

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: P630325

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630325
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
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
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6174.8 lumens
Efficiency: N/A
Efficacy: 139.4 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

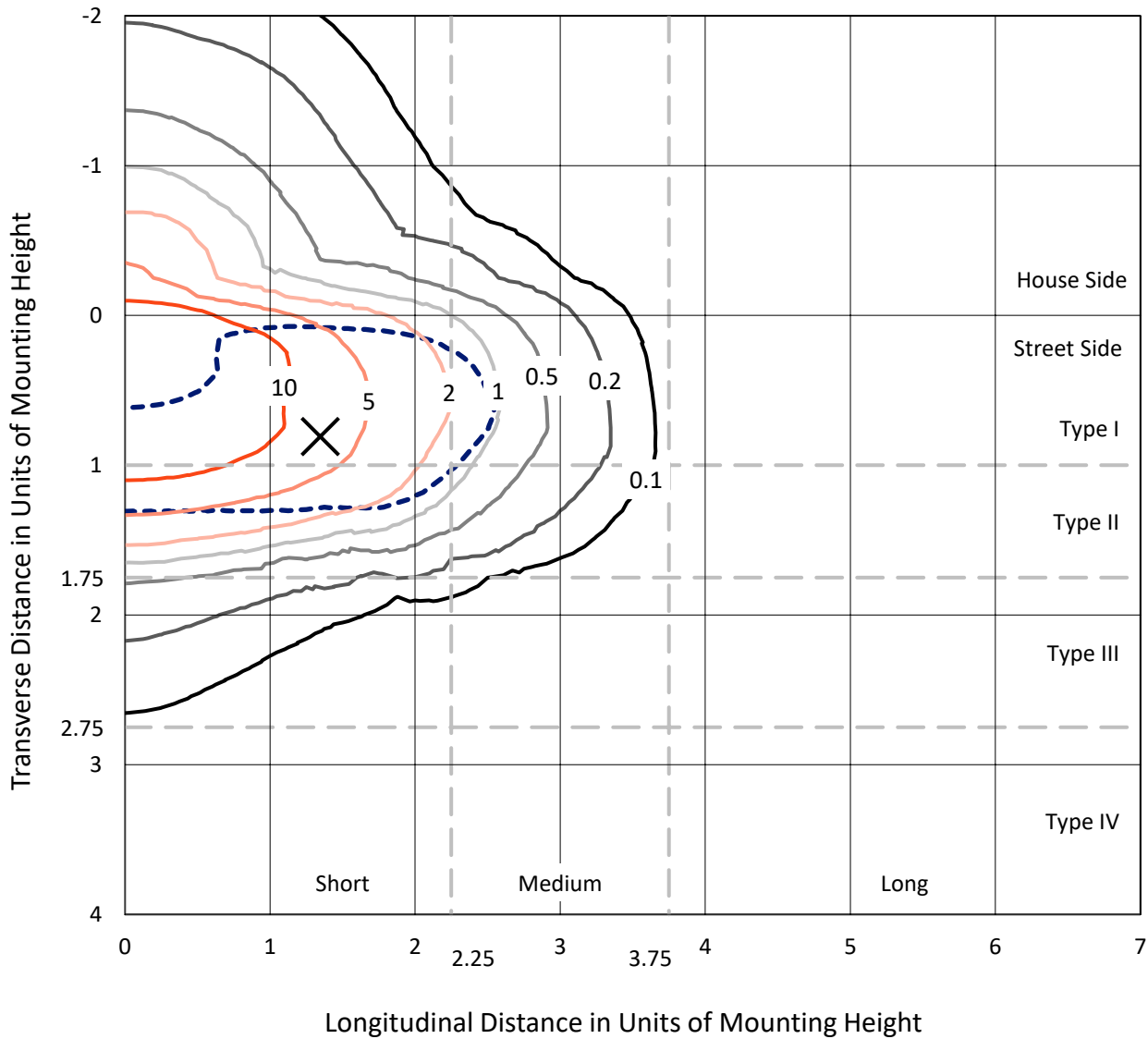
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

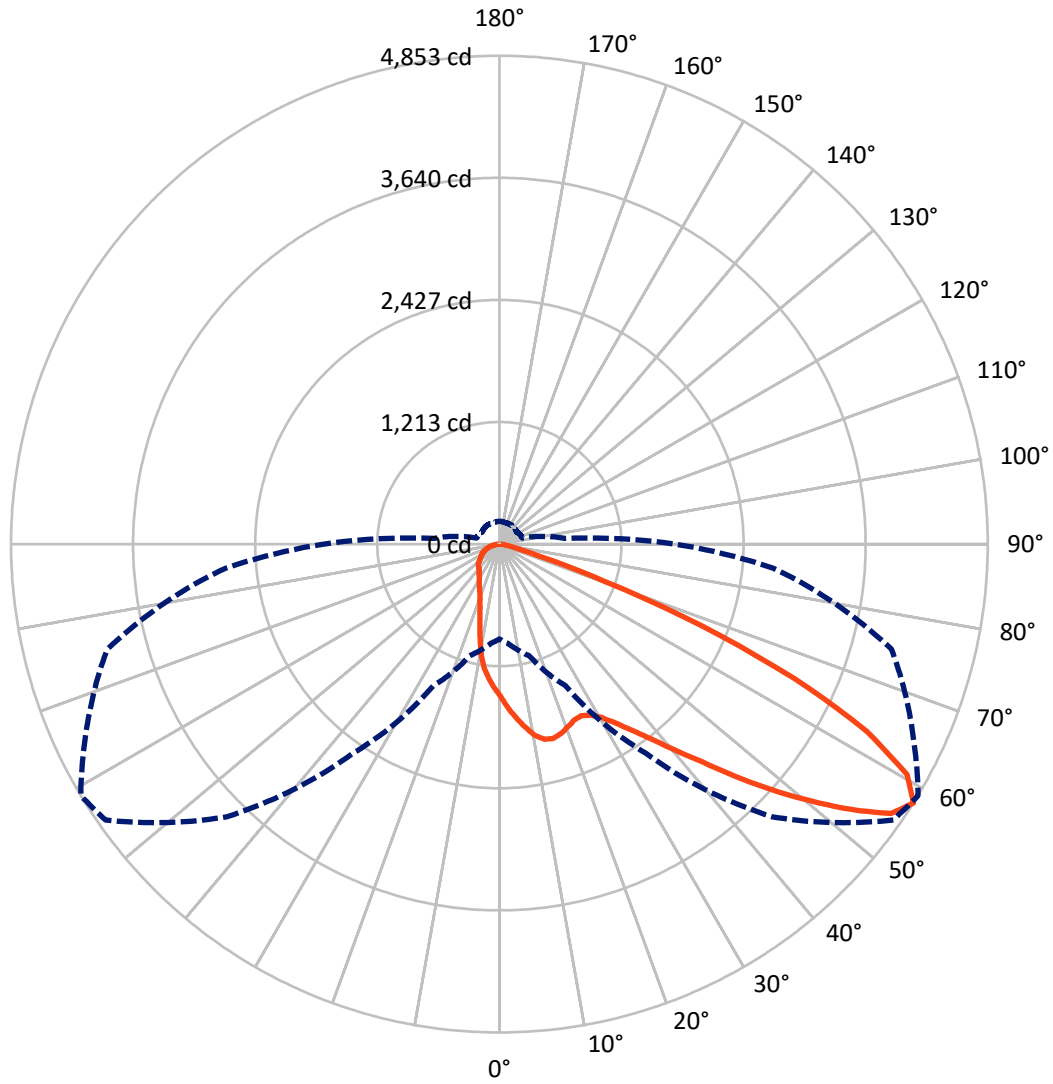
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	958.3	0.0	958.3
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	5216.5	0.0	5216.5
	% Fixture	84.5	0.0	84.5
Total	Lumens	6174.8	0.0	6174.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.7	2.3
10°-20°	356.6	5.8
20°-30°	578.1	9.4
30°-40°	930.0	15.1
40°-50°	1444.2	23.4
50°-60°	1555.6	25.2
60°-70°	902.8	14.6
70°-80°	235.7	3.8
80°-90°	31.0	0.5
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°	6174.8	100.0
0°-180°	6174.8	100.0

Coefficient of Utilization



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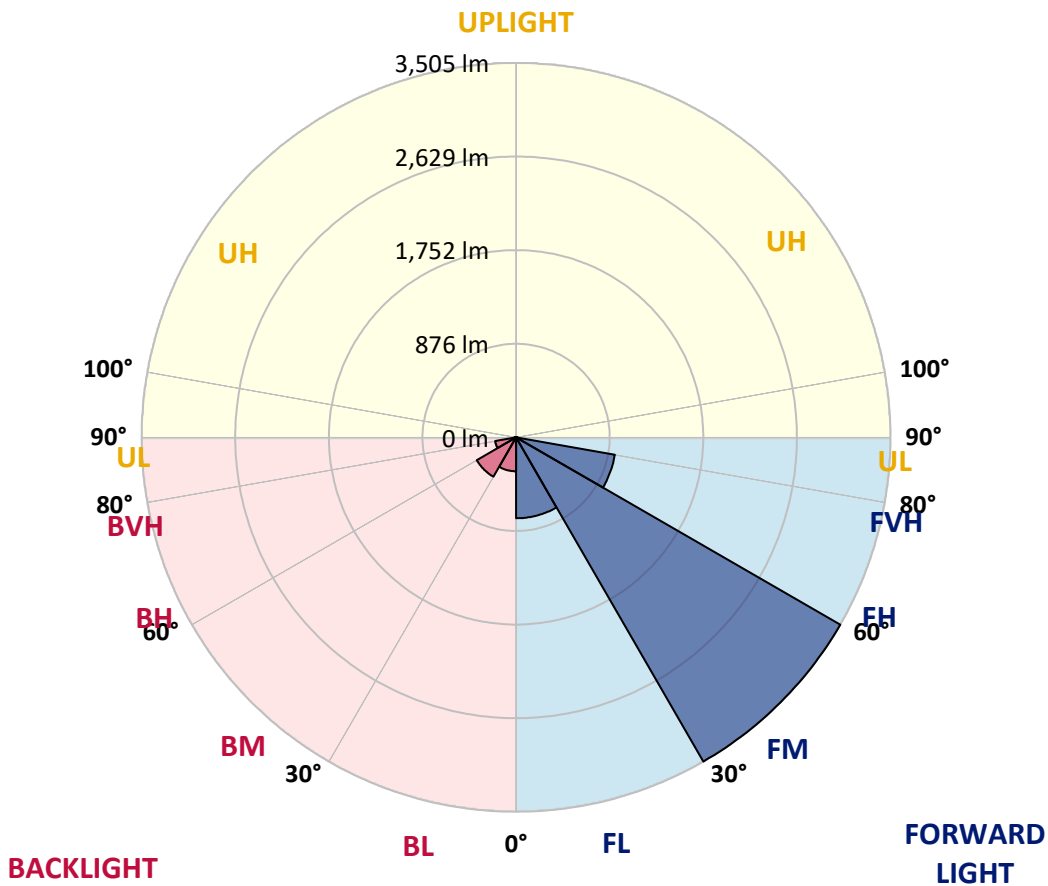
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	757.6	12.3			
FM (30°-60°)	3504.9	56.8			
FH (60°-80°)	939.2	15.2			G1/1800
FVH (80°-90°)	14.9	0.2			G1/100
BL (0°-30°)	317.9	5.1	B1/500		
BM (30°-60°)	424.9	6.9	B1/1000		
BH (60°-80°)	199.3	3.2	B1/500		G1/500
BVH (80°-90°)	16.2	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8
2.5°	1719.2	1704.9	1714.9	1697.1	1689.7	1670.1	1644.9	1627.9	1601.9	1568.0	1538.4
5°	1890.1	1880.1	1882.2	1863.1	1846.2	1813.6	1761.8	1733.1	1688.8	1620.6	1557.1
7.5°	1884.8	1896.6	1903.1	1919.6	1924.4	1921.4	1874.9	1834.9	1786.2	1683.6	1587.9
10°	1689.7	1711.8	1731.8	1788.3	1857.0	1944.0	1954.8	1930.9	1881.8	1764.0	1624.9
12.5°	1477.1	1494.1	1511.9	1579.7	1684.9	1858.8	1976.6	1991.3	1971.8	1843.6	1666.6
15°	1372.8	1380.6	1397.6	1442.3	1526.2	1719.2	1938.8	2003.5	2038.7	1927.9	1713.6
17.5°	1368.4	1371.9	1380.2	1404.1	1462.3	1611.4	1870.5	1979.2	2091.3	2017.0	1768.3
20°	1458.4	1449.3	1444.1	1443.6	1472.3	1575.3	1804.4	1940.1	2116.1	2108.3	1827.0
22.5°	1583.2	1586.2	1574.9	1547.1	1543.6	1601.0	1771.4	1900.5	2123.5	2189.1	1881.4
25°	1760.1	1775.3	1741.8	1688.8	1662.7	1675.3	1791.8	1888.3	2122.6	2256.5	1915.3
27.5°	1966.6	1978.3	1944.4	1874.9	1820.9	1790.5	1852.7	1924.4	2130.0	2314.8	1935.7
30°	2201.7	2205.7	2159.1	2086.1	2007.4	1942.2	1954.0	1998.7	2167.8	2391.3	1959.6
32.5°	2489.1	2505.6	2435.2	2319.5	2209.6	2126.1	2090.0	2118.7	2249.6	2481.7	1996.6
35°	2853.8	2859.4	2769.9	2604.3	2448.7	2333.0	2257.4	2272.6	2373.9	2608.2	2052.2
37.5°	3197.6	3203.3	3108.1	2954.2	2731.6	2573.4	2463.9	2456.9	2533.0	2786.8	2143.1
40°	3415.9	3431.9	3389.3	3292.8	3080.3	2866.8	2718.2	2694.3	2741.6	3005.5	2269.6
42.5°	3533.2	3540.2	3539.3	3551.9	3425.4	3213.3	3005.1	2957.2	2989.0	3241.5	2397.4
45°	3534.1	3551.5	3598.0	3719.3	3724.9	3592.8	3367.6	3292.8	3263.7	3479.3	2530.8
47.5°	3375.9	3394.6	3522.4	3761.0	3937.1	3967.0	3801.9	3651.9	3529.3	3684.1	2640.4
50°	2896.8	2943.8	3187.2	3609.3	3978.8	4267.0	4216.1	4012.7	3765.3	3842.3	2709.0
52.5°	2480.8	2479.1	2629.1	3180.7	3804.5	4399.1	4616.9	4383.9	3998.8	3942.7	2726.4
55°	1816.6	1826.6	1980.0	2432.6	3339.3	4271.3	4837.3	4725.6	4266.6	3996.2	2719.5
57.5°	942.0	991.5	1148.9	1552.3	2537.3	3831.4	4778.6	4853.0	4538.7	4034.0	2728.6
60°	476.0	466.4	522.9	741.2	1470.1	2992.5	4417.0	4653.9	4587.8	4063.6	2734.2
62.5°	317.8	315.2	299.5	343.4	600.8	1772.3	3765.3	4097.5	4246.6	3994.0	2662.1
65°	275.2	269.9	241.3	239.5	291.7	735.1	2759.9	3221.1	3509.7	3684.9	2489.5
67.5°	247.8	240.0	210.8	196.5	209.5	323.0	1555.3	2160.4	2591.7	3116.3	2111.3
70°	221.3	217.3	188.2	167.4	166.1	196.9	572.9	1115.0	1585.8	2126.1	1543.6
72.5°	198.2	191.3	166.5	146.5	136.5	139.5	248.6	429.5	820.7	1326.3	923.3
75°	171.7	166.5	144.8	124.8	112.6	102.2	151.7	198.7	374.3	630.3	436.0
77.5°	132.6	129.1	114.3	99.1	92.2	76.1	92.2	125.2	173.0	265.6	226.9
80°	76.9	79.1	85.2	77.4	67.8	54.3	60.0	72.2	103.9	143.9	128.7
82.5°	38.7	41.3	55.2	44.8	40.4	31.7	35.6	42.6	54.3	79.5	50.4
85°	3.0	3.0	10.0	11.3	13.9	11.3	14.3	17.4	24.8	31.7	17.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.2	3.9	7.4	4.8
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°	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8
2.5°	1518.4	1496.2	1469.7	1448.0	1414.5	1396.7	1374.1	1346.3	1335.0	1329.7	1326.7
5°	1521.4	1482.3	1425.8	1373.6	1315.8	1270.2	1219.3	1166.3	1135.9	1128.5	1123.3
7.5°	1532.7	1478.0	1388.0	1301.9	1194.5	1095.0	998.1	902.0	852.9	834.2	832.4
10°	1548.4	1476.2	1349.7	1206.7	1025.5	868.1	754.6	679.4	647.7	637.3	633.8
12.5°	1568.0	1474.9	1299.3	1074.6	830.3	681.6	616.8	604.7	609.0	608.1	608.1
15°	1592.7	1476.7	1238.5	925.0	671.6	591.6	592.9	607.3	620.7	622.9	622.9
17.5°	1619.7	1474.9	1150.2	775.1	576.4	570.3	590.3	610.3	622.5	624.2	624.2
20°	1648.8	1466.7	1038.9	633.8	534.7	556.8	578.6	594.2	601.6	603.4	603.4
22.5°	1666.2	1443.2	918.1	536.4	508.2	535.5	549.9	566.0	566.8	552.9	552.5
25°	1663.6	1399.3	780.3	473.8	479.9	503.8	522.1	510.8	496.9	489.0	487.7
27.5°	1647.1	1333.2	639.9	426.4	446.4	473.4	467.7	458.2	454.7	446.0	445.1
30°	1626.2	1251.9	513.8	389.5	411.7	436.4	427.7	426.9	423.4	413.8	413.8
32.5°	1606.2	1168.0	418.6	362.1	389.5	391.2	403.4	404.3	402.5	386.0	384.3
35°	1600.6	1084.1	354.3	340.4	367.8	366.9	384.3	383.8	353.8	330.8	330.4
37.5°	1617.5	998.9	316.0	322.5	337.8	349.1	363.0	337.8	327.8	313.9	313.0
40°	1653.6	920.3	296.5	312.1	318.6	335.2	313.4	315.2	312.5	302.1	300.8
42.5°	1701.4	853.3	285.6	308.6	307.8	312.1	288.2	295.2	299.1	291.2	289.9
45°	1747.5	795.1	279.9	295.6	299.9	274.7	269.9	276.5	282.6	279.5	278.2
47.5°	1781.4	744.6	276.9	277.8	289.9	262.1	254.3	257.3	264.7	266.0	265.6
50°	1791.8	701.6	273.4	263.0	260.4	249.5	243.4	242.6	251.3	257.3	258.2
52.5°	1771.8	663.3	264.3	250.0	237.3	239.1	236.9	232.6	241.3	249.5	250.4
55°	1742.3	641.6	250.0	237.3	222.6	229.5	230.4	226.5	232.1	237.8	237.8
57.5°	1744.4	654.2	236.0	225.6	209.5	218.7	223.4	221.7	221.7	226.0	226.5
60°	1758.8	672.5	226.9	210.8	196.5	206.0	216.9	215.2	211.3	216.9	216.9
62.5°	1717.5	648.1	220.8	196.5	182.6	193.9	206.9	206.0	201.7	210.8	211.7
65°	1595.8	582.9	213.9	178.7	168.7	181.7	193.0	196.0	192.1	204.3	206.5
67.5°	1337.6	490.3	200.4	161.7	154.8	166.9	177.8	182.1	179.1	193.4	195.2
70°	997.2	396.9	179.1	143.0	137.8	148.7	158.7	160.4	160.8	177.8	179.5
72.5°	636.0	308.6	150.8	122.1	118.2	126.5	133.9	140.8	143.9	160.0	159.5
75°	354.7	229.5	121.3	103.5	96.5	103.0	111.7	120.0	128.7	152.1	154.8
77.5°	204.3	161.3	96.1	83.0	74.8	81.7	89.1	100.8	126.9	147.4	144.8
80°	115.2	104.8	72.6	60.9	55.6	60.9	66.5	88.7	100.0	108.7	110.0
82.5°	53.9	58.7	49.6	37.4	37.4	40.9	46.1	68.7	75.6	61.7	53.9
85°	19.6	26.5	24.3	19.1	17.0	16.5	28.7	39.1	24.3	21.7	18.7
87.5°	5.2	7.4	7.0	4.8	2.6	2.2	0.0	0.0	0.0	0.0	0.0
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)