

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: P636575

Luminaire Tested: GWS-SA4B-722-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636575
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-722-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6686.9 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

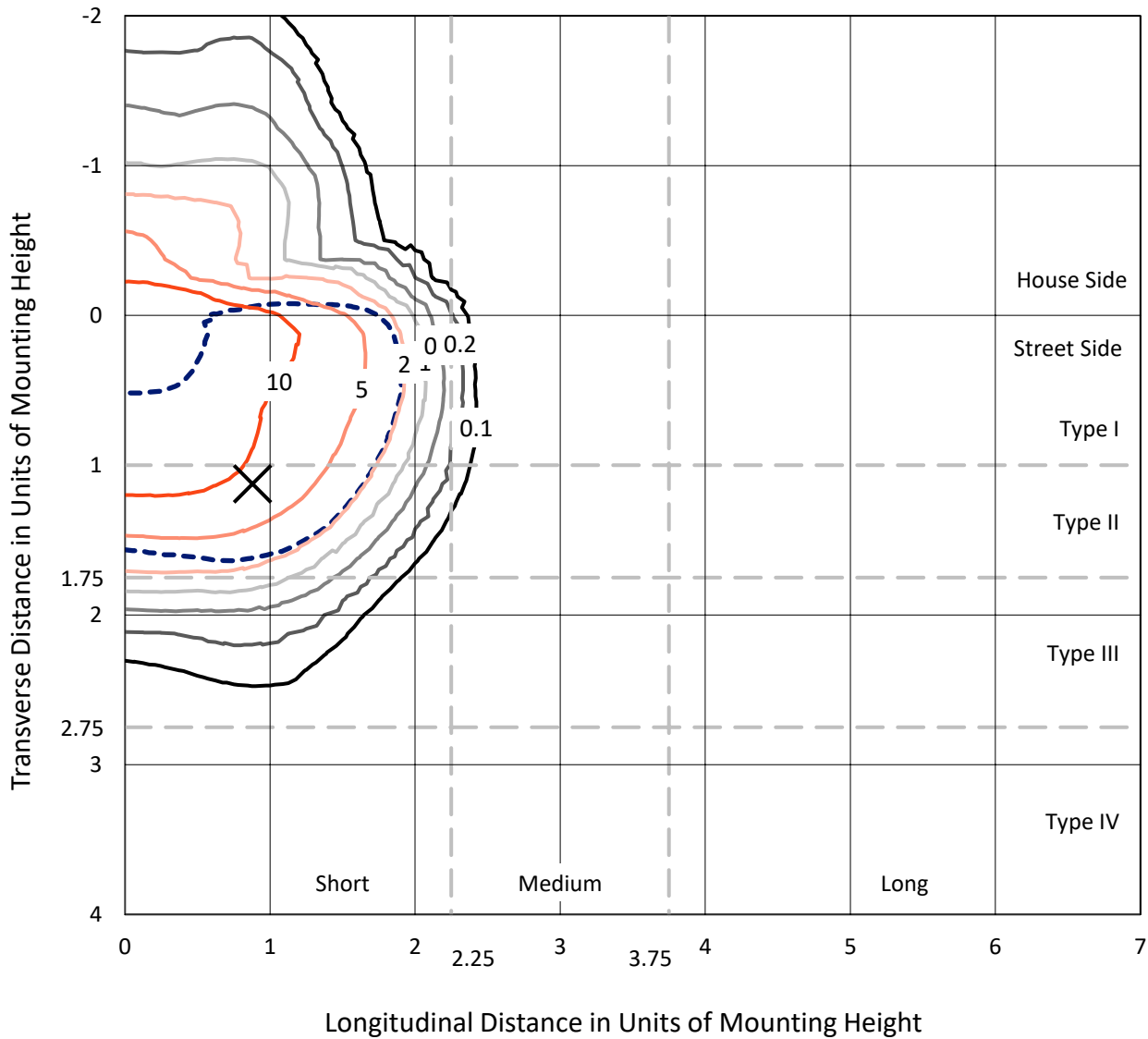
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

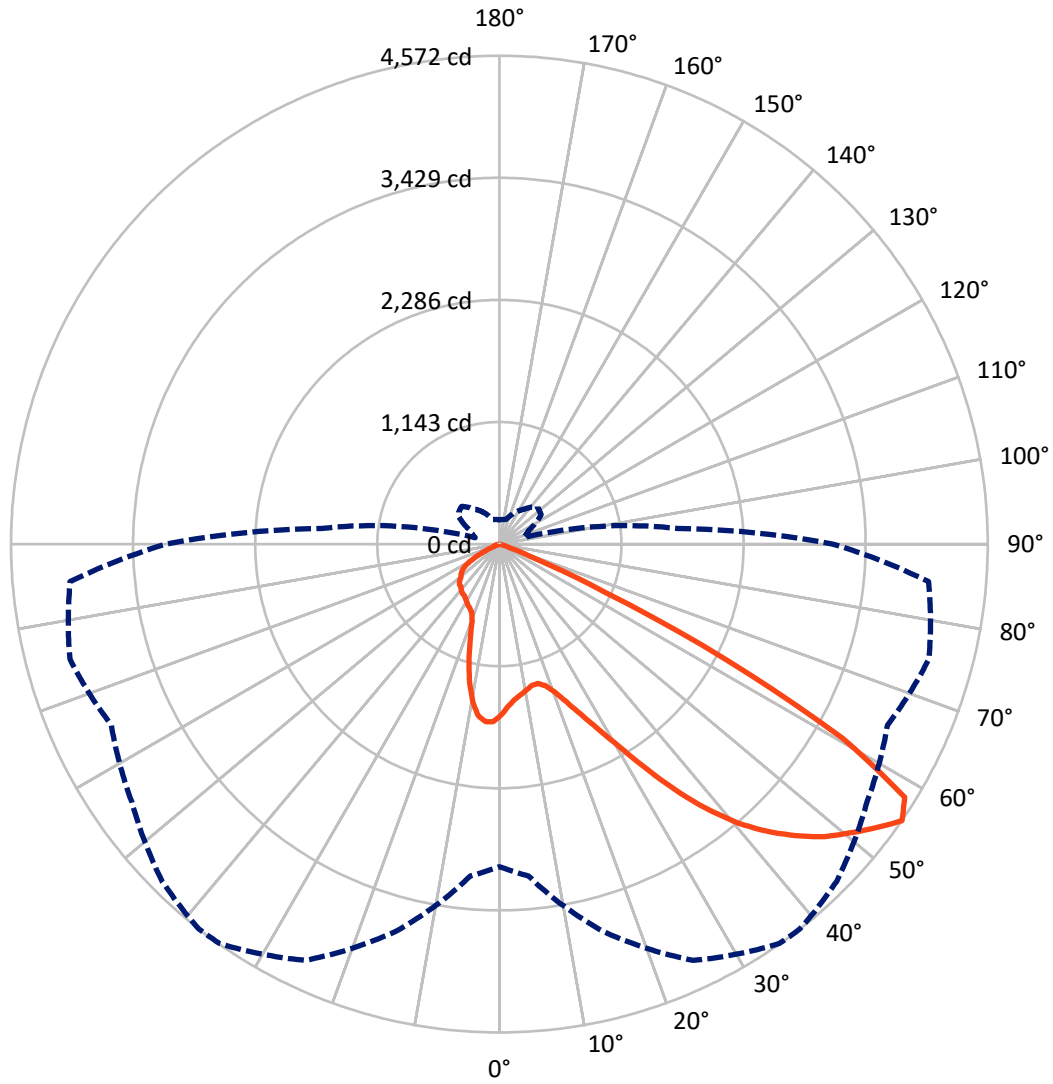
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1302.8	0.0	1302.8
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	5384.1	0.0	5384.1
	% Fixture	80.5	0.0	80.5
Total	Lumens	6686.9	0.0	6686.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.3	2.2
10°-20°	399.2	6.0
20°-30°	685.0	10.2
30°-40°	1136.1	17.0
40°-50°	1670.1	25.0
50°-60°	1951.6	29.2
60°-70°	661.5	9.9
70°-80°	33.8	0.5
80°-90°	1.3	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°	6686.9	100.0
0°-180°	6686.9	100.0

Coefficient of Utilization



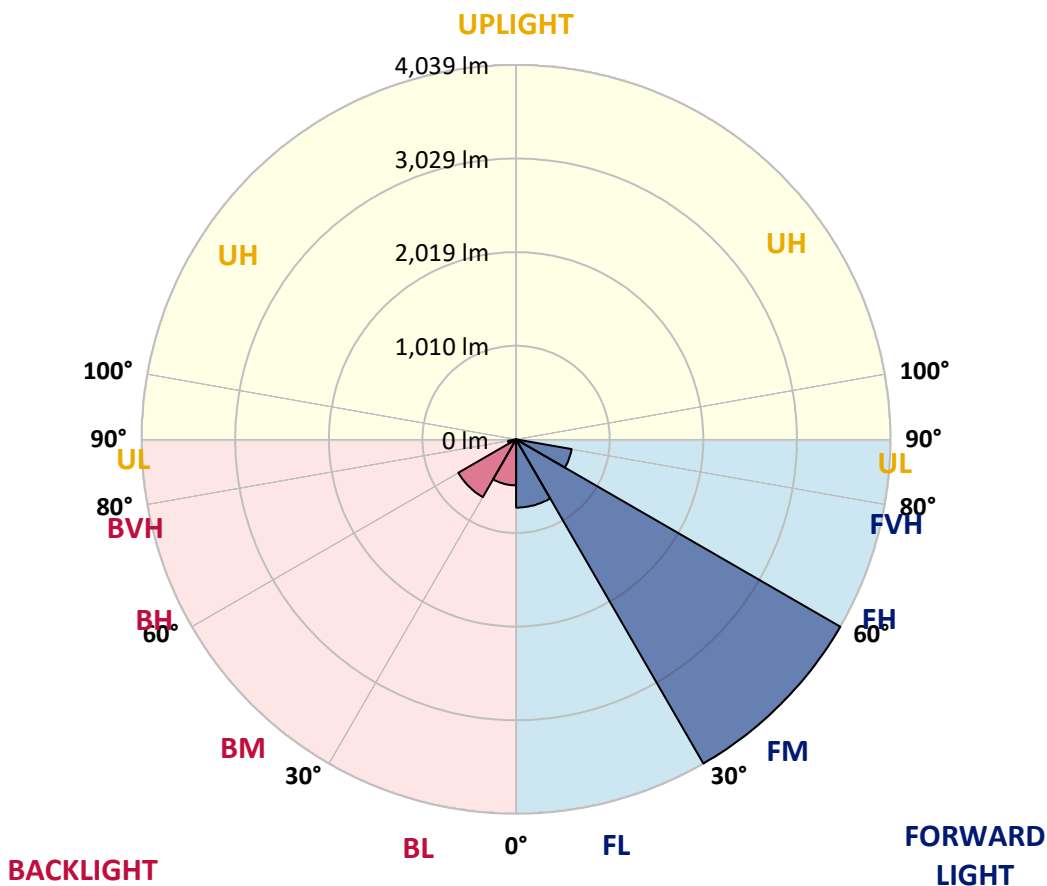
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	736.1	11.0			
FM (30°-60°)	4038.7	60.4			
FH (60°-80°)	608.6	9.1			G0/660
FVH (80°-90°)	0.7	0.0			G0/10
BL (0°-30°)	496.4	7.4	B1/500		
BM (30°-60°)	719.1	10.8	B1/1000		
BH (60°-80°)	86.7	1.3	B0/110		G0/110
BVH (80°-90°)	0.6	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°	38°	45°	55°	65°	75°	85°
0°	1603.6	1603.6	1603.6	1603.6	1603.6	1603.6	1603.6	1603.6	1603.6	1603.6	1603.6
2.5°	1493.5	1490.4	1496.6	1508.8	1520.3	1524.1	1535.5	1551.6	1561.5	1585.2	1604.3
5°	1426.2	1424.7	1430.8	1441.5	1456.8	1462.2	1479.7	1506.5	1533.3	1574.5	1615.0
7.5°	1365.1	1364.3	1373.5	1397.2	1419.4	1426.2	1447.6	1480.5	1516.4	1579.9	1639.5
10°	1284.8	1285.6	1303.2	1336.8	1377.3	1391.1	1425.5	1472.9	1519.5	1601.3	1683.8
12.5°	1258.9	1260.4	1269.6	1295.5	1339.9	1357.5	1405.6	1477.5	1537.1	1631.9	1741.1
15°	1322.3	1322.3	1314.7	1317.7	1337.6	1353.6	1404.1	1492.7	1566.9	1668.5	1797.7
17.5°	1445.4	1440.8	1421.7	1395.7	1388.8	1394.1	1434.7	1525.6	1608.9	1711.3	1861.9
20°	1612.0	1613.5	1576.1	1521.8	1478.2	1477.5	1501.9	1583.7	1669.3	1762.6	1931.5
22.5°	1813.8	1807.6	1758.0	1683.8	1608.2	1602.0	1612.0	1672.4	1756.4	1843.6	2017.1
25°	2047.6	2044.6	1974.3	1874.9	1774.8	1760.3	1760.3	1819.9	1881.0	1959.0	2119.5
27.5°	2292.2	2292.2	2224.2	2109.6	1976.6	1950.6	1946.8	2017.1	2057.6	2072.9	2205.9
30°	2543.7	2540.6	2473.4	2355.7	2213.5	2186.8	2176.1	2228.0	2257.1	2211.2	2313.6
32.5°	2799.0	2804.3	2736.3	2627.0	2500.1	2482.6	2449.7	2449.7	2473.4	2409.2	2483.3
35°	3073.4	3071.9	3018.3	2944.2	2835.7	2815.8	2761.5	2676.7	2712.6	2684.3	2718.0
37.5°	3315.7	3327.1	3301.2	3246.1	3158.2	3138.3	3048.9	2895.3	2922.8	2967.1	2996.9
40°	3561.8	3571.0	3596.9	3579.4	3468.5	3431.9	3272.9	3020.6	3051.2	3203.3	3288.9
42.5°	3803.3	3807.9	3860.6	3889.7	3741.4	3677.2	3442.6	3097.1	3129.2	3388.3	3538.1
45°	3956.9	3966.9	4054.0	4142.7	3982.2	3894.3	3590.1	3194.9	3208.7	3516.7	3722.3
47.5°	3950.8	3973.8	4137.3	4298.6	4189.3	4094.5	3767.4	3351.6	3328.7	3637.5	3843.8
50°	3827.8	3855.3	4089.9	4346.0	4338.4	4250.5	3964.6	3578.6	3506.8	3744.5	3859.1
52.5°	3572.5	3652.0	4006.6	4352.1	4458.4	4414.0	4208.4	3884.3	3747.5	3898.1	3883.6
55°	3020.6	3118.5	3753.6	4300.1	4566.9	4572.2	4464.5	4203.1	4008.9	4162.6	4034.1
57.5°	2293.0	2371.0	2889.2	3827.8	4387.3	4475.2	4563.8	4371.2	4170.2	4342.9	4069.3
60°	1381.9	1472.1	1809.2	2808.9	3543.4	3693.3	4041.0	4003.6	3761.3	3835.4	3337.1
62.5°	560.3	607.6	835.4	1547.8	2230.3	2370.2	2703.4	2760.0	2700.4	2624.7	2024.0
65°	204.8	223.9	334.8	639.7	1025.7	1076.9	1252.7	1352.9	1435.4	1222.2	752.9
67.5°	126.9	139.1	217.8	328.7	373.0	347.0	353.1	421.1	402.0	248.4	134.5
70°	94.0	103.9	170.4	227.8	150.6	116.2	78.7	84.1	75.7	66.5	65.7
72.5°	65.0	74.1	127.6	134.5	58.1	41.3	29.0	40.5	45.9	45.1	46.6
75°	42.8	49.7	80.3	52.7	14.5	11.5	9.9	21.4	27.5	27.5	28.3
77.5°	25.2	29.0	28.3	10.7	3.1	3.1	2.3	3.8	6.1	6.9	8.4
80°	3.1	2.3	1.5	1.5	1.5	1.5	1.5	1.5	2.3	2.3	2.3
82.5°	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5	1.5	2.3	2.3
85°	0.0	0.0	0.8	0.8	1.5	1.5	1.5	1.5	1.5	2.3	2.3
87.5°	0.0	0.0	0.8	0.8	1.5	1.5	1.5	1.5	1.5	2.3	2.3
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°	1603.6	1603.6	1603.6	1603.6	1603.6	1603.6	1603.6	1603.6	1603.6	1603.6	1603.6
2.5°	1618.9	1613.5	1635.7	1651.7	1664.7	1670.8	1662.4	1661.7	1661.7	1644.8	1640.3
5°	1638.0	1640.3	1671.6	1685.4	1687.6	1680.0	1660.9	1647.9	1640.3	1622.7	1612.7
7.5°	1674.7	1682.3	1712.1	1709.8	1689.2	1654.0	1603.6	1564.6	1539.4	1511.8	1495.0
10°	1727.4	1741.9	1760.3	1728.2	1662.4	1573.0	1469.0	1394.9	1350.6	1319.2	1300.1
12.5°	1791.6	1806.1	1800.0	1724.3	1587.5	1427.8	1294.0	1187.0	1135.8	1107.5	1087.6
15°	1856.6	1865.7	1826.0	1678.5	1455.3	1240.5	1091.5	985.2	922.5	899.6	882.8
17.5°	1923.1	1920.8	1830.6	1588.3	1278.7	1029.6	882.8	810.2	792.6	788.8	787.3
20°	1992.6	1972.0	1812.2	1459.1	1066.2	820.9	737.6	742.2	774.3	789.6	792.6
22.5°	2072.1	2020.1	1766.4	1284.1	849.2	684.1	692.5	737.6	781.1	801.8	804.8
25°	2156.9	2064.5	1689.9	1059.4	669.6	629.0	678.7	730.7	777.3	802.5	805.6
27.5°	2212.7	2075.2	1564.6	833.1	574.8	607.6	660.4	710.1	758.2	785.7	789.6
30°	2273.1	2070.6	1394.1	642.0	542.7	589.3	635.2	680.3	724.6	755.2	758.2
32.5°	2361.8	2067.5	1186.2	521.3	529.7	574.8	608.4	645.9	676.4	694.0	691.7
35°	2478.0	2063.7	944.0	470.1	522.0	563.3	590.1	607.6	574.0	563.3	565.6
37.5°	2627.0	2072.9	739.9	448.7	519.7	560.3	583.2	532.7	480.8	460.9	457.8
40°	2792.1	2096.6	564.1	440.3	527.4	567.9	557.2	473.9	409.7	370.7	362.3
42.5°	2958.0	2122.6	446.4	437.2	540.4	589.3	514.4	431.1	334.8	312.6	309.6
45°	3081.0	2118.0	386.0	431.8	551.8	601.5	502.9	369.9	298.9	288.9	289.7
47.5°	3142.9	2067.5	353.1	419.6	556.4	589.3	474.7	344.7	274.4	285.1	294.3
50°	3110.1	1936.8	322.5	395.9	546.5	573.2	429.6	325.6	262.2	306.5	327.1
52.5°	3070.3	1776.3	288.9	359.2	522.8	551.1	412.0	320.3	254.5	295.8	311.1
55°	3123.1	1674.7	233.9	302.7	476.2	499.1	398.2	319.5	236.9	230.1	227.8
57.5°	3048.9	1472.1	167.4	217.8	365.4	395.2	388.3	314.1	210.2	209.4	212.5
60°	2356.4	898.1	114.6	138.3	223.9	252.2	352.4	300.4	181.1	166.6	167.4
62.5°	1339.1	382.2	78.7	85.6	114.6	136.1	269.0	272.9	167.4	159.0	167.4
65°	466.2	136.8	61.1	57.3	63.4	72.6	154.4	211.0	152.1	137.6	139.1
67.5°	96.3	68.0	54.3	47.4	47.4	47.4	78.7	131.5	125.4	109.3	110.8
70°	61.1	58.1	47.4	40.5	39.0	35.9	45.1	72.6	86.4	79.5	80.3
72.5°	45.1	44.3	37.5	32.9	29.0	26.0	28.3	35.9	44.3	45.9	46.6
75°	27.5	28.3	24.5	20.6	18.3	16.1	16.8	16.8	16.8	15.3	16.8
77.5°	8.4	9.2	7.6	6.1	5.4	5.4	5.4	4.6	3.8	2.3	2.3
80°	2.3	2.3	2.3	2.3	2.3	1.5	1.5	0.8	0.8	0.0	0.0
82.5°	2.3	2.3	2.3	2.3	1.5	1.5	0.8	0.8	0.0	0.0	0.0
85°	2.3	2.3	2.3	2.3	1.5	1.5	0.8	0.8	0.0	0.0	0.0
87.5°	2.3	2.3	2.3	2.3	1.5	1.5	0.8	0.8	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)