

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: P629859

Luminaire Tested: GWS-SA1C-740-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P629859  
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-SA1C-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**

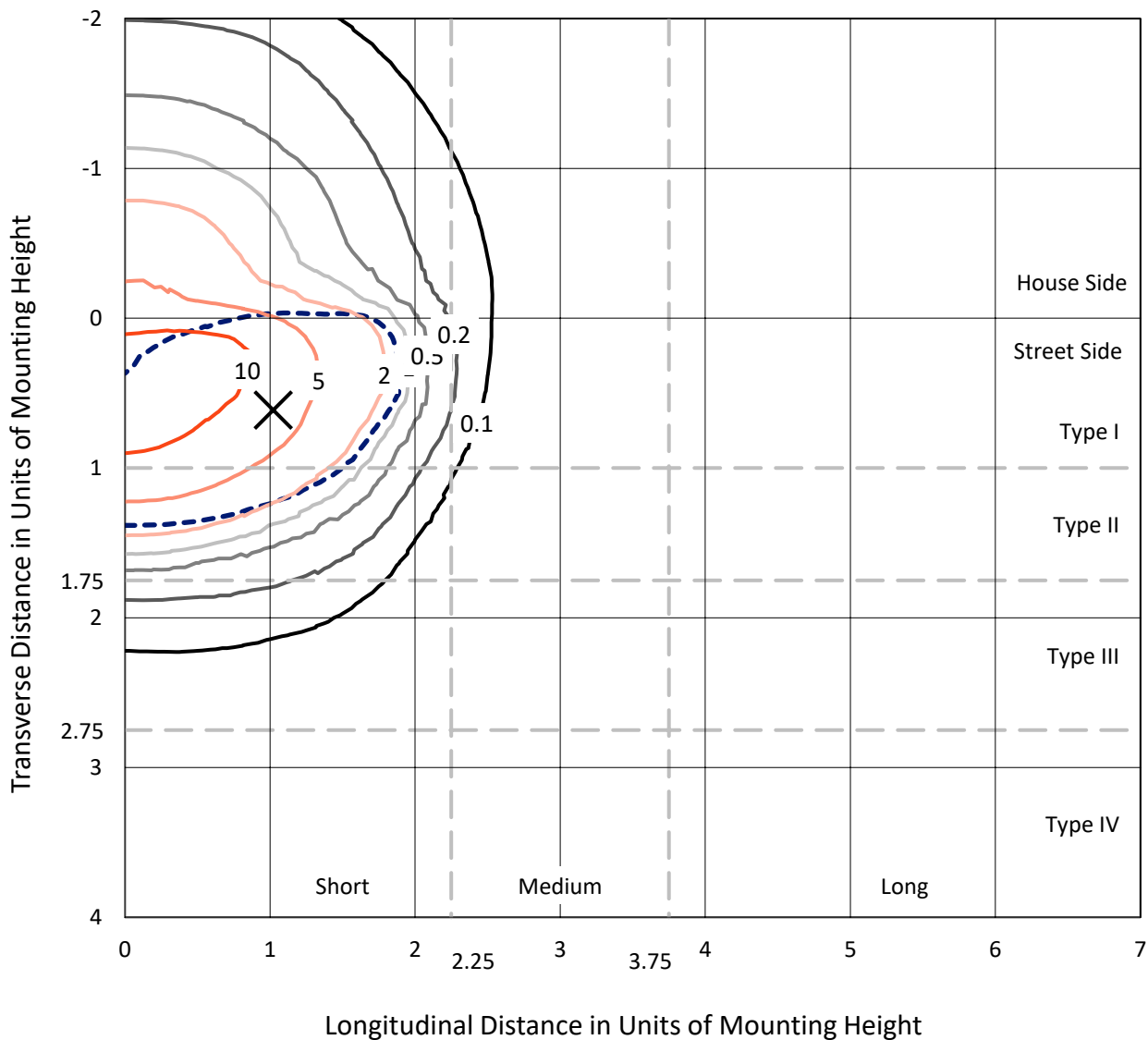
Lumens per Lamp: N/A  
Luminaire Lumens: 4230.3 lumens  
Efficiency: N/A  
Efficacy: 124.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 34.1  
Input Voltage (V): 120  
Input Current (Ain): 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

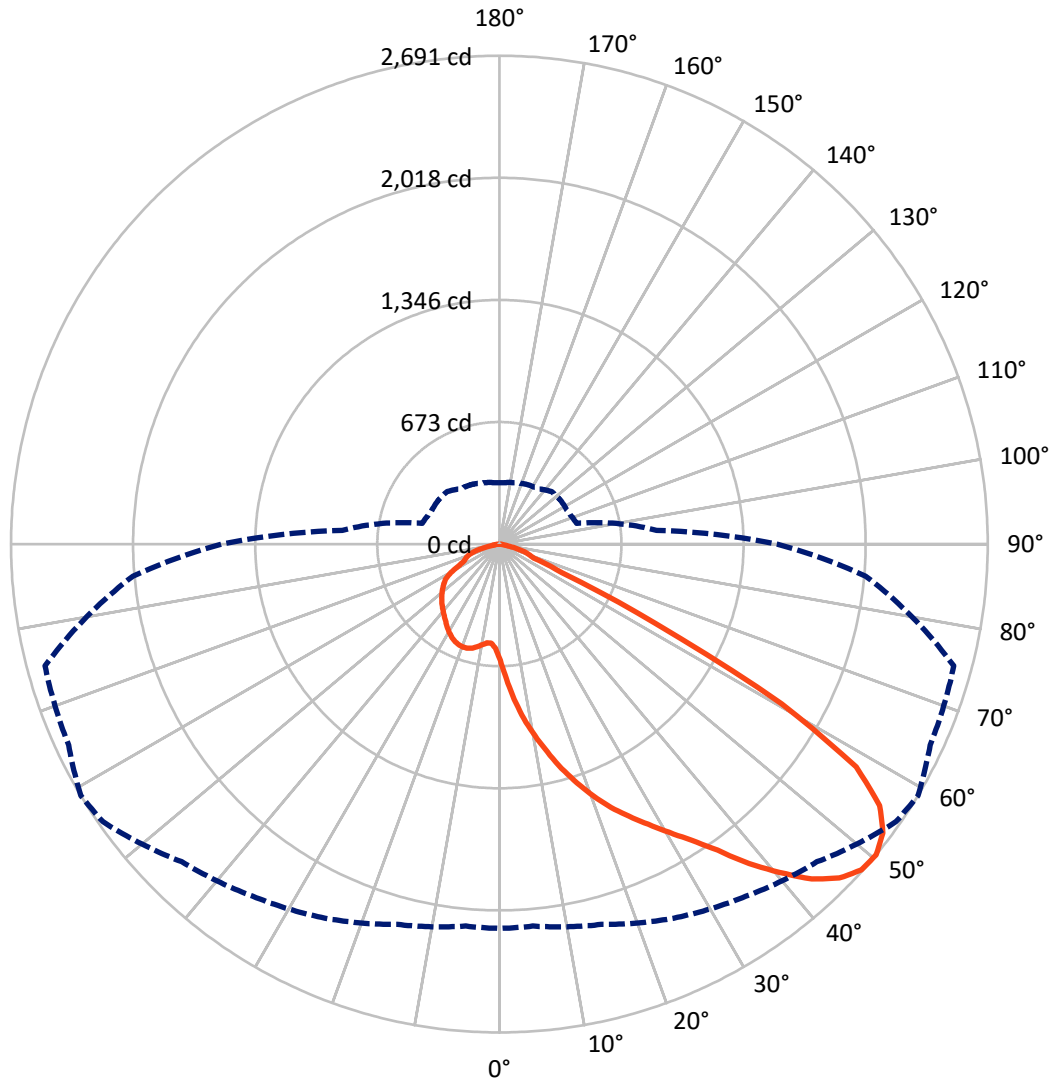
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.7 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
<b>House Side</b>	Lumens	973.1	0.0	973.1
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	3257.2	0.0	3257.2
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	4230.3	0.0	4230.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.9	1.7
10°-20°	261.0	6.2
20°-30°	494.2	11.7
30°-40°	819.6	19.4
40°-50°	1119.6	26.5
50°-60°	1016.3	24.0
60°-70°	338.5	8.0
70°-80°	98.7	2.3
80°-90°	10.4	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°	4230.3	100.0
0°-180°	4230.3	100.0

**Coefficient of Utilization**



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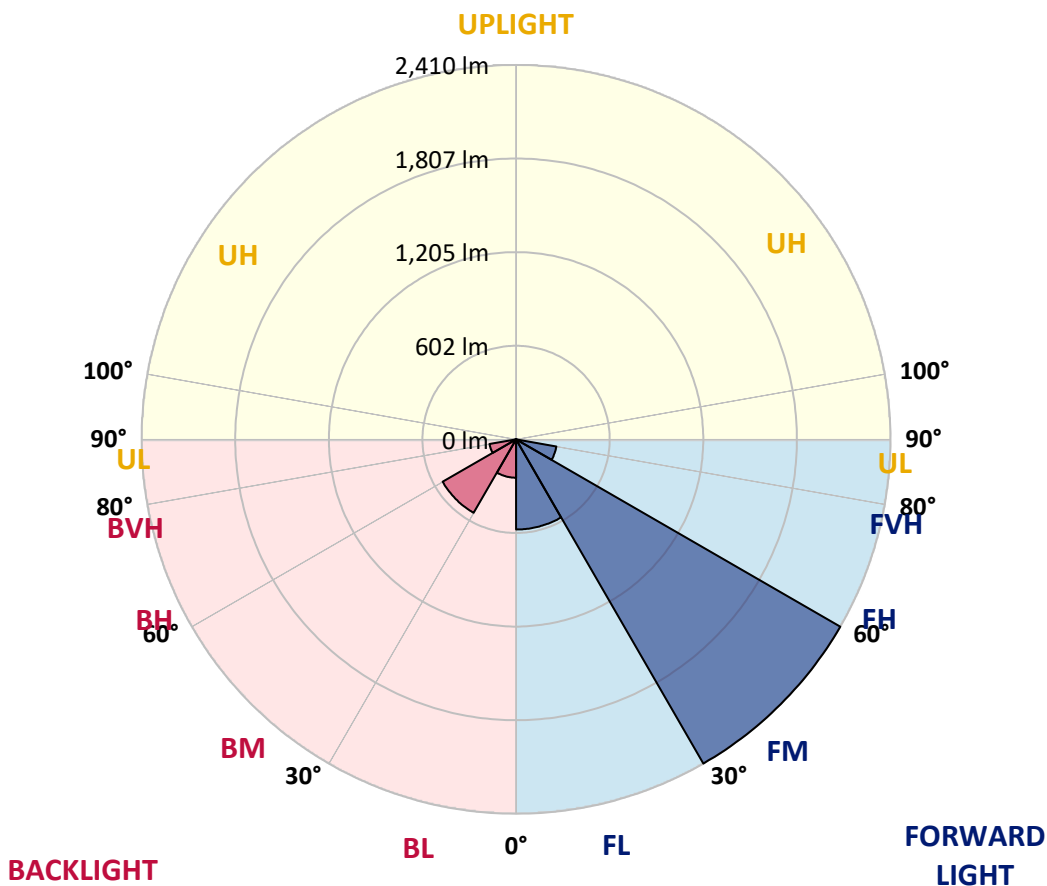
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	580.1	13.7			
FM (30°-60°)	2409.6	57.0			
FH (60°-80°)	263.5	6.2			G0/660
FVH (80°-90°)	4.1	0.1			G0/10
BL (0°-30°)	247.1	5.8	B1/500		
BM (30°-60°)	546.0	12.9	B1/1000		
BH (60°-80°)	173.7	4.1	B1/500		G1/500
BVH (80°-90°)	6.3	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°	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9
2.5°	830.4	836.6	827.0	827.7	803.6	792.5	761.5	743.3	731.2	697.4	666.8
5°	997.9	990.7	983.1	978.6	957.6	928.0	889.4	858.7	830.4	764.3	700.5
7.5°	1100.6	1096.8	1091.6	1088.9	1068.2	1037.2	998.6	972.4	931.4	841.8	741.5
10°	1187.8	1183.3	1180.2	1182.3	1165.4	1145.4	1103.3	1073.4	1027.2	923.8	791.2
12.5°	1255.3	1257.7	1258.8	1269.8	1262.5	1250.5	1207.1	1175.4	1124.0	1010.3	849.4
15°	1308.7	1308.0	1320.1	1341.1	1352.8	1345.2	1310.4	1283.9	1221.2	1095.4	912.1
17.5°	1321.1	1321.8	1340.8	1377.6	1415.9	1434.5	1414.8	1383.1	1321.1	1179.5	977.2
20°	1331.1	1332.5	1352.1	1394.2	1450.0	1502.0	1505.1	1482.4	1429.0	1270.5	1043.4
22.5°	1394.2	1397.3	1402.4	1429.0	1479.3	1545.1	1581.3	1576.5	1531.7	1365.9	1114.7
25°	1559.9	1550.6	1525.5	1517.9	1537.2	1590.6	1652.3	1661.6	1639.5	1471.0	1191.6
27.5°	1764.6	1754.6	1717.4	1678.1	1636.4	1655.0	1720.8	1748.7	1749.1	1586.8	1268.7
30°	1950.3	1942.4	1912.1	1855.9	1783.9	1757.0	1805.6	1843.2	1865.6	1720.5	1356.6
32.5°	2109.2	2101.9	2060.9	2015.1	1944.8	1890.7	1908.3	1944.5	1996.8	1893.5	1465.8
35°	2242.9	2235.6	2196.4	2150.2	2085.1	2052.7	2046.5	2071.3	2139.2	2074.0	1591.3
37.5°	2351.4	2344.2	2303.2	2259.8	2210.1	2212.2	2221.5	2233.6	2272.5	2267.3	1725.3
40°	2421.7	2414.1	2384.8	2353.8	2322.5	2347.3	2393.5	2379.0	2399.7	2423.4	1848.7
42.5°	2453.1	2443.4	2426.5	2419.6	2410.0	2448.6	2537.5	2523.0	2498.2	2527.5	1940.3
45°	2421.7	2413.4	2413.1	2434.1	2456.5	2506.1	2637.1	2625.4	2562.6	2577.8	1995.1
47.5°	2325.6	2318.3	2338.0	2393.1	2448.2	2520.6	2681.5	2683.6	2608.5	2598.8	2030.6
50°	2117.8	2113.0	2169.8	2274.2	2369.3	2475.5	2667.4	2691.2	2619.5	2592.3	2026.1
52.5°	1695.3	1717.7	1841.4	2015.8	2200.5	2396.2	2615.0	2646.0	2566.4	2549.2	2002.0
55°	1160.5	1170.9	1294.6	1549.2	1842.1	2224.6	2494.8	2542.7	2503.7	2542.0	2027.2
57.5°	600.9	609.2	706.7	932.8	1249.5	1758.1	2160.9	2318.0	2377.3	2578.5	2105.4
60°	246.7	253.6	293.9	403.2	630.2	1023.7	1555.1	1788.0	1927.2	2354.9	1869.7
62.5°	179.2	182.6	201.9	240.5	330.1	501.7	880.1	965.9	1063.7	1475.8	1187.1
65°	150.9	154.7	170.2	193.7	240.9	307.7	375.9	378.0	416.6	601.3	440.0
67.5°	126.5	129.9	143.7	163.7	194.7	218.5	201.9	202.3	201.6	218.1	210.9
70°	98.6	101.3	115.1	136.5	152.6	140.2	157.8	174.7	167.5	174.0	184.0
72.5°	72.0	75.1	87.2	103.4	99.2	99.9	127.8	145.1	140.9	148.2	157.5
75°	52.0	54.1	60.3	51.7	54.4	65.8	89.9	99.2	103.4	109.6	117.8
77.5°	16.9	16.9	19.0	23.8	29.6	36.5	45.8	49.6	55.8	62.7	68.6
80°	8.6	9.0	10.7	13.1	16.5	21.0	26.9	28.6	31.7	35.5	37.9
82.5°	4.1	4.5	5.2	6.5	8.6	11.0	14.8	16.5	18.6	21.0	22.7
85°	1.0	1.0	1.4	2.1	2.8	4.1	5.5	6.5	8.3	10.0	11.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.3	1.0	1.4	1.7	2.1	2.8
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°	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9
2.5°	653.0	633.7	608.9	587.9	568.6	553.7	541.0	534.8	528.9	524.8	526.2
5°	670.9	637.8	591.6	559.6	540.0	530.0	523.1	519.6	518.9	516.2	515.1
7.5°	697.1	649.9	588.2	555.8	542.7	537.5	533.8	531.7	532.7	530.0	528.9
10°	729.5	669.9	596.8	568.2	556.8	553.1	548.9	546.2	544.8	540.6	540.0
12.5°	769.8	694.7	612.3	584.1	572.7	566.1	560.6	555.8	552.7	547.5	546.2
15°	813.2	722.2	630.6	599.6	586.1	576.5	567.5	560.3	554.8	547.9	546.8
17.5°	860.4	751.2	645.7	610.3	593.0	580.3	567.2	556.5	548.9	540.0	538.9
20°	909.7	780.5	657.1	615.4	593.4	576.1	558.6	544.4	534.8	525.8	525.1
22.5°	960.7	807.4	664.0	614.0	587.9	566.5	545.5	529.6	518.2	507.6	506.9
25°	1012.0	833.2	665.7	608.5	576.8	552.0	531.0	512.4	499.6	487.6	486.2
27.5°	1064.1	854.9	661.6	597.5	562.0	535.1	514.1	495.9	482.8	470.7	468.6
30°	1119.5	873.5	652.6	583.0	544.8	517.2	496.5	482.8	470.4	458.3	456.2
32.5°	1178.8	889.7	639.9	565.5	524.8	499.3	484.1	471.7	459.3	448.6	446.6
35°	1249.5	900.4	620.9	542.7	506.2	486.2	475.9	461.4	446.2	434.5	433.5
37.5°	1322.5	908.7	598.2	521.0	490.0	478.6	470.0	450.4	431.4	417.3	415.6
40°	1393.1	915.6	569.9	500.7	475.2	473.1	461.4	436.9	404.2	388.3	387.0
42.5°	1459.0	917.6	540.3	479.0	461.7	460.7	447.6	409.7	384.6	374.6	373.2
45°	1504.1	915.9	509.6	458.6	448.3	442.8	429.0	390.1	374.6	365.6	363.9
47.5°	1537.5	906.9	475.2	437.3	433.1	425.6	395.9	377.7	363.2	354.2	352.5
50°	1531.7	869.7	440.4	416.6	414.9	408.3	371.8	362.2	349.4	339.8	338.4
52.5°	1501.3	799.1	404.9	393.9	397.3	384.6	354.6	343.5	332.5	321.5	319.1
55°	1508.9	748.1	378.0	371.8	378.0	349.1	335.3	323.6	313.2	302.5	300.5
57.5°	1542.0	697.8	349.4	348.0	354.6	321.8	310.5	295.7	280.8	272.2	272.2
60°	1294.9	508.6	299.1	302.5	317.4	299.8	289.8	274.6	258.4	250.9	250.9
62.5°	765.7	319.1	248.1	244.3	253.6	264.6	270.2	257.7	238.4	228.5	228.8
65°	337.3	232.2	218.8	215.7	213.0	220.5	235.7	236.7	216.4	204.7	205.0
67.5°	207.8	210.2	204.7	202.3	199.9	198.5	197.1	197.8	192.3	181.6	181.2
70°	187.5	194.0	190.2	188.1	185.0	182.6	174.4	160.9	151.6	148.9	152.0
72.5°	161.3	170.2	168.2	167.1	163.3	157.5	146.4	133.4	122.3	115.4	116.8
75°	121.6	128.9	129.9	130.3	126.1	120.6	109.2	98.2	88.6	81.3	83.0
77.5°	69.9	74.1	75.1	76.2	73.1	71.0	63.4	55.5	50.3	42.7	44.8
80°	38.9	40.7	40.7	41.0	39.3	36.9	31.7	27.2	24.8	21.4	21.7
82.5°	23.4	24.1	24.5	24.8	23.8	21.4	17.6	14.5	13.1	11.4	11.0
85°	11.4	12.1	12.1	12.4	10.7	9.3	7.2	5.5	4.8	3.4	3.8
87.5°	2.8	3.1	3.1	2.8	2.4	1.7	1.0	0.3	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)