

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: P632554

Luminaire Tested: GWS-SA2C-830-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632554  
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-SA2C-830-U-T2R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

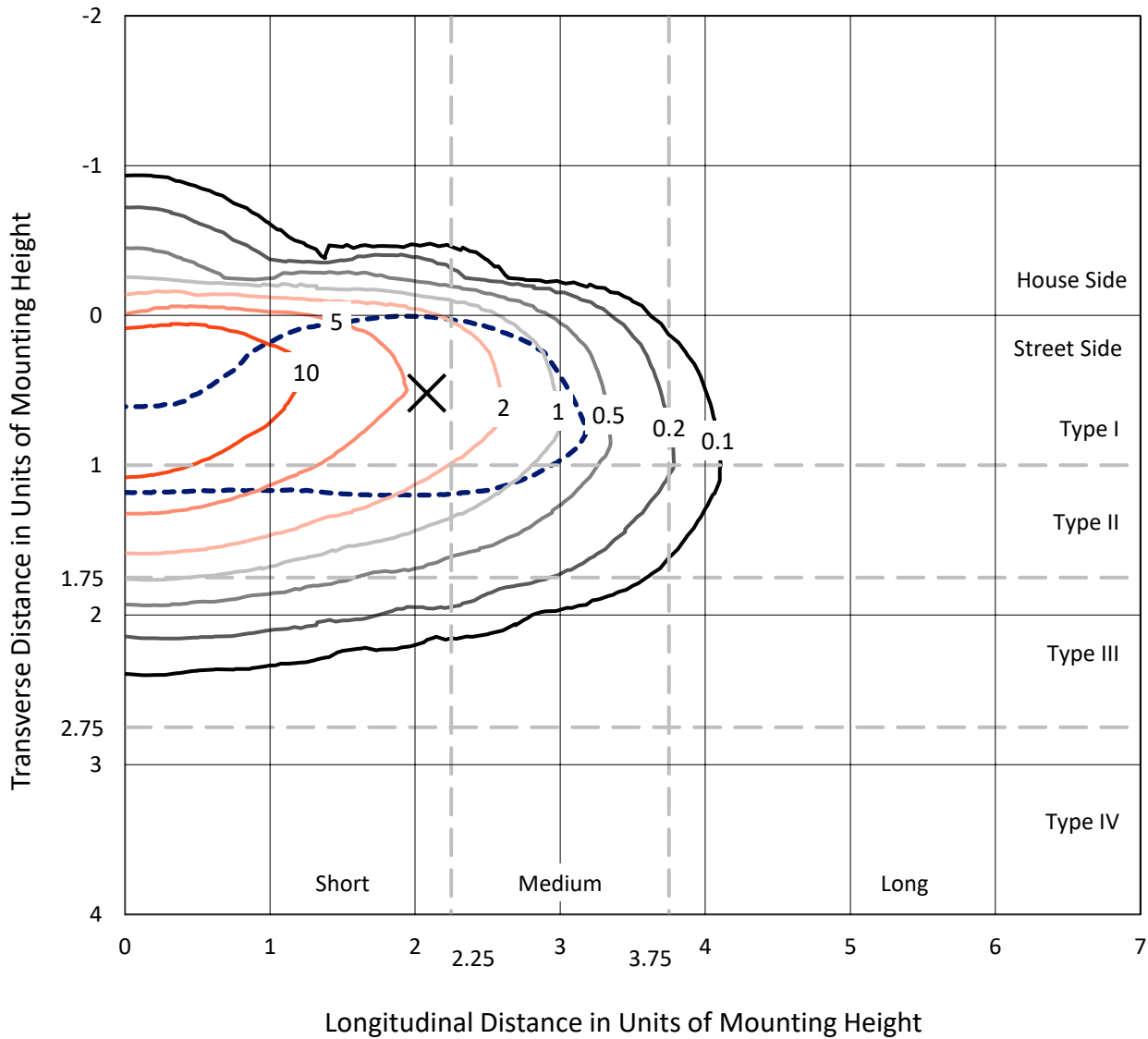
Lumens per Lamp: N/A  
Luminaire Lumens: 5929.5 lumens  
Efficiency: N/A  
Efficacy: 93.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

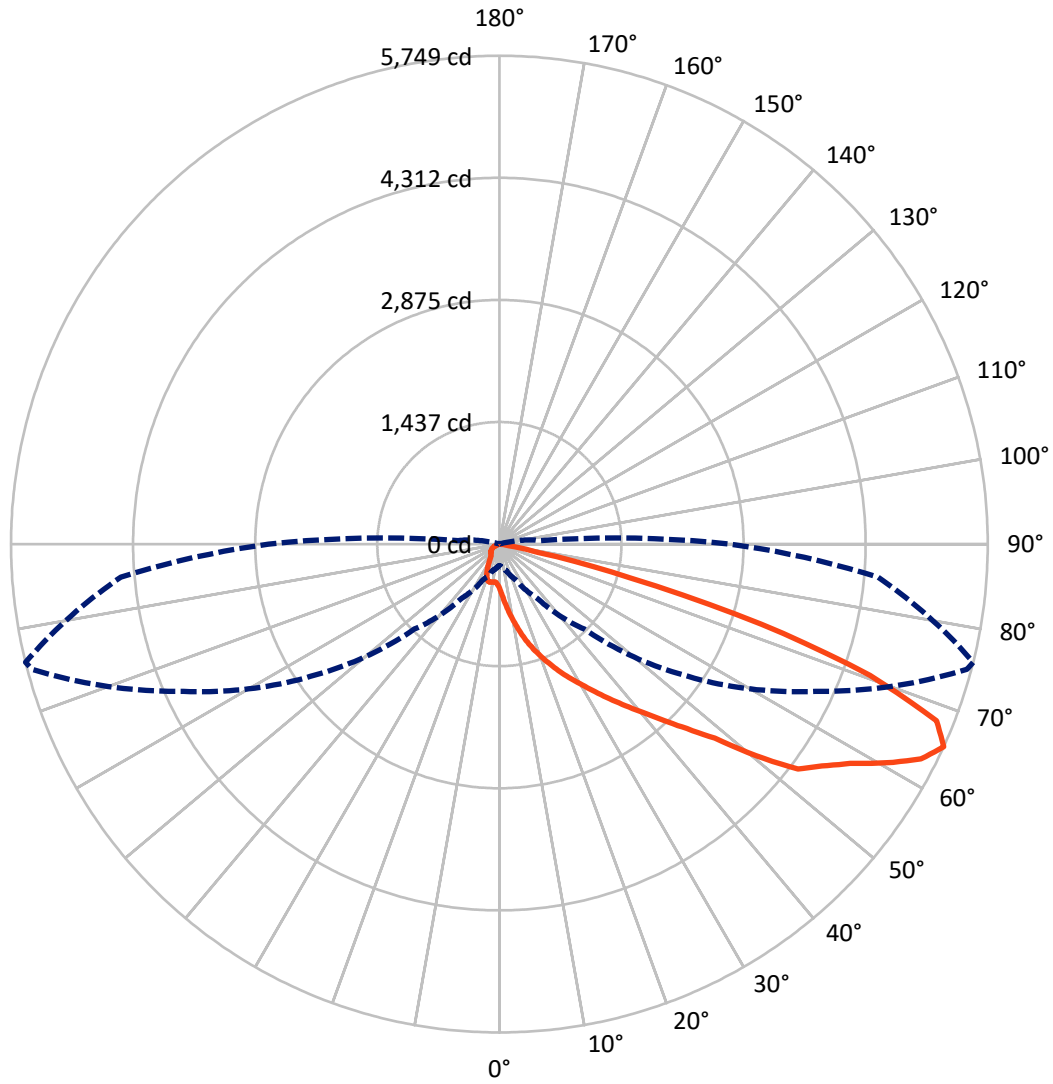
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.8 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	327.9	0.0	327.9
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	5601.6	0.0	5601.6
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	5929.5	0.0	5929.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.9	1.1
10°-20°	242.3	4.1
20°-30°	494.4	8.3
30°-40°	879.3	14.8
40°-50°	1299.8	21.9
50°-60°	1488.2	25.1
60°-70°	1135.4	19.1
70°-80°	318.1	5.4
80°-90°	8.0	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°	5929.5	100.0
0°-180°	5929.5	100.0

**Coefficient of Utilization**



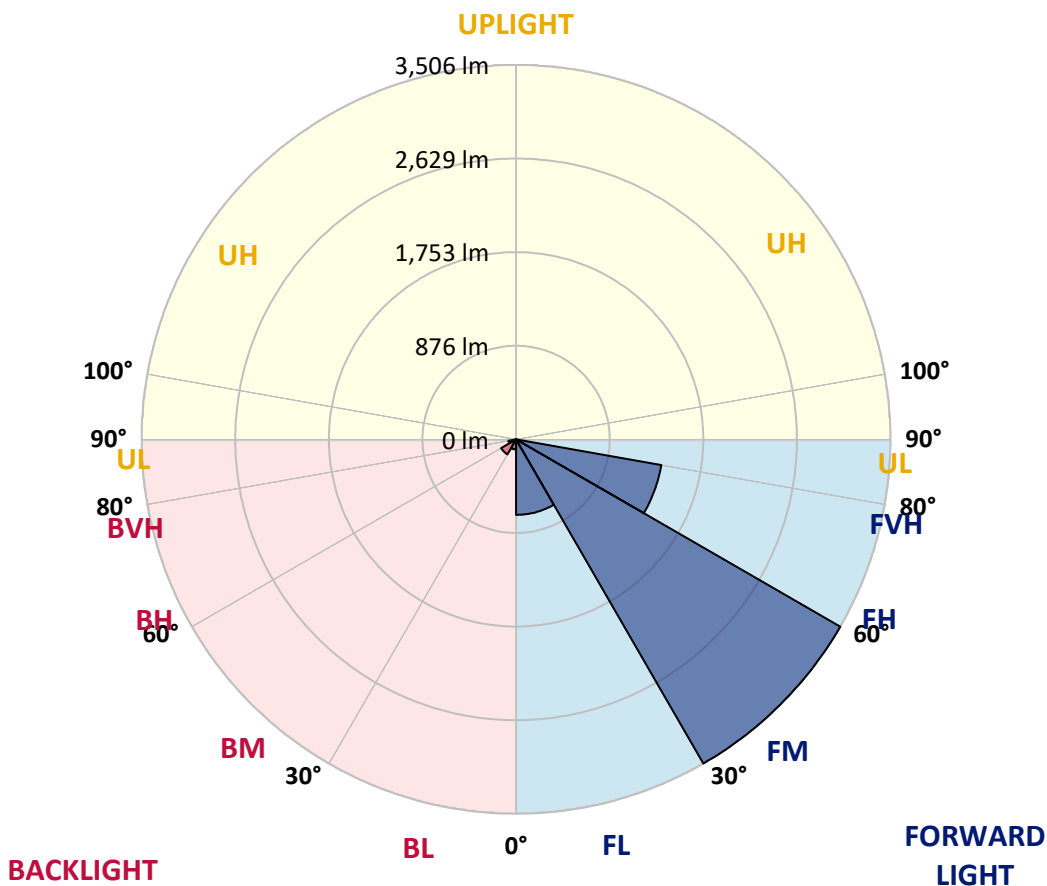
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	707.0	11.9			
FM (30°-60°)	3505.6	59.1			
FH (60°-80°)	1381.4	23.3			G1/1800
FVH (80°-90°)	7.5	0.1			G0/10
BL (0°-30°)	93.6	1.6	B0/110		
BM (30°-60°)	161.8	2.7	B0/220		
BH (60°-80°)	72.1	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°	525.0	525.0	525.0	525.0	525.0	525.0	525.0	525.0	525.0	525.0	525.0
2.5°	809.1	821.2	811.7	795.9	765.3	735.8	697.9	645.7	604.0	598.8	559.8
5°	1092.6	1091.6	1071.0	1050.5	1018.3	967.7	891.3	794.3	701.0	693.1	605.6
7.5°	1261.3	1262.9	1251.3	1235.5	1203.9	1151.7	1072.1	955.1	818.6	802.8	668.3
10°	1403.1	1402.6	1394.1	1386.8	1358.3	1323.5	1238.1	1109.5	945.1	920.3	738.4
12.5°	1509.6	1513.3	1517.5	1524.9	1512.7	1478.5	1397.8	1257.6	1073.1	1045.7	818.6
15°	1593.9	1595.0	1610.8	1639.2	1649.3	1631.3	1558.1	1401.0	1199.6	1175.9	910.8
17.5°	1619.2	1621.3	1648.2	1700.4	1753.1	1763.1	1707.8	1545.4	1324.0	1298.7	1000.4
20°	1672.4	1677.2	1697.2	1743.1	1809.5	1863.2	1841.6	1691.4	1448.4	1415.2	1092.1
22.5°	1840.1	1842.7	1835.8	1841.6	1875.9	1938.1	1951.3	1832.7	1576.0	1540.7	1191.2
25°	2128.4	2129.4	2081.5	2036.1	2010.3	2021.9	2050.9	1962.9	1702.5	1667.7	1283.5
27.5°	2427.8	2431.4	2374.0	2297.0	2204.8	2152.1	2143.7	2082.0	1830.0	1791.6	1374.6
30°	2709.7	2709.7	2649.1	2555.3	2432.0	2329.2	2268.6	2202.2	1966.6	1924.4	1467.9
32.5°	2963.3	2961.2	2883.7	2782.0	2660.2	2547.4	2419.8	2327.6	2118.4	2071.4	1575.5
35°	3172.5	3167.3	3079.2	2981.7	2851.5	2767.7	2625.4	2462.5	2282.8	2235.9	1686.1
37.5°	3330.7	3324.9	3244.2	3140.9	3020.2	2965.9	2846.8	2624.4	2456.2	2413.5	1809.0
40°	3416.6	3405.0	3349.1	3272.1	3170.9	3123.5	3074.0	2825.2	2660.2	2607.0	1953.9
42.5°	3441.9	3428.2	3391.3	3355.4	3294.3	3256.9	3310.1	3051.8	2884.2	2838.4	2119.4
45°	3367.0	3359.1	3356.0	3381.8	3392.8	3403.4	3534.6	3302.7	3131.4	3096.6	2327.6
47.5°	3186.8	3184.6	3212.6	3320.1	3437.1	3548.3	3778.7	3612.1	3451.9	3414.5	2618.6
50°	2853.6	2875.3	2953.3	3142.0	3376.0	3630.6	4006.9	4041.2	3970.5	3915.7	2998.1
52.5°	2332.9	2374.5	2549.5	2836.2	3172.5	3607.4	4112.3	4384.8	4457.0	4400.1	3270.0
55°	1830.6	1869.6	2025.6	2389.3	2837.8	3430.8	4117.1	4503.4	4661.0	4608.3	3454.0
57.5°	1363.6	1399.4	1541.2	1889.1	2382.4	3083.4	4004.3	4569.3	4902.9	4869.2	3744.4
60°	891.3	926.6	1054.7	1358.8	1848.0	2577.4	3726.5	4555.6	5232.4	5229.2	4101.3
62.5°	494.4	522.3	615.1	852.3	1289.8	1996.1	3290.1	4418.0	5551.3	5571.3	4395.4
65°	253.0	270.9	327.3	468.6	780.6	1415.2	2716.1	4102.8	5698.8	5749.4	4472.8
67.5°	165.5	171.3	185.0	243.5	418.0	890.2	2044.0	3597.4	5491.2	5550.2	4213.0
70°	134.4	139.2	147.1	162.3	215.6	472.8	1342.5	2873.1	4588.3	4628.3	3354.9
72.5°	98.6	104.9	120.2	130.2	155.5	259.3	698.4	1885.9	3150.9	3221.5	2108.3
75°	72.7	76.4	89.1	102.8	127.0	163.9	267.2	991.4	1627.1	1586.0	885.5
77.5°	43.7	46.4	56.9	65.9	90.7	102.3	93.3	366.3	494.9	465.4	214.0
80°	21.6	24.2	37.4	49.5	58.0	41.1	39.0	102.3	110.2	110.2	53.8
82.5°	7.4	9.5	20.0	32.7	28.5	15.8	18.4	26.4	29.5	31.1	15.8
85°	0.0	0.0	4.7	9.5	4.2	2.1	4.7	5.8	7.4	7.9	5.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.6	2.1	2.1
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°	525.0	525.0	525.0	525.0	525.0	525.0	525.0	525.0	525.0	525.0	525.0
2.5°	538.7	513.9	476.5	442.8	416.9	392.7	374.2	359.5	356.8	348.4	349.5
5°	562.9	518.1	449.1	395.8	358.4	333.1	312.0	296.2	289.4	282.5	277.2
7.5°	600.4	535.5	438.5	373.7	330.0	291.0	258.3	231.9	219.3	211.4	206.1
10°	646.2	559.8	439.1	360.5	295.7	236.1	191.3	162.3	148.6	144.4	143.9
12.5°	701.0	590.3	443.3	338.9	246.1	175.5	141.8	128.6	124.4	120.7	120.7
15°	759.0	624.6	443.3	299.4	187.6	137.0	122.8	114.4	109.1	107.0	105.9
17.5°	820.1	656.7	432.7	245.1	143.9	120.7	109.1	101.2	97.0	93.8	92.8
20°	885.5	687.3	406.4	187.6	123.3	108.1	97.0	89.1	84.9	81.7	81.7
22.5°	951.9	715.8	363.7	144.4	109.1	95.9	85.4	78.0	73.8	70.6	70.6
25°	1013.6	734.8	308.9	119.1	98.6	85.4	75.9	68.5	63.8	61.7	60.6
27.5°	1071.0	746.9	248.3	104.9	88.6	76.4	66.4	59.6	55.9	54.3	53.2
30°	1130.6	750.0	189.8	95.4	80.1	67.5	58.0	52.7	49.5	47.4	47.4
32.5°	1188.6	746.4	144.9	87.5	72.7	59.6	51.7	46.9	44.3	42.7	42.2
35°	1247.6	729.5	117.5	80.6	65.4	52.2	45.9	42.2	40.6	38.5	38.5
37.5°	1311.9	706.8	102.3	73.8	58.0	46.9	41.1	38.5	36.4	34.8	34.3
40°	1392.0	680.5	93.8	68.0	51.1	42.2	36.9	34.3	32.7	31.1	30.6
42.5°	1486.9	654.6	89.6	61.7	45.9	37.4	33.2	30.0	28.5	26.4	25.8
45°	1621.3	648.8	84.9	54.8	41.1	33.7	29.0	25.8	23.7	22.1	21.6
47.5°	1837.4	665.2	77.0	47.4	36.4	29.5	24.8	22.1	19.5	17.9	16.9
50°	2051.9	661.0	69.0	41.1	32.2	25.3	21.1	18.4	15.8	14.2	13.7
52.5°	2169.0	640.9	61.7	36.4	27.9	21.6	17.9	14.8	13.2	11.6	11.1
55°	2274.9	633.0	54.3	31.6	23.7	19.0	14.8	12.1	11.1	9.5	9.0
57.5°	2482.6	651.5	48.0	27.4	20.6	16.3	12.7	10.0	9.0	7.4	6.9
60°	2699.7	653.6	41.1	23.7	17.9	13.7	10.0	7.9	6.9	5.3	4.7
62.5°	2813.1	600.4	33.7	20.0	14.8	11.6	8.4	6.3	5.3	3.2	3.2
65°	2718.2	485.4	28.5	16.3	11.6	9.0	6.3	4.7	3.2	1.6	0.5
67.5°	2405.6	345.2	23.7	13.2	8.4	6.3	4.7	3.2	0.5	0.0	0.0
70°	1761.5	197.1	18.4	9.5	6.3	4.2	3.2	1.6	0.0	0.0	0.0
72.5°	1082.6	105.4	13.7	6.3	4.7	3.2	2.6	1.1	0.0	0.0	0.0
75°	410.6	50.6	8.4	4.2	3.7	2.6	1.6	0.5	0.0	0.0	0.0
77.5°	111.2	24.8	4.7	3.2	2.6	1.6	1.1	0.0	0.0	0.0	0.0
80°	29.0	11.6	3.2	2.1	1.6	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	10.0	5.3	1.6	1.6	1.1	0.5	0.0	0.0	0.0	0.0	0.0
85°	4.2	2.1	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)