574.5	573.2	556.9	509.8	478.5	466.0	464.3
45°	1871.5	1139.6	634.1	570.7	557.8	550.9	533.8	485.3	466.0	454.9	452.8
47.5°	1913.1	1128.5	591.2	544.1	538.9	529.5	492.6	469.9	451.9	440.8	438.6
50°	1905.8	1082.2	547.9	518.4	516.2	508.1	462.6	450.6	434.8	422.7	421.0
52.5°	1868.1	994.3	503.8	490.1	494.3	478.5	441.2	427.5	413.7	400.0	397.0
55°	1877.5	930.8	470.3	462.6	470.3	434.3	417.2	402.6	389.7	376.4	373.9
57.5°	1918.7	868.2	434.8	433.0	441.2	400.5	386.3	367.9	349.4	338.7	338.7
60°	1611.2	632.8	372.2	376.4	394.9	373.0	360.6	341.7	321.6	312.1	312.1
62.5°	952.7	397.0	308.7	304.0	315.6	329.3	336.1	320.7	296.7	284.3	284.7
65°	419.7	289.0	272.3	268.4	265.0	274.4	293.3	294.6	269.3	254.7	255.1
67.5°	258.5	261.5	254.7	251.7	248.7	247.0	245.2	246.1	239.2	226.0	225.5
70°	233.2	241.4	236.7	234.1	230.2	227.2	216.9	200.2	188.6	185.2	189.1
72.5°	200.7	211.8	209.2	207.9	203.2	195.9	182.2	165.9	152.2	143.6	145.3
75°	151.3	160.4	161.6	162.1	156.9	150.1	135.9	122.2	110.2	101.2	103.3
77.5°	87.0	92.2	93.5	94.8	90.9	88.3	78.9	69.0	62.6	53.2	55.7
80°	48.4	50.6	50.6	51.0	48.9	45.9	39.4	33.9	30.9	26.6	27.0
82.5°	29.2	30.0	30.4	30.9	29.6	26.6	21.9	18.0	16.3	14.1	13.7
85°	14.1	15.0	15.0	15.4	13.3	11.6	9.0	6.9	6.0	4.3	4.7
87.5°	3.4	3.9	3.9	3.4	3.0	2.1	1.3	0.4	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)