

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: P631259

Luminaire Tested: GWS-SA1F-735-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631259
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-735-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6968.3 lumens
Efficiency: N/A
Efficacy: 103.7 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

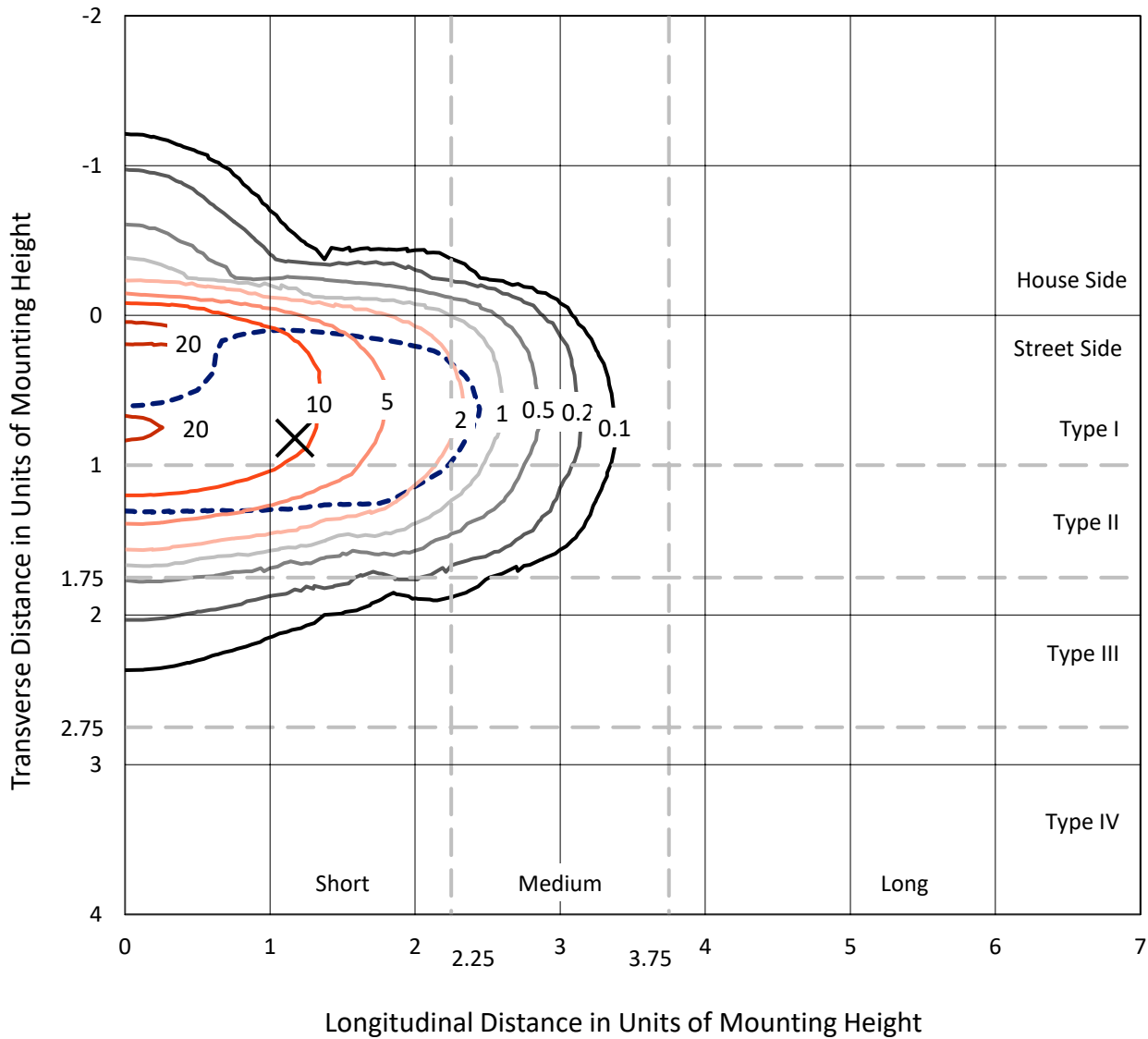
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

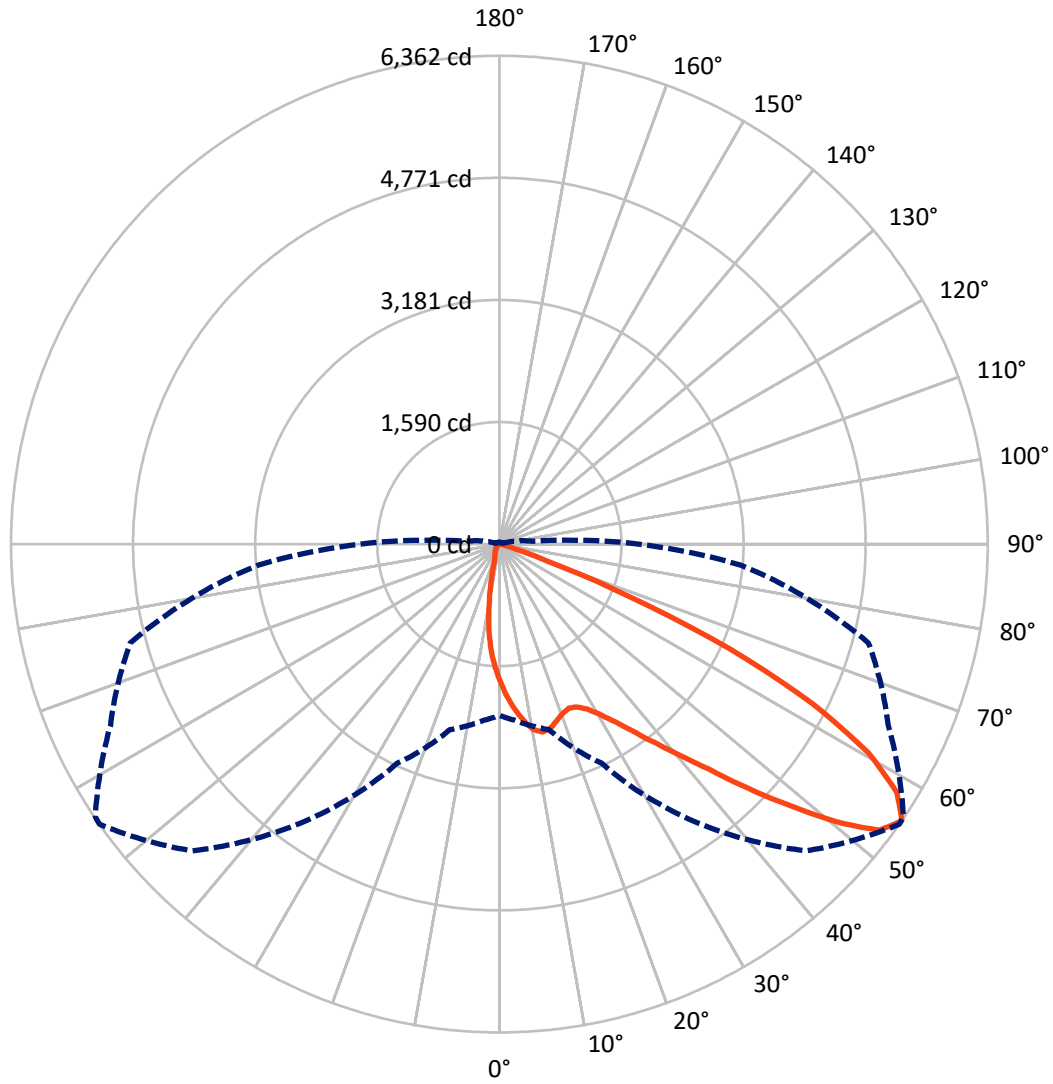
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	430.0	0.0	430.0
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	6538.3	0.0	6538.3
	% Fixture	93.8	0.0	93.8
Total	Lumens	6968.3	0.0	6968.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.1	2.3
10°-20°	383.6	5.5
20°-30°	638.8	9.2
30°-40°	1088.5	15.6
40°-50°	1776.8	25.5
50°-60°	1860.3	26.7
60°-70°	938.3	13.5
70°-80°	118.5	1.7
80°-90°	4.5	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°	6968.3	100.0
0°-180°	6968.3	100.0

Coefficient of Utilization



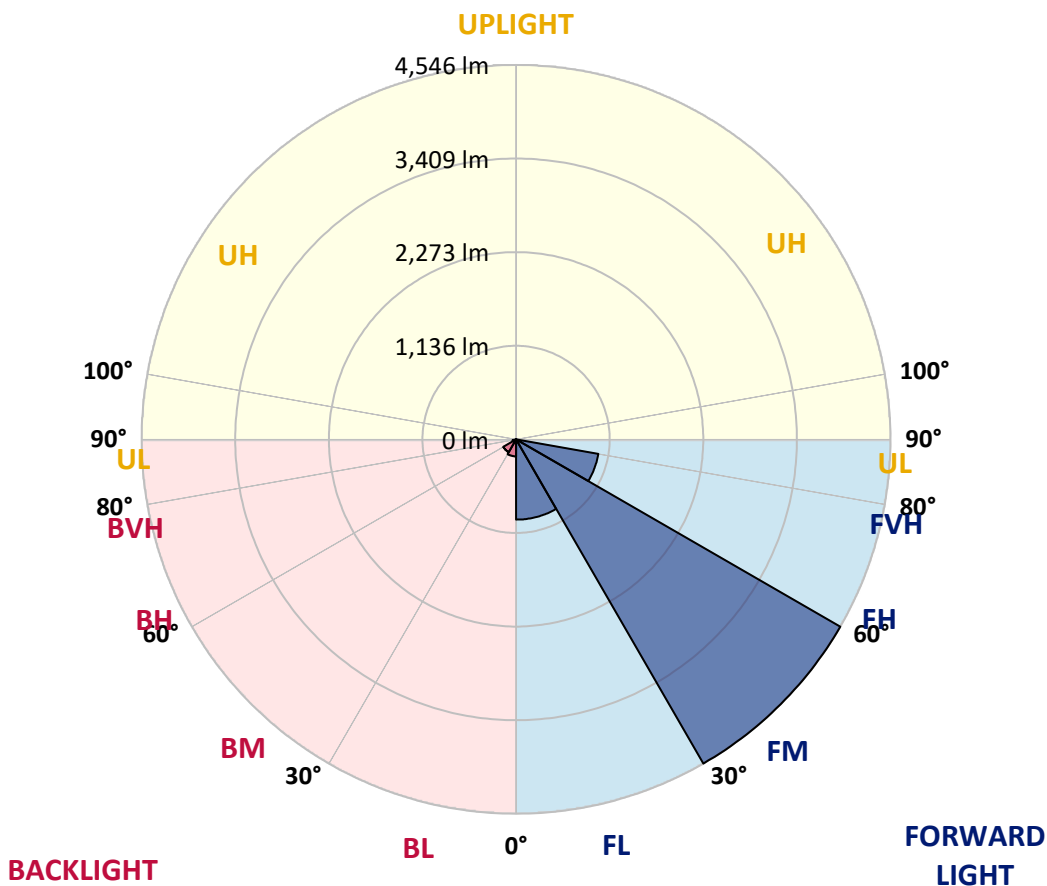
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	974.8	14.0			
FM (30°-60°)	4545.8	65.2			
FH (60°-80°)	1013.7	14.5			G1/1800
FVH (80°-90°)	4.1	0.1			G0/10
BL (0°-30°)	206.7	3.0	B1/500		
BM (30°-60°)	179.8	2.6	B0/220		
BH (60°-80°)	43.1	0.6	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			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°	56°	65°	75°	85°
0°	1800.2	1800.2	1800.2	1800.2	1800.2	1800.2	1800.2	1800.2	1800.2	1800.2	1800.2
2.5°	2098.6	2088.5	2104.0	2086.1	2055.8	2030.1	1996.8	1984.9	1931.3	1880.6	1831.8
5°	2353.6	2356.6	2351.8	2326.8	2283.9	2236.3	2168.9	2154.0	2060.5	1964.0	1859.8
7.5°	2416.7	2415.0	2425.1	2434.6	2427.5	2403.6	2330.4	2315.5	2199.3	2054.6	1902.7
10°	2222.0	2223.1	2244.0	2308.3	2388.2	2471.0	2459.6	2451.3	2337.5	2157.0	1950.3
12.5°	1946.7	1957.5	1979.5	2071.2	2206.5	2394.7	2511.5	2519.8	2464.4	2269.6	2006.3
15°	1827.6	1830.0	1847.9	1903.3	2003.9	2236.3	2489.4	2512.7	2570.4	2382.8	2067.1
17.5°	1824.6	1827.6	1835.3	1859.8	1925.3	2111.8	2418.5	2459.0	2650.3	2504.3	2139.7
20°	1936.6	1934.8	1929.5	1916.4	1945.0	2070.6	2353.0	2397.7	2693.7	2622.9	2213.0
22.5°	2139.7	2137.4	2113.5	2059.3	2036.1	2108.2	2320.8	2361.3	2720.0	2728.3	2273.2
25°	2373.9	2390.5	2345.9	2263.7	2206.5	2204.1	2349.4	2378.0	2742.6	2821.8	2314.3
27.5°	2630.6	2636.0	2597.8	2505.5	2422.7	2357.8	2432.2	2453.7	2767.6	2905.2	2337.5
30°	2912.4	2910.6	2867.1	2759.9	2659.2	2565.7	2571.6	2580.0	2826.0	3000.5	2363.1
32.5°	3264.4	3272.2	3194.7	3048.8	2927.9	2798.6	2753.9	2755.1	2931.4	3123.2	2401.9
35°	3742.8	3723.7	3621.3	3413.4	3207.2	3067.8	2991.6	2985.0	3094.1	3288.3	2469.2
37.5°	4198.5	4200.3	4093.0	3864.3	3604.0	3384.2	3276.3	3258.5	3322.8	3517.0	2581.2
40°	4514.8	4520.8	4476.1	4356.3	4080.5	3769.6	3611.1	3592.7	3619.5	3806.5	2727.7
42.5°	4682.2	4698.9	4711.4	4739.4	4530.3	4250.9	4007.3	4005.5	3977.5	4136.5	2897.5
45°	4688.7	4713.8	4790.0	4981.2	5005.1	4800.1	4535.1	4495.1	4387.3	4489.8	3049.4
47.5°	4429.6	4487.4	4649.4	5028.3	5278.5	5346.4	5083.7	5059.3	4756.7	4769.2	3163.2
50°	3825.6	3885.7	4184.2	4787.0	5347.6	5780.1	5685.9	5635.3	5065.2	4953.8	3218.0
52.5°	3206.0	3260.9	3463.4	4212.8	5061.1	5916.5	6193.5	6133.3	5342.2	5018.2	3195.3
55°	2230.9	2304.2	2501.9	3148.9	4401.0	5650.8	6361.5	6349.0	5589.4	4977.7	3160.2
57.5°	1093.7	1166.4	1363.6	1941.4	3260.3	4933.6	6104.7	6170.8	5737.2	4934.2	3131.6
60°	456.9	486.7	554.6	851.8	1824.0	3728.5	5525.1	5616.8	5646.6	4875.2	3128.6
62.5°	265.1	269.9	277.0	353.2	709.5	2137.4	4583.3	4713.8	5170.7	4797.2	3081.5
65°	200.2	201.9	199.0	216.8	293.1	810.7	3311.5	3489.0	4315.8	4492.2	2895.7
67.5°	164.4	164.4	156.7	160.2	184.1	303.8	1828.2	2076.0	3193.5	3692.1	2391.1
70°	131.1	134.0	130.5	125.7	131.6	168.0	650.5	806.6	1859.8	2180.3	1394.5
72.5°	99.5	99.5	105.4	101.9	97.7	105.4	227.0	255.0	746.4	909.0	503.4
75°	76.8	79.2	83.4	79.8	73.9	62.5	109.0	115.6	225.2	211.5	112.6
77.5°	39.3	39.9	53.0	58.4	54.8	38.1	47.7	52.4	73.3	65.5	41.7
80°	23.8	25.0	29.8	45.9	36.3	20.3	19.7	20.8	34.6	29.8	17.3
82.5°	10.1	10.7	16.7	16.7	14.9	7.7	7.7	7.7	16.7	15.5	7.1
85°	0.0	0.0	3.0	2.4	2.4	3.0	3.0	3.0	4.2	6.0	3.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.8	1.8
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°	1800.2	1800.2	1800.2	1800.2	1800.2	1800.2	1800.2	1800.2	1800.2	1800.2	1800.2
2.5°	1800.2	1762.1	1710.8	1664.4	1601.8	1566.7	1517.8	1477.9	1444.0	1433.3	1428.5
5°	1800.8	1735.3	1625.7	1516.1	1381.4	1275.4	1166.4	1080.0	1009.1	986.5	980.5
7.5°	1812.7	1716.2	1538.7	1339.7	1114.6	928.7	762.5	613.6	544.5	521.2	516.5
10°	1828.8	1700.1	1438.0	1128.3	804.8	565.9	400.9	305.6	260.3	235.3	238.9
12.5°	1849.6	1687.0	1326.6	899.5	532.6	311.0	220.4	184.7	175.1	170.4	168.0
15°	1877.6	1671.5	1188.4	672.5	326.4	200.2	169.8	160.2	156.7	154.3	153.7
17.5°	1906.2	1653.7	1047.8	473.0	216.8	166.2	152.5	147.7	145.4	143.6	143.0
20°	1936.6	1623.3	882.8	325.8	171.0	149.5	140.6	135.2	132.2	129.3	128.7
22.5°	1949.7	1574.4	725.0	228.2	151.9	137.6	126.3	119.7	116.2	113.8	113.8
25°	1937.2	1495.2	561.7	173.3	138.2	124.5	113.2	106.0	103.1	100.7	100.7
27.5°	1903.9	1393.3	409.8	143.6	123.3	110.8	100.1	93.5	91.1	90.0	90.0
30°	1866.9	1264.7	288.9	123.3	106.6	96.5	87.6	83.4	82.8	81.6	81.6
32.5°	1835.3	1144.3	199.0	108.4	94.1	84.0	78.0	76.2	76.8	75.7	76.2
35°	1818.1	1026.4	147.7	96.5	84.0	74.5	71.5	71.5	71.5	70.9	70.9
37.5°	1825.2	910.2	120.3	88.2	75.1	67.9	64.9	66.1	67.3	67.3	67.3
40°	1861.0	807.2	106.6	80.4	67.3	62.0	59.6	61.4	63.1	64.3	64.3
42.5°	1906.2	723.8	96.5	73.9	62.0	56.0	54.8	56.6	58.4	59.6	59.6
45°	1934.8	639.8	86.4	65.5	56.6	49.4	49.4	51.8	51.2	51.8	51.8
47.5°	1947.9	573.1	76.2	56.6	48.3	42.9	43.5	44.7	43.5	44.7	44.7
50°	1915.8	505.7	67.3	47.1	39.9	37.5	38.7	38.1	38.1	40.5	40.5
52.5°	1856.8	455.7	59.6	39.9	34.0	33.4	34.6	32.2	32.8	32.8	32.2
55°	1813.3	427.1	53.0	34.6	29.2	29.8	29.2	25.0	22.6	20.3	19.7
57.5°	1791.9	415.8	48.3	31.0	26.2	26.2	23.8	17.3	13.1	10.1	8.9
60°	1787.1	402.1	43.5	26.8	23.2	22.0	17.3	10.1	6.6	4.8	4.2
62.5°	1741.8	368.7	39.3	21.4	20.3	17.9	10.7	6.0	3.6	2.4	1.8
65°	1593.5	303.2	35.1	16.7	15.5	13.1	6.6	3.6	1.8	0.6	0.0
67.5°	1267.6	215.0	31.0	12.5	10.7	8.3	4.2	2.4	0.6	0.0	0.0
70°	730.9	116.2	25.6	8.9	7.1	5.4	3.0	1.2	0.0	0.0	0.0
72.5°	244.2	54.2	19.7	6.0	5.4	4.2	1.8	0.6	0.0	0.0	0.0
75°	53.6	32.2	13.1	4.2	3.6	3.0	1.2	0.0	0.0	0.0	0.0
77.5°	20.3	22.6	6.6	3.0	2.4	1.8	0.6	0.0	0.0	0.0	0.0
80°	7.7	14.9	3.0	1.8	1.8	0.6	0.0	0.0	0.0	0.0	0.0
82.5°	4.2	6.0	1.8	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.4	3.0	1.2	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	0.6	0.6	0.6	0.0	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)