

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: P630983

Luminaire Tested: GWS-SA1E-827-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630983
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-827-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) 2700K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5053.5 lumens
Efficiency: N/A
Efficacy: 86.5 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

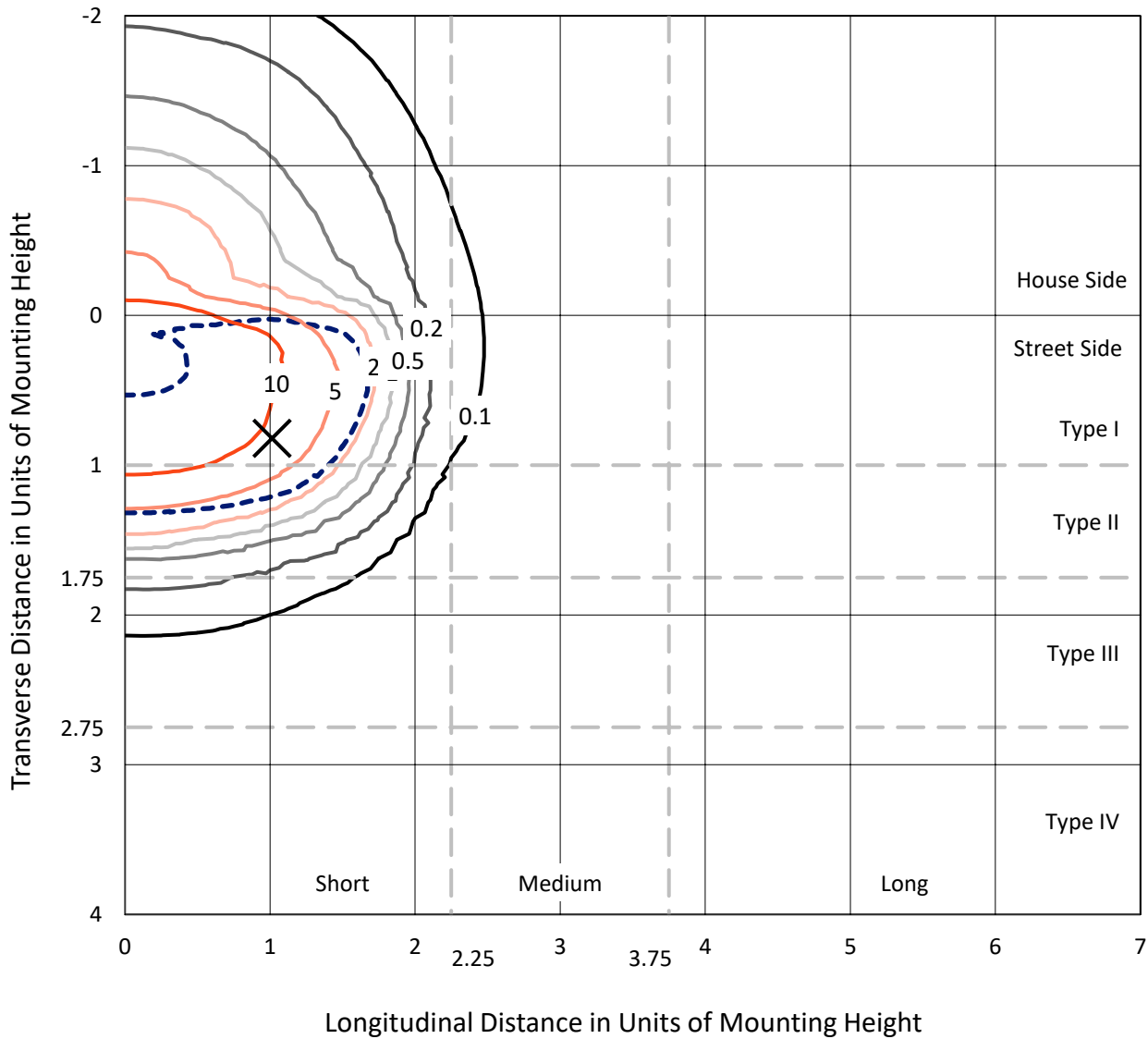
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

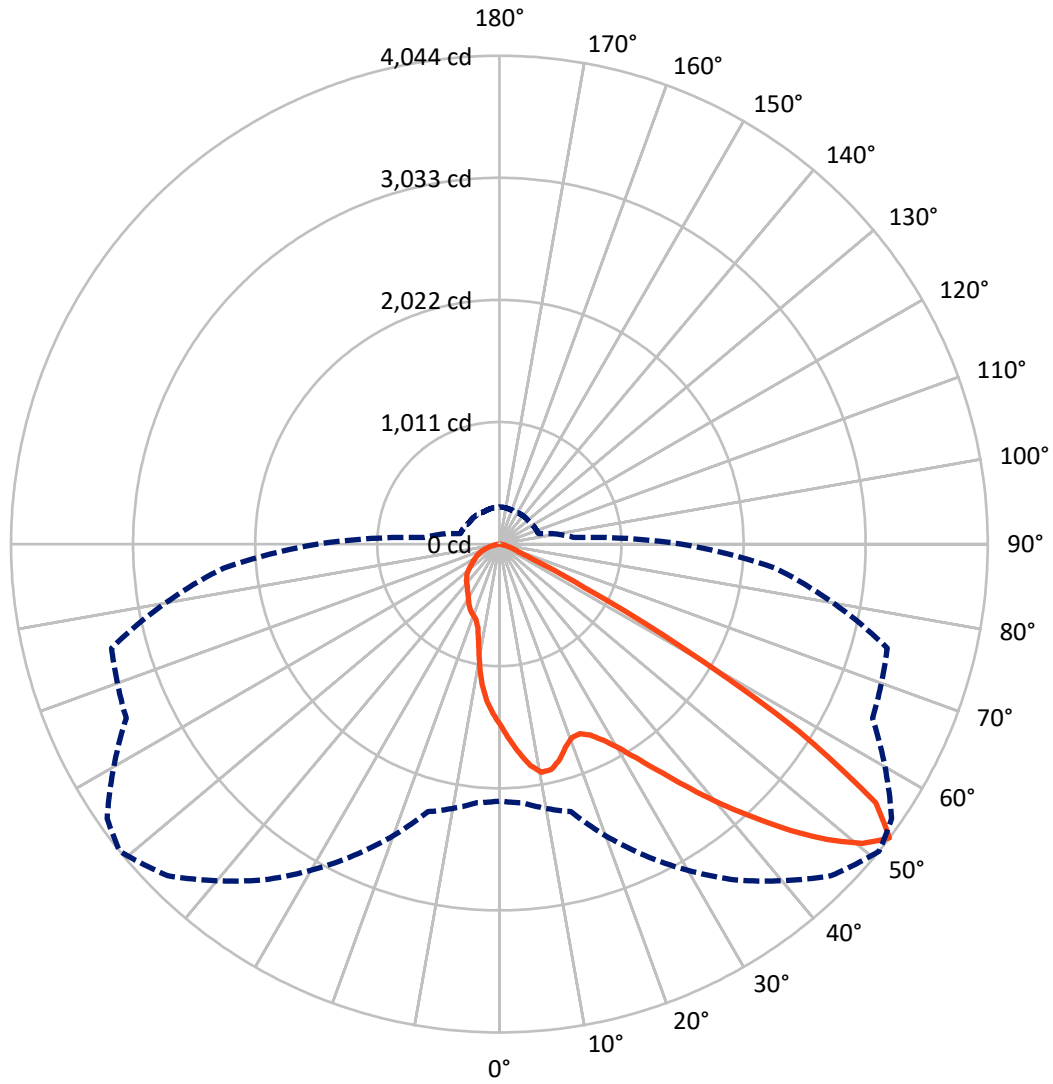
✕ Max cd
 - - - 1/2 Max cd



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	984.6	0.0	984.6
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	4068.9	0.0	4068.9
	% Fixture	80.5	0.0	80.5
Total	Lumens	5053.5	0.0	5053.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.4	2.8
10°-20°	364.8	7.2
20°-30°	593.2	11.7
30°-40°	940.1	18.6
40°-50°	1417.8	28.1
50°-60°	1226.5	24.3
60°-70°	278.1	5.5
70°-80°	82.0	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°	5053.5	100.0
0°-180°	5053.5	100.0

Coefficient of Utilization



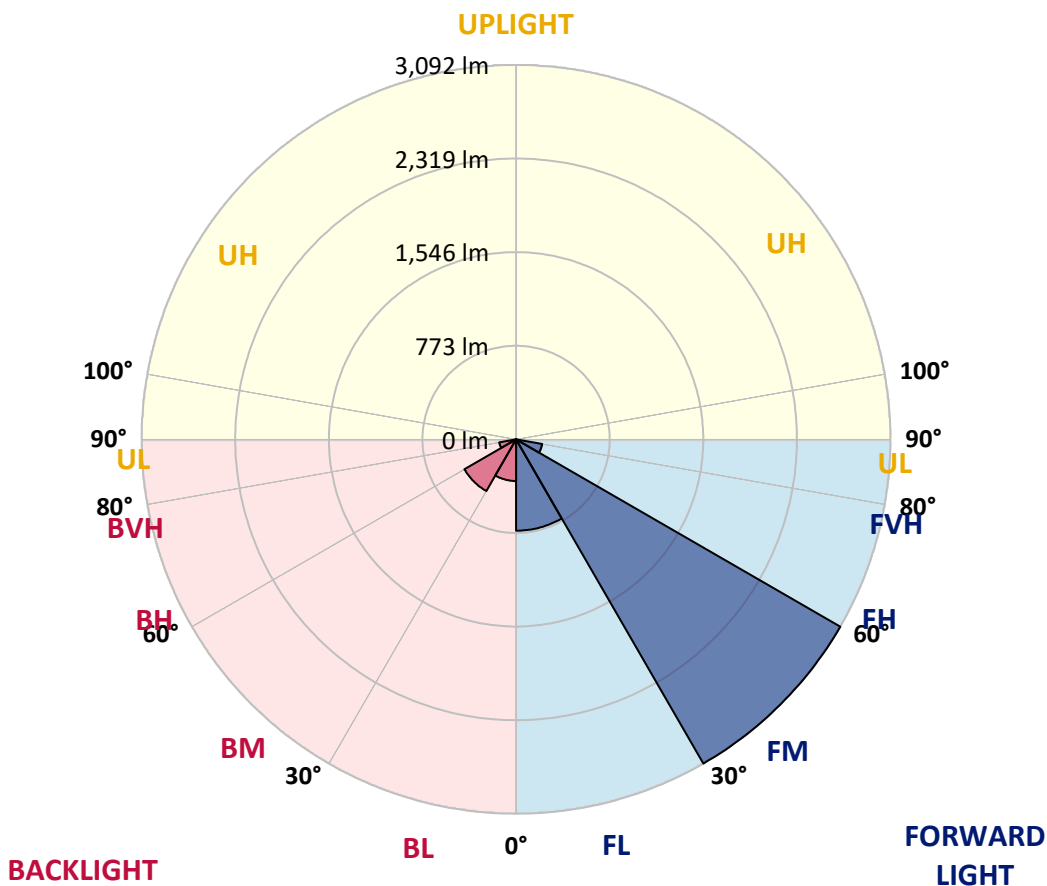
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	754.2	14.9			
FM (30°-60°)	3091.8	61.2			
FH (60°-80°)	218.8	4.3			G0/660
FVH (80°-90°)	4.0	0.1			G0/10
BL (0°-30°)	344.2	6.8	B1/500		
BM (30°-60°)	492.6	9.7	B1/1000		
BH (60°-80°)	141.2	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°	1504.7	1504.7	1504.7	1504.7	1504.7	1504.7	1504.7	1504.7	1504.7	1504.7	1504.7
2.5°	1676.8	1686.4	1671.6	1666.0	1656.8	1640.9	1622.5	1617.3	1577.8	1551.8	1522.6
5°	1845.3	1850.5	1838.5	1826.5	1803.8	1775.4	1739.9	1732.3	1660.4	1600.9	1539.0
7.5°	1882.8	1880.8	1891.2	1898.0	1895.2	1884.0	1852.5	1837.7	1751.9	1657.6	1566.2
10°	1734.3	1723.1	1761.4	1807.0	1861.7	1924.8	1921.2	1920.0	1845.3	1733.9	1600.9
12.5°	1537.4	1531.8	1563.0	1620.1	1723.5	1863.3	1915.6	1956.3	1929.6	1806.6	1639.7
15°	1424.8	1422.8	1444.0	1485.1	1567.4	1743.9	1855.7	1936.4	2001.8	1884.4	1680.8
17.5°	1404.4	1405.6	1412.8	1436.4	1495.5	1640.9	1770.2	1882.8	2058.2	1969.9	1732.3
20°	1463.9	1471.9	1459.6	1463.1	1495.1	1603.7	1711.9	1828.9	2094.1	2055.8	1787.8
22.5°	1596.1	1593.3	1566.2	1550.2	1550.6	1626.5	1705.5	1803.8	2117.7	2139.2	1838.1
25°	1745.9	1742.7	1710.3	1674.8	1652.4	1688.4	1751.5	1830.5	2138.8	2215.5	1878.5
27.5°	1922.8	1912.8	1876.9	1831.3	1781.8	1797.4	1840.1	1902.8	2171.6	2290.6	1905.2
30°	2094.1	2105.7	2054.2	2000.2	1947.9	1938.4	1963.1	2019.8	2238.3	2378.4	1937.2
32.5°	2321.3	2317.3	2260.2	2189.9	2115.3	2108.1	2127.6	2179.5	2358.0	2499.8	1985.9
35°	2596.4	2597.2	2516.2	2421.1	2314.9	2295.8	2328.5	2378.8	2536.6	2664.3	2062.9
37.5°	2882.4	2881.2	2810.5	2702.7	2557.7	2530.6	2568.1	2605.6	2759.8	2888.4	2182.7
40°	3082.8	3090.8	3057.7	3001.0	2863.6	2797.3	2830.5	2856.4	3002.6	3151.9	2340.5
42.5°	3196.6	3208.6	3215.8	3249.8	3177.5	3106.8	3094.8	3108.4	3219.4	3396.7	2488.6
45°	3221.0	3237.0	3289.3	3415.1	3443.0	3423.1	3383.9	3351.2	3381.1	3570.4	2585.7
47.5°	3113.6	3141.5	3253.3	3473.4	3636.7	3699.4	3655.9	3606.0	3474.6	3615.1	2575.7
50°	2687.9	2720.6	2972.6	3354.4	3664.3	3892.7	3896.7	3822.8	3463.4	3486.2	2450.3
52.5°	2128.0	2150.4	2294.6	2843.6	3393.9	3884.7	4044.4	3965.4	3409.5	3324.8	2293.4
55°	1271.9	1307.8	1442.4	1876.1	2644.0	3443.0	3783.3	3821.6	3383.1	3189.5	2186.3
57.5°	429.3	446.9	575.4	828.6	1558.2	2521.0	2923.1	3078.8	3071.3	2982.6	1977.5
60°	204.5	208.5	234.4	314.3	623.8	1317.4	1730.3	1910.0	2073.7	2090.1	1230.3
62.5°	155.7	158.1	171.3	188.5	250.8	555.1	793.1	930.4	993.9	853.0	448.0
65°	130.2	132.2	142.2	152.9	170.5	240.4	304.3	351.0	316.3	246.4	213.6
67.5°	108.6	110.2	117.8	129.4	141.4	160.9	168.9	173.7	182.1	204.5	196.5
70°	85.1	86.7	94.6	104.6	116.2	121.0	128.6	133.4	150.1	178.9	178.1
72.5°	65.5	67.5	71.9	78.3	87.9	92.6	101.0	106.6	116.2	139.4	149.0
75°	47.9	49.1	53.1	55.1	56.3	55.1	63.5	69.9	82.7	91.4	93.8
77.5°	19.6	22.0	21.2	21.2	25.2	30.3	34.7	38.7	47.5	52.7	53.1
80°	8.0	8.8	10.4	11.6	14.0	18.0	20.8	22.4	26.4	29.6	31.9
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°	1504.7	1504.7	1504.7	1504.7	1504.7	1504.7	1504.7	1504.7	1504.7	1504.7	1504.7
2.5°	1505.5	1483.9	1458.8	1438.8	1415.6	1398.5	1374.1	1358.9	1344.5	1332.6	1323.8
5°	1507.1	1470.7	1418.4	1372.1	1324.2	1278.7	1231.9	1194.0	1160.1	1131.7	1129.3
7.5°	1516.3	1463.9	1382.1	1301.0	1207.6	1117.3	1027.1	953.6	897.7	868.5	862.6
10°	1531.8	1463.1	1344.9	1215.6	1056.2	910.9	803.9	747.9	715.6	704.0	700.0
12.5°	1548.2	1461.2	1297.4	1095.0	873.7	746.3	687.6	680.9	686.8	687.6	687.2
15°	1568.2	1460.0	1237.5	953.6	740.4	670.1	674.1	688.4	702.4	705.6	705.6
17.5°	1592.5	1457.2	1156.1	815.4	656.9	655.3	676.5	695.6	708.8	711.2	711.2
20°	1618.1	1450.0	1055.8	702.8	623.0	646.1	668.9	683.7	692.8	696.0	696.4
22.5°	1635.7	1430.8	940.4	619.4	601.8	628.5	644.9	660.1	660.1	652.1	649.7
25°	1639.3	1389.7	815.4	562.3	576.6	601.4	618.2	609.4	593.0	586.6	586.2
27.5°	1626.1	1329.8	692.0	521.5	546.3	571.0	568.2	555.5	548.3	541.9	544.3
30°	1610.1	1257.9	585.0	488.0	511.1	535.5	525.9	521.5	516.3	509.1	510.7
32.5°	1599.3	1177.6	502.8	462.0	487.6	491.6	498.4	498.0	493.2	479.6	478.8
35°	1602.5	1096.6	447.7	440.9	468.0	466.4	479.2	476.8	443.7	424.9	423.7
37.5°	1628.1	1018.7	415.3	424.1	436.9	446.9	458.0	429.3	417.7	405.7	406.5
40°	1676.8	946.4	397.7	414.9	418.1	432.9	406.9	406.5	401.3	390.5	390.1
42.5°	1731.9	885.3	385.8	410.5	406.1	408.9	381.4	384.6	384.2	377.4	375.4
45°	1765.4	829.0	376.2	394.1	395.3	367.4	359.0	362.6	364.6	361.0	360.6
47.5°	1730.7	764.3	366.2	369.0	379.4	348.6	338.2	338.6	342.2	342.6	341.0
50°	1633.3	692.0	354.2	347.4	340.6	329.0	319.5	317.5	321.1	324.7	325.9
52.5°	1507.5	623.0	334.2	323.9	307.9	307.9	303.5	297.1	301.9	306.7	308.3
55°	1415.2	571.8	305.9	294.3	276.7	282.7	281.9	276.3	282.7	286.3	287.5
57.5°	1226.3	459.6	269.1	265.6	250.8	258.0	259.6	252.4	249.2	250.0	251.2
60°	728.0	296.7	242.8	242.4	229.2	237.6	242.4	235.2	225.6	226.8	228.4
62.5°	326.7	226.8	209.6	208.1	207.7	218.4	223.6	216.8	203.3	204.5	206.1
65°	205.7	196.1	182.1	182.1	188.5	197.7	201.7	196.1	180.5	178.5	180.1
67.5°	190.9	182.5	168.1	165.3	168.5	176.1	176.5	165.7	156.5	154.9	154.9
70°	171.3	164.9	150.9	145.4	144.2	143.8	142.6	139.8	133.8	132.2	133.0
72.5°	141.8	137.4	128.6	122.6	119.4	119.0	114.2	111.8	106.6	105.8	105.4
75°	93.8	95.0	95.0	94.2	91.4	90.2	85.1	82.7	76.7	74.3	73.9
77.5°	55.5	56.7	58.3	58.7	58.3	58.3	53.5	50.7	44.7	41.5	40.7
80°	33.9	34.7	35.5	36.7	35.1	33.9	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)