

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: P630323

Luminaire Tested: GWS-SA1D-740-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630323
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-SA1D-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5501.1 lumens
Efficiency: N/A
Efficacy: 124.2 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

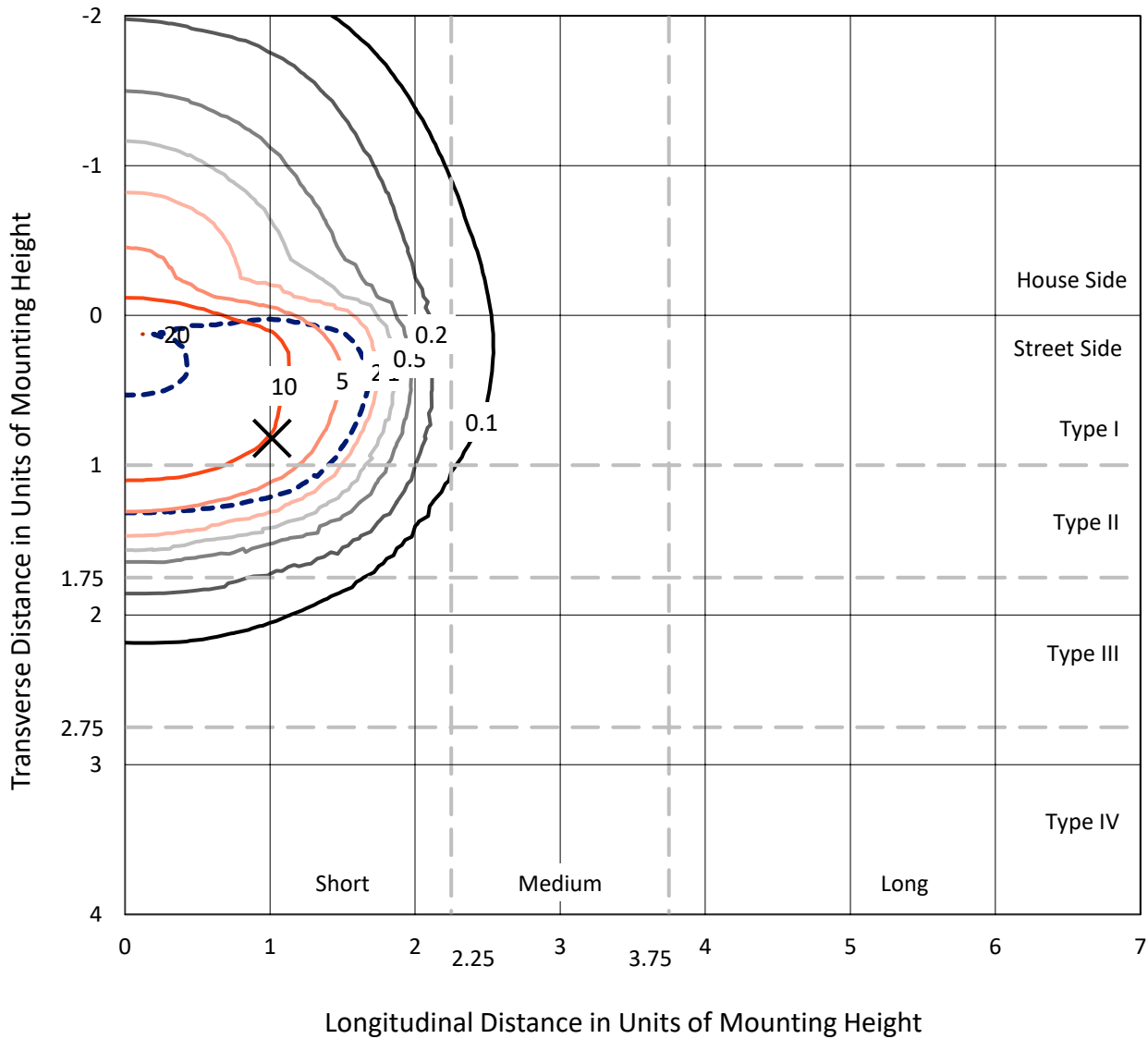
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

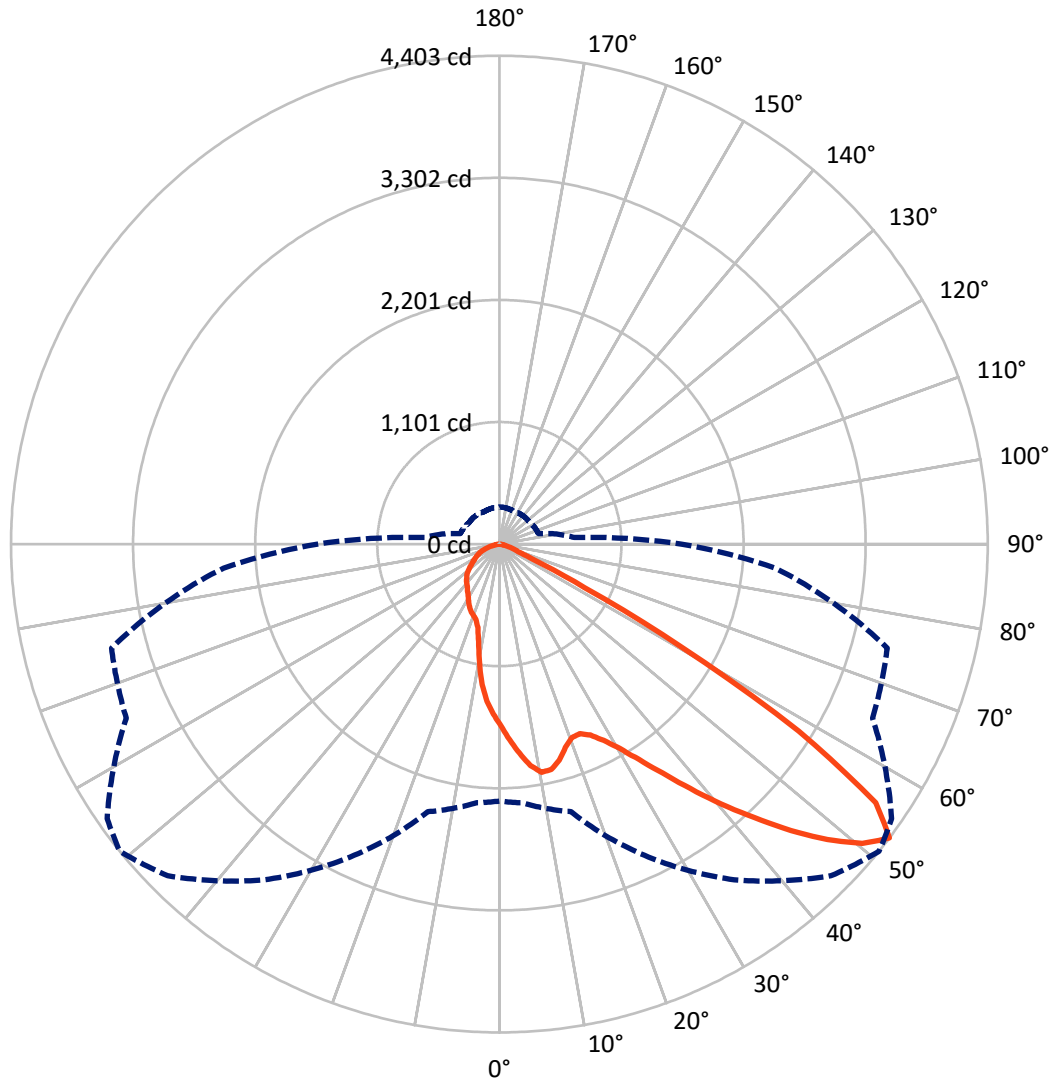
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20 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	1071.8	0.0	1071.8
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	4429.3	0.0	4429.3
	% Fixture	80.5	0.0	80.5
Total	Lumens	5501.1	0.0	5501.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.8	2.8
10°-20°	397.1	7.2
20°-30°	645.7	11.7
30°-40°	1023.3	18.6
40°-50°	1543.4	28.1
50°-60°	1335.2	24.3
60°-70°	302.7	5.5
70°-80°	89.3	1.6
80°-90°	11.5	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°	5501.1	100.0
0°-180°	5501.1	100.0

Coefficient of Utilization



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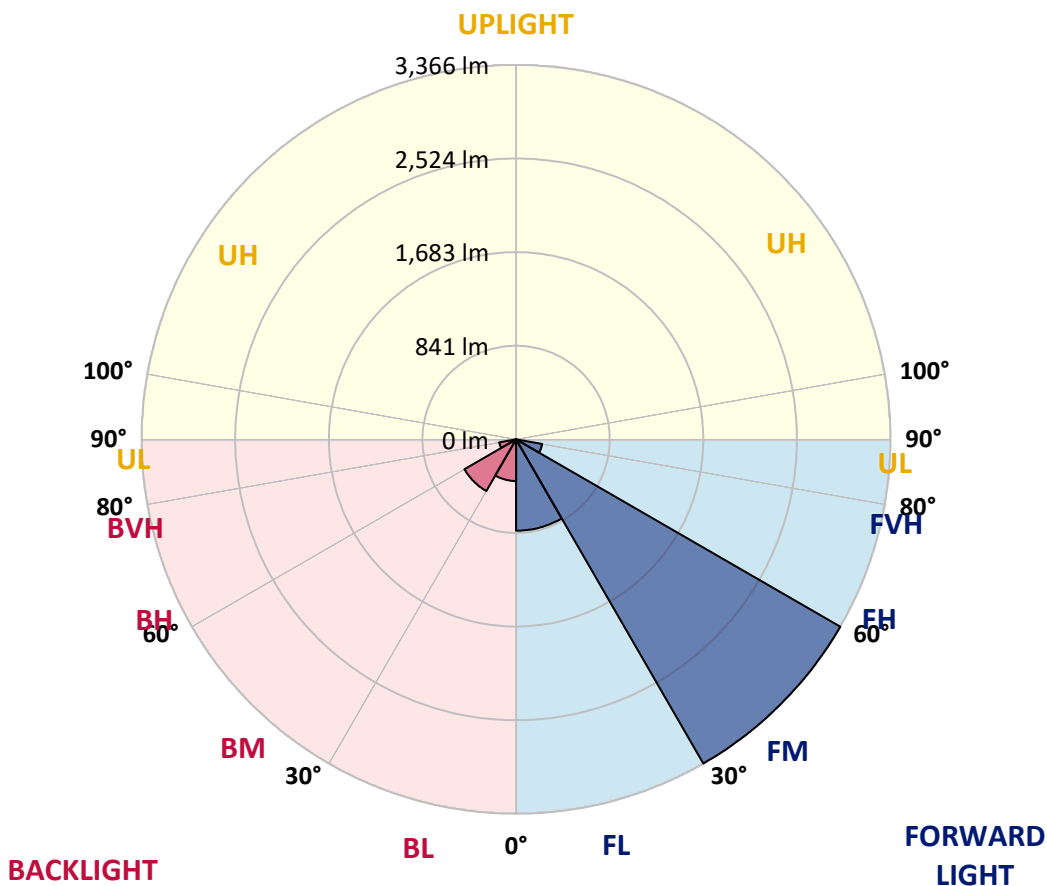
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	821.1	14.9			
FM (30°-60°)	3365.7	61.2			
FH (60°-80°)	238.2	4.3			G0/660
FVH (80°-90°)	4.3	0.1			G0/10
BL (0°-30°)	374.7	6.8	B1/500		
BM (30°-60°)	536.3	9.7	B1/1000		
BH (60°-80°)	153.7	2.8	B1/500		G1/500
BVH (80°-90°)	7.2	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°	1638.0	1638.0	1638.0	1638.0	1638.0	1638.0	1638.0	1638.0	1638.0	1638.0	1638.0
2.5°	1825.3	1835.7	1819.7	1813.6	1803.6	1786.2	1766.2	1760.5	1717.5	1689.2	1657.5
5°	2008.8	2014.4	2001.4	1988.3	1963.5	1932.7	1894.0	1885.7	1807.5	1742.7	1675.3
7.5°	2049.6	2047.4	2058.7	2066.1	2063.1	2050.9	2016.6	2000.5	1907.0	1804.4	1704.9
10°	1887.9	1875.7	1917.5	1967.0	2026.6	2095.3	2091.3	2090.0	2008.8	1887.5	1742.7
12.5°	1673.6	1667.5	1701.4	1763.6	1876.2	2028.3	2085.3	2129.6	2100.5	1966.6	1784.9
15°	1551.0	1548.8	1571.9	1616.7	1706.2	1898.3	2020.1	2107.9	2179.2	2051.4	1829.7
17.5°	1528.8	1530.1	1538.0	1563.6	1628.0	1786.2	1927.0	2049.6	2240.4	2144.4	1885.7
20°	1593.6	1602.3	1588.8	1592.7	1627.5	1745.8	1863.6	1990.9	2279.6	2237.8	1946.2
22.5°	1737.5	1734.5	1704.9	1687.5	1687.9	1770.5	1856.6	1963.5	2305.2	2328.7	2000.9
25°	1900.5	1897.0	1861.8	1823.1	1798.8	1837.9	1906.6	1992.7	2328.3	2411.7	2044.8
27.5°	2093.1	2082.2	2043.1	1993.5	1939.6	1956.6	2003.1	2071.3	2363.9	2493.4	2074.0
30°	2279.6	2292.2	2236.1	2177.4	2120.5	2110.0	2137.0	2198.7	2436.5	2589.1	2108.7
32.5°	2526.9	2522.6	2460.4	2383.9	2302.6	2294.8	2316.1	2372.6	2566.9	2721.2	2161.8
35°	2826.4	2827.3	2739.0	2635.6	2520.0	2499.1	2534.7	2589.5	2761.2	2900.3	2245.7
37.5°	3137.7	3136.4	3059.4	2942.1	2784.3	2754.7	2795.6	2836.4	3004.2	3144.2	2376.1
40°	3355.9	3364.6	3328.5	3266.8	3117.2	3045.1	3081.2	3109.4	3268.5	3431.1	2547.8
42.5°	3479.8	3492.8	3500.6	3537.6	3458.9	3382.0	3368.9	3383.7	3504.6	3697.6	2709.1
45°	3506.3	3523.7	3580.6	3717.6	3748.0	3726.3	3683.7	3648.0	3680.6	3886.7	2814.7
47.5°	3389.4	3419.8	3541.5	3781.0	3958.8	4027.1	3979.7	3925.3	3782.3	3935.3	2803.8
50°	2926.0	2961.6	3235.9	3651.5	3988.8	4237.5	4241.8	4161.4	3770.2	3794.9	2667.3
52.5°	2316.5	2340.9	2497.8	3095.5	3694.5	4228.8	4402.6	4316.6	3711.5	3619.3	2496.5
55°	1384.5	1423.6	1570.1	2042.2	2878.2	3748.0	4118.4	4160.1	3682.8	3472.0	2380.0
57.5°	467.3	486.4	626.4	902.0	1696.2	2744.3	3182.0	3351.5	3343.3	3246.8	2152.6
60°	222.6	226.9	255.2	342.1	679.0	1434.1	1883.6	2079.2	2257.4	2275.2	1339.3
62.5°	169.5	172.1	186.5	205.2	273.0	604.2	863.3	1012.9	1082.0	928.5	487.7
65°	141.7	143.9	154.8	166.5	185.6	261.7	331.2	382.1	344.3	268.2	232.6
67.5°	118.2	120.0	128.2	140.8	153.9	175.2	183.9	189.1	198.2	222.6	213.9
70°	92.6	94.3	103.0	113.9	126.5	131.7	140.0	145.2	163.4	194.7	193.9
72.5°	71.3	73.5	78.2	85.2	95.6	100.9	110.0	116.1	126.5	151.7	162.1
75°	52.2	53.5	57.8	60.0	61.3	60.0	69.1	76.1	90.0	99.5	102.2
77.5°	21.3	23.9	23.0	23.0	27.4	33.0	37.8	42.2	51.7	57.4	57.8
80°	8.7	9.6	11.3	12.6	15.2	19.6	22.6	24.3	28.7	32.2	34.8
82.5°	5.2	5.7	6.5	7.0	8.7	11.3	13.0	14.3	17.8	21.3	22.6
85°	2.6	2.6	3.0	3.5	4.3	5.2	6.1	7.0	9.1	11.3	12.6
87.5°	0.4	0.4	0.4	0.9	1.3	1.7	2.2	2.6	3.0	3.5	4.3
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°	1638.0	1638.0	1638.0	1638.0	1638.0	1638.0	1638.0	1638.0	1638.0	1638.0	1638.0
2.5°	1638.8	1615.3	1588.0	1566.2	1541.0	1522.3	1495.8	1479.3	1463.6	1450.6	1441.0
5°	1640.6	1601.0	1544.1	1493.6	1441.5	1391.9	1341.1	1299.8	1262.8	1231.9	1229.3
7.5°	1650.6	1593.6	1504.5	1416.3	1314.5	1216.3	1118.0	1038.1	977.2	945.5	939.0
10°	1667.5	1592.7	1464.1	1323.2	1149.8	991.6	875.1	814.2	779.0	766.4	762.0
12.5°	1685.3	1590.6	1412.3	1191.9	951.1	812.5	748.6	741.2	747.7	748.6	748.1
15°	1707.1	1589.3	1347.1	1038.1	805.9	729.4	733.8	749.4	764.6	768.1	768.1
17.5°	1733.6	1586.2	1258.5	887.7	715.1	713.3	736.4	757.2	771.6	774.2	774.2
20°	1761.4	1578.4	1149.3	765.1	678.1	703.3	728.1	744.2	754.2	757.7	758.1
22.5°	1780.5	1557.5	1023.7	674.2	655.1	684.2	702.0	718.6	718.6	709.9	707.3
25°	1784.4	1512.8	887.7	612.1	627.7	654.7	672.9	663.4	645.5	638.6	638.1
27.5°	1770.1	1447.6	753.3	567.7	594.7	621.6	618.6	604.7	596.8	589.9	592.5
30°	1752.7	1369.3	636.8	531.2	556.4	582.9	572.5	567.7	562.1	554.2	556.0
32.5°	1741.0	1281.9	547.3	502.9	530.8	535.1	542.5	542.1	536.9	522.1	521.2
35°	1744.5	1193.7	487.3	479.9	509.5	507.7	521.6	519.0	483.0	462.5	461.2
37.5°	1772.3	1108.9	452.1	461.7	475.6	486.4	498.6	467.3	454.7	441.7	442.5
40°	1825.3	1030.2	433.0	451.7	455.1	471.2	443.0	442.5	436.9	425.1	424.7
42.5°	1885.3	963.7	419.9	446.9	442.1	445.1	415.1	418.6	418.2	410.8	408.6
45°	1921.8	902.4	409.5	429.0	430.4	399.9	390.8	394.7	396.9	393.0	392.5
47.5°	1884.0	832.0	398.6	401.7	413.0	379.5	368.2	368.6	372.5	373.0	371.2
50°	1777.9	753.3	385.6	378.2	370.8	358.2	347.8	345.6	349.5	353.4	354.7
52.5°	1641.0	678.1	363.8	352.5	335.2	335.2	330.4	323.4	328.6	333.9	335.6
55°	1540.6	622.5	333.0	320.4	301.2	307.8	306.9	300.8	307.8	311.7	313.0
57.5°	1335.0	500.3	293.0	289.1	273.0	280.8	282.6	274.7	271.3	272.1	273.4
60°	792.5	323.0	264.3	263.9	249.5	258.6	263.9	256.0	245.6	246.9	248.6
62.5°	355.6	246.9	228.2	226.5	226.0	237.8	243.4	236.0	221.3	222.6	224.3
65°	223.9	213.4	198.2	198.2	205.2	215.2	219.5	213.4	196.5	194.3	196.0
67.5°	207.8	198.7	183.0	180.0	183.4	191.7	192.1	180.4	170.4	168.7	168.7
70°	186.5	179.5	164.3	158.2	156.9	156.5	155.2	152.1	145.6	143.9	144.8
72.5°	154.3	149.5	140.0	133.5	130.0	129.5	124.3	121.7	116.1	115.2	114.8
75°	102.2	103.5	103.5	102.6	99.5	98.2	92.6	90.0	83.5	80.9	80.4
77.5°	60.4	61.7	63.5	63.9	63.5	63.5	58.2	55.2	48.7	45.2	44.3
80°	36.9	37.8	38.7	40.0	38.3	36.9	32.2	29.1	26.1	23.9	23.5
82.5°	23.9	24.8	25.2	26.1	25.2	23.5	19.6	17.8	15.6	13.9	13.5
85°	13.5	13.9	14.8	14.8	13.5	12.2	10.0	8.7	7.4	6.5	6.5
87.5°	4.8	4.8	4.8	5.2	4.3	3.9	2.6	1.7	1.3	1.3	1.3
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)