

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: P630598

Luminaire Tested: GWS-SA1E-722-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630598
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1E-722-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5063.6 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

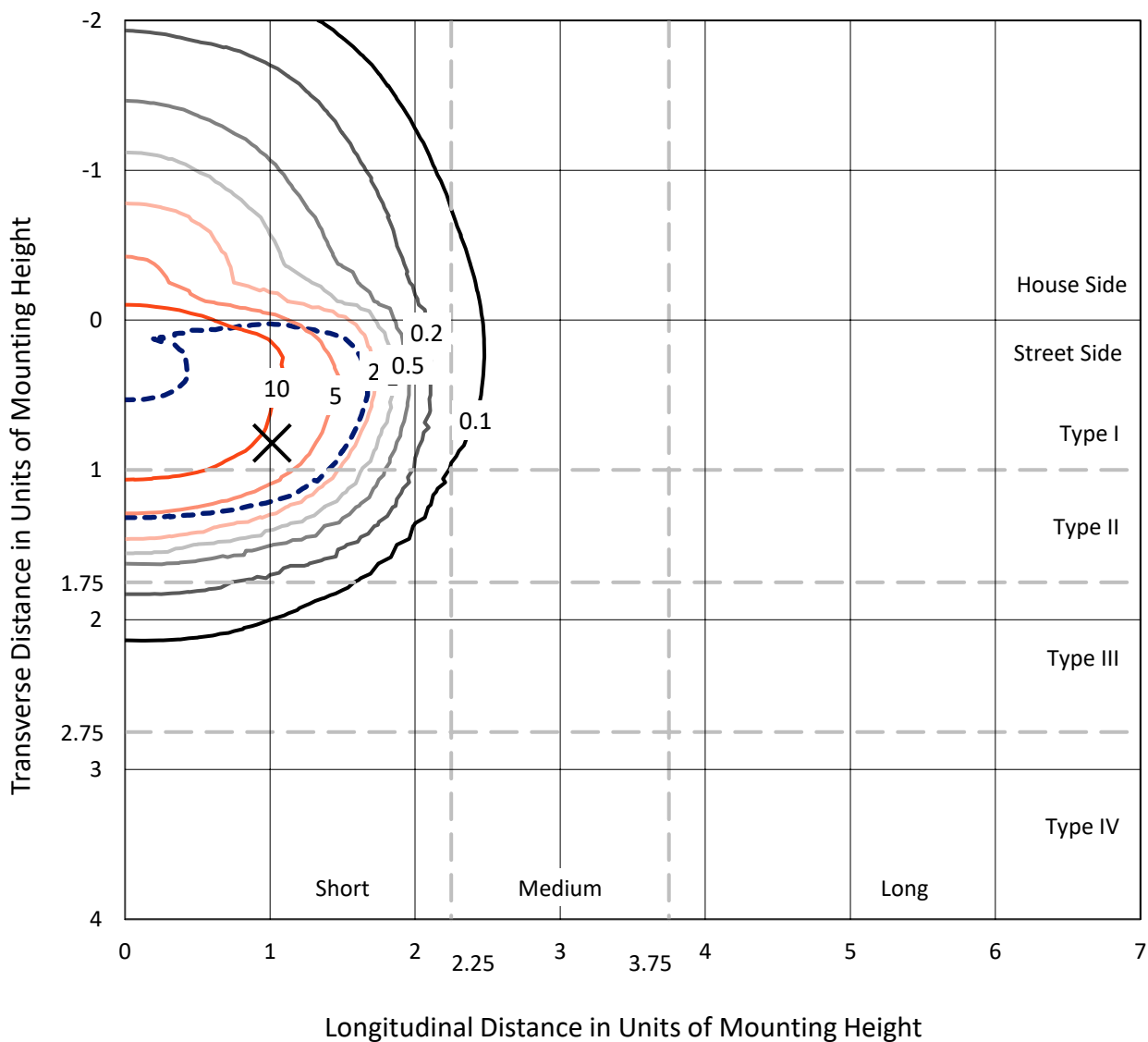
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

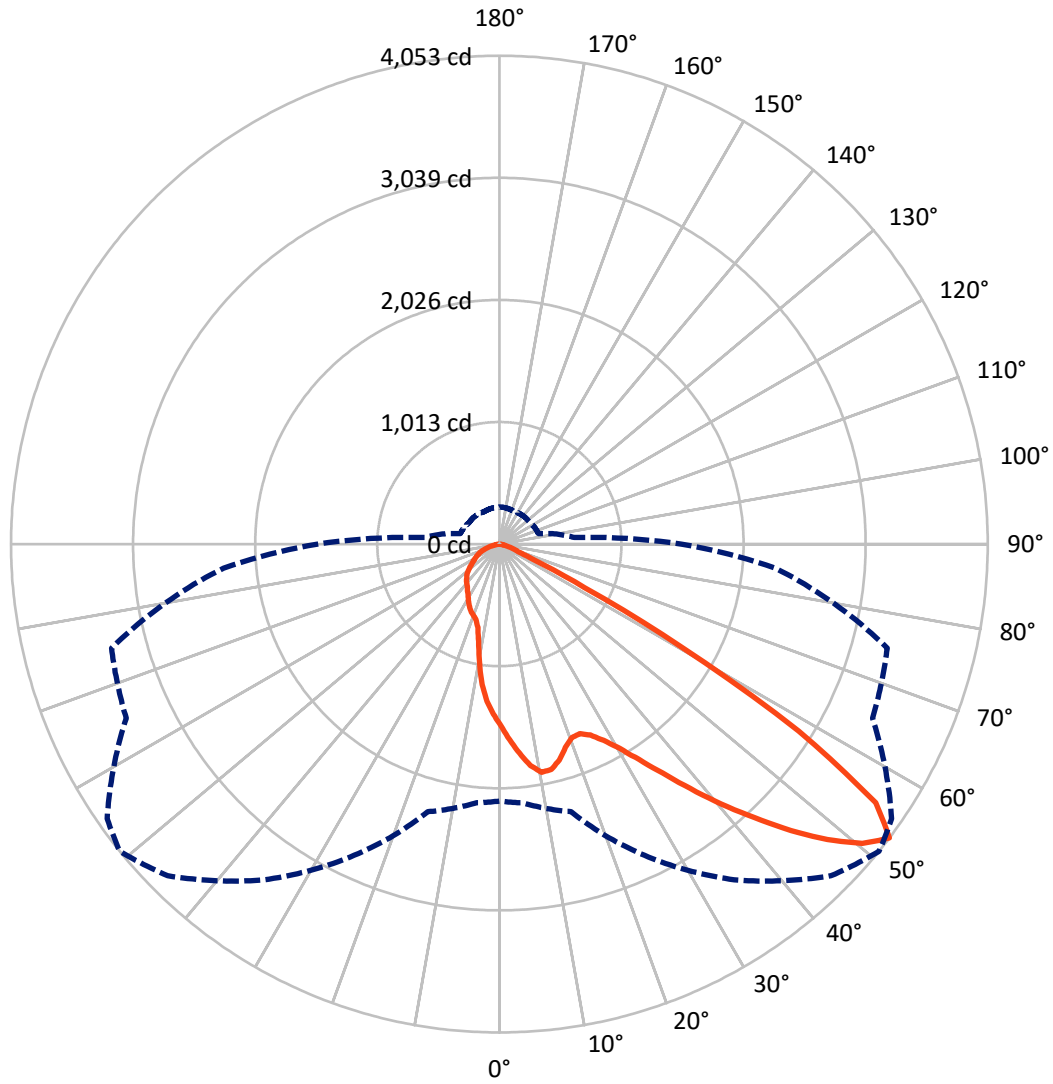
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	986.6	0.0	986.6
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	4077.0	0.0	4077.0
	% Fixture	80.5	0.0	80.5
Total	Lumens	5063.6	0.0	5063.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.7	2.8
10°-20°	365.6	7.2
20°-30°	594.4	11.7
30°-40°	942.0	18.6
40°-50°	1420.7	28.1
50°-60°	1229.0	24.3
60°-70°	278.6	5.5
70°-80°	82.1	1.6
80°-90°	10.6	0.2
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°	5063.6	100.0
0°-180°	5063.6	100.0

Coefficient of Utilization



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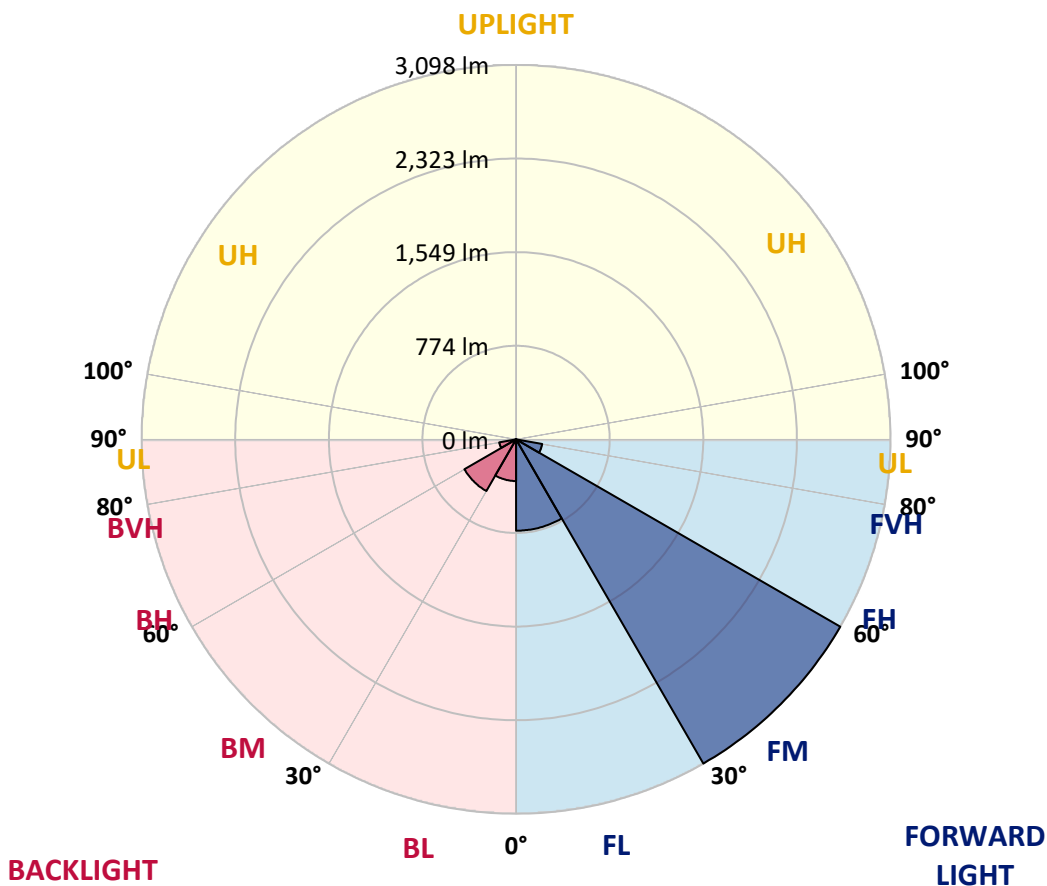
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	755.8	14.9			
FM (30°-60°)	3098.0	61.2			
FH (60°-80°)	219.3	4.3			G0/660
FVH (80°-90°)	4.0	0.1			G0/10
BL (0°-30°)	344.9	6.8	B1/500		
BM (30°-60°)	493.6	9.7	B1/1000		
BH (60°-80°)	141.5	2.8	B1/500		G1/500
BVH (80°-90°)	6.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	1507.7	1507.7	1507.7	1507.7	1507.7	1507.7	1507.7	1507.7	1507.7	1507.7	1507.7
2.5°	1680.1	1689.7	1674.9	1669.3	1660.1	1644.1	1625.7	1620.5	1580.9	1554.9	1525.7
5°	1849.0	1854.2	1842.2	1830.2	1807.4	1779.0	1743.4	1735.8	1663.7	1604.1	1542.1
7.5°	1886.6	1884.6	1895.0	1901.8	1899.0	1887.8	1856.2	1841.4	1755.4	1660.9	1569.3
10°	1737.8	1726.6	1765.0	1810.6	1865.4	1928.6	1925.0	1923.8	1849.0	1737.4	1604.1
12.5°	1540.5	1534.9	1566.1	1623.3	1727.0	1867.0	1919.4	1960.2	1933.4	1810.2	1642.9
15°	1427.7	1425.7	1446.9	1488.1	1570.5	1747.4	1859.4	1940.2	2005.8	1888.2	1684.1
17.5°	1407.3	1408.5	1415.7	1439.3	1498.5	1644.1	1773.8	1886.6	2062.3	1973.8	1735.8
20°	1466.9	1474.9	1462.5	1466.1	1498.1	1606.9	1715.4	1832.6	2098.3	2059.9	1791.4
22.5°	1599.3	1596.5	1569.3	1553.3	1553.7	1629.7	1709.0	1807.4	2121.9	2143.5	1841.8
25°	1749.4	1746.2	1713.8	1678.1	1655.7	1691.7	1755.0	1834.2	2143.1	2219.9	1882.2
27.5°	1926.6	1916.6	1880.6	1835.0	1785.4	1801.0	1843.8	1906.6	2175.9	2295.1	1909.0
30°	2098.3	2109.9	2058.3	2004.2	1951.8	1942.2	1967.0	2023.9	2242.7	2383.2	1941.0
32.5°	2326.0	2321.9	2264.7	2194.3	2119.5	2112.3	2131.9	2183.9	2362.8	2504.8	1989.8
35°	2601.6	2602.4	2521.2	2426.0	2319.5	2300.3	2333.2	2383.6	2541.6	2669.7	2067.1
37.5°	2888.1	2886.9	2816.1	2708.1	2562.8	2535.6	2573.2	2610.8	2765.3	2894.1	2187.1
40°	3089.0	3097.0	3063.8	3007.0	2869.3	2802.9	2836.1	2862.1	3008.6	3158.2	2345.2
42.5°	3203.0	3215.0	3222.2	3256.3	3183.8	3113.0	3101.0	3114.6	3225.8	3403.5	2493.6
45°	3227.4	3243.4	3295.9	3421.9	3449.9	3429.9	3390.7	3357.9	3387.9	3577.6	2590.8
47.5°	3119.8	3147.8	3259.9	3480.3	3644.0	3706.8	3663.2	3613.2	3481.5	3622.4	2580.8
50°	2693.3	2726.1	2978.6	3361.1	3671.6	3900.5	3904.5	3830.4	3470.3	3493.1	2455.2
52.5°	2132.3	2154.7	2299.1	2849.3	3400.7	3892.5	4052.5	3973.3	3416.3	3331.5	2297.9
55°	1274.4	1310.4	1445.3	1879.8	2649.3	3449.9	3790.8	3829.2	3389.9	3195.8	2190.7
57.5°	430.1	447.7	576.6	830.3	1561.3	2526.0	2928.9	3085.0	3077.4	2988.6	1981.4
60°	204.9	208.9	234.9	314.9	625.0	1320.0	1733.8	1913.8	2077.9	2094.3	1232.8
62.5°	156.1	158.5	171.7	188.9	251.3	556.2	794.7	932.3	995.9	854.7	448.9
65°	130.4	132.4	142.4	153.2	170.9	240.9	304.9	351.7	316.9	246.9	214.1
67.5°	108.8	110.4	118.0	129.6	141.6	161.3	169.3	174.1	182.5	204.9	196.9
70°	85.2	86.8	94.8	104.8	116.4	121.2	128.8	133.6	150.4	179.3	178.5
72.5°	65.6	67.6	72.0	78.4	88.0	92.8	101.2	106.8	116.4	139.6	149.2
75°	48.0	49.2	53.2	55.2	56.4	55.2	63.6	70.0	82.8	91.6	94.0
77.5°	19.6	22.0	21.2	21.2	25.2	30.4	34.8	38.8	47.6	52.8	53.2
80°	8.0	8.8	10.4	11.6	14.0	18.0	20.8	22.4	26.4	29.6	32.0
82.5°	4.8	5.2	6.0	6.4	8.0	10.4	12.0	13.2	16.4	19.6	20.8
85°	2.4	2.4	2.8	3.2	4.0	4.8	5.6	6.4	8.4	10.4	11.6
87.5°	0.4	0.4	0.4	0.8	1.2	1.6	2.0	2.4	2.8	3.2	4.0
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°	1507.7	1507.7	1507.7	1507.7	1507.7	1507.7	1507.7	1507.7	1507.7	1507.7	1507.7
2.5°	1508.5	1486.9	1461.7	1441.7	1418.5	1401.3	1376.8	1361.6	1347.2	1335.2	1326.4
5°	1510.1	1473.7	1421.3	1374.8	1326.8	1281.2	1234.4	1196.4	1162.4	1134.0	1131.6
7.5°	1519.3	1466.9	1384.8	1303.6	1210.0	1119.6	1029.1	955.5	899.5	870.3	864.3
10°	1534.9	1466.1	1347.6	1218.0	1058.3	912.7	805.5	749.4	717.0	705.4	701.4
12.5°	1551.3	1464.1	1300.0	1097.2	875.5	747.8	689.0	682.2	688.2	689.0	688.6
15°	1571.3	1462.9	1240.0	955.5	741.8	671.4	675.4	689.8	703.8	707.0	707.0
17.5°	1595.7	1460.1	1158.4	817.1	658.2	656.6	677.8	697.0	710.2	712.6	712.6
20°	1621.3	1452.9	1057.9	704.2	624.2	647.4	670.2	685.0	694.2	697.4	697.8
22.5°	1638.9	1433.7	942.3	620.6	603.0	629.8	646.2	661.4	661.4	653.4	651.0
25°	1642.5	1392.4	817.1	563.4	577.8	602.6	619.4	610.6	594.2	587.8	587.4
27.5°	1629.3	1332.4	693.4	522.6	547.4	572.2	569.4	556.6	549.4	543.0	545.4
30°	1613.3	1260.4	586.2	489.0	512.2	536.6	527.0	522.6	517.4	510.2	511.8
32.5°	1602.5	1180.0	503.8	462.9	488.6	492.6	499.4	499.0	494.2	480.6	479.8
35°	1605.7	1098.8	448.5	441.7	469.0	467.4	480.2	477.8	444.5	425.7	424.5
37.5°	1631.3	1020.7	416.1	424.9	437.7	447.7	458.9	430.1	418.5	406.5	407.3
40°	1680.1	948.3	398.5	415.7	418.9	433.7	407.7	407.3	402.1	391.3	390.9
42.5°	1735.4	887.1	386.5	411.3	406.9	409.7	382.1	385.3	384.9	378.1	376.1
45°	1769.0	830.7	376.9	394.9	396.1	368.1	359.7	363.3	365.3	361.7	361.3
47.5°	1734.2	765.8	366.9	369.7	380.1	349.3	338.9	339.3	342.9	343.3	341.7
50°	1636.5	693.4	354.9	348.1	341.3	329.7	320.1	318.1	321.7	325.3	326.5
52.5°	1510.5	624.2	334.9	324.5	308.5	308.5	304.1	297.7	302.5	307.3	308.9
55°	1418.1	573.0	306.5	294.9	277.3	283.3	282.5	276.9	283.3	286.9	288.1
57.5°	1228.8	460.5	269.7	266.1	251.3	258.5	260.1	252.9	249.7	250.5	251.7
60°	729.4	297.3	243.3	242.9	229.7	238.1	242.9	235.7	226.1	227.3	228.9
62.5°	327.3	227.3	210.1	208.5	208.1	218.9	224.1	217.3	203.7	204.9	206.5
65°	206.1	196.5	182.5	182.5	188.9	198.1	202.1	196.5	180.9	178.9	180.5
67.5°	191.3	182.9	168.5	165.7	168.9	176.5	176.9	166.1	156.9	155.3	155.3
70°	171.7	165.3	151.2	145.6	144.4	144.0	142.8	140.0	134.0	132.4	133.2
72.5°	142.0	137.6	128.8	122.8	119.6	119.2	114.4	112.0	106.8	106.0	105.6
75°	94.0	95.2	95.2	94.4	91.6	90.4	85.2	82.8	76.8	74.4	74.0
77.5°	55.6	56.8	58.4	58.8	58.4	58.4	53.6	50.8	44.8	41.6	40.8
80°	34.0	34.8	35.6	36.8	35.2	34.0	29.6	26.8	24.0	22.0	21.6
82.5°	22.0	22.8	23.2	24.0	23.2	21.6	18.0	16.4	14.4	12.8	12.4
85°	12.4	12.8	13.6	13.6	12.4	11.2	9.2	8.0	6.8	6.0	6.0
87.5°	4.4	4.4	4.4	4.8	4.0	3.6	2.4	1.6	1.2	1.2	1.2
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)