

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: P636553

Luminaire Tested: GWS-SA4B-722-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636553
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-722-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10239.4 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

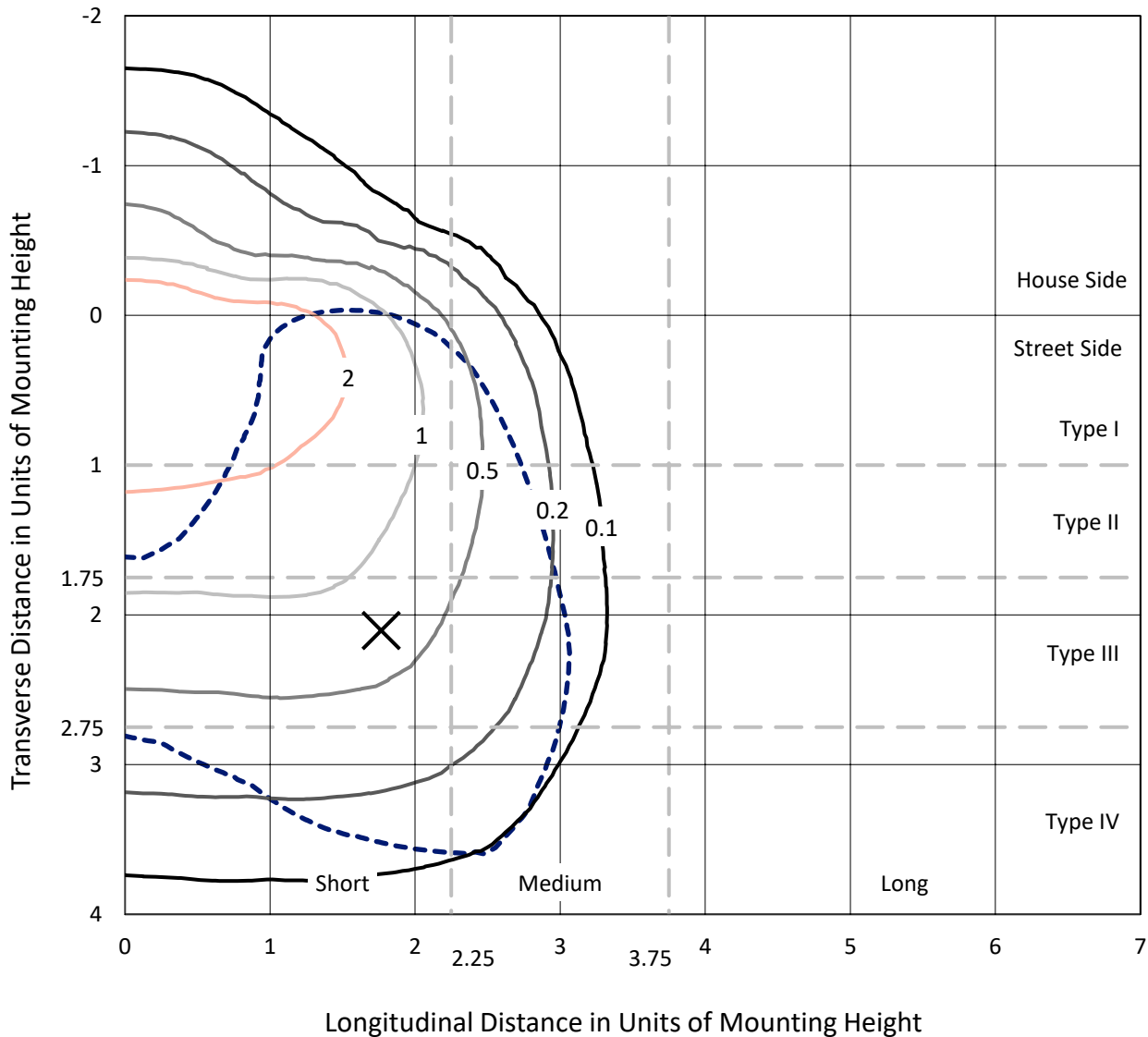
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

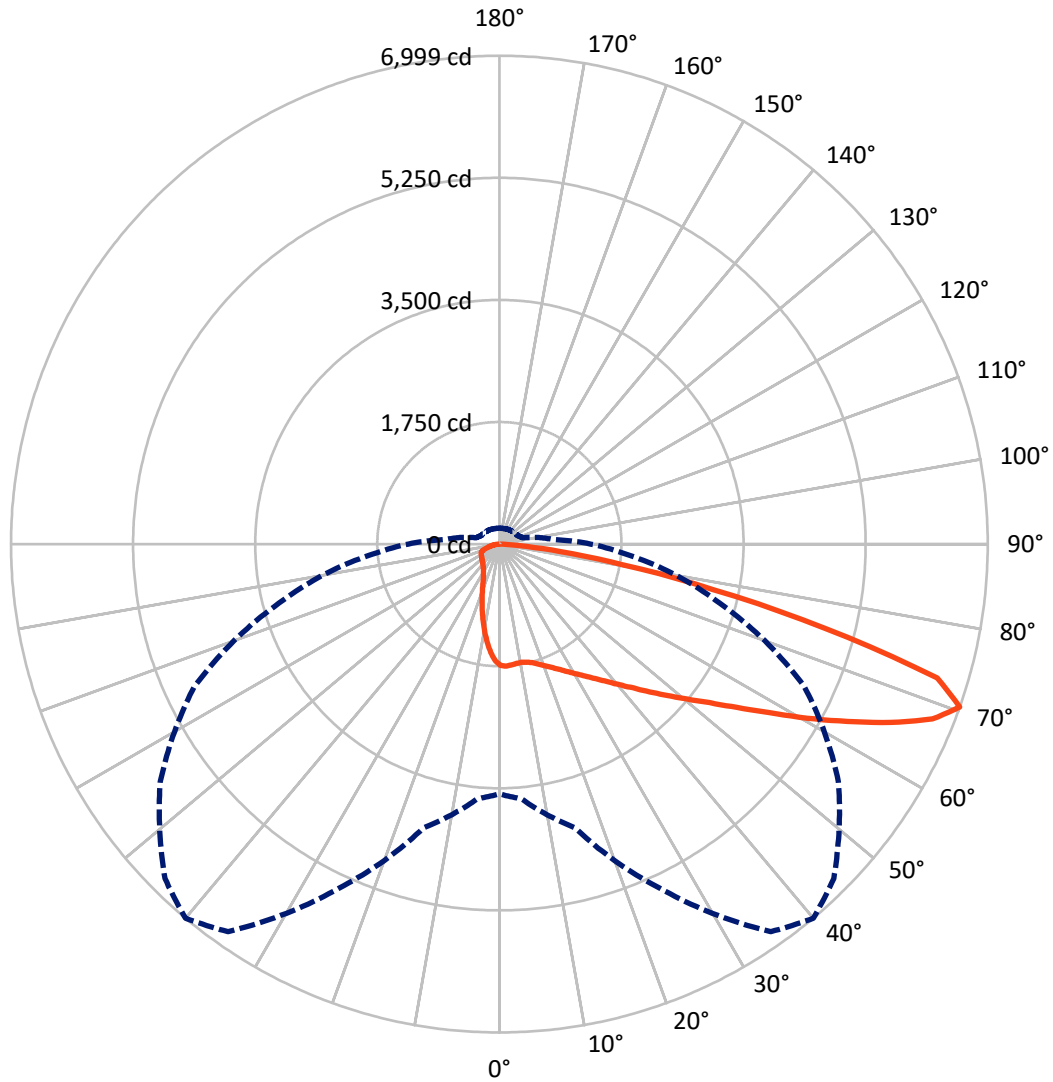
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1577.1	0.0	1577.1
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	8662.3	0.0	8662.3
	% Fixture	84.6	0.0	84.6
Total	Lumens	10239.4	0.0	10239.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.6	1.5
10°-20°	400.4	3.9
20°-30°	628.7	6.1
30°-40°	945.2	9.2
40°-50°	1459.0	14.2
50°-60°	2166.7	21.2
60°-70°	2731.1	26.7
70°-80°	1579.4	15.4
80°-90°	175.3	1.7
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°	10239.4	100.0
0°-180°	10239.4	100.0

Coefficient of Utilization



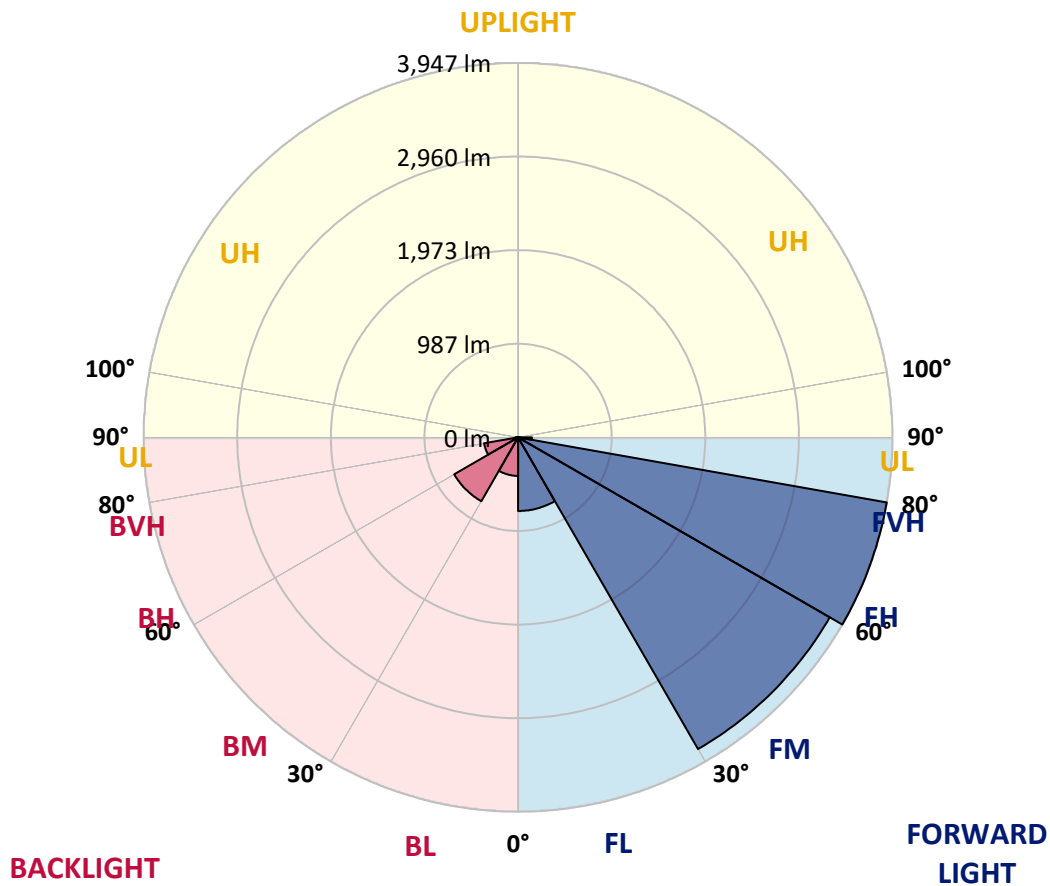
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	776.2	7.6			
FM (30°-60°)	3793.6	37.0			
FH (60°-80°)	3946.5	38.5			G2/5000
FVH (80°-90°)	146.0	1.4			G2/225
BL (0°-30°)	406.4	4.0	B1/500		
BM (30°-60°)	777.4	7.6	B1/1000		
BH (60°-80°)	364.0	3.6	B1/500		G1/500
BVH (80°-90°)	29.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1738.8	1738.8	1738.8	1738.8	1738.8	1738.8	1738.8	1738.8	1738.8	1738.8	1738.8
2.5°	1749.5	1752.5	1754.8	1757.9	1756.3	1751.8	1755.6	1755.6	1747.2	1738.0	1729.6
5°	1751.8	1755.6	1754.8	1754.1	1747.9	1740.3	1740.3	1735.7	1721.2	1706.7	1692.9
7.5°	1747.2	1746.4	1745.6	1743.4	1736.5	1728.1	1726.5	1717.4	1698.3	1678.4	1658.5
10°	1726.5	1725.8	1728.1	1733.4	1731.9	1724.2	1724.2	1715.8	1693.7	1669.2	1643.2
12.5°	1709.7	1709.7	1718.9	1733.4	1738.8	1735.7	1736.5	1730.4	1705.1	1676.1	1645.5
15°	1712.0	1712.8	1732.7	1756.3	1766.3	1764.0	1764.8	1757.9	1729.6	1700.6	1659.3
17.5°	1727.3	1731.1	1765.5	1798.4	1811.4	1808.3	1803.0	1791.5	1759.4	1726.5	1676.1
20°	1759.4	1765.5	1809.8	1851.1	1866.4	1859.5	1850.4	1827.4	1792.3	1756.3	1694.4
22.5°	1822.8	1826.7	1875.6	1916.1	1928.3	1919.9	1901.6	1868.7	1828.2	1790.7	1716.6
25°	1912.3	1916.8	1963.5	2000.9	1997.9	1987.9	1962.7	1922.2	1874.0	1834.3	1748.7
27.5°	2018.5	2026.1	2072.0	2101.8	2081.9	2067.4	2039.1	1990.2	1936.0	1900.0	1797.6
30°	2134.7	2137.7	2176.7	2206.5	2175.9	2156.1	2121.7	2068.9	2020.0	1993.3	1871.0
32.5°	2247.0	2250.1	2283.7	2300.5	2268.4	2253.9	2224.1	2168.3	2133.9	2119.4	1980.3
35°	2365.5	2364.7	2392.2	2406.8	2373.9	2367.8	2337.2	2294.4	2288.3	2307.4	2140.0
37.5°	2484.0	2477.1	2491.6	2510.7	2492.4	2498.5	2478.6	2464.1	2487.8	2537.5	2352.5
40°	2578.7	2578.7	2594.0	2617.7	2623.8	2650.6	2639.1	2658.2	2734.6	2853.1	2615.4
42.5°	2662.8	2663.6	2695.7	2732.3	2776.7	2817.9	2827.1	2876.8	3035.0	3220.7	2945.6
45°	2750.7	2751.5	2795.0	2848.5	2942.5	3021.3	3039.6	3151.2	3377.4	3603.6	3304.0
47.5°	2852.3	2843.9	2904.3	2993.7	3127.5	3240.6	3288.0	3446.2	3732.0	4010.2	3641.9
50°	2967.0	2949.4	3016.7	3171.1	3336.1	3491.3	3570.8	3751.9	4112.7	4385.5	3959.8
52.5°	3096.2	3086.2	3156.5	3344.5	3596.8	3775.6	3883.4	4121.1	4482.6	4759.3	4212.0
55°	3256.7	3233.0	3334.6	3573.8	3902.5	4130.2	4257.9	4486.4	4886.9	5098.6	4404.6
57.5°	3432.4	3406.5	3542.5	3860.4	4299.9	4549.8	4709.6	4897.6	5267.5	5358.5	4517.7
60°	3622.0	3613.6	3774.8	4196.7	4773.8	5064.2	5179.6	5350.1	5598.4	5509.0	4489.5
62.5°	3795.5	3792.4	4027.1	4561.3	5275.9	5595.4	5687.1	5732.2	5836.9	5499.1	4264.8
65°	3978.1	4004.1	4321.3	4984.0	5851.4	6164.8	6203.0	6088.4	5917.2	5238.5	3804.7
67.5°	4001.1	4051.5	4506.3	5379.9	6397.1	6692.9	6662.3	6223.6	5680.2	4513.2	2982.3
70°	3578.4	3666.3	4211.3	5440.2	6781.6	6999.4	6778.5	5932.4	4820.4	3269.6	1875.6
72.5°	2989.9	3065.6	3547.1	4639.3	6285.5	6563.0	6264.1	5021.4	3406.5	1875.6	955.4
75°	2327.3	2415.2	2859.2	3687.7	4705.8	4816.6	4666.8	3502.0	1872.5	773.5	434.1
77.5°	1420.1	1483.5	1829.0	2498.5	3292.6	3126.7	2649.8	1963.5	821.6	370.7	268.3
80°	628.2	667.2	901.1	1342.1	1902.3	1798.4	1417.8	838.4	449.4	235.4	187.3
82.5°	337.1	362.3	444.1	531.2	835.4	873.6	708.5	483.0	241.5	134.5	107.0
85°	148.3	162.8	201.8	192.6	274.4	269.8	272.1	331.7	115.4	61.9	69.6
87.5°	0.0	0.0	0.0	0.0	0.8	0.8	8.4	44.3	11.5	18.3	16.1
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°	1738.8	1738.8	1738.8	1738.8	1738.8	1738.8	1738.8	1738.8	1738.8	1738.8	1738.8
2.5°	1720.4	1706.7	1702.8	1698.3	1689.9	1675.3	1664.6	1652.4	1647.1	1640.9	1641.7
5°	1677.6	1660.8	1644.8	1624.1	1598.1	1569.1	1549.2	1526.3	1514.1	1502.6	1505.7
7.5°	1640.9	1615.0	1582.1	1538.5	1491.9	1439.9	1397.9	1365.0	1342.9	1327.6	1335.2
10°	1618.0	1587.4	1530.1	1459.0	1380.3	1300.8	1240.4	1183.9	1148.7	1121.2	1119.7
12.5°	1613.4	1573.7	1490.4	1387.2	1273.3	1167.1	1078.4	1002.0	955.4	921.0	934.0
15°	1618.0	1567.6	1456.0	1320.7	1177.0	1033.3	923.3	835.4	779.6	748.2	746.0
17.5°	1623.4	1561.5	1417.0	1248.9	1076.1	911.8	784.2	690.9	633.6	602.3	603.0
20°	1627.9	1552.3	1371.1	1170.1	973.7	798.7	666.5	577.8	526.6	503.7	507.5
22.5°	1635.6	1543.1	1322.2	1086.1	869.0	689.4	573.2	501.4	470.8	455.5	456.3
25°	1650.1	1537.8	1271.8	994.3	765.8	602.3	509.0	460.9	441.8	432.6	431.8
27.5°	1679.9	1542.3	1219.0	905.7	672.6	535.8	467.7	436.4	423.4	417.3	416.5
30°	1729.6	1560.7	1173.2	815.5	592.3	483.8	439.5	420.4	412.7	407.4	406.6
32.5°	1805.3	1595.1	1123.5	731.4	527.4	445.6	417.3	407.4	402.0	399.0	399.0
35°	1919.9	1657.8	1074.6	658.1	476.9	415.8	399.7	395.9	391.3	389.8	391.3
37.5°	2085.0	1757.9	1030.3	593.9	441.0	392.8	380.6	382.1	378.3	380.6	382.9
40°	2294.4	1891.6	992.8	541.1	414.2	376.0	363.8	369.2	366.9	369.2	373.0
42.5°	2559.6	2057.5	964.5	499.8	395.1	362.3	350.8	356.2	354.6	357.7	361.5
45°	2855.4	2276.1	951.5	470.8	381.4	352.3	340.1	343.9	342.4	344.7	348.5
47.5°	3139.0	2474.8	963.0	454.0	369.9	343.9	330.9	332.5	331.7	330.9	333.2
50°	3383.5	2633.0	995.9	448.6	362.3	335.5	323.3	324.1	321.8	317.2	318.7
52.5°	3583.0	2759.9	1015.7	448.6	358.5	326.4	314.9	315.7	311.1	305.0	305.7
55°	3714.5	2811.1	999.7	447.9	356.9	318.7	306.5	307.2	302.7	295.0	295.8
57.5°	3751.9	2761.4	932.4	439.5	355.4	312.6	298.1	299.6	296.5	288.1	288.1
60°	3647.2	2579.5	809.4	420.4	351.6	308.8	292.0	294.3	292.7	284.3	284.3
62.5°	3372.8	2256.2	662.6	391.3	340.9	304.2	286.6	291.2	295.0	290.4	289.7
65°	2859.2	1807.6	538.8	359.2	327.1	296.5	279.0	290.4	298.8	305.0	305.0
67.5°	2145.4	1293.9	439.5	325.6	306.5	281.3	269.0	279.7	285.8	289.7	292.0
70°	1307.7	761.2	346.2	286.6	276.7	258.3	249.2	238.5	230.1	228.5	229.3
72.5°	639.7	435.6	281.3	243.8	236.2	219.4	198.7	194.1	190.3	188.0	187.3
75°	352.3	303.4	232.3	202.5	188.8	168.1	163.6	155.9	154.4	151.3	152.1
77.5°	249.2	239.2	191.8	164.3	143.7	133.0	135.3	129.9	129.9	127.6	126.9
80°	187.3	188.0	147.5	120.0	106.2	102.4	104.7	104.7	103.2	102.4	101.7
82.5°	118.5	133.8	99.4	77.2	75.7	76.4	75.7	74.9	76.4	74.1	73.4
85°	81.8	96.3	60.4	45.9	45.9	45.1	46.6	45.9	47.4	45.1	45.1
87.5°	18.3	42.8	22.2	13.8	14.5	13.8	14.5	15.3	16.8	17.6	17.6
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)