

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: P631369

Luminaire Tested: GWS-SA1F-750-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631369
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7227 lumens
Efficiency: N/A
Efficacy: 107.5 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

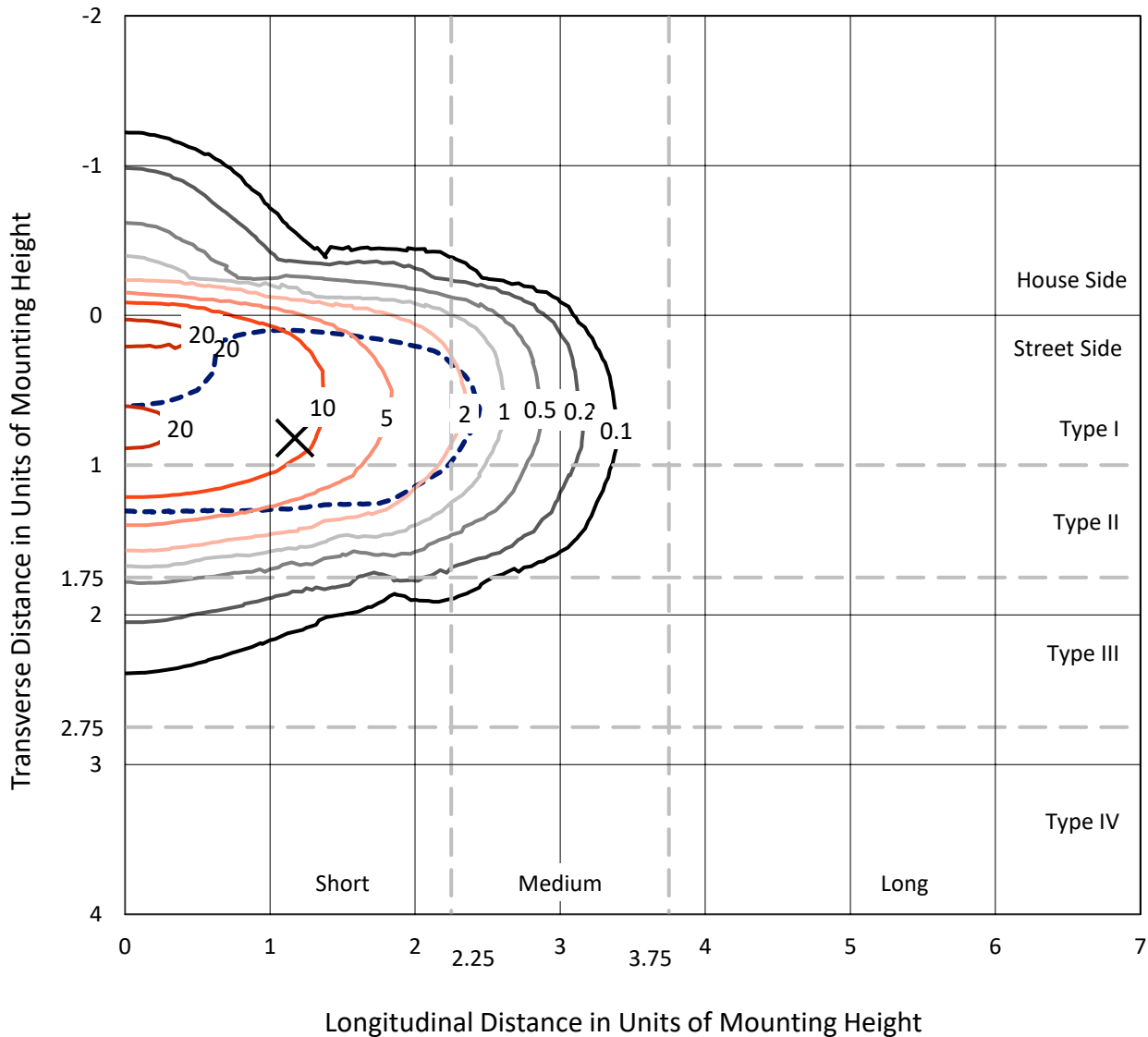
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

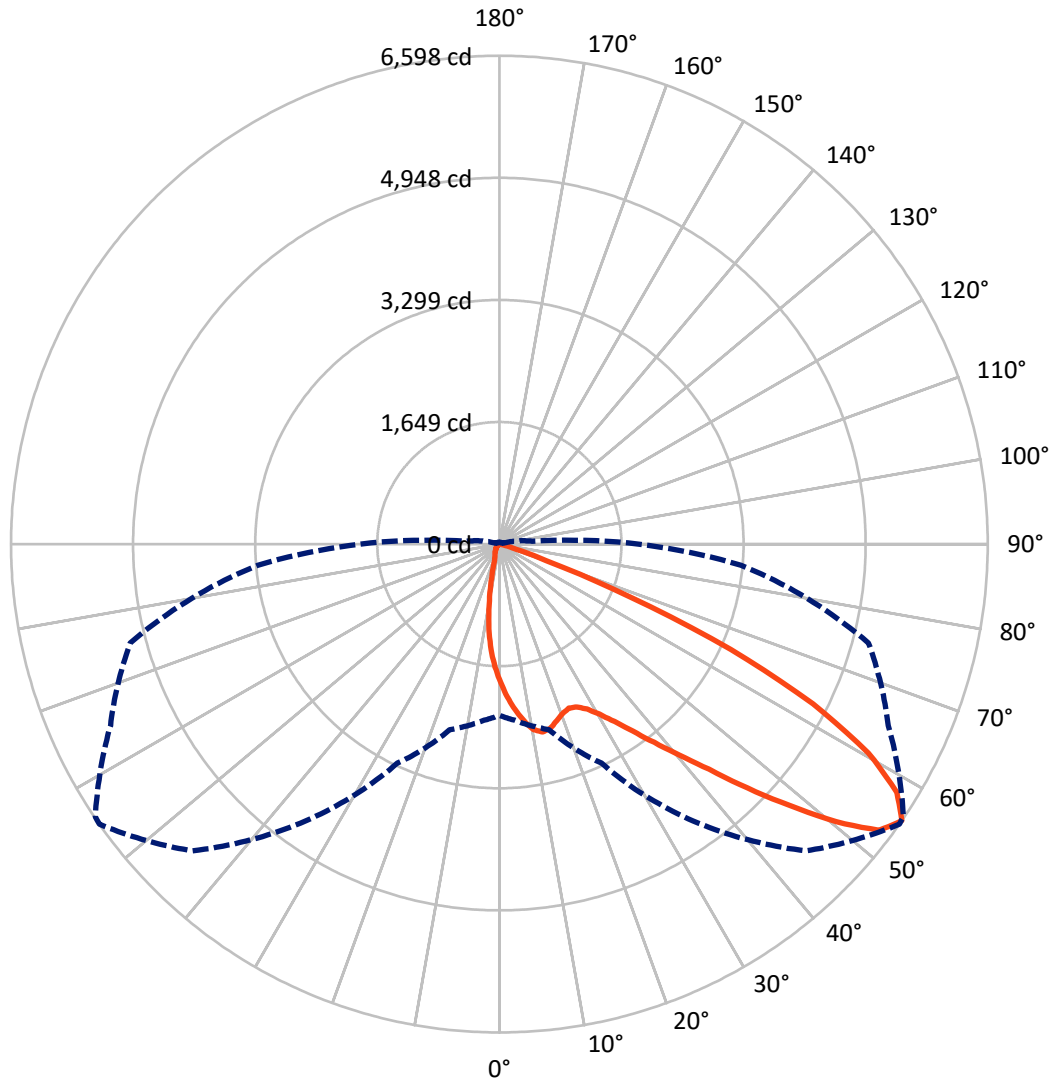
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.5 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	445.9	0.0	445.9
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	6781.1	0.0	6781.1
	% Fixture	93.8	0.0	93.8
Total	Lumens	7227.0	0.0	7227.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.0	2.3
10°-20°	397.8	5.5
20°-30°	662.5	9.2
30°-40°	1128.9	15.6
40°-50°	1842.8	25.5
50°-60°	1929.3	26.7
60°-70°	973.1	13.5
70°-80°	122.9	1.7
80°-90°	4.7	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°	7227.0	100.0
0°-180°	7227.0	100.0

Coefficient of Utilization



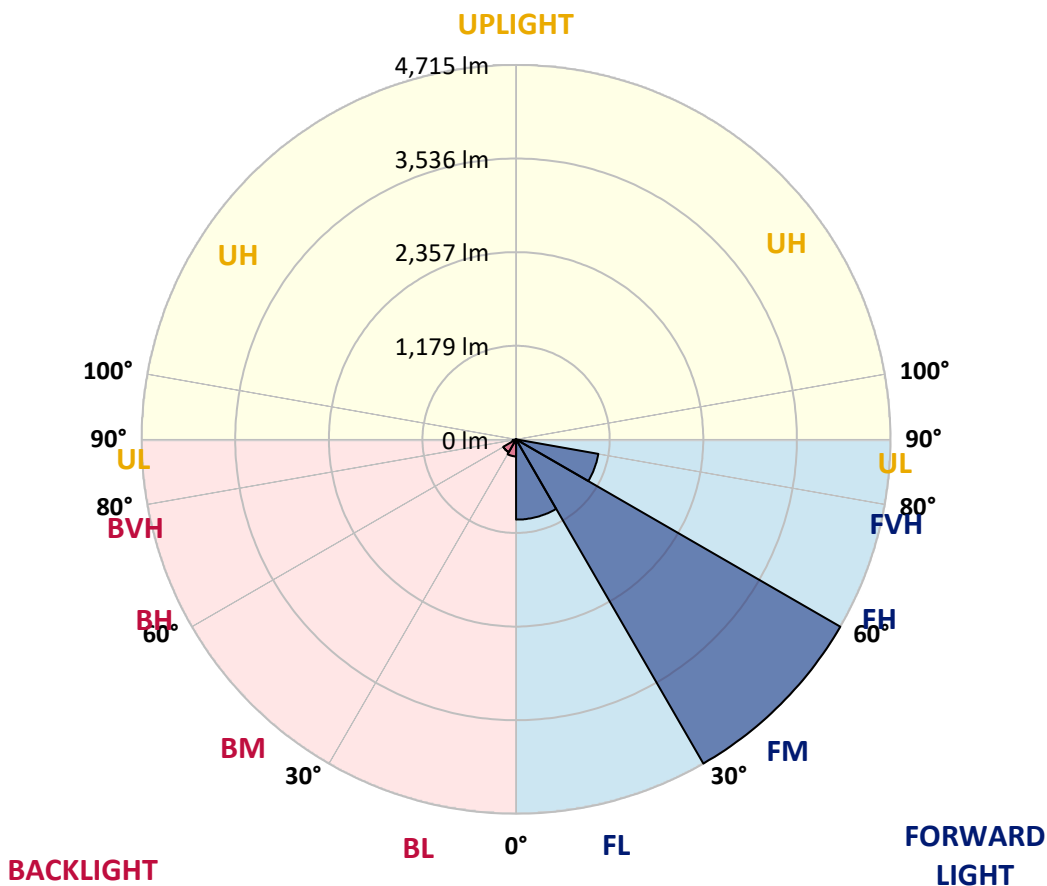
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1011.0	14.0			
FM (30°-60°)	4714.6	65.2			
FH (60°-80°)	1051.3	14.5			G1/1800
FVH (80°-90°)	4.2	0.1			G0/10
BL (0°-30°)	214.3	3.0	B1/500		
BM (30°-60°)	186.4	2.6	B0/220		
BH (60°-80°)	44.7	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°	1867.0	1867.0	1867.0	1867.0	1867.0	1867.0	1867.0	1867.0	1867.0	1867.0	1867.0
2.5°	2176.6	2166.1	2182.1	2163.6	2132.1	2105.5	2070.9	2058.6	2003.0	1950.4	1899.8
5°	2441.0	2444.1	2439.1	2413.2	2368.7	2319.3	2249.5	2234.0	2137.0	2036.9	1928.8
7.5°	2506.5	2504.6	2515.1	2525.0	2517.6	2492.9	2416.9	2401.4	2281.0	2130.8	1973.3
10°	2304.4	2305.7	2327.3	2394.0	2476.8	2562.7	2551.0	2542.3	2424.3	2237.1	2022.7
12.5°	2019.0	2030.1	2053.0	2148.1	2288.4	2483.6	2604.7	2613.4	2555.9	2353.9	2080.8
15°	1895.5	1897.9	1916.5	1973.9	2078.3	2319.3	2581.8	2605.9	2665.9	2471.3	2143.8
17.5°	1892.4	1895.5	1903.5	1928.8	1996.8	2190.2	2508.3	2550.3	2748.7	2597.3	2219.2
20°	2008.5	2006.7	2001.1	1987.5	2017.2	2147.5	2440.4	2486.7	2793.8	2720.2	2295.2
22.5°	2219.2	2216.7	2192.0	2135.8	2111.7	2186.4	2407.0	2449.0	2820.9	2829.6	2357.6
25°	2462.0	2479.3	2433.0	2347.7	2288.4	2285.9	2436.7	2466.3	2844.4	2926.6	2400.2
27.5°	2728.3	2733.8	2694.3	2598.5	2512.6	2445.3	2522.5	2544.8	2870.4	3013.1	2424.3
30°	3020.5	3018.6	2973.5	2862.3	2757.9	2660.9	2667.1	2675.8	2930.9	3111.9	2450.9
32.5°	3385.6	3393.7	3313.3	3162.0	3036.6	2902.5	2856.2	2857.4	3040.3	3239.2	2491.0
35°	3881.7	3862.0	3755.7	3540.1	3326.3	3181.7	3102.7	3095.9	3208.9	3410.3	2560.8
37.5°	4354.4	4356.2	4245.0	4007.8	3737.8	3509.8	3398.0	3379.4	3446.2	3647.6	2677.0
40°	4682.4	4688.6	4642.3	4518.1	4232.0	3909.5	3745.2	3726.0	3753.8	3947.8	2829.0
42.5°	4856.0	4873.3	4886.3	4915.3	4698.5	4408.7	4156.0	4154.2	4125.1	4290.1	3005.0
45°	4862.8	4888.8	4967.8	5166.2	5190.9	4978.3	4703.4	4662.0	4550.2	4656.5	3162.6
47.5°	4594.1	4654.0	4822.0	5215.0	5474.4	5544.9	5272.4	5247.1	4933.2	4946.2	3280.6
50°	3967.6	4030.0	4339.5	4964.8	5546.1	5994.6	5897.0	5844.5	5253.3	5137.7	3337.4
52.5°	3325.1	3381.9	3592.0	4369.2	5248.9	6136.1	6423.4	6361.0	5540.6	5204.5	3314.0
55°	2313.7	2389.7	2594.8	3265.8	4564.4	5860.6	6597.6	6584.7	5796.9	5162.5	3277.5
57.5°	1134.3	1209.7	1414.2	2013.5	3381.3	5116.7	6331.4	6399.9	5950.2	5117.4	3247.8
60°	473.9	504.8	575.2	883.5	1891.7	3866.9	5730.2	5825.4	5856.3	5056.2	3244.8
62.5°	274.9	279.9	287.3	366.4	735.8	2216.7	4753.5	4888.8	5362.6	4975.3	3196.0
65°	207.6	209.4	206.3	224.9	304.0	840.8	3434.4	3618.5	4476.1	4658.9	3003.2
67.5°	170.5	170.5	162.5	166.2	190.9	315.1	1896.1	2153.1	3312.1	3829.2	2479.9
70°	135.9	139.0	135.3	130.4	136.5	174.2	674.7	836.5	1928.8	2261.2	1446.3
72.5°	103.2	103.2	109.4	105.6	101.3	109.4	235.4	264.4	774.1	942.8	522.1
75°	79.7	82.2	86.5	82.8	76.6	64.9	113.1	119.9	233.5	219.3	116.8
77.5°	40.8	41.4	55.0	60.5	56.8	39.5	49.4	54.4	76.0	68.0	43.2
80°	24.7	25.9	30.9	47.6	37.7	21.0	20.4	21.6	35.8	30.9	17.9
82.5°	10.5	11.1	17.3	17.3	15.4	8.0	8.0	8.0	17.3	16.1	7.4
85°	0.0	0.0	3.1	2.5	2.5	3.1	3.1	3.1	4.3	6.2	3.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.9	1.9
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°	1867.0	1867.0	1867.0	1867.0	1867.0	1867.0	1867.0	1867.0	1867.0	1867.0	1867.0
2.5°	1867.0	1827.5	1774.4	1726.2	1661.3	1624.9	1574.2	1532.8	1497.6	1486.5	1481.5
5°	1867.7	1799.7	1686.0	1572.3	1432.7	1322.7	1209.7	1120.1	1046.6	1023.1	1016.9
7.5°	1880.0	1779.9	1595.8	1389.5	1155.9	963.2	790.8	636.3	564.7	540.6	535.6
10°	1896.7	1763.2	1491.4	1170.1	834.7	586.9	415.8	316.9	270.0	244.0	247.7
12.5°	1918.3	1749.6	1375.9	932.9	552.3	322.5	228.6	191.5	181.6	176.7	174.2
15°	1947.3	1733.6	1232.5	697.5	338.6	207.6	176.1	166.2	162.5	160.0	159.4
17.5°	1977.0	1715.1	1086.7	490.5	224.9	172.4	158.2	153.2	150.7	148.9	148.3
20°	2008.5	1683.5	915.6	337.9	177.3	155.1	145.8	140.2	137.2	134.1	133.4
22.5°	2022.1	1632.9	751.9	236.6	157.5	142.7	131.0	124.2	120.5	118.0	118.0
25°	2009.1	1550.7	582.6	179.8	143.3	129.1	117.4	110.0	106.9	104.4	104.4
27.5°	1974.5	1445.1	425.1	148.9	127.9	114.9	103.8	97.0	94.5	93.3	93.3
30°	1936.2	1311.6	299.6	127.9	110.6	100.1	90.8	86.5	85.9	84.6	84.6
32.5°	1903.5	1186.8	206.3	112.4	97.6	87.1	80.9	79.1	79.7	78.5	79.1
35°	1885.6	1064.5	153.2	100.1	87.1	77.2	74.1	74.1	74.1	73.5	73.5
37.5°	1893.0	944.0	124.8	91.4	77.8	70.4	67.3	68.6	69.8	69.8	69.8
40°	1930.1	837.1	110.6	83.4	69.8	64.3	61.8	63.6	65.5	66.7	66.7
42.5°	1977.0	750.6	100.1	76.6	64.3	58.1	56.8	58.7	60.5	61.8	61.8
45°	2006.7	663.5	89.6	68.0	58.7	51.3	51.3	53.7	53.1	53.7	53.7
47.5°	2020.3	594.3	79.1	58.7	50.0	44.5	45.1	46.3	45.1	46.3	46.3
50°	1986.9	524.5	69.8	48.8	41.4	38.9	40.2	39.5	39.5	42.0	42.0
52.5°	1925.7	472.6	61.8	41.4	35.2	34.6	35.8	33.4	34.0	34.0	33.4
55°	1880.6	443.0	55.0	35.8	30.3	30.9	30.3	25.9	23.5	21.0	20.4
57.5°	1858.4	431.2	50.0	32.1	27.2	27.2	24.7	17.9	13.6	10.5	9.3
60°	1853.4	417.0	45.1	27.8	24.1	22.9	17.9	10.5	6.8	4.9	4.3
62.5°	1806.5	382.4	40.8	22.2	21.0	18.5	11.1	6.2	3.7	2.5	1.9
65°	1652.7	314.5	36.5	17.3	16.1	13.6	6.8	3.7	1.9	0.6	0.0
67.5°	1314.7	223.0	32.1	13.0	11.1	8.6	4.3	2.5	0.6	0.0	0.0
70°	758.1	120.5	26.6	9.3	7.4	5.6	3.1	1.2	0.0	0.0	0.0
72.5°	253.3	56.2	20.4	6.2	5.6	4.3	1.9	0.6	0.0	0.0	0.0
75°	55.6	33.4	13.6	4.3	3.7	3.1	1.2	0.0	0.0	0.0	0.0
77.5°	21.0	23.5	6.8	3.1	2.5	1.9	0.6	0.0	0.0	0.0	0.0
80°	8.0	15.4	3.1	1.9	1.9	0.6	0.0	0.0	0.0	0.0	0.0
82.5°	4.3	6.2	1.9	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.5	3.1	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)