

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: P630849

Luminaire Tested: GWS-SA1E-740-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630849  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1E-740-U-T2R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

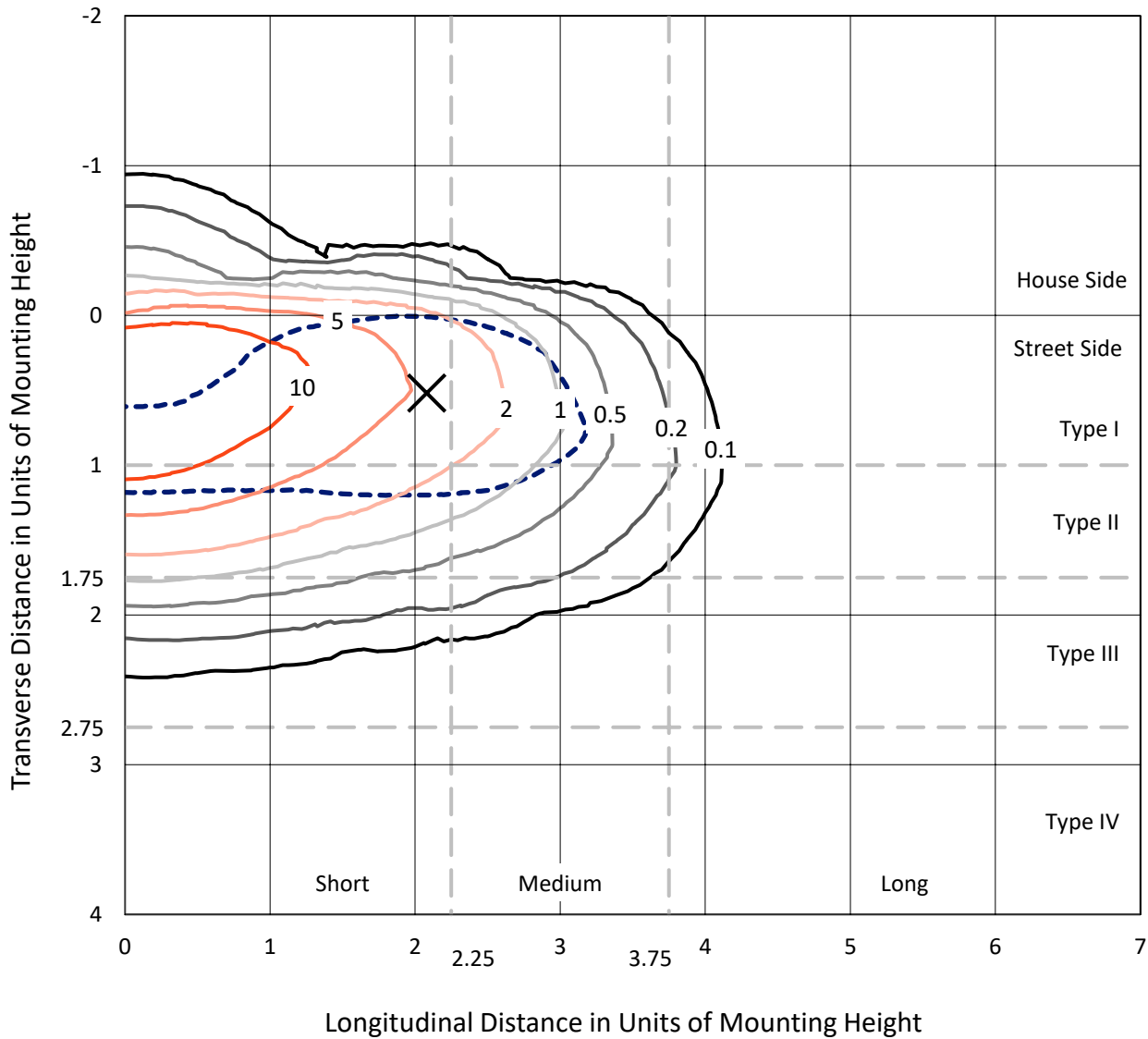
Lumens per Lamp: N/A  
Luminaire Lumens: 6111.2 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 58.4  
Input Voltage (V): 120  
Input Current (Ain): 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

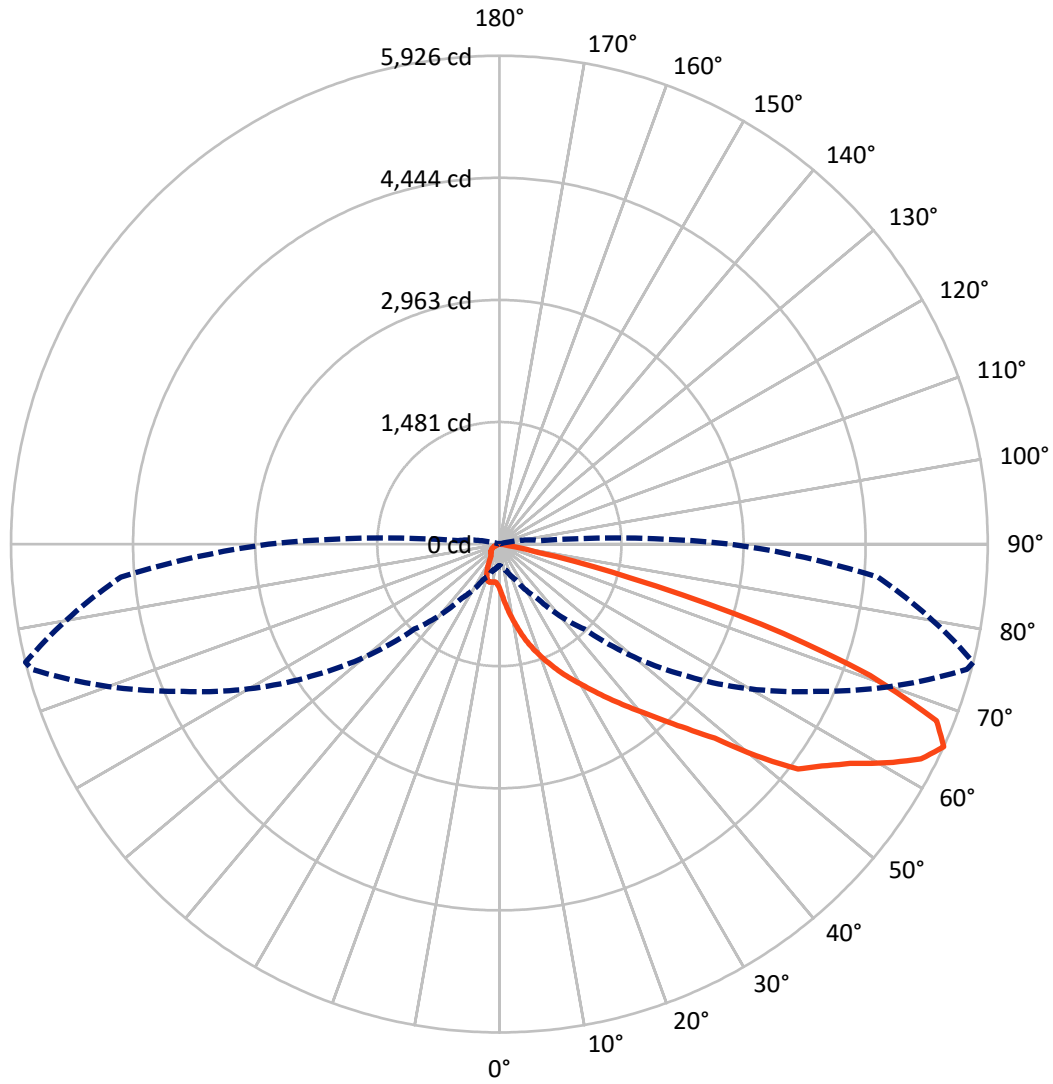
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	337.9	0.0	337.9
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	5773.3	0.0	5773.3
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	6111.2	0.0	6111.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.8	1.1
10°-20°	249.8	4.1
20°-30°	509.6	8.3
30°-40°	906.3	14.8
40°-50°	1339.7	21.9
50°-60°	1533.8	25.1
60°-70°	1170.2	19.1
70°-80°	327.8	5.4
80°-90°	8.2	0.1
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°	6111.2	100.0
0°-180°	6111.2	100.0

**Coefficient of Utilization**

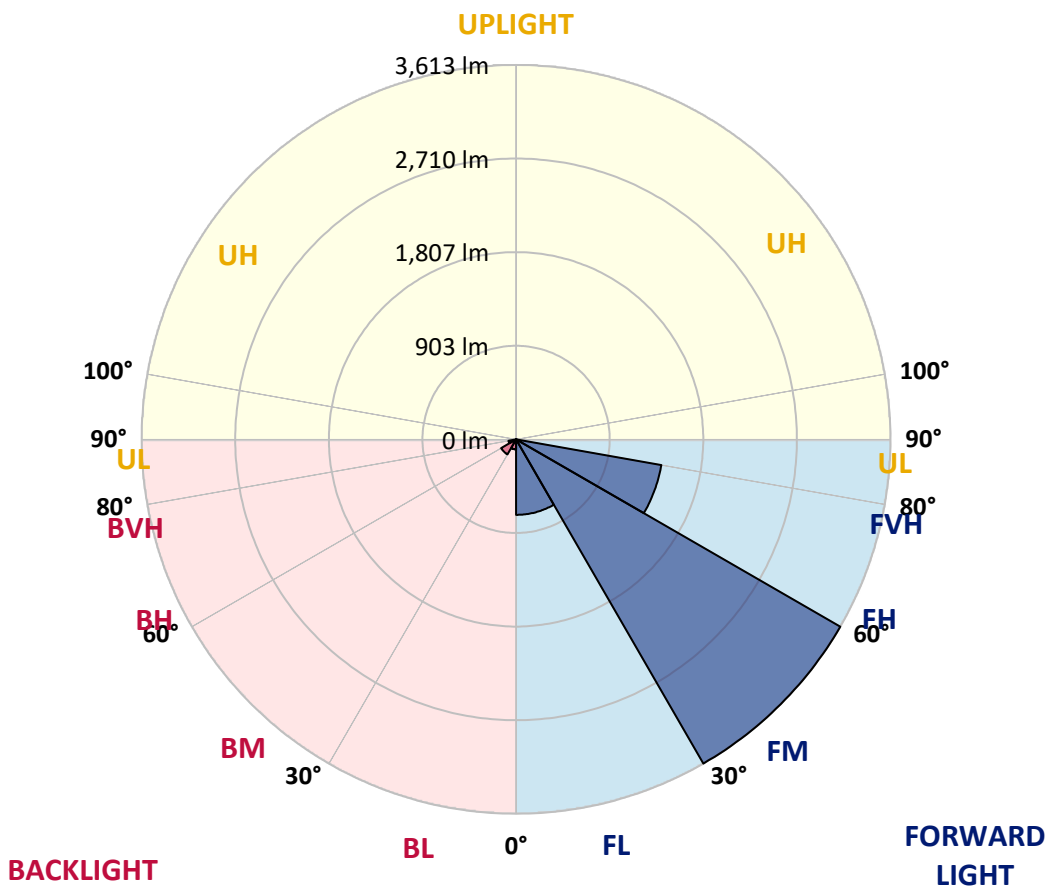


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	728.7	11.9			
FM (30°-60°)	3613.0	59.1			
FH (60°-80°)	1423.8	23.3			G1/1800
FVH (80°-90°)	7.8	0.1			G0/10
BL (0°-30°)	96.4	1.6	B0/110		
BM (30°-60°)	166.7	2.7	B0/220		
BH (60°-80°)	74.3	1.2	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	541.1	541.1	541.1	541.1	541.1	541.1	541.1	541.1	541.1	541.1	541.1
2.5°	833.9	846.4	836.6	820.3	788.8	758.4	719.2	665.5	622.5	617.1	576.9
5°	1126.1	1125.0	1103.9	1082.7	1049.5	997.4	918.6	818.7	722.5	714.4	624.2
7.5°	1300.0	1301.6	1289.6	1273.3	1240.8	1187.0	1104.9	984.3	843.6	827.4	688.8
10°	1446.1	1445.6	1436.9	1429.3	1399.9	1364.1	1276.1	1143.5	974.0	948.5	761.1
12.5°	1555.8	1559.6	1564.0	1571.6	1559.1	1523.8	1440.7	1296.2	1106.0	1077.8	843.6
15°	1642.7	1643.8	1660.1	1689.5	1699.8	1681.3	1605.8	1443.9	1236.4	1212.0	938.7
17.5°	1668.8	1671.0	1698.7	1752.5	1806.8	1817.1	1760.1	1592.8	1364.6	1338.5	1031.1
20°	1723.7	1728.6	1749.2	1796.5	1864.9	1920.3	1898.1	1743.2	1492.8	1458.6	1125.6
22.5°	1896.4	1899.2	1892.1	1898.1	1933.4	1997.5	2011.1	1888.8	1624.3	1587.9	1227.7
25°	2193.6	2194.7	2145.2	2098.5	2071.9	2083.9	2113.7	2023.0	1754.7	1718.8	1322.8
27.5°	2502.1	2506.0	2446.7	2367.4	2272.4	2218.0	2209.3	2145.8	1886.1	1846.5	1416.8
30°	2792.8	2792.8	2730.3	2633.6	2506.5	2400.6	2338.1	2269.6	2026.8	1983.4	1512.9
32.5°	3054.1	3051.9	2972.0	2867.2	2741.7	2625.5	2494.0	2398.9	2183.3	2134.9	1623.7
35°	3269.7	3264.3	3173.6	3073.1	2938.9	2852.5	2705.9	2538.0	2352.8	2304.4	1737.8
37.5°	3432.7	3426.7	3343.6	3237.1	3112.7	3056.8	2934.0	2704.8	2531.5	2487.5	1864.4
40°	3521.3	3509.3	3451.7	3372.4	3268.1	3219.2	3168.2	2911.8	2741.7	2686.9	2013.8
42.5°	3547.3	3533.2	3495.2	3458.2	3395.2	3356.7	3411.5	3145.3	2972.6	2925.3	2184.4
45°	3470.2	3462.0	3458.8	3485.4	3496.8	3507.7	3642.9	3403.9	3227.4	3191.5	2398.9
47.5°	3284.4	3282.2	3311.0	3421.9	3542.4	3657.1	3894.5	3722.8	3557.7	3519.1	2698.8
50°	2941.1	2963.4	3043.8	3238.2	3479.4	3741.8	4129.7	4165.0	4092.2	4035.7	3089.9
52.5°	2404.4	2447.3	2627.6	2923.2	3269.7	3717.9	4238.3	4519.2	4593.6	4534.9	3370.2
55°	1886.7	1926.9	2087.7	2462.5	2924.8	3535.9	4243.2	4641.4	4803.8	4749.5	3559.8
57.5°	1405.4	1442.3	1588.4	1947.0	2455.4	3177.9	4127.0	4709.3	5053.2	5018.4	3859.2
60°	918.6	955.0	1087.0	1400.5	1904.6	2656.4	3840.7	4695.2	5392.7	5389.5	4226.9
62.5°	509.6	538.3	634.0	878.4	1329.3	2057.2	3390.9	4553.4	5721.4	5742.0	4530.1
65°	260.8	279.2	337.4	482.9	804.5	1458.6	2799.3	4228.6	5873.5	5925.6	4609.9
67.5°	170.6	176.6	190.7	251.0	430.8	917.5	2106.7	3707.6	5659.4	5720.3	4342.1
70°	138.5	143.4	151.6	167.3	222.2	487.3	1383.6	2961.2	4728.9	4770.2	3457.7
72.5°	101.6	108.1	123.9	134.2	160.3	267.3	719.8	1943.7	3247.5	3320.3	2172.9
75°	75.0	78.8	91.8	105.9	130.9	168.9	275.4	1021.8	1677.0	1634.6	912.6
77.5°	45.1	47.8	58.7	67.9	93.4	105.4	96.2	377.5	510.1	479.7	220.6
80°	22.3	25.0	38.6	51.1	59.8	42.4	40.2	105.4	113.5	113.5	55.4
82.5°	7.6	9.8	20.6	33.7	29.3	16.3	19.0	27.2	30.4	32.1	16.3
85°	0.0	0.0	4.9	9.8	4.3	2.2	4.9	6.0	7.6	8.1	5.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.6	2.2	2.2
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°	541.1	541.1	541.1	541.1	541.1	541.1	541.1	541.1	541.1	541.1	541.1
2.5°	555.2	529.7	491.1	456.3	429.7	404.7	385.7	370.5	367.8	359.1	360.2
5°	580.2	534.0	462.8	408.0	369.4	343.3	321.6	305.3	298.2	291.2	285.7
7.5°	618.7	551.9	452.0	385.2	340.1	299.9	266.2	239.0	226.0	217.8	212.4
10°	666.0	576.9	452.5	371.6	304.8	243.4	197.2	167.3	153.2	148.8	148.3
12.5°	722.5	608.4	456.9	349.3	253.7	180.9	146.1	132.5	128.2	124.4	124.4
15°	782.3	643.7	456.9	308.6	193.4	141.2	126.6	117.9	112.5	110.3	109.2
17.5°	845.3	676.9	446.0	252.6	148.3	124.4	112.5	104.3	100.0	96.7	95.6
20°	912.6	708.4	418.8	193.4	127.1	111.4	100.0	91.8	87.5	84.2	84.2
22.5°	981.1	737.7	374.8	148.8	112.5	98.9	88.0	80.4	76.1	72.8	72.8
25°	1044.6	757.3	318.3	122.8	101.6	88.0	78.2	70.6	65.7	63.6	62.5
27.5°	1103.9	769.8	255.9	108.1	91.3	78.8	68.4	61.4	57.6	56.0	54.9
30°	1165.2	773.0	195.6	98.3	82.6	69.5	59.8	54.3	51.1	48.9	48.9
32.5°	1225.0	769.2	149.4	90.2	75.0	61.4	53.2	48.3	45.6	44.0	43.5
35°	1285.8	751.8	121.1	83.1	67.4	53.8	47.3	43.5	41.8	39.7	39.7
37.5°	1352.1	728.5	105.4	76.1	59.8	48.3	42.4	39.7	37.5	35.9	35.3
40°	1434.7	701.3	96.7	70.1	52.7	43.5	38.0	35.3	33.7	32.1	31.5
42.5°	1532.5	674.7	92.4	63.6	47.3	38.6	34.2	31.0	29.3	27.2	26.6
45°	1671.0	668.7	87.5	56.5	42.4	34.8	29.9	26.6	24.4	22.8	22.3
47.5°	1893.7	685.6	79.3	48.9	37.5	30.4	25.5	22.8	20.1	18.5	17.4
50°	2114.8	681.2	71.2	42.4	33.1	26.1	21.7	19.0	16.3	14.7	14.1
52.5°	2235.4	660.6	63.6	37.5	28.8	22.3	18.5	15.2	13.6	12.0	11.4
55°	2344.6	652.4	56.0	32.6	24.4	19.6	15.2	12.5	11.4	9.8	9.2
57.5°	2558.6	671.4	49.4	28.2	21.2	16.8	13.0	10.3	9.2	7.6	7.1
60°	2782.5	673.6	42.4	24.4	18.5	14.1	10.3	8.1	7.1	5.4	4.9
62.5°	2899.3	618.7	34.8	20.6	15.2	12.0	8.7	6.5	5.4	3.3	3.3
65°	2801.5	500.3	29.3	16.8	12.0	9.2	6.5	4.9	3.3	1.6	0.5
67.5°	2479.3	355.8	24.4	13.6	8.7	6.5	4.9	3.3	0.5	0.0	0.0
70°	1815.5	203.2	19.0	9.8	6.5	4.3	3.3	1.6	0.0	0.0	0.0
72.5°	1115.8	108.6	14.1	6.5	4.9	3.3	2.7	1.1	0.0	0.0	0.0
75°	423.2	52.2	8.7	4.3	3.8	2.7	1.6	0.5	0.0	0.0	0.0
77.5°	114.6	25.5	4.9	3.3	2.7	1.6	1.1	0.0	0.0	0.0	0.0
80°	29.9	12.0	3.3	2.2	1.6	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	10.3	5.4	1.6	1.6	1.1	0.5	0.0	0.0	0.0	0.0	0.0
85°	4.3	2.2	1.1	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	0.5	0.5	0.5	0.5	0.0	0.0	0.0	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)