

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: P631424

Luminaire Tested: GWS-SA1F-760-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631424
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7127.9 lumens
Efficiency: N/A
Efficacy: 106.1 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

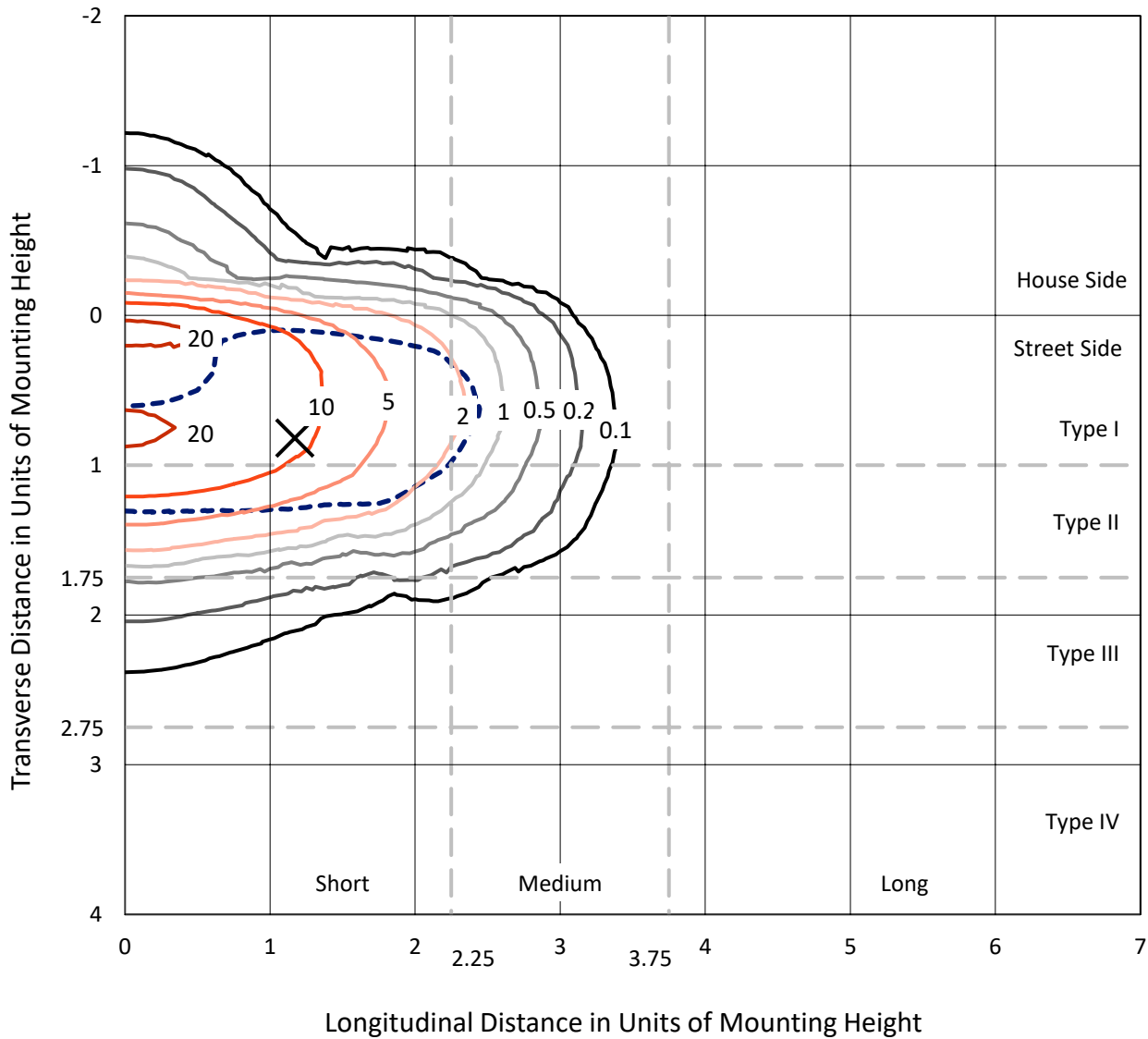
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

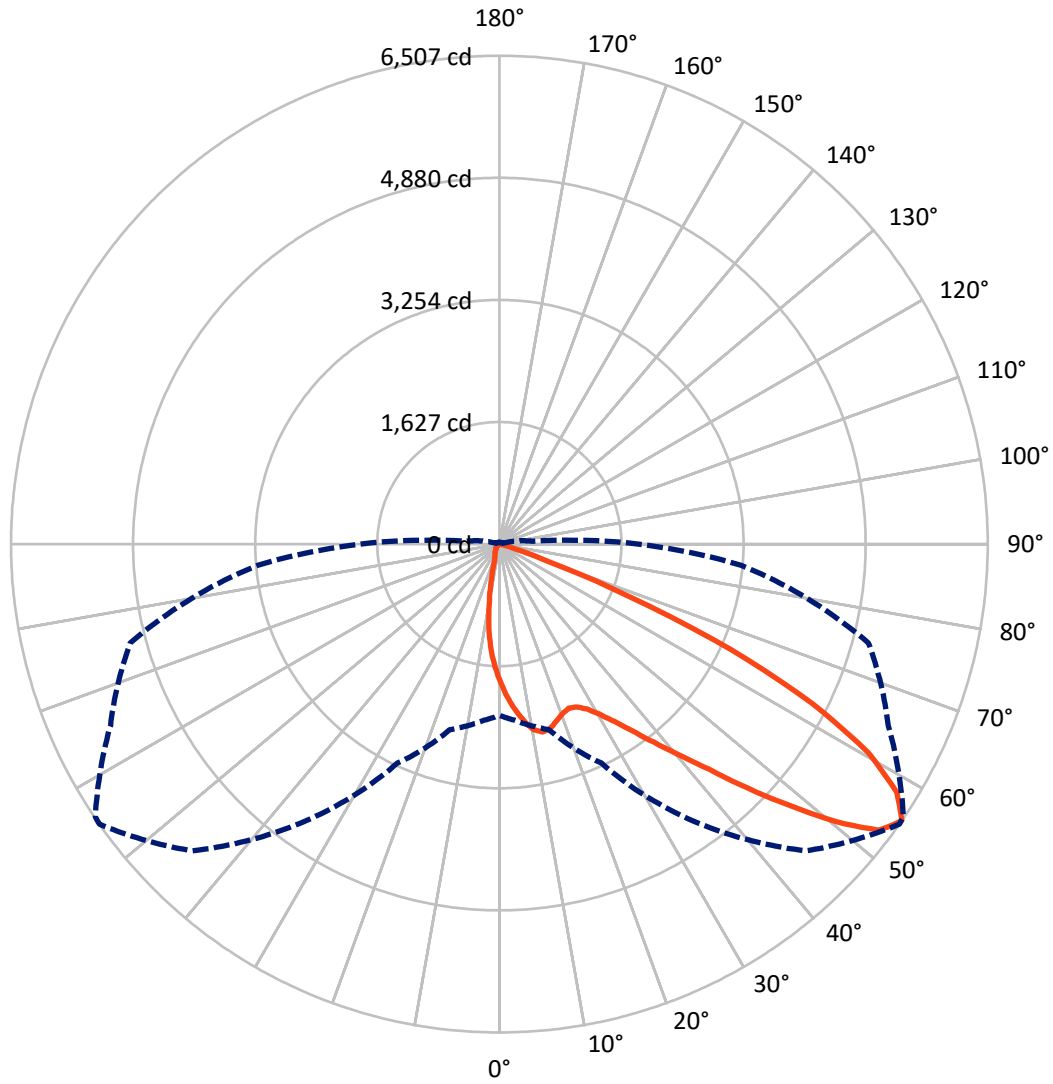
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.1 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	439.8	0.0	439.8
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	6688.1	0.0	6688.1
	% Fixture	93.8	0.0	93.8
Total	Lumens	7127.9	0.0	7127.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.7	2.3
10°-20°	392.3	5.5
20°-30°	653.4	9.2
30°-40°	1113.4	15.6
40°-50°	1817.5	25.5
50°-60°	1902.9	26.7
60°-70°	959.8	13.5
70°-80°	121.2	1.7
80°-90°	4.6	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°	7127.9	100.0
0°-180°	7127.9	100.0

Coefficient of Utilization



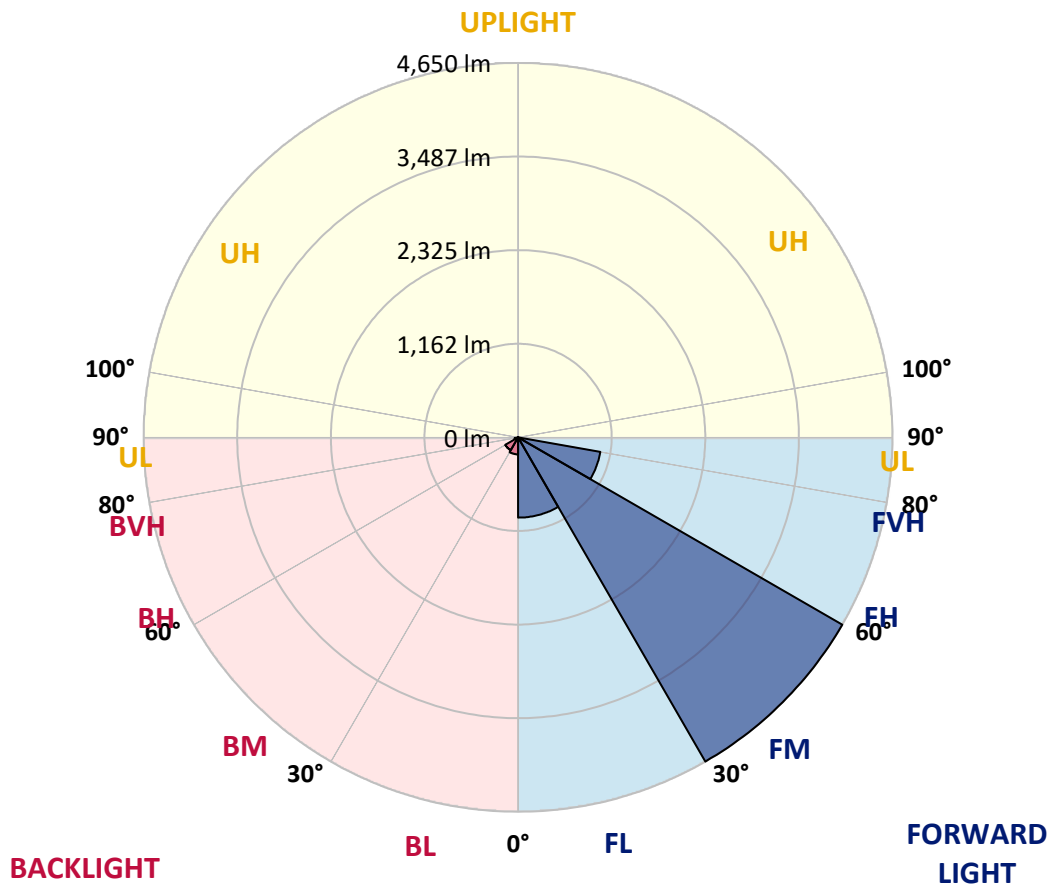
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	997.1	14.0			
FM (30°-60°)	4649.9	65.2			
FH (60°-80°)	1036.9	14.5			G1/1800
FVH (80°-90°)	4.2	0.1			G0/10
BL (0°-30°)	211.4	3.0	B1/500		
BM (30°-60°)	183.9	2.6	B0/220		
BH (60°-80°)	44.1	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°	1841.4	1841.4	1841.4	1841.4	1841.4	1841.4	1841.4	1841.4	1841.4	1841.4	1841.4
2.5°	2146.7	2136.4	2152.2	2133.9	2102.8	2076.6	2042.5	2030.3	1975.5	1923.7	1873.7
5°	2407.5	2410.6	2405.7	2380.1	2336.2	2287.5	2218.6	2203.4	2107.7	2009.0	1902.4
7.5°	2472.1	2470.3	2480.6	2490.4	2483.1	2458.7	2383.7	2368.5	2249.7	2101.6	1946.2
10°	2272.8	2274.1	2295.4	2361.2	2442.9	2527.6	2516.0	2507.4	2391.1	2206.4	1995.0
12.5°	1991.3	2002.3	2024.8	2118.7	2257.0	2449.6	2569.0	2577.5	2520.8	2321.6	2052.3
15°	1869.5	1871.9	1890.2	1946.8	2049.8	2287.5	2546.4	2570.2	2629.3	2437.4	2114.4
17.5°	1866.4	1869.5	1877.4	1902.4	1969.4	2160.1	2473.9	2515.4	2711.0	2561.7	2188.8
20°	1981.0	1979.1	1973.7	1960.3	1989.5	2118.1	2406.9	2452.6	2755.4	2682.9	2263.7
22.5°	2188.8	2186.3	2161.9	2106.5	2082.7	2156.5	2374.0	2415.4	2782.3	2790.8	2325.2
25°	2428.2	2445.3	2399.6	2315.5	2257.0	2254.6	2403.2	2432.5	2805.4	2886.5	2367.3
27.5°	2690.9	2696.3	2657.3	2562.9	2478.2	2411.8	2487.9	2509.9	2831.0	2971.8	2391.1
30°	2979.1	2977.2	2932.8	2823.1	2720.1	2624.4	2630.5	2639.1	2890.7	3069.3	2417.3
32.5°	3339.2	3347.1	3267.9	3118.6	2994.9	2862.7	2817.0	2818.2	2998.6	3194.8	2456.9
35°	3828.5	3809.0	3704.2	3491.5	3280.7	3138.1	3060.1	3053.4	3164.9	3363.6	2525.7
37.5°	4294.6	4296.5	4186.8	3952.8	3686.5	3461.7	3351.4	3333.1	3398.9	3597.6	2640.3
40°	4618.2	4624.3	4578.6	4456.1	4174.0	3855.9	3693.8	3674.9	3702.4	3893.7	2790.2
42.5°	4789.4	4806.5	4819.3	4847.9	4634.0	4348.3	4099.0	4097.2	4068.6	4231.3	2963.8
45°	4796.1	4821.7	4899.7	5095.3	5119.7	4910.1	4638.9	4598.1	4487.8	4592.6	3119.2
47.5°	4531.1	4590.2	4755.9	5143.5	5399.4	5468.8	5200.1	5175.1	4865.6	4878.4	3235.6
50°	3913.2	3974.7	4280.0	4896.7	5470.1	5912.4	5816.2	5764.4	5181.2	5067.3	3291.7
52.5°	3279.5	3335.5	3542.7	4309.3	5177.0	6052.0	6335.3	6273.8	5464.6	5133.1	3268.5
55°	2282.0	2356.9	2559.2	3221.0	4501.8	5780.2	6507.2	6494.4	5717.5	5091.7	3232.6
57.5°	1118.8	1193.1	1394.8	1985.8	3334.9	5046.6	6244.5	6312.2	5868.6	5047.2	3203.3
60°	467.4	497.8	567.3	871.4	1865.8	3813.9	5651.6	5745.5	5776.0	4986.9	3200.3
62.5°	271.2	276.0	283.3	361.3	725.7	2186.3	4688.3	4821.7	5289.1	4907.0	3152.1
65°	204.7	206.6	203.5	221.8	299.8	829.3	3387.3	3568.9	4414.7	4595.0	2962.0
67.5°	168.2	168.2	160.3	163.9	188.3	310.8	1870.1	2123.6	3266.7	3776.7	2445.9
70°	134.1	137.1	133.4	128.6	134.7	171.8	665.4	825.0	1902.4	2230.2	1426.5
72.5°	101.8	101.8	107.9	104.2	99.9	107.9	232.2	260.8	763.5	929.9	514.9
75°	78.6	81.0	85.3	81.7	75.6	64.0	111.5	118.2	230.3	216.3	115.2
77.5°	40.2	40.8	54.2	59.7	56.1	39.0	48.7	53.6	74.9	67.0	42.7
80°	24.4	25.6	30.5	46.9	37.2	20.7	20.1	21.3	35.3	30.5	17.7
82.5°	10.4	11.0	17.1	17.1	15.2	7.9	7.9	7.9	17.1	15.8	7.3
85°	0.0	0.0	3.0	2.4	2.4	3.0	3.0	3.0	4.3	6.1	3.7
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°	1841.4	1841.4	1841.4	1841.4	1841.4	1841.4	1841.4	1841.4	1841.4	1841.4	1841.4
2.5°	1841.4	1802.4	1750.0	1702.5	1638.5	1602.6	1552.6	1511.8	1477.0	1466.1	1461.2
5°	1842.0	1775.0	1662.9	1550.8	1413.1	1304.6	1193.1	1104.7	1032.2	1009.1	1003.0
7.5°	1854.2	1755.5	1573.9	1370.4	1140.1	950.0	780.0	627.6	556.9	533.2	528.3
10°	1870.7	1739.1	1471.0	1154.1	823.2	578.9	410.1	312.6	266.3	240.7	244.3
12.5°	1892.0	1725.7	1357.0	920.1	544.8	318.1	225.5	188.9	179.1	174.3	171.8
15°	1920.6	1709.8	1215.6	687.9	333.9	204.7	173.7	163.9	160.3	157.8	157.2
17.5°	1949.9	1691.5	1071.8	483.8	221.8	170.0	156.0	151.1	148.7	146.9	146.2
20°	1981.0	1660.5	903.0	333.3	174.9	152.9	143.8	138.3	135.3	132.2	131.6
22.5°	1994.4	1610.5	741.6	233.4	155.4	140.8	129.2	122.5	118.8	116.4	116.4
25°	1981.6	1529.4	574.6	177.3	141.4	127.4	115.8	108.5	105.4	103.0	103.0
27.5°	1947.5	1425.3	419.2	146.9	126.1	113.3	102.4	95.7	93.2	92.0	92.0
30°	1909.7	1293.6	295.5	126.1	109.1	98.7	89.6	85.3	84.7	83.5	83.5
32.5°	1877.4	1170.5	203.5	110.9	96.3	85.9	79.8	78.0	78.6	77.4	78.0
35°	1859.7	1049.9	151.1	98.7	85.9	76.2	73.1	73.1	73.1	72.5	72.5
37.5°	1867.0	931.1	123.1	90.2	76.8	69.5	66.4	67.6	68.9	68.9	68.9
40°	1903.6	825.7	109.1	82.3	68.9	63.4	60.9	62.8	64.6	65.8	65.8
42.5°	1949.9	740.4	98.7	75.6	63.4	57.3	56.1	57.9	59.7	60.9	60.9
45°	1979.1	654.4	88.4	67.0	57.9	50.6	50.6	53.0	52.4	53.0	53.0
47.5°	1992.5	586.2	78.0	57.9	49.4	43.9	44.5	45.7	44.5	45.7	45.7
50°	1959.6	517.3	68.9	48.1	40.8	38.4	39.6	39.0	39.0	41.4	41.4
52.5°	1899.3	466.1	60.9	40.8	34.7	34.1	35.3	32.9	33.5	33.5	32.9
55°	1854.8	436.9	54.2	35.3	29.9	30.5	29.9	25.6	23.2	20.7	20.1
57.5°	1832.9	425.3	49.4	31.7	26.8	26.8	24.4	17.7	13.4	10.4	9.1
60°	1828.0	411.3	44.5	27.4	23.8	22.5	17.7	10.4	6.7	4.9	4.3
62.5°	1781.7	377.2	40.2	21.9	20.7	18.3	11.0	6.1	3.7	2.4	1.8
65°	1630.0	310.2	36.0	17.1	15.8	13.4	6.7	3.7	1.8	0.6	0.0
67.5°	1296.7	220.0	31.7	12.8	11.0	8.5	4.3	2.4	0.6	0.0	0.0
70°	747.7	118.8	26.2	9.1	7.3	5.5	3.0	1.2	0.0	0.0	0.0
72.5°	249.8	55.5	20.1	6.1	5.5	4.3	1.8	0.6	0.0	0.0	0.0
75°	54.8	32.9	13.4	4.3	3.7	3.0	1.2	0.0	0.0	0.0	0.0
77.5°	20.7	23.2	6.7	3.0	2.4	1.8	0.6	0.0	0.0	0.0	0.0
80°	7.9	15.2	3.0	1.8	1.8	0.6	0.0	0.0	0.0	0.0	0.0
82.5°	4.3	6.1	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)