

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: P630268

Luminaire Tested: GWS-SA1D-735-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630268
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5425.7 lumens
Efficiency: N/A
Efficacy: 122.5 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

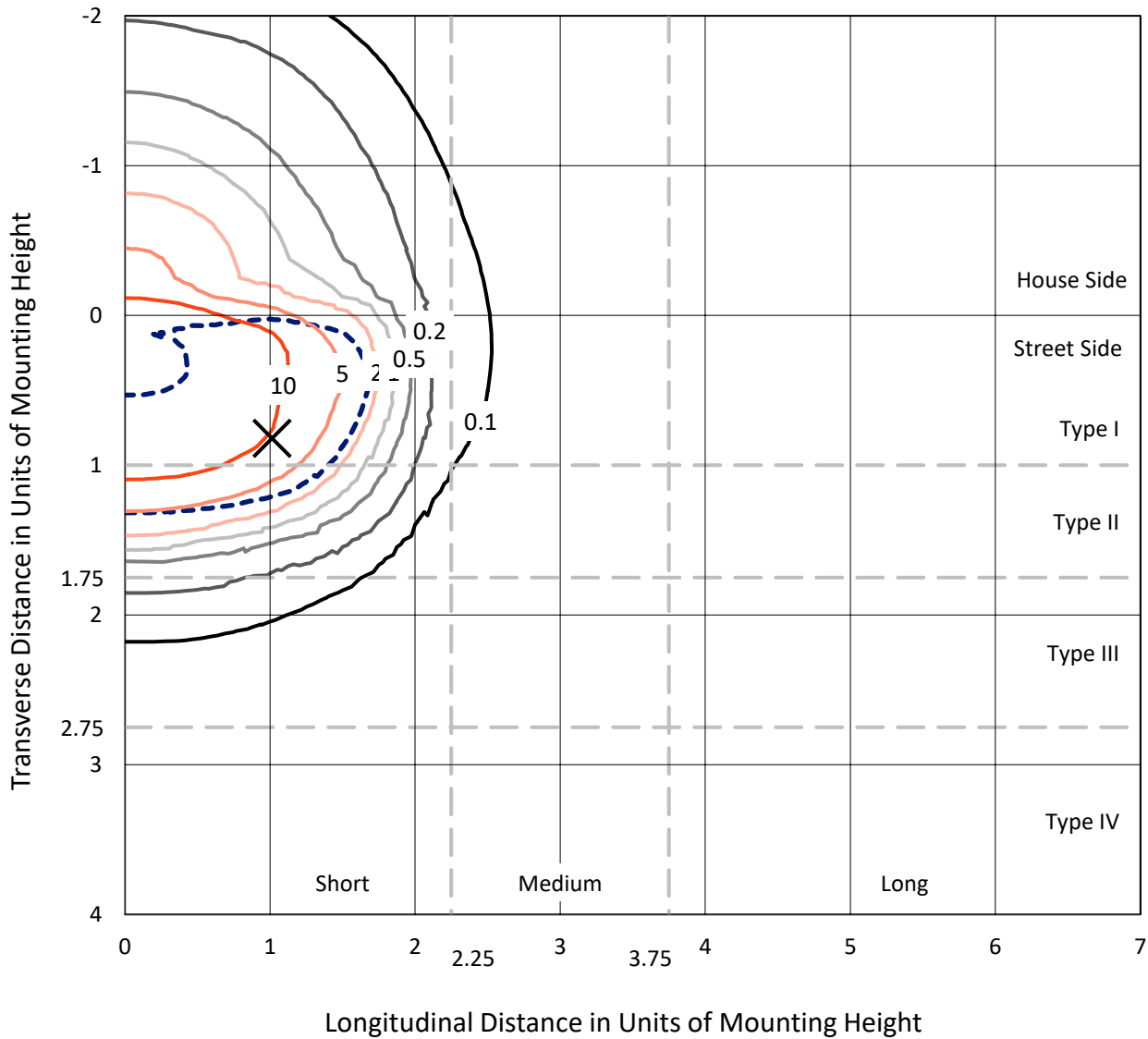
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

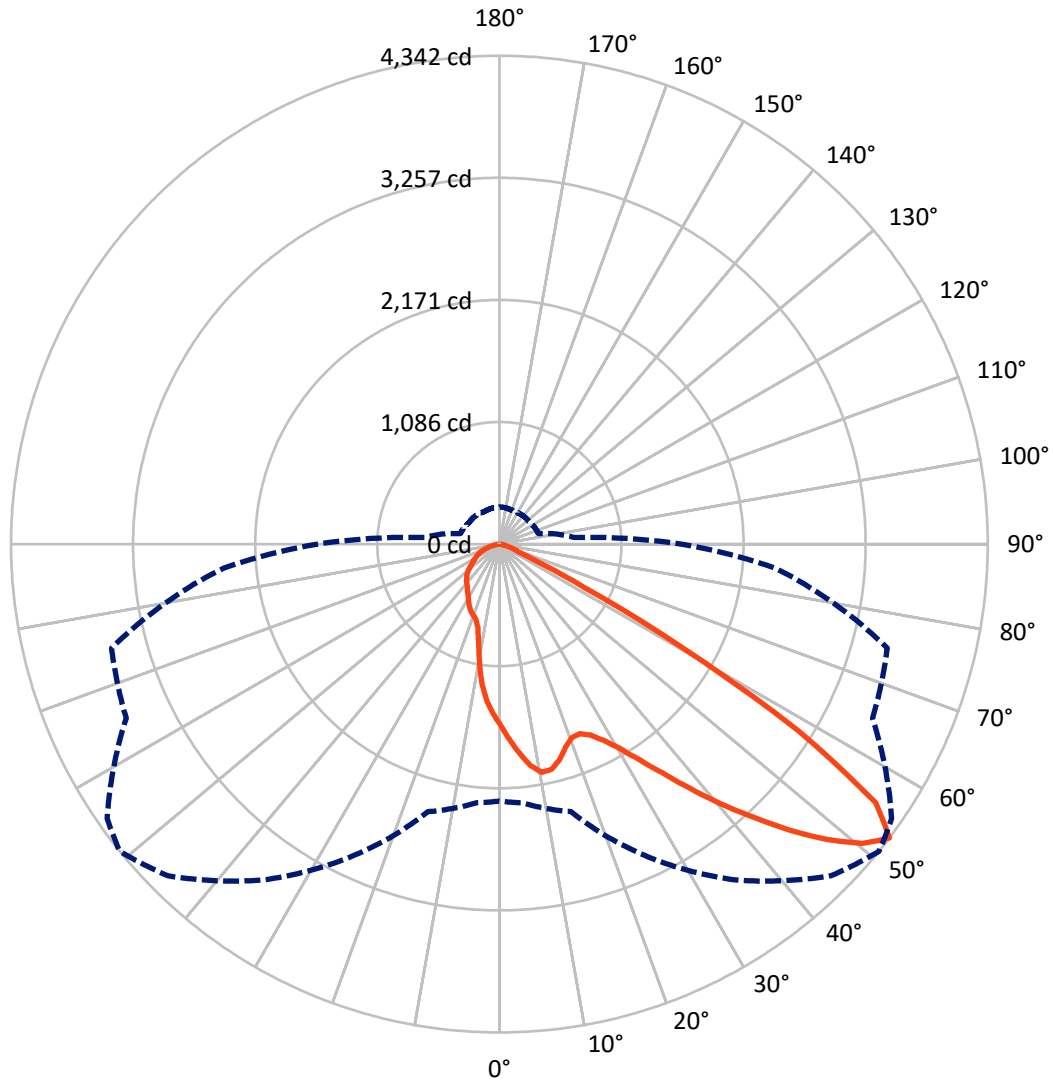
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.7 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	1057.2	0.0	1057.2
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	4368.5	0.0	4368.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	5425.7	0.0	5425.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.7	2.8
10°-20°	391.7	7.2
20°-30°	636.9	11.7
30°-40°	1009.3	18.6
40°-50°	1522.3	28.1
50°-60°	1316.9	24.3
60°-70°	298.5	5.5
70°-80°	88.0	1.6
80°-90°	11.3	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°	5425.7	100.0
0°-180°	5425.7	100.0

Coefficient of Utilization



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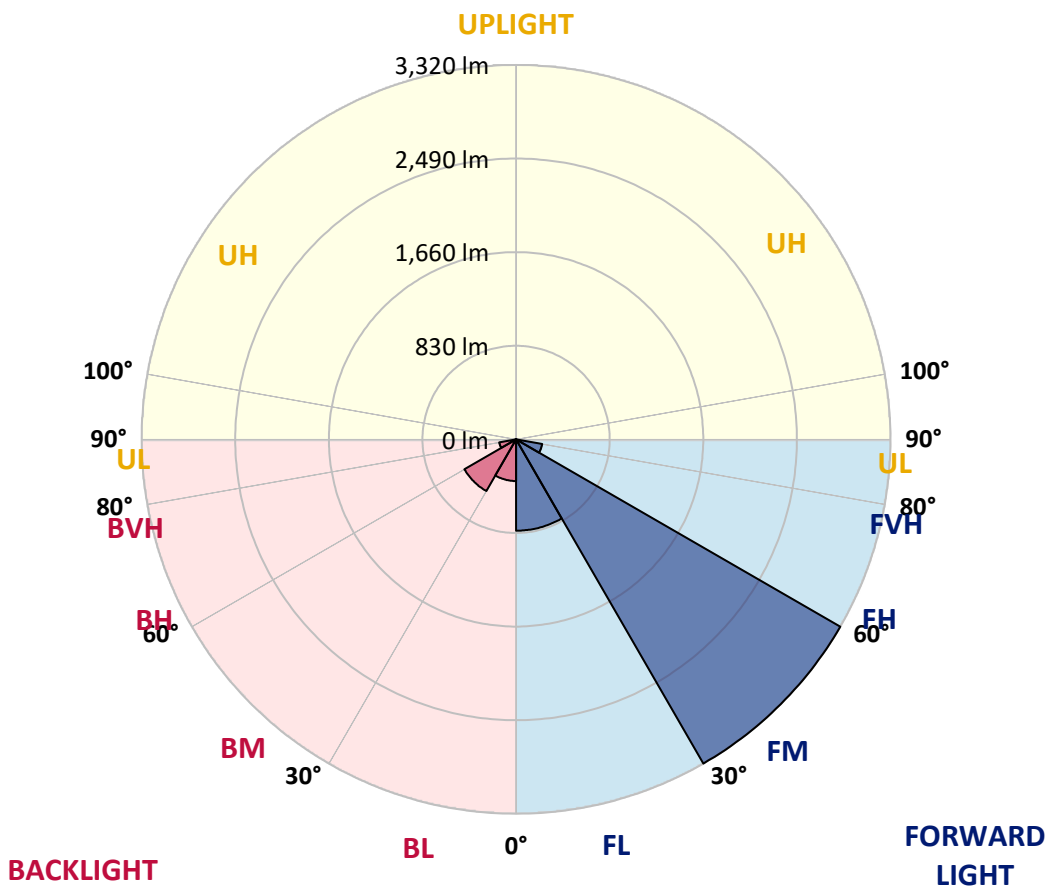
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	809.8	14.9			
FM (30°-60°)	3319.5	61.2			
FH (60°-80°)	235.0	4.3			G0/660
FVH (80°-90°)	4.3	0.1			G0/10
BL (0°-30°)	369.5	6.8	B1/500		
BM (30°-60°)	528.9	9.7	B1/1000		
BH (60°-80°)	151.6	2.8	B1/500		G1/500
BVH (80°-90°)	7.1	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°	1615.5	1615.5	1615.5	1615.5	1615.5	1615.5	1615.5	1615.5	1615.5	1615.5	1615.5
2.5°	1800.3	1810.6	1794.7	1788.7	1778.9	1761.7	1742.0	1736.4	1694.0	1666.1	1634.8
5°	1981.2	1986.8	1973.9	1961.1	1936.6	1906.2	1868.0	1859.9	1782.7	1718.8	1652.4
7.5°	2021.5	2019.4	2030.5	2037.8	2034.8	2022.8	1988.9	1973.1	1880.9	1779.7	1681.5
10°	1862.0	1850.0	1891.2	1940.1	1998.8	2066.5	2062.7	2061.4	1981.2	1861.6	1718.8
12.5°	1650.7	1644.7	1678.1	1739.4	1850.5	2000.5	2056.7	2100.4	2071.7	1939.6	1760.4
15°	1529.8	1527.6	1550.3	1594.5	1682.8	1872.3	1992.4	2079.0	2149.3	2023.2	1804.6
17.5°	1507.9	1509.2	1516.9	1542.2	1605.6	1761.7	1900.6	2021.5	2209.7	2115.0	1859.9
20°	1571.8	1580.3	1567.1	1570.9	1605.2	1721.8	1838.0	1963.6	2248.3	2207.2	1919.5
22.5°	1713.7	1710.7	1681.5	1664.4	1664.8	1746.3	1831.2	1936.6	2273.6	2296.8	1973.5
25°	1874.5	1871.0	1836.3	1798.1	1774.1	1812.7	1880.5	1965.4	2296.3	2378.7	2016.8
27.5°	2064.4	2053.7	2015.1	1966.2	1913.0	1929.8	1975.6	2043.0	2331.5	2459.3	2045.5
30°	2248.3	2260.8	2205.5	2147.6	2091.4	2081.1	2107.7	2168.6	2403.1	2553.6	2079.8
32.5°	2492.3	2488.0	2426.7	2351.2	2271.0	2263.3	2284.3	2340.1	2531.7	2683.9	2132.1
35°	2787.7	2788.5	2701.5	2599.5	2485.4	2464.8	2500.0	2554.0	2723.4	2860.6	2214.9
37.5°	3094.7	3093.4	3017.5	2901.7	2746.1	2716.9	2757.2	2797.5	2963.0	3101.1	2343.5
40°	3309.9	3318.5	3282.9	3222.0	3074.5	3003.3	3038.9	3066.8	3223.7	3384.1	2512.9
42.5°	3432.1	3444.9	3452.7	3489.1	3411.5	3335.6	3322.8	3337.3	3456.5	3646.9	2671.9
45°	3458.2	3475.4	3531.6	3666.6	3696.6	3675.2	3633.2	3598.0	3630.2	3833.4	2776.1
47.5°	3342.9	3372.9	3493.0	3729.2	3904.6	3971.9	3925.1	3871.5	3730.5	3881.4	2765.4
50°	2885.9	2921.0	3191.6	3601.4	3934.1	4179.4	4183.7	4104.4	3718.5	3742.9	2630.8
52.5°	2284.8	2308.8	2463.6	3053.1	3643.9	4170.8	4342.3	4257.4	3660.6	3569.7	2462.3
55°	1365.5	1404.1	1548.6	2014.2	2838.7	3696.6	4061.9	4103.1	3632.3	3424.4	2347.4
57.5°	460.9	479.8	617.8	889.6	1673.0	2706.7	3138.4	3305.6	3297.5	3202.3	2123.1
60°	219.5	223.8	251.7	337.4	669.7	1414.4	1857.7	2050.7	2226.5	2244.0	1321.0
62.5°	167.2	169.8	183.9	202.4	269.3	596.0	851.5	999.0	1067.1	915.8	481.0
65°	139.8	141.9	152.6	164.2	183.1	258.1	326.7	376.9	339.6	264.5	229.4
67.5°	116.6	118.3	126.5	138.9	151.8	172.8	181.4	186.5	195.5	219.5	210.9
70°	91.3	93.0	101.6	112.3	124.8	129.9	138.1	143.2	161.2	192.1	191.2
72.5°	70.3	72.5	77.2	84.0	94.3	99.5	108.5	114.5	124.8	149.6	159.9
75°	51.4	52.7	57.0	59.2	60.5	59.2	68.2	75.0	88.7	98.2	100.8
77.5°	21.0	23.6	22.7	22.7	27.0	32.6	37.3	41.6	51.0	56.6	57.0
80°	8.6	9.4	11.1	12.4	15.0	19.3	22.3	24.0	28.3	31.7	34.3
82.5°	5.1	5.6	6.4	6.9	8.6	11.1	12.9	14.1	17.6	21.0	22.3
85°	2.6	2.6	3.0	3.4	4.3	5.1	6.0	6.9	9.0	11.1	12.4
87.5°	0.4	0.4	0.4	0.9	1.3	1.7	2.1	2.6	3.0	3.4	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°	1615.5	1615.5	1615.5	1615.5	1615.5	1615.5	1615.5	1615.5	1615.5	1615.5	1615.5
2.5°	1616.4	1593.2	1566.2	1544.8	1519.9	1501.5	1475.3	1459.0	1443.6	1430.7	1421.3
5°	1618.1	1579.1	1522.9	1473.2	1421.7	1372.8	1322.7	1281.9	1245.5	1215.1	1212.5
7.5°	1627.9	1571.8	1483.9	1396.8	1296.5	1199.6	1102.7	1023.8	963.8	932.5	926.1
10°	1644.7	1570.9	1444.0	1305.1	1134.0	978.0	863.1	803.0	768.3	755.9	751.6
12.5°	1662.2	1568.8	1393.0	1175.6	938.1	801.3	738.3	731.0	737.4	738.3	737.9
15°	1683.7	1567.5	1328.7	1023.8	794.9	719.4	723.7	739.2	754.2	757.6	757.6
17.5°	1709.8	1564.5	1241.2	875.5	705.3	703.6	726.3	746.9	761.0	763.6	763.6
20°	1737.3	1556.8	1133.6	754.6	668.8	693.7	718.1	734.0	743.9	747.3	747.7
22.5°	1756.1	1536.2	1009.7	665.0	646.1	674.8	692.4	708.7	708.7	700.1	697.6
25°	1760.0	1492.0	875.5	603.7	619.1	645.7	663.7	654.3	636.7	629.8	629.4
27.5°	1745.8	1427.7	743.0	559.9	586.5	613.1	610.1	596.4	588.7	581.8	584.4
30°	1728.7	1350.5	628.1	523.9	548.8	574.9	564.7	559.9	554.4	546.6	548.4
32.5°	1717.1	1264.4	539.8	496.1	523.5	527.8	535.1	534.6	529.5	514.9	514.1
35°	1720.5	1177.3	480.6	473.3	502.5	500.8	514.5	511.9	476.3	456.2	454.9
37.5°	1748.0	1093.7	445.9	455.3	469.0	479.8	491.8	460.9	448.5	435.6	436.5
40°	1800.3	1016.1	427.0	445.5	448.9	464.8	436.9	436.5	430.9	419.3	418.9
42.5°	1859.5	950.5	414.2	440.7	436.0	439.0	409.4	412.9	412.5	405.2	403.0
45°	1895.5	890.1	403.9	423.2	424.5	394.4	385.4	389.3	391.4	387.6	387.2
47.5°	1858.2	820.6	393.2	396.2	407.3	374.3	363.1	363.6	367.4	367.9	366.1
50°	1753.6	743.0	380.3	373.0	365.7	353.3	343.0	340.9	344.7	348.6	349.9
52.5°	1618.5	668.8	358.9	347.7	330.6	330.6	325.8	319.0	324.1	329.3	331.0
55°	1519.5	614.0	328.4	316.0	297.1	303.5	302.7	296.7	303.5	307.4	308.7
57.5°	1316.7	493.5	289.0	285.1	269.3	277.0	278.7	271.0	267.5	268.4	269.7
60°	781.6	318.6	260.7	260.2	246.1	255.1	260.2	252.5	242.2	243.5	245.2
62.5°	350.7	243.5	225.1	223.4	222.9	234.5	240.1	232.8	218.2	219.5	221.2
65°	220.8	210.5	195.5	195.5	202.4	212.2	216.5	210.5	193.8	191.6	193.4
67.5°	204.9	195.9	180.5	177.5	180.9	189.1	189.5	177.9	168.1	166.4	166.4
70°	183.9	177.1	162.1	156.1	154.8	154.3	153.1	150.1	143.6	141.9	142.8
72.5°	152.2	147.5	138.1	131.6	128.2	127.8	122.6	120.0	114.5	113.6	113.2
75°	100.8	102.0	102.0	101.2	98.2	96.9	91.3	88.7	82.3	79.7	79.3
77.5°	59.6	60.9	62.6	63.0	62.6	62.6	57.5	54.5	48.0	44.6	43.7
80°	36.4	37.3	38.2	39.4	37.7	36.4	31.7	28.7	25.7	23.6	23.2
82.5°	23.6	24.4	24.9	25.7	24.9	23.2	19.3	17.6	15.4	13.7	13.3
85°	13.3	13.7	14.6	14.6	13.3	12.0	9.9	8.6	7.3	6.4	6.4
87.5°	4.7	4.7	4.7	5.1	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)