

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: P633326

Luminaire Tested: GWS-SA2E-740-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633326
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-740-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9010.2 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

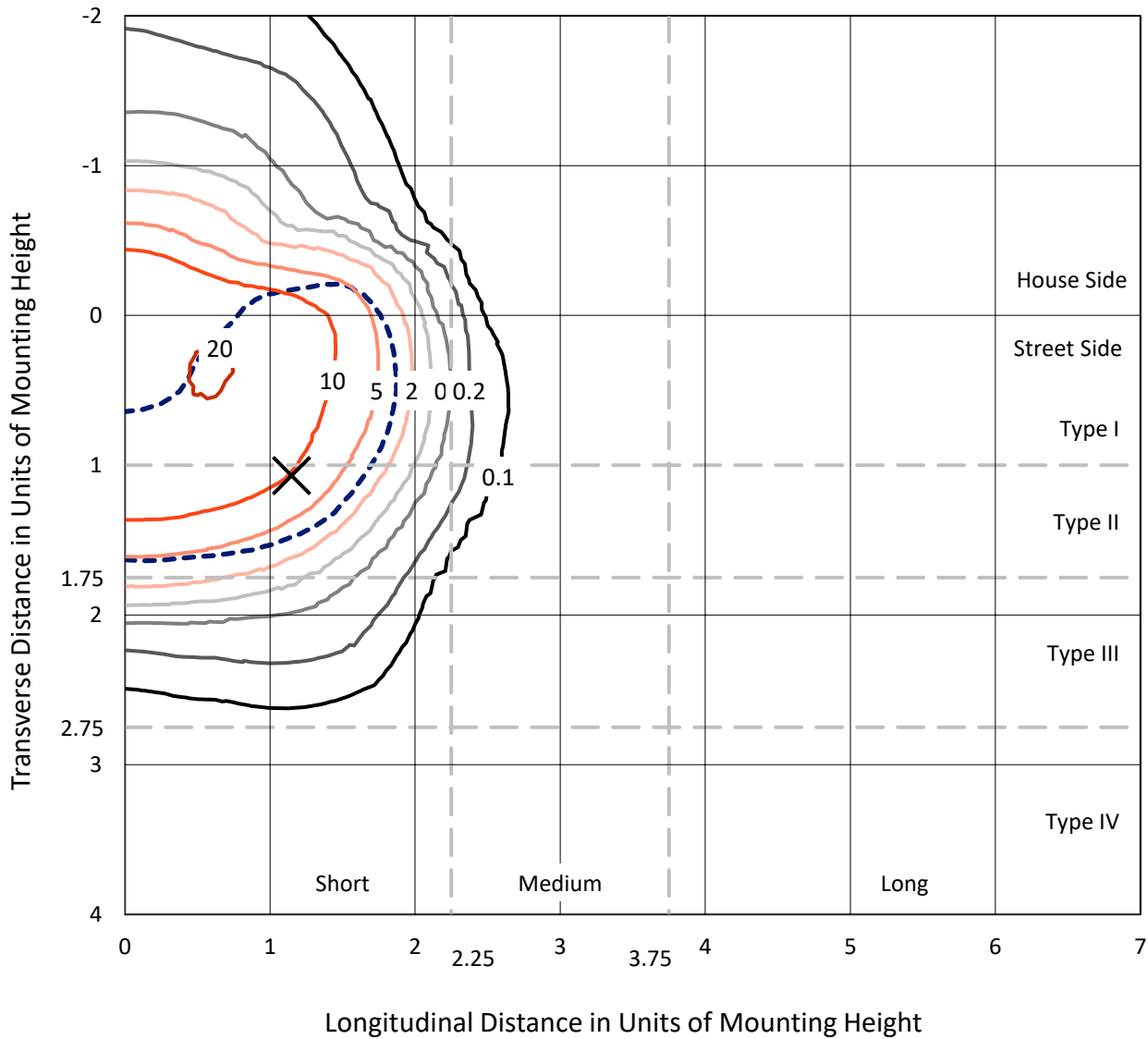
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

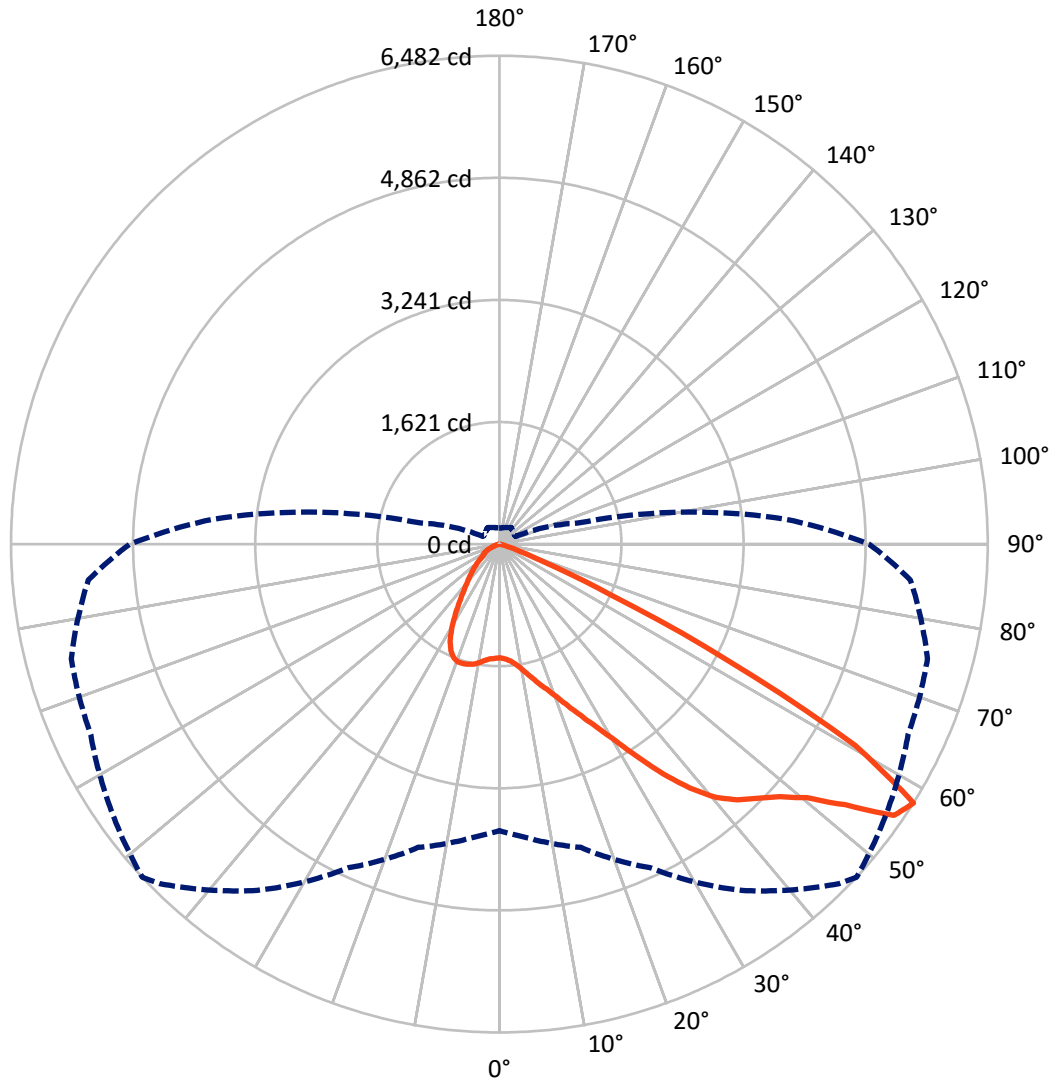
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1954.7	0.0	1954.7
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	7055.4	0.0	7055.4
	% Fixture	78.3	0.0	78.3
Total	Lumens	9010.2	0.0	9010.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.1	1.7
10°-20°	506.3	5.6
20°-30°	940.2	10.4
30°-40°	1505.0	16.7
40°-50°	2200.0	24.4
50°-60°	2715.1	30.1
60°-70°	907.2	10.1
70°-80°	84.5	0.9
80°-90°	1.7	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°	9010.2	100.0
0°-180°	9010.2	100.0

Coefficient of Utilization



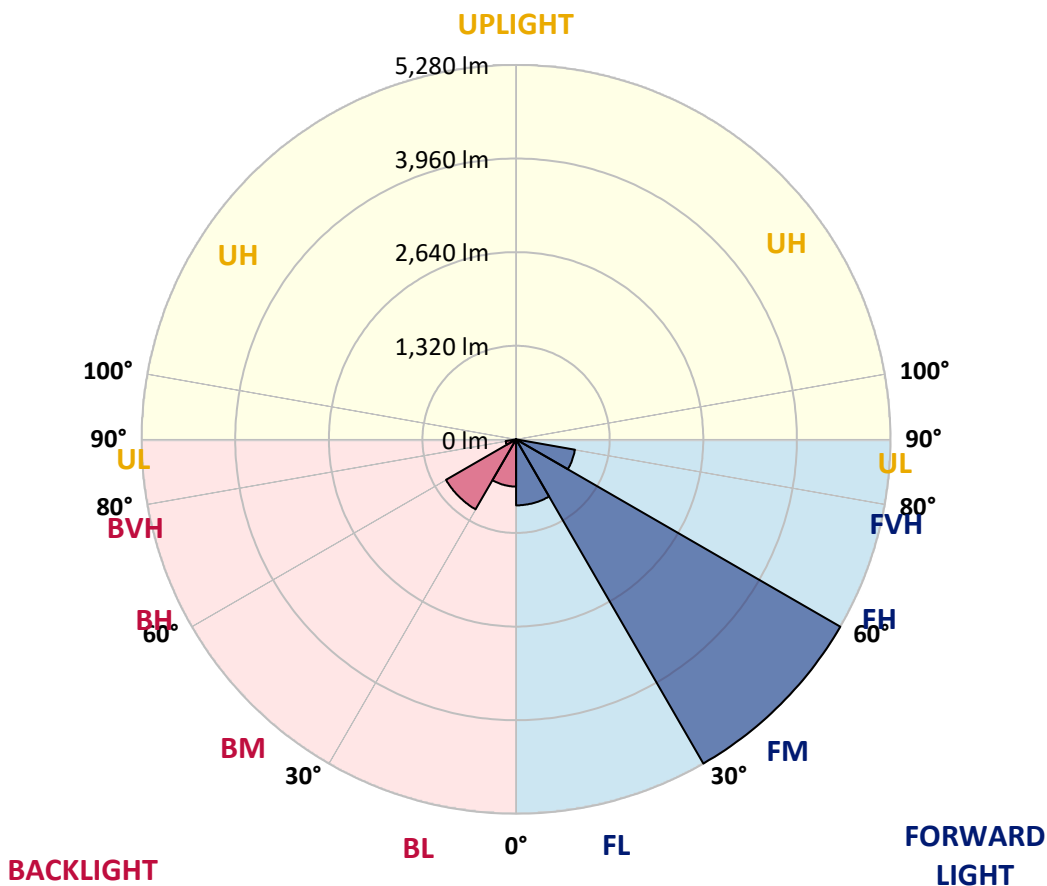
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	931.2	10.3			
FM (30°-60°)	5279.9	58.6			
FH (60°-80°)	843.2	9.4			G1/1800
FVH (80°-90°)	1.2	0.0			G0/10
BL (0°-30°)	665.4	7.4	B2/1000		
BM (30°-60°)	1140.2	12.7	B2/2500		
BH (60°-80°)	148.6	1.6	B1/500		G1/500
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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1508.3	1508.3	1508.3	1508.3	1508.3	1508.3	1508.3	1508.3	1508.3	1508.3	1508.3
2.5°	1524.0	1523.0	1521.9	1528.2	1526.1	1525.1	1527.1	1527.1	1527.1	1520.9	1508.3
5°	1560.6	1560.6	1559.6	1565.8	1560.6	1557.5	1558.5	1558.5	1554.3	1542.8	1527.1
7.5°	1618.1	1616.1	1614.0	1620.2	1615.0	1614.0	1616.1	1609.8	1602.5	1583.6	1561.7
10°	1700.8	1700.8	1697.6	1703.9	1699.7	1697.6	1697.6	1693.5	1679.9	1650.6	1618.1
12.5°	1814.8	1809.6	1802.2	1797.0	1794.9	1793.9	1794.9	1788.6	1774.0	1736.3	1691.4
15°	1939.3	1935.1	1923.6	1915.2	1903.7	1901.6	1907.9	1902.7	1888.0	1836.8	1773.0
17.5°	2096.2	2101.4	2072.1	2054.3	2020.9	2018.8	2020.9	2029.2	2018.8	1952.9	1859.8
20°	2230.1	2234.2	2212.3	2199.7	2169.4	2155.8	2160.0	2173.6	2162.1	2084.7	1955.0
22.5°	2373.4	2378.6	2355.6	2329.4	2315.8	2315.8	2331.5	2350.3	2334.6	2233.2	2063.7
25°	2544.9	2549.1	2530.2	2495.7	2471.7	2502.0	2525.0	2575.2	2549.1	2411.0	2192.4
27.5°	2741.5	2742.6	2715.4	2679.8	2667.3	2723.8	2746.8	2824.2	2813.7	2610.8	2328.4
30°	2951.8	2952.8	2946.6	2922.5	2911.0	2985.3	3016.6	3128.6	3121.2	2858.7	2513.5
32.5°	3170.4	3170.4	3181.9	3179.8	3193.4	3314.7	3364.9	3492.6	3485.2	3162.0	2743.6
35°	3390.1	3391.1	3411.0	3461.2	3517.7	3678.7	3744.6	3899.4	3882.7	3525.0	3037.6
37.5°	3640.0	3629.6	3656.8	3732.1	3857.6	4043.8	4106.6	4254.0	4235.2	3896.3	3421.4
40°	3941.3	3922.5	3922.5	4010.3	4152.6	4367.0	4420.4	4493.6	4429.8	4196.5	3798.0
42.5°	4273.9	4256.1	4233.1	4310.5	4429.8	4597.1	4641.1	4621.2	4568.9	4480.0	4226.8
45°	4610.7	4583.5	4599.2	4646.3	4715.3	4794.8	4811.6	4719.5	4695.4	4720.6	4581.4
47.5°	4867.0	4848.2	4886.9	4952.8	5009.2	5020.8	5009.2	4881.6	4879.5	4968.5	4827.2
50°	4952.8	4954.9	5061.5	5205.9	5296.9	5306.3	5290.6	5144.2	5124.3	5150.5	4960.1
52.5°	4961.1	4969.5	5125.3	5400.4	5648.3	5761.3	5748.8	5590.8	5396.3	5368.0	5160.9
55°	4759.3	4808.4	5026.0	5427.6	5954.8	6315.7	6357.5	6055.2	5766.5	5742.5	5592.9
57.5°	3804.3	3904.7	4167.2	4739.4	5612.8	6373.2	6482.0	6264.4	5985.2	5882.6	5476.8
60°	2274.0	2398.5	2650.5	3352.4	4271.8	5238.3	5425.5	5455.9	5327.2	5031.2	4201.7
62.5°	975.9	965.4	1276.1	1813.7	2540.7	3329.4	3414.1	3545.9	3657.8	3348.2	2550.1
65°	334.7	364.0	506.3	818.0	1271.9	1546.0	1621.3	1739.5	1898.5	1566.9	934.1
67.5°	207.1	219.7	291.8	483.2	686.2	675.7	642.2	623.4	606.7	415.3	256.3
70°	150.6	161.1	205.0	332.6	461.3	324.3	281.4	228.0	253.1	233.3	182.0
72.5°	101.5	109.8	141.2	201.9	236.4	157.9	146.4	166.3	200.8	191.4	148.5
75°	60.7	65.9	80.5	98.3	96.2	81.6	82.6	117.2	153.8	143.3	105.6
77.5°	41.8	43.9	53.3	63.8	47.1	25.1	23.0	32.4	52.3	52.3	35.6
80°	10.5	13.6	13.6	8.4	7.3	6.3	6.3	9.4	14.6	10.5	5.2
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1	2.1	2.1
85°	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1	2.1
87.5°	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1
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°	1508.3	1508.3	1508.3	1508.3	1508.3	1508.3	1508.3	1508.3	1508.3	1508.3	1508.3
2.5°	1515.6	1503.1	1511.5	1509.4	1515.6	1517.7	1508.3	1506.2	1507.3	1494.7	1490.5
5°	1530.3	1515.6	1519.8	1515.6	1523.0	1529.2	1526.1	1530.3	1535.5	1526.1	1521.9
7.5°	1561.7	1547.0	1546.0	1539.7	1550.2	1554.3	1553.3	1564.8	1575.3	1569.0	1562.7
10°	1616.1	1596.2	1594.1	1588.9	1592.0	1595.1	1583.6	1585.7	1595.1	1587.8	1584.7
12.5°	1683.0	1658.9	1653.7	1641.2	1641.2	1625.5	1600.4	1595.1	1602.5	1597.2	1592.0
15°	1755.2	1722.7	1714.4	1692.4	1671.5	1642.2	1616.1	1609.8	1615.0	1608.7	1604.5
17.5°	1835.7	1799.1	1771.9	1733.2	1687.2	1652.7	1623.4	1609.8	1601.4	1588.9	1587.8
20°	1915.2	1867.1	1821.1	1759.4	1698.7	1646.4	1598.3	1562.7	1532.4	1513.5	1506.2
22.5°	2007.3	1936.1	1861.9	1775.0	1688.2	1608.7	1524.0	1463.3	1411.0	1393.3	1384.9
25°	2105.6	2013.5	1902.7	1789.7	1652.7	1525.1	1410.0	1320.0	1251.0	1228.0	1218.6
27.5°	2214.4	2087.8	1944.5	1786.6	1579.4	1405.8	1253.1	1141.2	1073.2	1052.3	1059.6
30°	2352.4	2184.0	1996.8	1754.1	1469.6	1238.5	1059.6	965.4	914.2	894.3	895.4
32.5°	2536.5	2322.1	2073.2	1685.1	1328.4	1048.1	891.2	822.1	787.6	761.5	759.4
35°	2800.1	2532.3	2144.3	1574.2	1156.9	878.6	764.6	710.2	662.1	631.8	637.0
37.5°	3116.0	2797.0	2183.0	1424.6	964.4	746.8	669.4	614.0	559.6	514.6	519.9
40°	3490.5	3143.2	2179.8	1228.0	788.7	656.9	589.9	525.1	457.1	416.3	420.5
42.5°	3907.8	3470.6	2111.9	1019.8	653.7	583.7	513.6	432.0	366.1	341.0	342.0
45°	4269.7	3736.3	1992.6	804.4	550.2	512.5	434.1	350.4	321.1	303.3	302.3
47.5°	4537.5	3930.8	1822.1	632.8	466.5	447.7	356.7	313.8	290.8	276.1	274.0
50°	4687.1	3998.8	1633.8	495.8	394.3	379.7	319.0	284.5	268.8	259.4	257.3
52.5°	4887.9	4080.4	1498.9	391.2	330.5	310.7	293.9	264.6	254.2	246.9	243.7
55°	5205.9	4238.4	1381.8	310.7	275.1	270.9	277.2	253.1	246.9	235.3	231.2
57.5°	4906.7	3807.4	1073.2	240.6	232.2	247.9	267.8	241.6	225.9	215.5	211.3
60°	3452.8	2531.3	539.7	193.5	207.1	232.2	252.1	218.6	202.9	205.0	202.9
62.5°	1903.7	1266.7	242.7	162.1	179.9	205.0	215.5	189.3	178.9	196.6	199.8
65°	622.4	430.9	140.2	125.5	142.3	167.4	186.2	179.9	177.8	198.7	205.0
67.5°	191.4	142.3	95.2	90.0	98.3	123.4	156.9	194.6	209.2	215.5	218.6
70°	143.3	111.9	81.6	76.4	80.5	94.1	132.8	162.1	152.7	153.8	151.7
72.5°	115.1	88.9	70.1	66.9	66.9	64.9	70.1	87.9	99.4	104.6	104.6
75°	80.5	62.8	53.3	49.2	38.7	31.4	28.2	28.2	25.1	24.1	23.0
77.5°	27.2	23.0	20.9	16.7	11.5	9.4	8.4	7.3	5.2	3.1	2.1
80°	4.2	3.1	2.1	2.1	2.1	1.0	1.0	1.0	0.0	0.0	0.0
82.5°	2.1	2.1	2.1	2.1	2.1	1.0	1.0	0.0	0.0	0.0	0.0
85°	2.1	2.1	2.1	2.1	2.1	1.0	1.0	0.0	0.0	0.0	0.0
87.5°	2.1	2.1	2.1	2.1	1.0	1.0	1.0	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)