

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: P631040

Luminaire Tested: GWS-SA1E-830-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631040
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-SA1E-830-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6129.8 lumens
Efficiency: N/A
Efficacy: 105.0 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

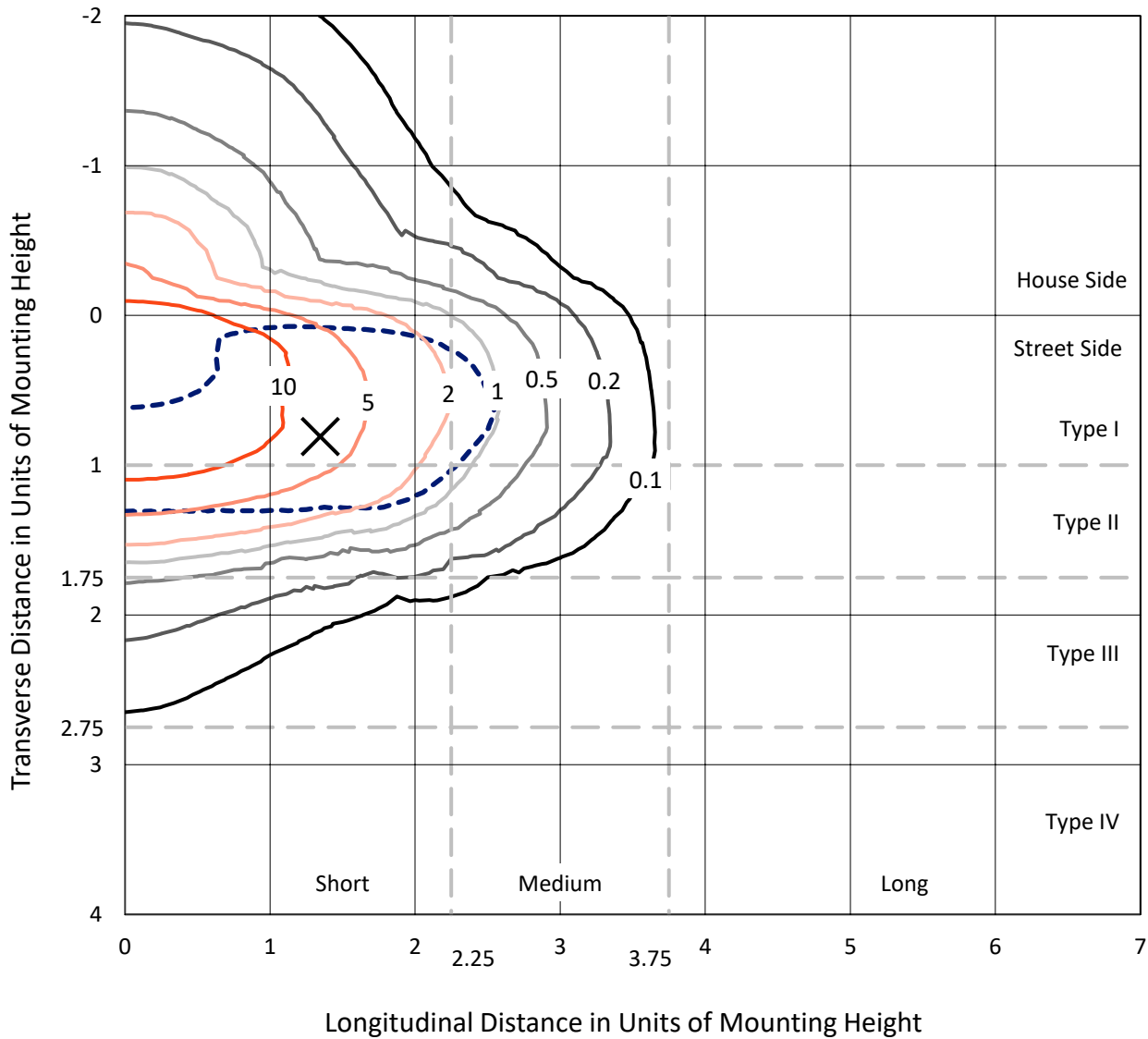
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

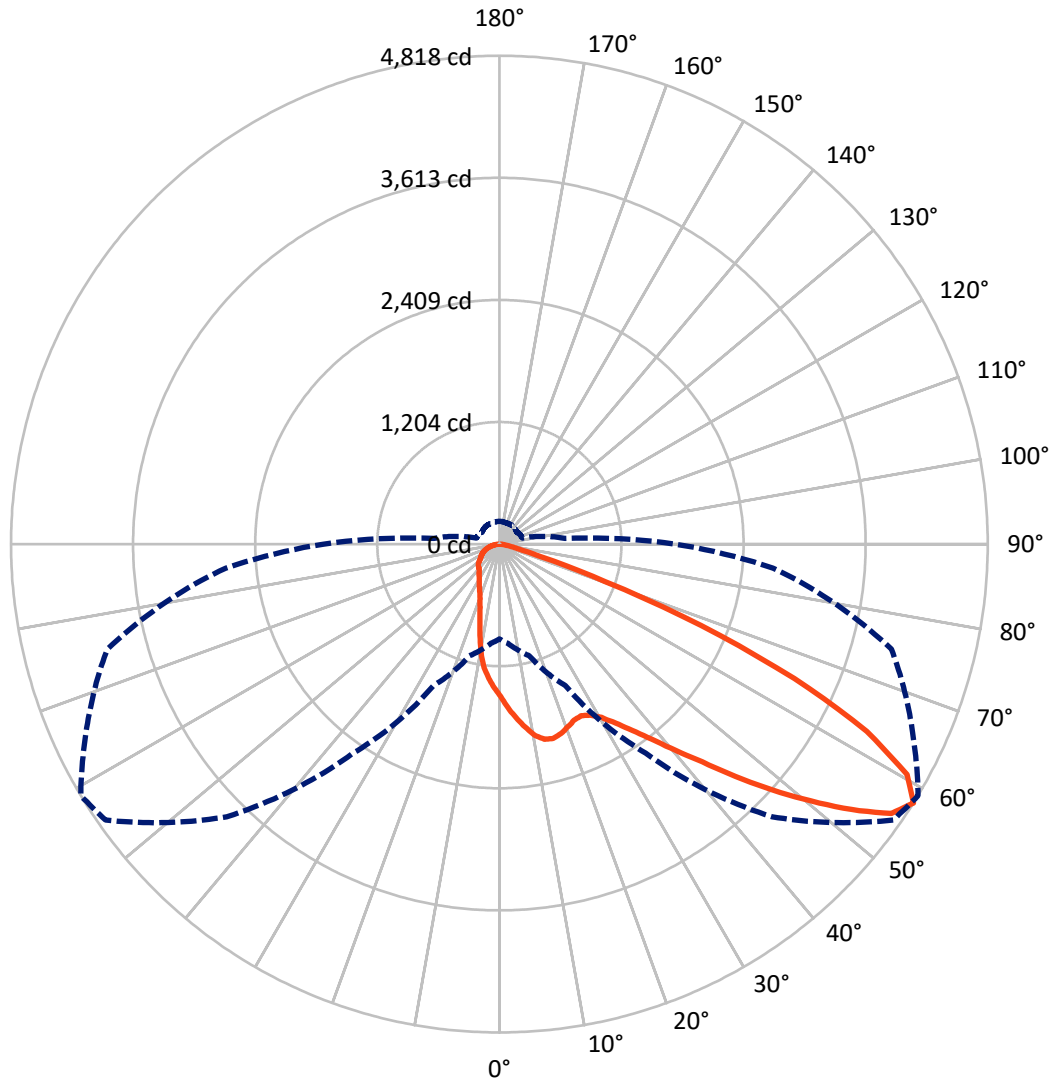
✕ Max cd
 - - - 1/2 Max cd



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	951.3	0.0	951.3
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	5178.5	0.0	5178.5
	% Fixture	84.5	0.0	84.5
Total	Lumens	6129.8	0.0	6129.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.7	2.3
10°-20°	354.0	5.8
20°-30°	573.9	9.4
30°-40°	923.2	15.1
40°-50°	1433.7	23.4
50°-60°	1544.2	25.2
60°-70°	896.2	14.6
70°-80°	234.0	3.8
80°-90°	30.8	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°	6129.8	100.0
0°-180°	6129.8	100.0

Coefficient of Utilization



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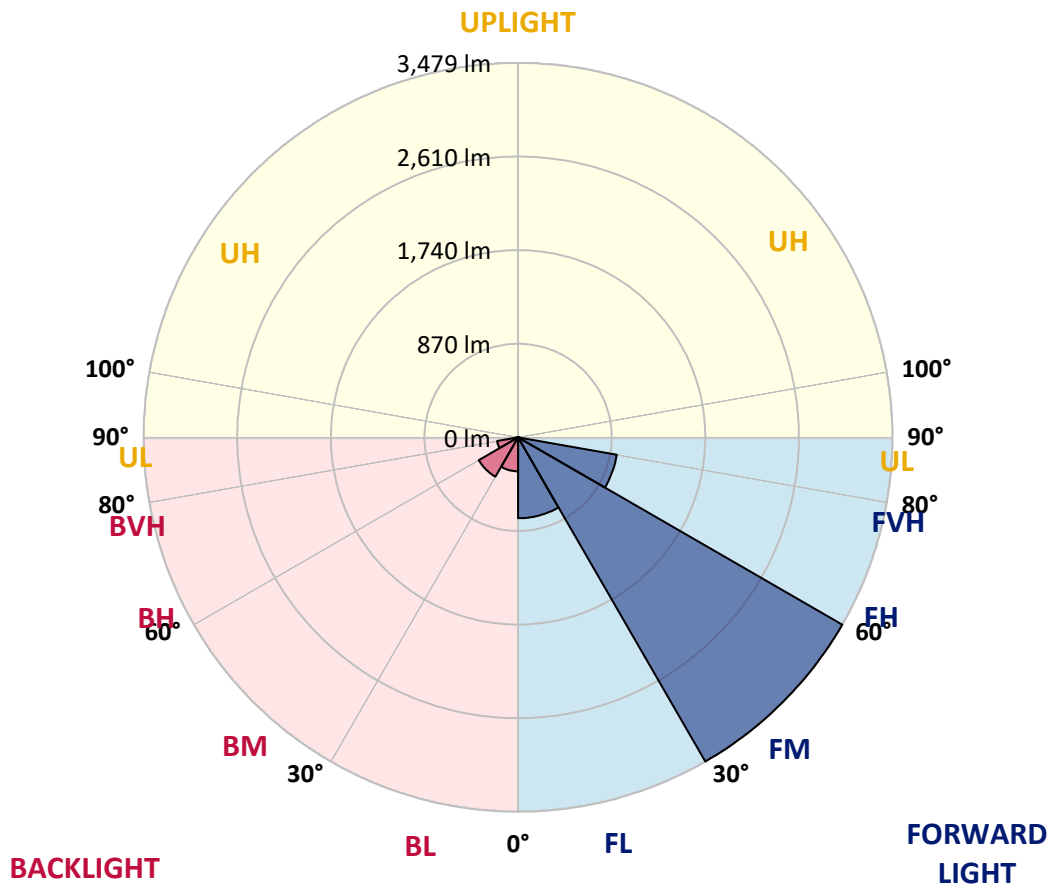
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	752.1	12.3			
FM (30°-60°)	3479.3	56.8			
FH (60°-80°)	932.3	15.2			G1/1800
FVH (80°-90°)	14.8	0.2			G1/100
BL (0°-30°)	315.6	5.1	B1/500		
BM (30°-60°)	421.8	6.9	B1/1000		
BH (60°-80°)	197.9	3.2	B1/500		G1/500
BVH (80°-90°)	16.1	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°	1504.7	1504.7	1504.7	1504.7	1504.7	1504.7	1504.7	1504.7	1504.7	1504.7	1504.7
2.5°	1706.7	1692.5	1702.4	1684.7	1677.4	1657.9	1632.9	1616.1	1590.2	1556.5	1527.2
5°	1876.3	1866.4	1868.5	1849.5	1832.7	1800.3	1749.0	1720.5	1676.5	1608.7	1545.7
7.5°	1871.1	1882.8	1889.2	1905.6	1910.4	1907.4	1861.2	1821.5	1773.2	1671.3	1576.4
10°	1677.4	1699.4	1719.2	1775.3	1843.5	1929.8	1940.6	1916.9	1868.1	1751.1	1613.1
12.5°	1466.3	1483.2	1500.9	1568.2	1672.6	1845.2	1962.2	1976.8	1957.4	1830.1	1654.5
15°	1362.8	1370.5	1387.4	1431.8	1515.1	1706.7	1924.6	1988.9	2023.9	1913.8	1701.1
17.5°	1358.5	1361.9	1370.1	1393.8	1451.7	1599.7	1856.9	1964.8	2076.1	2002.3	1755.5
20°	1447.8	1438.7	1433.5	1433.1	1461.6	1563.9	1791.3	1925.9	2100.7	2092.9	1813.7
22.5°	1571.6	1574.7	1563.4	1535.8	1532.4	1589.3	1758.5	1886.6	2108.0	2173.2	1867.7
25°	1747.3	1762.4	1729.1	1676.5	1650.6	1663.1	1778.8	1874.6	2107.2	2240.1	1901.3
27.5°	1952.2	1963.9	1930.2	1861.2	1807.7	1777.5	1839.2	1910.4	2114.5	2297.9	1921.6
30°	2185.7	2189.6	2143.4	2070.9	1992.8	1928.1	1939.7	1984.2	2152.0	2373.8	1945.3
32.5°	2470.9	2487.3	2417.4	2302.6	2193.5	2110.6	2074.8	2103.3	2233.2	2463.6	1982.0
35°	2833.0	2838.6	2749.7	2585.3	2430.8	2316.0	2240.9	2256.0	2356.6	2589.2	2037.3
37.5°	3174.3	3179.9	3085.4	2932.7	2711.7	2554.7	2445.9	2439.0	2514.5	2766.5	2127.4
40°	3391.0	3406.9	3364.6	3268.8	3057.8	2845.9	2698.4	2674.6	2721.7	2983.6	2253.0
42.5°	3507.5	3514.4	3513.5	3526.0	3400.5	3189.9	2983.2	2935.7	2967.2	3217.9	2379.9
45°	3508.3	3525.6	3571.8	3692.2	3697.8	3566.6	3343.1	3268.8	3239.9	3454.0	2512.4
47.5°	3351.3	3369.8	3496.7	3733.6	3908.4	3938.1	3774.2	3625.3	3503.6	3657.2	2621.1
50°	2875.7	2922.3	3164.0	3583.0	3949.8	4235.9	4185.4	3983.4	3737.9	3814.3	2689.3
52.5°	2462.7	2461.0	2609.9	3157.5	3776.7	4367.1	4583.3	4352.0	3969.6	3914.0	2706.6
55°	1803.4	1813.3	1965.6	2414.8	3315.0	4240.2	4802.1	4691.2	4235.5	3967.1	2699.6
57.5°	935.1	984.3	1140.5	1541.0	2518.8	3803.5	4743.8	4817.6	4505.6	4004.6	2708.7
60°	472.5	463.0	519.1	735.8	1459.4	2970.6	4384.8	4620.0	4554.4	4033.9	2714.3
62.5°	315.4	312.9	297.3	340.9	596.4	1759.3	3737.9	4067.6	4215.6	3964.9	2642.7
65°	273.2	268.0	239.5	237.8	289.6	729.7	2739.8	3197.6	3484.2	3658.1	2471.4
67.5°	246.0	238.2	209.3	195.1	208.0	320.6	1544.0	2144.7	2572.8	3093.6	2095.9
70°	219.6	215.8	186.9	166.1	164.8	195.5	568.8	1106.9	1574.2	2110.6	1532.4
72.5°	196.8	189.9	165.3	145.4	135.5	138.5	246.8	426.4	814.7	1316.6	916.6
75°	170.5	165.3	143.7	123.8	111.8	101.4	150.6	197.2	371.5	625.7	432.8
77.5°	131.6	128.2	113.5	98.4	91.5	75.5	91.5	124.3	171.7	263.7	225.3
80°	76.4	78.5	84.6	76.8	67.3	53.9	59.6	71.6	103.1	142.8	127.7
82.5°	38.4	41.0	54.8	44.4	40.1	31.5	35.4	42.3	53.9	79.0	50.1
85°	3.0	3.0	9.9	11.2	13.8	11.2	14.2	17.3	24.6	31.5	16.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.2	3.9	7.3	4.7
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°	1507.3	1485.3	1459.0	1437.4	1404.2	1386.5	1364.1	1336.4	1325.2	1320.0	1317.0
5°	1510.4	1471.5	1415.4	1363.6	1306.2	1260.9	1210.4	1157.8	1127.6	1120.3	1115.1
7.5°	1521.6	1467.2	1377.9	1292.4	1185.8	1087.0	990.8	895.4	846.7	828.1	826.4
10°	1537.1	1465.5	1339.9	1197.9	1018.0	861.8	749.1	674.5	643.0	632.6	629.2
12.5°	1556.5	1464.2	1289.8	1066.7	824.2	676.6	612.3	600.3	604.6	603.7	603.7
15°	1581.1	1465.9	1229.4	918.3	666.7	587.3	588.6	602.8	616.2	618.4	618.4
17.5°	1607.9	1464.2	1141.8	769.4	572.2	566.2	586.0	605.9	618.0	619.7	619.7
20°	1636.8	1456.0	1031.4	629.2	530.8	552.8	574.4	589.9	597.2	599.0	599.0
22.5°	1654.1	1432.7	911.4	532.5	504.5	531.6	545.9	561.9	562.7	548.9	548.5
25°	1651.5	1389.1	774.6	470.4	476.4	500.1	518.3	507.0	493.2	485.5	484.2
27.5°	1635.1	1323.5	635.2	423.3	443.2	469.9	464.3	454.8	451.4	442.7	441.9
30°	1614.4	1242.8	510.1	386.7	408.7	433.3	424.6	423.8	420.3	410.8	410.8
32.5°	1594.5	1159.5	415.6	359.5	386.7	388.4	400.5	401.3	399.6	383.2	381.5
35°	1588.9	1076.2	351.7	337.9	365.1	364.2	381.5	381.0	351.3	328.4	328.0
37.5°	1605.7	991.7	313.7	320.2	335.3	346.5	360.3	335.3	325.4	311.6	310.7
40°	1641.5	913.5	294.3	309.8	316.3	332.7	311.1	312.9	310.3	299.9	298.6
42.5°	1689.0	847.1	283.5	306.4	305.5	309.8	286.1	293.0	296.9	289.1	287.8
45°	1734.7	789.3	277.9	293.4	297.8	272.7	268.0	274.5	280.5	277.5	276.2
47.5°	1768.4	739.2	274.9	275.7	287.8	260.2	252.4	255.5	262.8	264.1	263.7
50°	1778.8	696.5	271.4	261.1	258.5	247.7	241.7	240.8	249.4	255.5	256.3
52.5°	1758.9	658.5	262.4	248.1	235.6	237.3	235.2	230.9	239.5	247.7	248.6
55°	1729.6	636.9	248.1	235.6	220.9	227.8	228.7	224.8	230.4	236.0	236.0
57.5°	1731.7	649.5	234.3	224.0	208.0	217.1	221.8	220.1	220.1	224.4	224.8
60°	1746.0	667.6	225.3	209.3	195.1	204.5	215.3	213.6	209.7	215.3	215.3
62.5°	1705.0	643.4	219.2	195.1	181.2	192.5	205.4	204.5	200.2	209.3	210.2
65°	1584.1	578.7	212.3	177.4	167.4	180.4	191.6	194.6	190.7	202.8	205.0
67.5°	1327.8	486.8	198.9	160.5	153.6	165.7	176.5	180.8	177.8	192.0	193.8
70°	989.9	394.0	177.8	142.0	136.8	147.6	157.5	159.2	159.7	176.5	178.2
72.5°	631.3	306.4	149.7	121.3	117.4	125.6	132.9	139.8	142.8	158.8	158.4
75°	352.1	227.8	120.4	102.7	95.8	102.3	110.9	119.1	127.7	151.0	153.6
77.5°	202.8	160.1	95.4	82.4	74.2	81.1	88.5	100.1	126.0	146.3	143.7
80°	114.4	104.0	72.1	60.4	55.2	60.4	66.0	88.0	99.3	107.9	109.2
82.5°	53.5	58.3	49.2	37.1	37.1	40.6	45.7	68.2	75.1	61.3	53.5
85°	19.4	26.3	24.2	19.0	16.8	16.4	28.5	38.8	24.2	21.6	18.6
87.5°	5.2	7.3	6.9	4.7	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)