

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: P633110

Luminaire Tested: GWS-SA2E-722-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633110
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-SA2E-722-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6740.9 lumens
Efficiency: N/A
Efficacy: 62.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

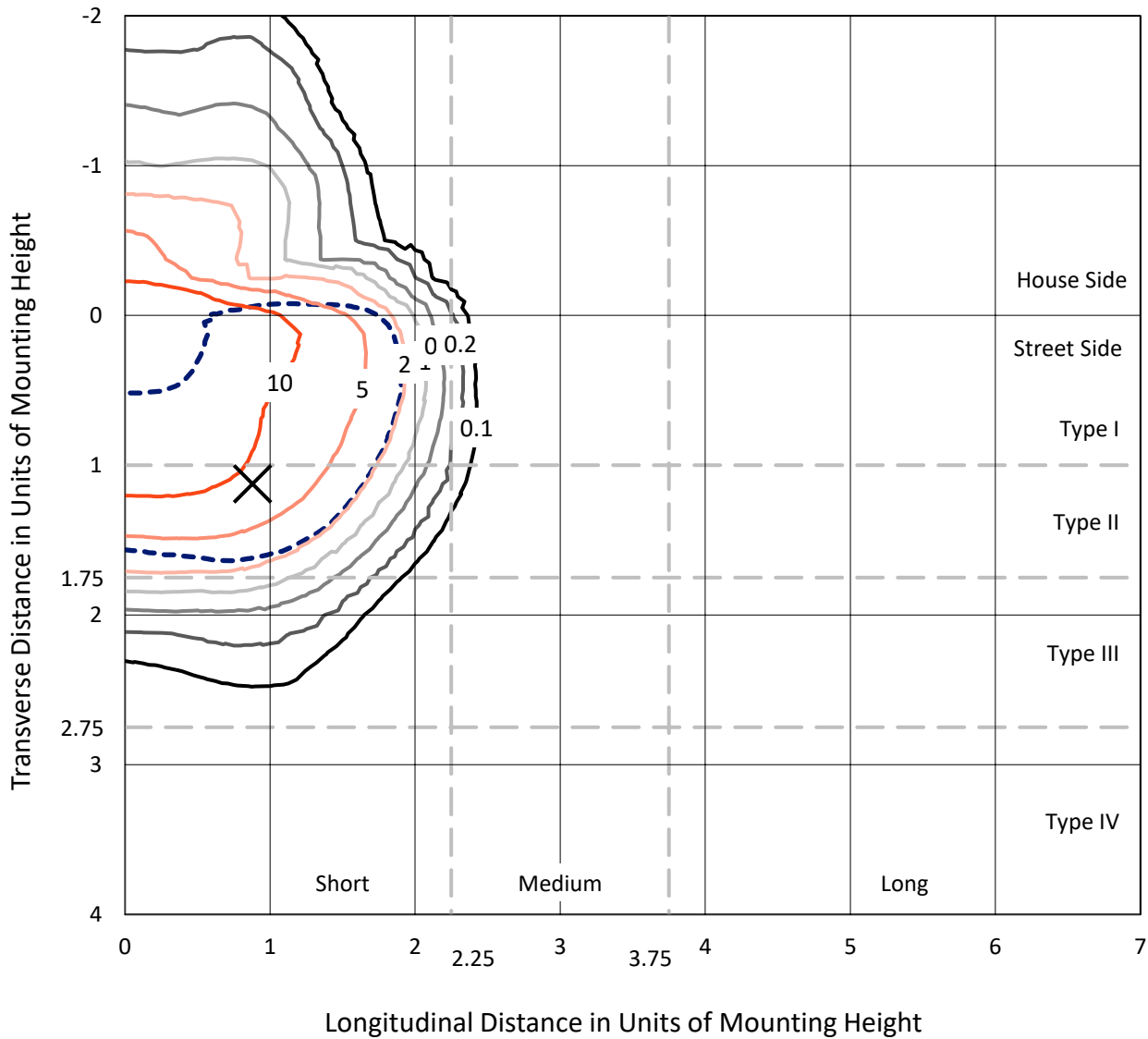
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

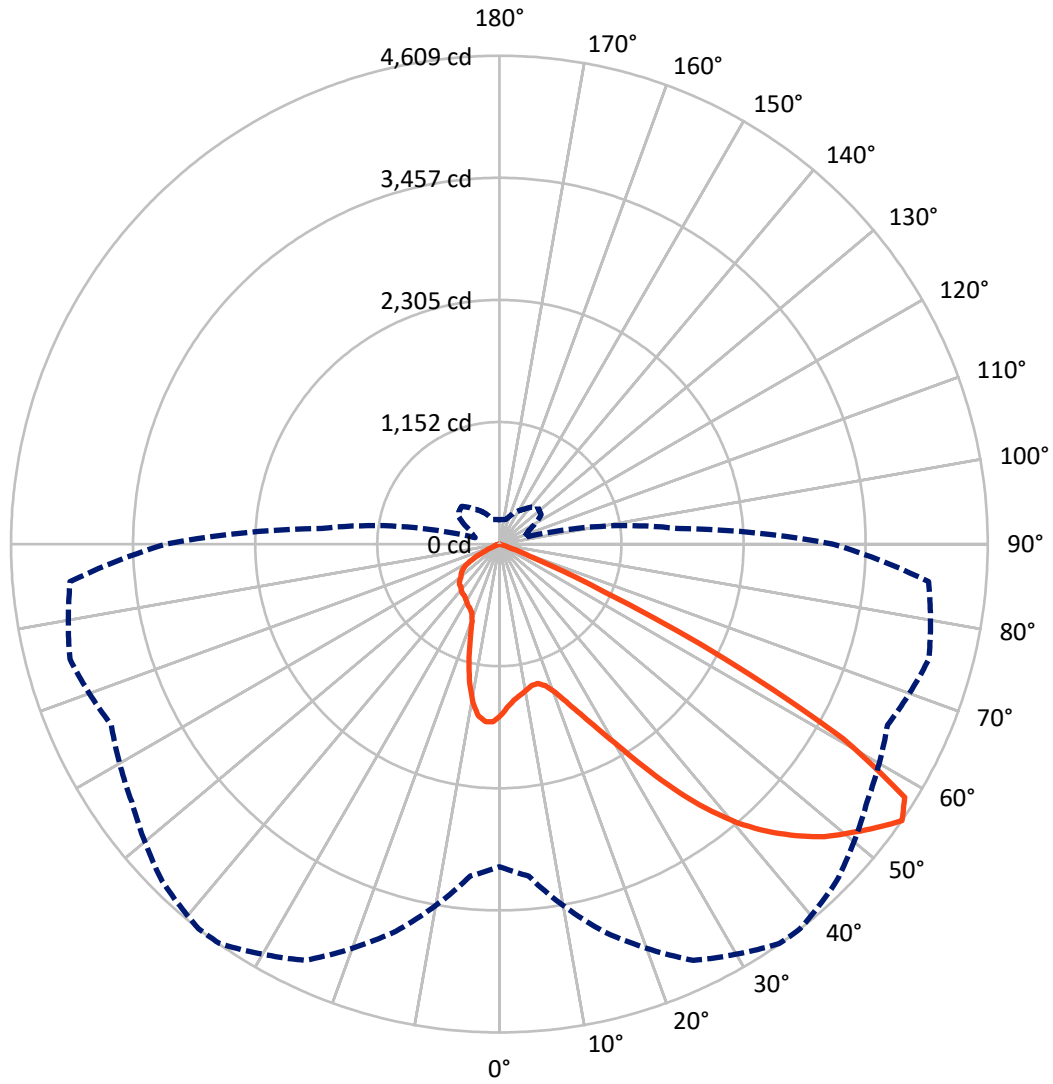
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.9 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	1313.3	0.0	1313.3
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	5427.6	0.0	5427.6
	% Fixture	80.5	0.0	80.5
Total	Lumens	6740.9	0.0	6740.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	2.2
10°-20°	402.4	6.0
20°-30°	690.5	10.2
30°-40°	1145.3	17.0
40°-50°	1683.6	25.0
50°-60°	1967.3	29.2
60°-70°	666.9	9.9
70°-80°	34.1	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°	6740.9	100.0
0°-180°	6740.9	100.0

Coefficient of Utilization



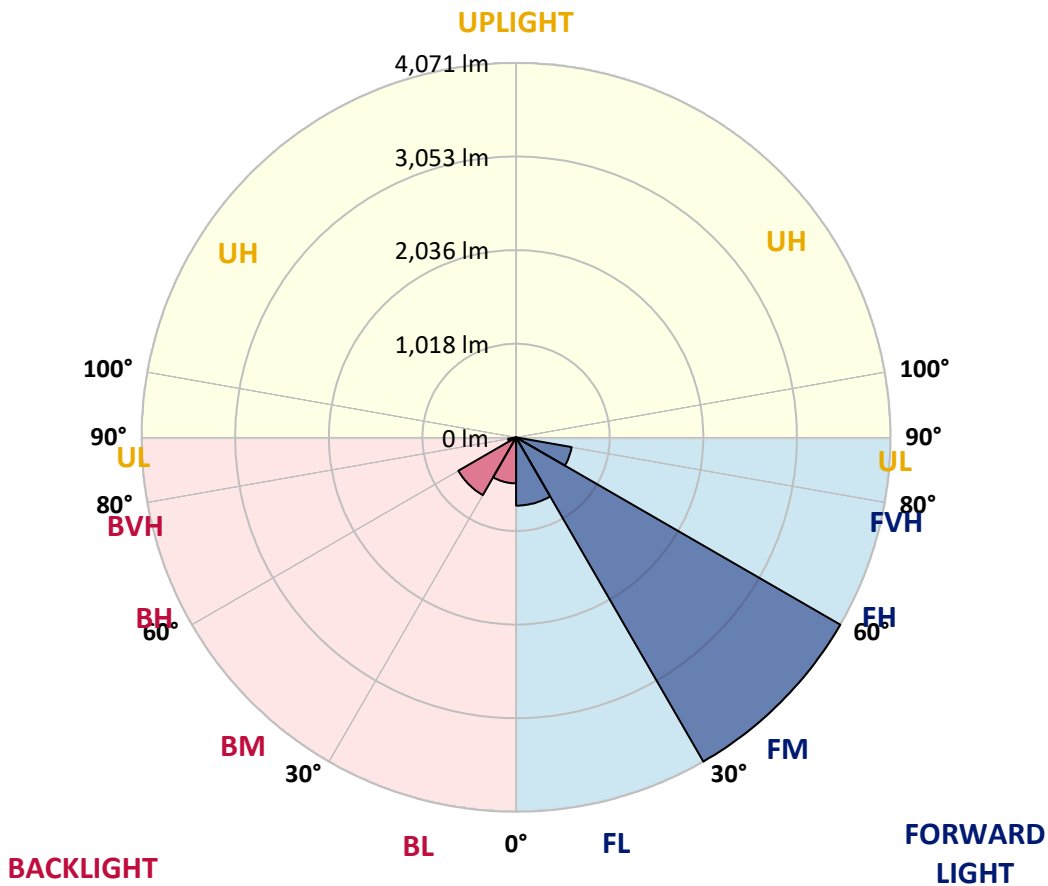
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	742.0	11.0			
FM (30°-60°)	4071.3	60.4			
FH (60°-80°)	613.5	9.1			G0/660
FVH (80°-90°)	0.7	0.0			G0/10
BL (0°-30°)	500.4	7.4	B2/1000		
BM (30°-60°)	724.9	10.8	B1/1000		
BH (60°-80°)	87.4	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: B2-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5
2.5°	1505.6	1502.5	1508.6	1521.0	1532.5	1536.4	1547.9	1564.1	1574.1	1598.0	1617.3
5°	1437.8	1436.2	1442.4	1453.2	1468.6	1474.0	1491.7	1518.7	1545.6	1587.2	1628.1
7.5°	1376.1	1375.4	1384.6	1408.5	1430.8	1437.8	1459.3	1492.5	1528.7	1592.6	1652.7
10°	1295.2	1296.0	1313.7	1347.6	1388.4	1402.3	1437.0	1484.8	1531.8	1614.2	1697.4
12.5°	1269.0	1270.6	1279.8	1306.0	1350.7	1368.4	1417.0	1489.4	1549.5	1645.0	1755.2
15°	1333.0	1333.0	1325.3	1328.4	1348.4	1364.6	1415.4	1504.8	1579.5	1682.0	1812.2
17.5°	1457.0	1452.4	1433.1	1406.9	1400.0	1405.4	1446.2	1537.9	1621.9	1725.2	1877.0
20°	1625.0	1626.5	1588.8	1534.1	1490.2	1489.4	1514.0	1596.5	1682.8	1776.8	1947.1
22.5°	1828.4	1822.2	1772.2	1697.4	1621.1	1615.0	1625.0	1685.9	1770.6	1858.5	2033.4
25°	2064.2	2061.1	1990.2	1890.0	1789.1	1774.5	1774.5	1834.6	1896.2	1974.8	2136.6
27.5°	2310.7	2310.7	2242.2	2126.6	1992.5	1966.3	1962.5	2033.4	2074.2	2089.6	2223.7
30°	2564.2	2561.2	2493.4	2374.7	2231.4	2204.4	2193.6	2246.0	2275.3	2229.1	2332.3
32.5°	2821.6	2827.0	2758.4	2648.2	2520.3	2502.6	2469.5	2469.5	2493.4	2428.6	2503.4
35°	3098.2	3096.7	3042.7	2968.0	2858.6	2838.5	2783.8	2698.3	2734.5	2706.0	2739.9
37.5°	3342.5	3354.0	3327.8	3272.3	3183.7	3163.7	3073.5	2918.7	2946.4	2991.1	3021.2
40°	3590.6	3599.8	3626.0	3608.3	3496.6	3459.6	3299.3	3045.0	3075.9	3229.2	3315.5
42.5°	3834.0	3838.7	3891.8	3921.1	3771.6	3706.9	3470.4	3122.1	3154.4	3415.6	3566.7
45°	3988.9	3998.9	4086.8	4176.1	4014.3	3925.7	3619.1	3220.7	3234.6	3545.1	3752.4
47.5°	3982.7	4005.9	4170.7	4333.3	4223.1	4127.6	3797.8	3378.7	3355.5	3666.8	3874.9
50°	3858.7	3886.4	4123.0	4381.1	4373.4	4284.8	3996.6	3607.5	3535.1	3774.7	3890.3
52.5°	3601.3	3681.5	4039.0	4387.3	4494.4	4449.7	4242.4	3915.7	3777.8	3929.6	3914.9
55°	3045.0	3143.7	3783.9	4334.9	4603.8	4609.2	4500.5	4237.0	4041.3	4196.2	4066.7
57.5°	2311.5	2390.1	2912.5	3858.7	4422.7	4511.3	4600.7	4406.5	4203.9	4378.0	4102.2
60°	1393.1	1484.0	1823.8	2831.6	3572.1	3723.1	4073.7	4035.9	3791.7	3866.4	3364.0
62.5°	564.8	612.6	842.2	1560.3	2248.3	2389.3	2725.3	2782.3	2722.2	2645.9	2040.3
65°	206.5	225.8	337.5	644.9	1034.0	1085.6	1262.9	1363.8	1447.0	1232.0	758.9
67.5°	127.9	140.2	219.6	331.3	376.0	349.8	356.0	424.5	405.3	250.4	135.6
70°	94.8	104.8	171.8	229.6	151.8	117.1	79.4	84.8	76.3	67.0	66.3
72.5°	65.5	74.7	128.7	135.6	58.6	41.6	29.3	40.8	46.2	45.5	47.0
75°	43.1	50.1	80.9	53.2	14.6	11.6	10.0	21.6	27.7	27.7	28.5
77.5°	25.4	29.3	28.5	10.8	3.1	3.1	2.3	3.9	6.2	6.9	8.5
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°	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5
2.5°	1631.9	1626.5	1648.9	1665.1	1678.2	1684.3	1675.8	1675.1	1675.1	1658.1	1653.5
5°	1651.2	1653.5	1685.1	1699.0	1701.3	1693.6	1674.3	1661.2	1653.5	1635.8	1625.8
7.5°	1688.2	1695.9	1725.9	1723.6	1702.8	1667.4	1616.5	1577.2	1551.8	1524.1	1507.1
10°	1741.3	1756.0	1774.5	1742.1	1675.8	1585.7	1480.9	1406.2	1361.5	1329.9	1310.6
12.5°	1806.1	1820.7	1814.5	1738.3	1600.3	1439.3	1304.5	1196.6	1145.0	1116.5	1096.4
15°	1871.6	1880.8	1840.7	1692.0	1467.0	1250.5	1100.3	993.2	930.0	906.9	889.9
17.5°	1938.6	1936.3	1845.4	1601.1	1289.1	1037.9	889.9	816.7	799.0	795.2	793.6
20°	2008.7	1987.9	1826.9	1470.9	1074.9	827.5	743.5	748.2	780.5	795.9	799.0
22.5°	2088.8	2036.4	1780.6	1294.4	856.0	689.6	698.1	743.5	787.5	808.3	811.3
25°	2174.4	2081.1	1703.6	1067.9	675.0	634.1	684.2	736.6	783.6	809.0	812.1
27.5°	2230.6	2091.9	1577.2	839.9	579.4	612.6	665.7	715.8	764.3	792.1	795.9
30°	2291.5	2087.3	1405.4	647.2	547.1	594.1	640.3	685.7	730.4	761.3	764.3
32.5°	2380.9	2084.2	1195.8	525.5	534.0	579.4	613.3	651.1	681.9	699.6	697.3
35°	2498.0	2080.4	951.6	473.9	526.3	567.9	594.8	612.6	578.6	567.9	570.2
37.5°	2648.2	2089.6	745.8	452.3	523.9	564.8	587.9	537.0	484.6	464.6	461.5
40°	2814.7	2113.5	568.6	443.8	531.6	572.5	561.7	477.7	413.0	373.7	365.2
42.5°	2981.9	2139.7	450.0	440.7	544.7	594.1	518.5	434.6	337.5	315.1	312.1
45°	3105.9	2135.1	389.1	435.3	556.3	606.4	507.0	372.9	301.3	291.3	292.0
47.5°	3168.3	2084.2	356.0	423.0	560.9	594.1	478.5	347.5	276.6	287.4	296.6
50°	3135.2	1952.5	325.2	399.1	550.9	577.9	433.0	328.2	264.3	309.0	329.8
52.5°	3095.1	1790.7	291.3	362.1	527.0	555.5	415.3	322.8	256.6	298.2	313.6
55°	3148.3	1688.2	235.8	305.1	480.0	503.1	401.4	322.1	238.9	231.9	229.6
57.5°	3073.5	1484.0	168.7	219.6	368.3	398.4	391.4	316.7	211.9	211.1	214.2
60°	2375.5	905.3	115.6	139.5	225.8	254.3	355.2	302.8	182.6	168.0	168.7
62.5°	1349.9	385.3	79.4	86.3	115.6	137.1	271.2	275.1	168.7	160.3	168.7
65°	470.0	137.9	61.6	57.8	64.0	73.2	155.6	212.7	153.3	138.7	140.2
67.5°	97.1	68.6	54.7	47.8	47.8	47.8	79.4	132.5	126.4	110.2	111.7
70°	61.6	58.6	47.8	40.8	39.3	36.2	45.5	73.2	87.1	80.1	80.9
72.5°	45.5	44.7	37.8	33.1	29.3	26.2	28.5	36.2	44.7	46.2	47.0
75°	27.7	28.5	24.7	20.8	18.5	16.2	17.0	17.0	17.0	15.4	17.0
77.5°	8.5	9.2	7.7	6.2	5.4	5.4	5.4	4.6	3.9	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)