

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: P630817

Luminaire Tested: GWS-SA1E-740-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630817
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1E-740-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5707 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

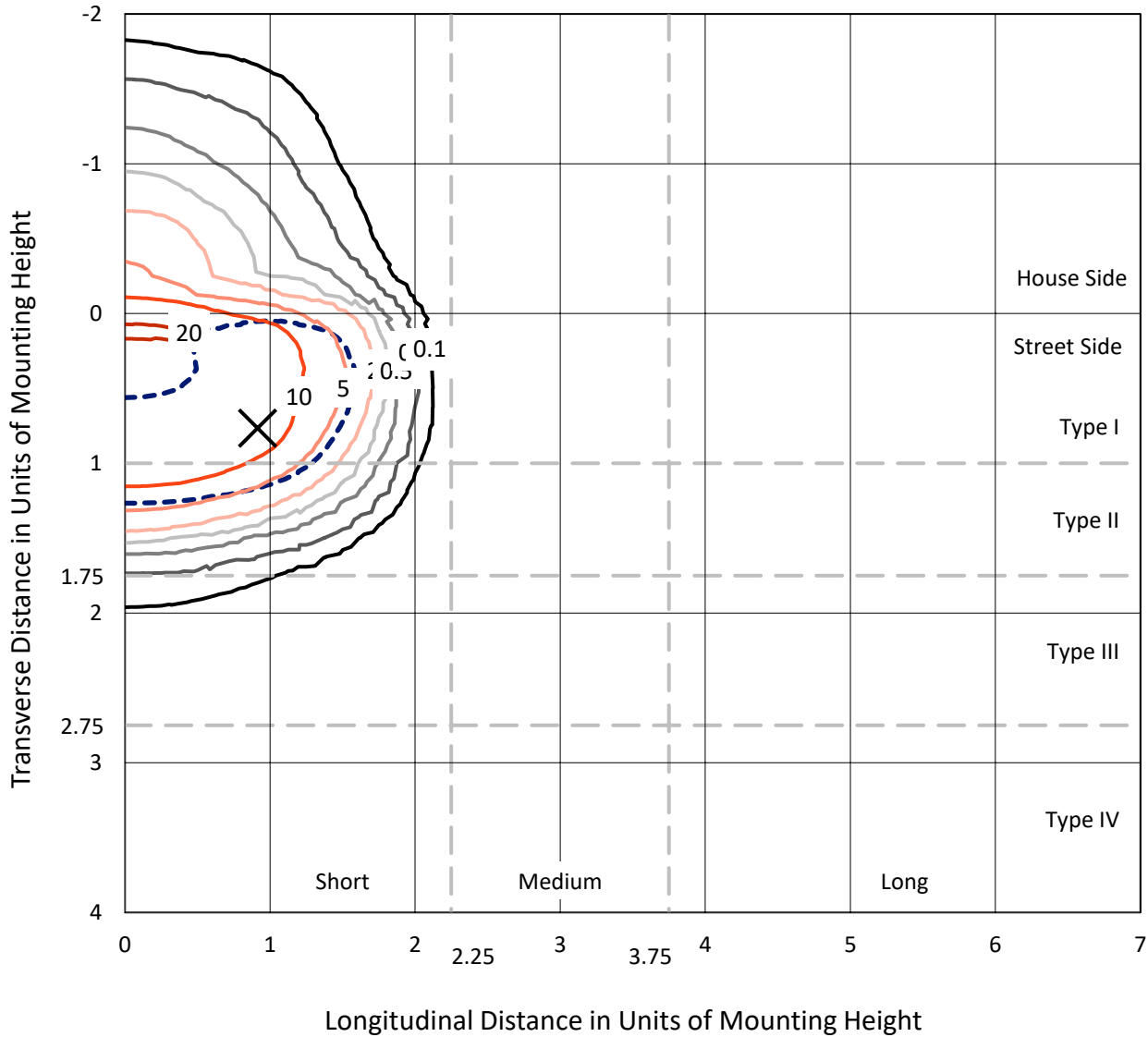
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

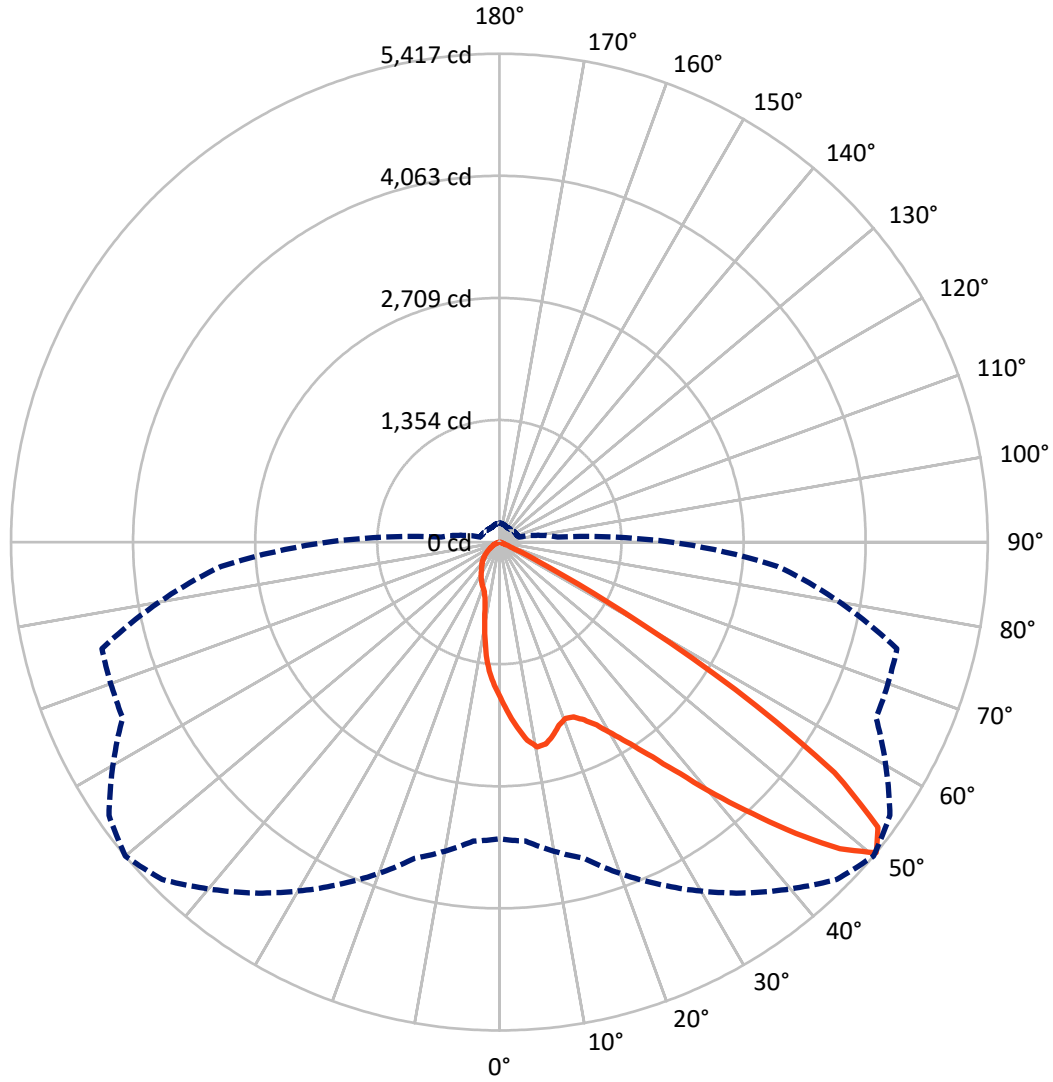
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	733.3	0.0	733.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	4973.7	0.0	4973.7
	% Fixture	87.2	0.0	87.2
Total	Lumens	5707.0	0.0	5707.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.4	2.8
10°-20°	413.8	7.3
20°-30°	683.0	12.0
30°-40°	1127.0	19.7
40°-50°	1783.2	31.2
50°-60°	1350.1	23.7
60°-70°	169.0	3.0
70°-80°	19.1	0.3
80°-90°	1.5	0.0
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°	5707.0	100.0
0°-180°	5707.0	100.0

Coefficient of Utilization



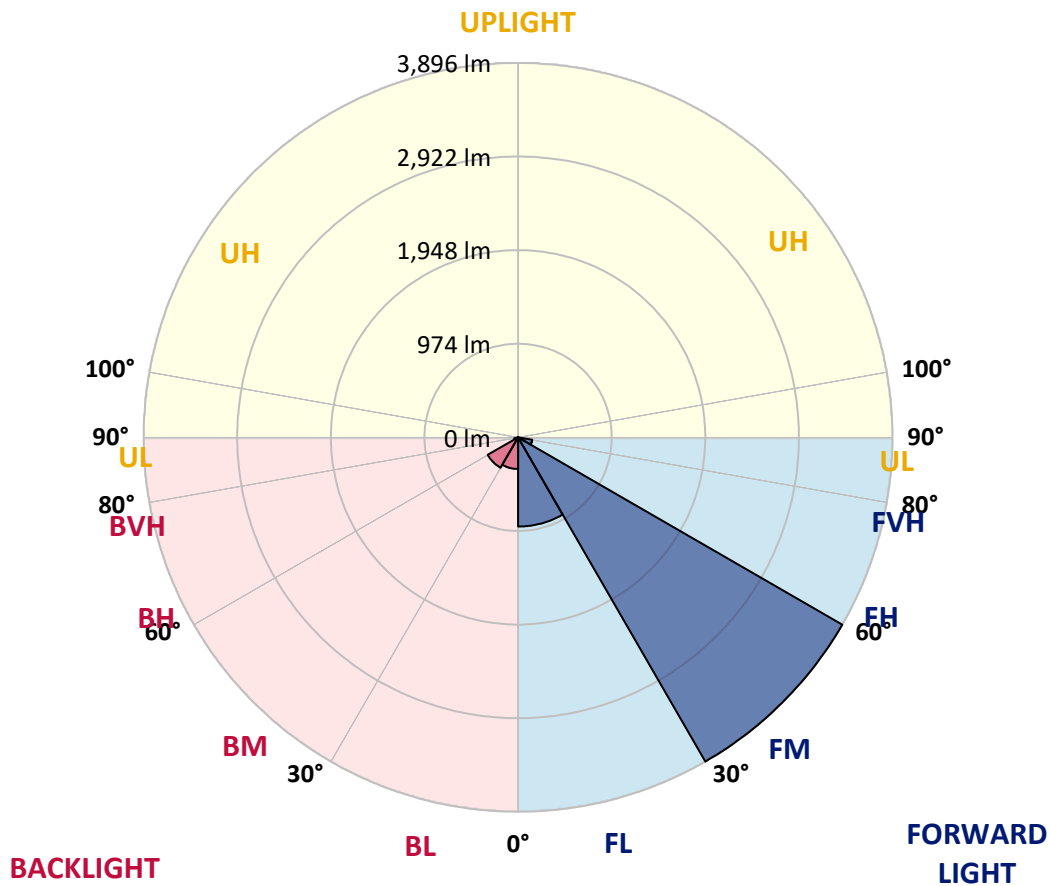
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	928.0	16.3			
FM (30°-60°)	3895.6	68.3			
FH (60°-80°)	149.4	2.6			G0/660
FVH (80°-90°)	0.7	0.0			G0/10
BL (0°-30°)	329.1	5.8	B1/500		
BM (30°-60°)	364.7	6.4	B1/1000		
BH (60°-80°)	38.7	0.7	B0/110		G0/110
BVH (80°-90°)	0.8	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-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	1729.0	1729.0	1729.0	1729.0	1729.0	1729.0	1729.0	1729.0	1729.0	1729.0	1729.0
2.5°	1970.2	1985.9	1981.6	1960.9	1938.7	1922.9	1898.5	1890.9	1835.5	1796.9	1756.2
5°	2208.1	2213.0	2207.6	2182.6	2143.5	2106.0	2065.8	2042.4	1949.5	1865.9	1780.6
7.5°	2265.1	2259.2	2269.5	2282.0	2276.5	2260.2	2217.9	2192.3	2081.5	1945.2	1815.9
10°	2087.0	2073.4	2111.9	2176.6	2244.5	2321.1	2310.2	2312.4	2210.3	2045.1	1862.1
12.5°	1850.7	1845.2	1874.0	1949.0	2082.1	2255.9	2297.7	2367.8	2328.1	2153.2	1914.8
15°	1746.9	1749.6	1767.0	1814.3	1909.9	2126.1	2226.6	2353.1	2433.5	2258.1	1972.9
17.5°	1762.7	1772.4	1771.9	1787.7	1845.8	2019.1	2136.4	2307.0	2515.0	2378.7	2039.7
20°	1869.7	1879.5	1864.8	1852.8	1872.4	1991.9	2089.1	2260.2	2569.9	2500.3	2110.3
22.5°	2029.9	2041.3	2006.6	1972.3	1959.9	2036.4	2107.1	2241.2	2611.7	2611.7	2173.3
25°	2223.8	2239.6	2185.8	2125.0	2090.2	2130.4	2183.6	2284.1	2654.6	2711.6	2216.2
27.5°	2440.6	2441.1	2395.0	2326.5	2261.3	2266.2	2298.3	2380.8	2701.9	2819.2	2249.9
30°	2684.5	2686.1	2624.7	2542.7	2460.7	2438.4	2465.6	2528.0	2800.2	2954.4	2296.6
32.5°	2999.5	3007.1	2919.1	2798.5	2692.1	2650.3	2666.0	2731.7	2956.6	3123.9	2366.7
35°	3425.4	3433.5	3303.7	3144.6	2975.1	2912.1	2927.8	2994.1	3183.1	3364.6	2478.6
37.5°	3845.8	3856.7	3725.2	3576.9	3344.5	3240.2	3256.5	3319.5	3523.2	3697.0	2657.9
40°	4136.4	4151.1	4110.4	4010.4	3794.8	3657.9	3677.4	3700.3	3897.4	4094.6	2890.3
42.5°	4289.6	4310.3	4327.6	4378.7	4265.2	4150.6	4117.4	4119.1	4278.2	4499.8	3132.1
45°	4298.9	4319.0	4408.0	4605.2	4691.6	4667.7	4607.4	4566.7	4568.8	4769.8	3283.1
47.5°	4000.1	4037.6	4204.3	4590.6	4915.4	5113.7	5083.2	4986.5	4691.0	4787.7	3266.8
50°	3292.3	3329.3	3632.4	4188.0	4752.4	5291.8	5417.3	5287.5	4611.2	4564.5	3098.9
52.5°	2391.2	2395.0	2591.6	3240.7	4091.9	4963.2	5258.7	5246.2	4489.5	4294.0	2869.7
55°	1135.8	1122.2	1343.3	1828.9	2830.1	4014.2	4512.3	4653.6	4316.8	4098.4	2692.1
57.5°	330.8	337.3	435.6	713.8	1415.6	2565.5	3090.2	3353.2	3543.3	3369.4	2088.0
60°	148.3	148.8	165.7	217.3	471.5	1193.4	1597.5	1922.9	2118.5	1963.1	1035.9
62.5°	107.6	108.1	114.6	122.8	160.2	404.1	599.1	798.5	813.2	532.3	262.4
65°	89.6	89.6	90.7	90.7	96.1	144.5	182.0	234.7	197.7	146.7	102.7
67.5°	72.2	72.8	73.9	73.9	72.2	72.2	78.2	85.8	91.8	113.5	94.5
70°	56.5	55.9	55.9	56.5	54.9	46.7	50.5	57.6	63.0	88.5	82.0
72.5°	44.0	44.5	44.0	41.8	38.0	27.7	29.9	37.5	40.2	55.4	55.4
75°	33.1	33.7	31.5	23.9	15.8	8.7	11.4	18.5	23.4	27.2	20.1
77.5°	4.3	4.3	3.3	3.3	2.7	3.3	3.3	4.3	6.5	6.5	4.9
80°	0.5	0.5	0.5	1.1	1.6	2.2	2.2	2.2	2.2	2.7	2.7
82.5°	0.5	0.5	0.5	0.5	1.6	1.6	2.2	2.2	2.2	2.2	2.2
85°	0.0	0.0	0.0	0.5	1.1	1.6	1.6	2.2	2.2	2.2	2.2
87.5°	0.0	0.0	0.0	0.5	1.1	1.6	1.6	1.6	2.2	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°	1729.0	1729.0	1729.0	1729.0	1729.0	1729.0	1729.0	1729.0	1729.0	1729.0	1729.0
2.5°	1731.7	1700.2	1662.2	1636.1	1599.2	1574.7	1540.0	1516.6	1496.5	1480.8	1489.4
5°	1732.3	1682.3	1604.6	1538.3	1466.1	1399.8	1328.7	1272.7	1222.2	1199.4	1211.9
7.5°	1743.1	1671.4	1552.5	1434.6	1296.1	1159.2	1031.0	926.7	875.1	850.6	858.3
10°	1764.3	1666.5	1494.3	1298.8	1073.9	887.0	762.6	692.0	663.2	648.0	650.7
12.5°	1783.9	1663.3	1418.8	1120.1	847.4	688.2	623.6	613.8	619.8	620.3	619.8
15°	1810.5	1657.3	1325.4	936.5	677.9	594.8	596.4	610.6	624.7	629.0	627.9
17.5°	1838.7	1648.1	1204.8	760.5	575.2	567.6	586.7	605.7	619.8	622.0	622.5
20°	1868.1	1629.0	1067.4	620.9	527.4	547.0	568.2	582.3	592.6	595.9	597.0
22.5°	1881.6	1588.8	908.8	520.9	495.4	521.5	537.2	555.7	558.9	547.0	549.2
25°	1874.6	1520.9	754.0	453.6	463.3	489.4	512.8	503.5	490.0	481.3	484.0
27.5°	1852.3	1430.8	602.4	404.1	429.1	462.3	465.0	454.7	452.5	445.4	447.6
30°	1828.4	1327.0	484.5	364.5	394.4	429.1	421.0	424.8	425.3	417.2	419.9
32.5°	1813.7	1218.4	385.7	337.9	372.1	378.6	394.9	402.5	403.1	384.0	387.3
35°	1818.6	1111.4	326.5	316.1	351.4	349.8	372.6	377.0	345.5	319.4	322.1
37.5°	1858.3	1012.5	292.8	299.3	315.6	328.1	345.5	316.7	309.6	297.7	299.3
40°	1932.1	928.3	272.7	289.0	291.2	311.3	284.6	288.4	289.0	281.4	283.0
42.5°	2018.5	858.3	260.7	283.0	277.6	280.8	254.2	261.8	270.0	266.7	267.3
45°	2062.0	789.8	250.4	262.4	264.0	233.0	227.1	235.2	245.5	247.2	247.7
47.5°	2023.4	724.6	239.5	232.5	243.4	212.4	205.3	208.0	220.0	226.5	227.6
50°	1905.5	649.7	223.3	205.9	199.9	190.7	184.1	184.7	198.3	209.7	211.8
52.5°	1739.9	571.4	196.6	174.4	160.8	167.8	169.5	166.2	178.7	190.1	192.3
55°	1579.1	473.7	155.9	141.8	129.3	144.5	148.8	144.5	148.3	155.9	156.4
57.5°	1111.9	267.8	119.5	117.3	107.0	123.8	130.9	124.4	117.9	122.8	123.8
60°	515.5	140.1	91.8	91.8	89.1	106.5	118.4	109.2	96.7	98.9	100.5
62.5°	161.3	88.5	67.4	63.6	72.8	90.7	100.5	91.3	76.6	76.6	78.8
65°	91.3	76.0	53.2	48.9	59.2	72.8	78.8	69.0	55.9	54.9	54.9
67.5°	84.7	72.2	47.3	39.7	41.8	46.7	48.9	42.4	38.6	38.0	38.6
70°	70.1	60.3	38.0	27.2	25.5	25.0	26.1	24.4	23.4	23.9	25.5
72.5°	43.5	36.4	23.9	16.3	14.1	13.6	13.6	13.6	13.0	13.0	13.0
75°	15.8	13.6	10.9	8.1	7.1	6.5	6.5	7.1	6.5	6.0	5.4
77.5°	4.9	4.3	4.3	4.3	3.8	3.3	2.7	2.7	2.2	1.6	1.6
80°	2.7	2.7	2.7	2.7	2.2	2.2	1.6	1.1	0.5	0.5	0.0
82.5°	2.7	2.7	2.7	2.2	2.2	2.2	1.6	1.1	0.5	0.0	0.0
85°	2.2	2.2	2.2	2.2	2.2	2.2	1.6	1.1	0.5	0.0	0.0
87.5°	2.2	2.2	2.2	2.2	2.2	2.2	1.6	1.1	0.5	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)