

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: P636736

Luminaire Tested: GWS-SA4B-735-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636736
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-SA4B-735-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8815.6 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

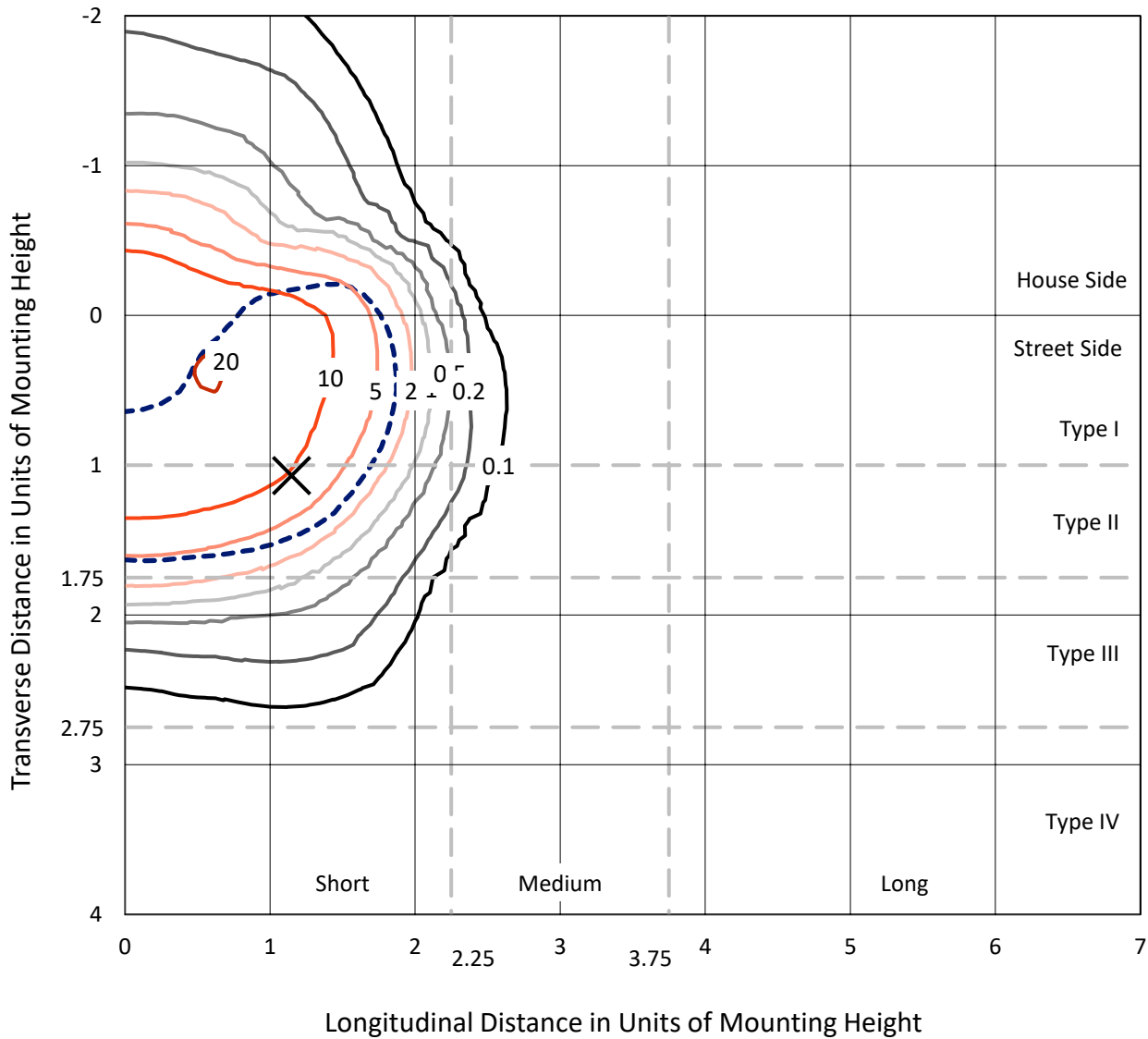
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

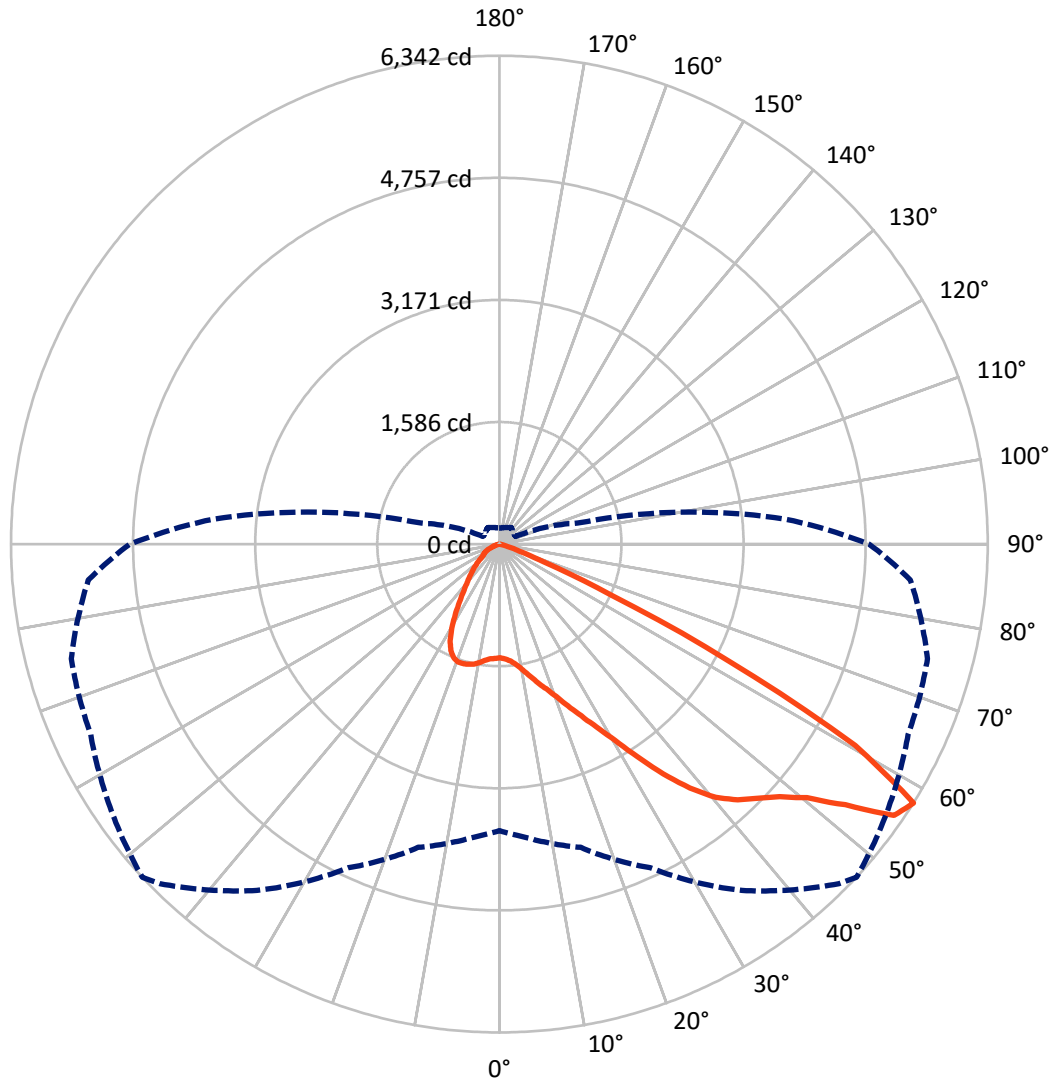
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.9 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	1912.5	0.0	1912.5
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	6903.1	0.0	6903.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	8815.6	0.0	8815.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.8	1.7
10°-20°	495.4	5.6
20°-30°	919.8	10.4
30°-40°	1472.5	16.7
40°-50°	2152.5	24.4
50°-60°	2656.5	30.1
60°-70°	887.6	10.1
70°-80°	82.7	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°	8815.6	100.0
0°-180°	8815.6	100.0

Coefficient of Utilization



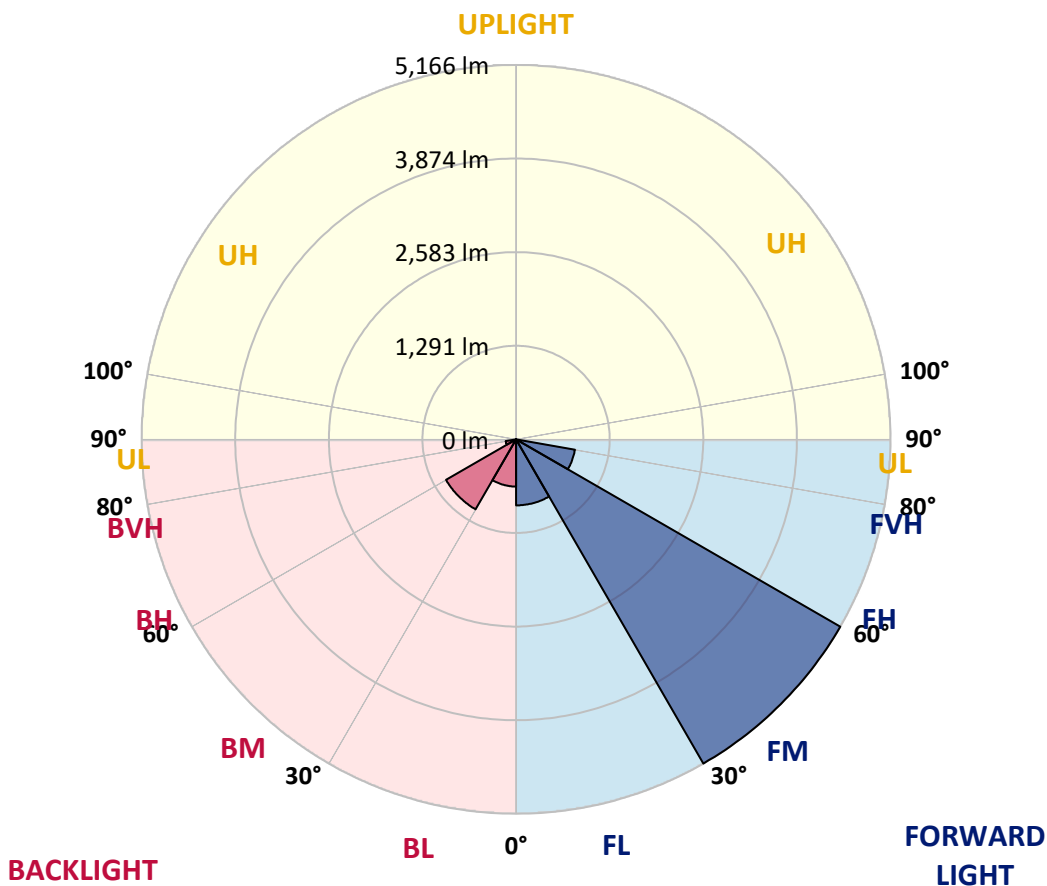
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	911.1	10.3			
FM (30°-60°)	5165.9	58.6			
FH (60°-80°)	825.0	9.4			G1/1800
FVH (80°-90°)	1.2	0.0			G0/10
BL (0°-30°)	651.0	7.4	B2/1000		
BM (30°-60°)	1115.6	12.7	B2/2500		
BH (60°-80°)	145.4	1.6	B1/500		G1/500
BVH (80°-90°)	0.5	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°	1475.7	1475.7	1475.7	1475.7	1475.7	1475.7	1475.7	1475.7	1475.7	1475.7	1475.7
2.5°	1491.1	1490.1	1489.0	1495.2	1493.1	1492.1	1494.2	1494.2	1494.2	1488.0	1475.7
5°	1526.9	1526.9	1525.9	1532.0	1526.9	1523.8	1524.9	1524.9	1520.8	1509.5	1494.2
7.5°	1583.2	1581.2	1579.1	1585.2	1580.1	1579.1	1581.2	1575.0	1567.8	1549.4	1527.9
10°	1664.0	1664.0	1661.0	1667.1	1663.0	1661.0	1661.0	1656.9	1643.6	1614.9	1583.2
12.5°	1775.6	1770.5	1763.3	1758.2	1756.2	1755.1	1756.2	1750.0	1735.7	1698.8	1654.8
15°	1897.4	1893.3	1882.0	1873.8	1862.6	1860.5	1866.7	1861.6	1847.2	1797.1	1734.7
17.5°	2050.9	2056.0	2027.4	2010.0	1977.2	1975.2	1977.2	1985.4	1975.2	1910.7	1819.6
20°	2181.9	2186.0	2164.5	2152.2	2122.5	2109.2	2113.3	2126.6	2115.4	2039.6	1912.7
22.5°	2322.1	2327.2	2304.7	2279.1	2265.8	2265.8	2281.2	2299.6	2284.2	2185.0	2019.2
25°	2489.9	2494.0	2475.6	2441.8	2418.3	2448.0	2470.5	2519.6	2494.0	2358.9	2145.0
27.5°	2682.3	2683.4	2656.7	2621.9	2609.7	2664.9	2687.4	2763.2	2752.9	2554.4	2278.1
30°	2888.0	2889.1	2882.9	2859.4	2848.1	2920.8	2951.5	3061.0	3053.8	2796.9	2459.2
32.5°	3101.9	3101.9	3113.2	3111.1	3124.4	3243.2	3292.3	3417.1	3410.0	3093.7	2684.4
35°	3316.8	3317.9	3337.3	3386.4	3441.7	3599.3	3663.8	3815.2	3798.9	3448.9	2971.9
37.5°	3561.4	3551.2	3577.8	3651.5	3774.3	3956.5	4017.9	4162.2	4143.7	3812.2	3347.5
40°	3856.2	3837.7	3837.7	3923.7	4062.9	4272.7	4324.9	4396.5	4334.1	4105.9	3716.0
42.5°	4181.6	4164.2	4141.7	4217.4	4334.1	4497.8	4540.8	4521.4	4470.2	4383.2	4135.6
45°	4511.1	4484.5	4499.9	4545.9	4613.5	4691.3	4707.6	4617.6	4594.0	4618.6	4482.5
47.5°	4761.9	4743.5	4781.3	4845.8	4901.1	4912.3	4901.1	4776.2	4774.2	4861.1	4723.0
50°	4845.8	4847.8	4952.2	5093.5	5182.5	5191.7	5176.4	5033.1	5013.6	5039.2	4853.0
52.5°	4854.0	4862.2	5014.7	5283.8	5526.4	5636.9	5624.6	5470.1	5279.7	5252.1	5049.4
55°	4656.5	4704.6	4917.4	5310.4	5826.2	6179.3	6220.2	5924.5	5642.0	5618.5	5472.1
57.5°	3722.1	3820.3	4077.2	4637.0	5491.6	6235.6	6342.0	6129.1	5855.9	5755.6	5358.5
60°	2224.9	2346.7	2593.3	3280.0	4179.6	5125.2	5308.4	5338.0	5212.2	4922.5	4111.0
62.5°	954.8	944.6	1248.5	1774.6	2485.8	3257.5	3340.4	3469.3	3578.8	3275.9	2495.0
65°	327.5	356.1	495.3	800.3	1244.5	1512.6	1586.3	1701.9	1857.5	1533.1	913.9
67.5°	202.6	214.9	285.5	472.8	671.3	661.1	628.4	609.9	593.6	406.3	250.7
70°	147.4	157.6	200.6	325.4	451.3	317.3	275.3	223.1	247.7	228.2	178.1
72.5°	99.3	107.5	138.2	197.5	231.3	154.5	143.3	162.7	196.5	187.3	145.3
75°	59.4	64.5	78.8	96.2	94.2	79.8	80.8	114.6	150.4	140.2	103.4
77.5°	40.9	43.0	52.2	62.4	46.1	24.6	22.5	31.7	51.2	51.2	34.8
80°	10.2	13.3	13.3	8.2	7.2	6.1	6.1	9.2	14.3	10.2	5.1
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0
85°	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0
87.5°	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0
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°	1475.7	1475.7	1475.7	1475.7	1475.7	1475.7	1475.7	1475.7	1475.7	1475.7	1475.7
2.5°	1482.9	1470.6	1478.8	1476.8	1482.9	1485.0	1475.7	1473.7	1474.7	1462.4	1458.3
5°	1497.2	1482.9	1487.0	1482.9	1490.1	1496.2	1493.1	1497.2	1502.3	1493.1	1489.0
7.5°	1527.9	1513.6	1512.6	1506.4	1516.7	1520.8	1519.7	1531.0	1541.2	1535.1	1529.0
10°	1581.2	1561.7	1559.7	1554.5	1557.6	1560.7	1549.4	1551.5	1560.7	1553.5	1550.4
12.5°	1646.6	1623.1	1618.0	1605.7	1605.7	1590.4	1565.8	1560.7	1567.8	1562.7	1557.6
15°	1717.3	1685.5	1677.4	1655.9	1635.4	1606.7	1581.2	1575.0	1580.1	1574.0	1569.9
17.5°	1796.1	1760.2	1733.6	1695.8	1650.7	1617.0	1588.3	1575.0	1566.8	1554.5	1553.5
20°	1873.8	1826.8	1781.7	1721.4	1662.0	1610.8	1563.8	1529.0	1499.3	1480.9	1473.7
22.5°	1963.9	1894.3	1821.6	1736.7	1651.8	1574.0	1491.1	1431.7	1380.6	1363.2	1355.0
25°	2060.1	1970.0	1861.6	1751.0	1617.0	1492.1	1379.5	1291.5	1224.0	1201.5	1192.3
27.5°	2166.5	2042.7	1902.5	1748.0	1545.3	1375.4	1226.0	1116.5	1050.0	1029.5	1036.7
30°	2301.6	2136.9	1953.7	1716.2	1437.9	1211.7	1036.7	944.6	894.5	875.0	876.0
32.5°	2481.7	2271.9	2028.4	1648.7	1299.7	1025.4	871.9	804.4	770.6	745.0	743.0
35°	2739.6	2477.6	2098.0	1540.2	1131.9	859.7	748.1	694.9	647.8	618.1	623.2
37.5°	3048.7	2736.6	2135.8	1393.9	943.6	730.7	655.0	600.7	547.5	503.5	508.6
40°	3415.1	3075.3	2132.8	1201.5	771.6	642.7	577.2	513.7	447.2	407.3	411.4
42.5°	3823.4	3395.6	2066.2	997.8	639.6	571.1	502.5	422.7	358.2	333.6	334.7
45°	4177.5	3655.6	1949.6	787.0	538.3	501.5	424.7	342.8	314.2	296.8	295.8
47.5°	4439.5	3845.9	1782.8	619.2	456.4	438.0	349.0	307.0	284.5	270.2	268.1
50°	4585.8	3912.5	1598.5	485.1	385.8	371.5	312.1	278.4	263.0	253.8	251.8
52.5°	4782.3	3992.3	1466.5	382.8	323.4	303.9	287.6	258.9	248.7	241.5	238.5
55°	5093.5	4146.8	1351.9	303.9	269.2	265.1	271.2	247.7	241.5	230.3	226.2
57.5°	4800.8	3725.2	1050.0	235.4	227.2	242.5	262.0	236.4	221.1	210.8	206.7
60°	3378.2	2476.6	528.1	189.3	202.6	227.2	246.6	213.9	198.5	200.6	198.5
62.5°	1862.6	1239.3	237.4	158.6	176.0	200.6	210.8	185.2	175.0	192.4	195.5
65°	608.9	421.6	137.1	122.8	139.2	163.7	182.2	176.0	174.0	194.4	200.6
67.5°	187.3	139.2	93.1	88.0	96.2	120.8	153.5	190.4	204.7	210.8	213.9
70°	140.2	109.5	79.8	74.7	78.8	92.1	130.0	158.6	149.4	150.4	148.4
72.5°	112.6	87.0	68.6	65.5	65.5	63.5	68.6	86.0	97.2	102.3	102.3
75°	78.8	61.4	52.2	48.1	37.9	30.7	27.6	27.6	24.6	23.5	22.5
77.5°	26.6	22.5	20.5	16.4	11.3	9.2	8.2	7.2	5.1	3.1	2.0
80°	4.1	3.1	2.0	2.0	2.0	1.0	1.0	1.0	0.0	0.0	0.0
82.5°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0
85°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0
87.5°	2.0	2.0	2.0	2.0	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)