

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: P630600

Luminaire Tested: GWS-SA1E-722-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630600
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-722-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (16) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5683.9 lumens
Efficiency: N/A
Efficacy: 97.3 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

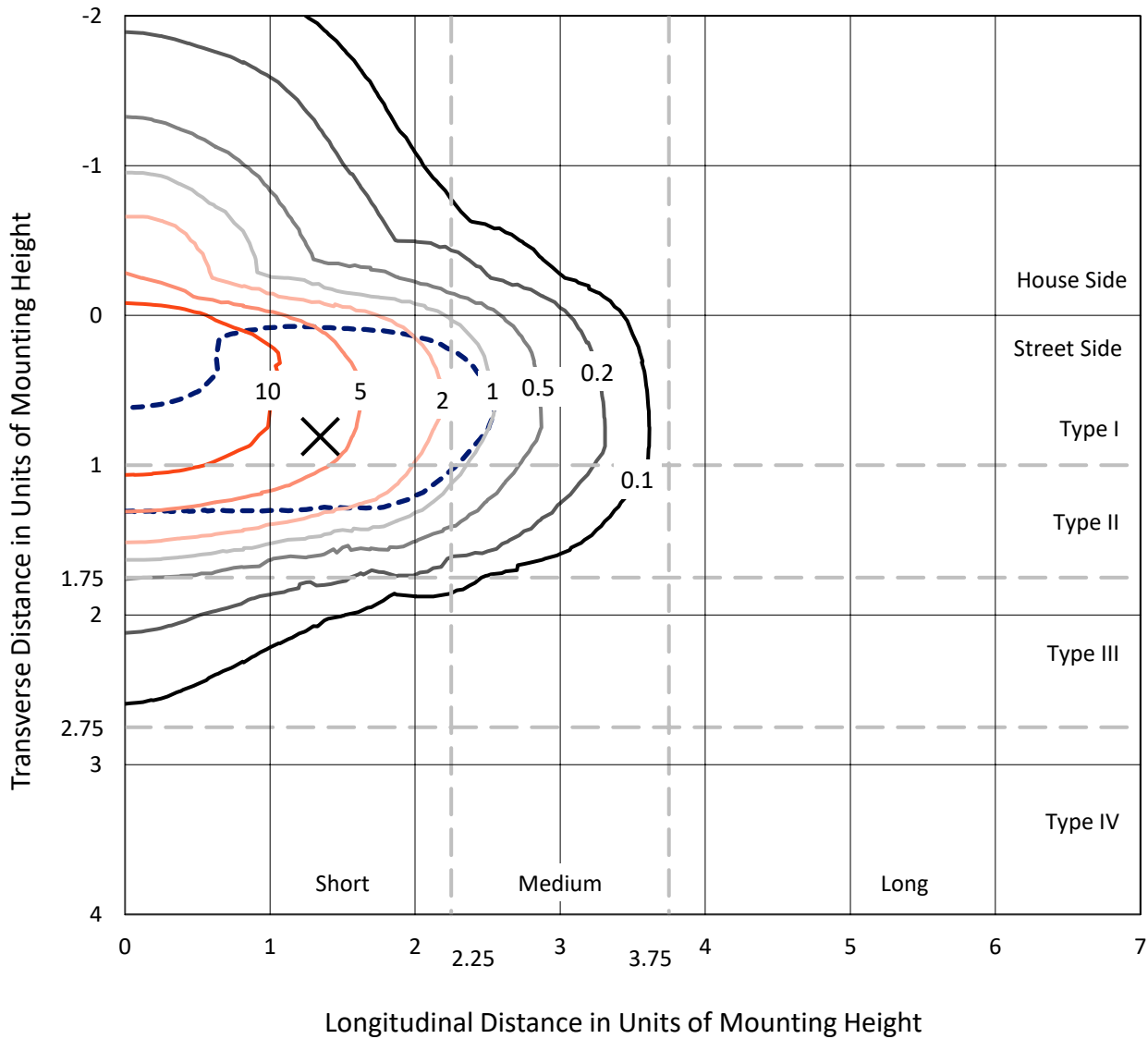
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

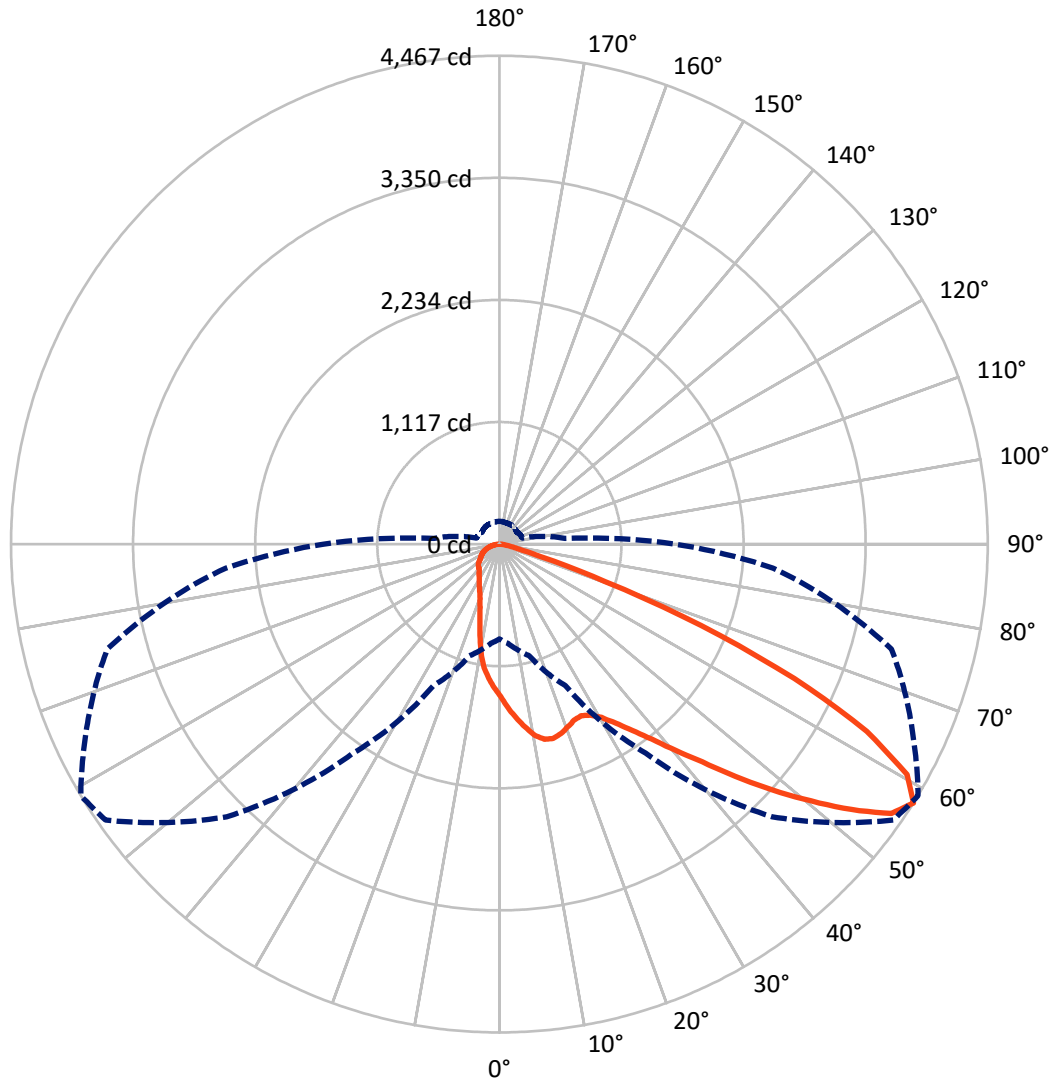
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.1 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	882.1	0.0	882.1
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	4801.8	0.0	4801.8
	% Fixture	84.5	0.0	84.5
Total	Lumens	5683.9	0.0	5683.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.6	2.3
10°-20°	328.3	5.8
20°-30°	532.2	9.4
30°-40°	856.1	15.1
40°-50°	1329.4	23.4
50°-60°	1431.9	25.2
60°-70°	831.0	14.6
70°-80°	216.9	3.8
80°-90°	28.6	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°	5683.9	100.0
0°-180°	5683.9	100.0

Coefficient of Utilization



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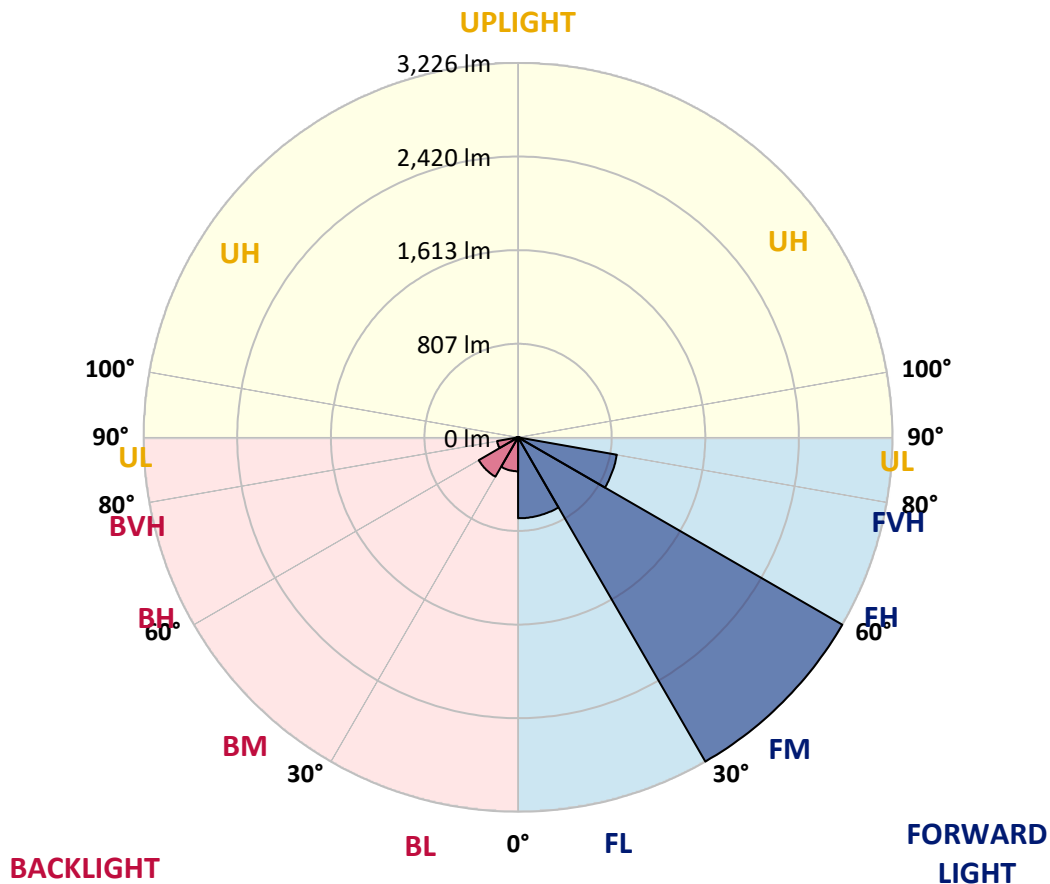
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	697.4	12.3			
FM (30°-60°)	3226.2	56.8			
FH (60°-80°)	864.5	15.2			G1/1800
FVH (80°-90°)	13.7	0.2			G1/100
BL (0°-30°)	292.7	5.1	B1/500		
BM (30°-60°)	391.1	6.9	B1/1000		
BH (60°-80°)	183.5	3.2	B1/500		G1/500
BVH (80°-90°)	14.9	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°	1395.3	1395.3	1395.3	1395.3	1395.3	1395.3	1395.3	1395.3	1395.3	1395.3	1395.3
2.5°	1582.5	1569.3	1578.5	1562.1	1555.3	1537.3	1514.1	1498.5	1474.5	1443.3	1416.1
5°	1739.8	1730.6	1732.6	1715.0	1699.4	1669.4	1621.8	1595.4	1554.5	1491.7	1433.3
7.5°	1735.0	1745.8	1751.8	1767.0	1771.4	1768.6	1725.8	1689.0	1644.2	1549.7	1461.7
10°	1555.3	1575.7	1594.2	1646.2	1709.4	1789.4	1799.4	1777.4	1732.2	1623.8	1495.7
12.5°	1359.7	1375.3	1391.7	1454.1	1550.9	1711.0	1819.4	1833.0	1815.0	1697.0	1534.1
15°	1263.6	1270.8	1286.4	1327.7	1404.9	1582.5	1784.6	1844.2	1876.7	1774.6	1577.3
17.5°	1259.6	1262.8	1270.4	1292.4	1346.1	1483.3	1721.8	1821.8	1925.1	1856.6	1627.8
20°	1342.5	1334.1	1329.3	1328.9	1355.3	1450.1	1661.0	1785.8	1947.9	1940.7	1681.8
22.5°	1457.3	1460.1	1449.7	1424.1	1420.9	1473.7	1630.6	1749.4	1954.7	2015.1	1731.8
25°	1620.2	1634.2	1603.4	1554.5	1530.5	1542.1	1649.4	1738.2	1953.9	2077.1	1763.0
27.5°	1810.2	1821.0	1789.8	1725.8	1676.2	1648.2	1705.4	1771.4	1960.7	2130.7	1781.8
30°	2026.7	2030.3	1987.5	1920.3	1847.8	1787.8	1798.6	1839.8	1995.5	2201.2	1803.8
32.5°	2291.2	2306.4	2241.6	2135.1	2033.9	1957.1	1923.9	1950.3	2070.7	2284.4	1837.8
35°	2626.9	2632.1	2549.7	2397.2	2254.0	2147.5	2077.9	2091.9	2185.2	2400.8	1889.1
37.5°	2943.4	2948.6	2861.0	2719.3	2514.5	2368.8	2268.0	2261.6	2331.6	2565.3	1972.7
40°	3144.3	3159.1	3119.9	3031.1	2835.4	2638.9	2502.1	2480.1	2523.7	2766.6	2089.1
42.5°	3252.3	3258.7	3257.9	3269.5	3153.1	2957.8	2766.2	2722.1	2751.4	2983.8	2206.8
45°	3253.1	3269.1	3311.9	3423.6	3428.8	3307.1	3099.9	3031.1	3004.2	3202.7	2329.6
47.5°	3107.5	3124.7	3242.3	3462.0	3624.1	3651.7	3499.6	3361.6	3248.7	3391.2	2430.4
50°	2666.5	2709.7	2933.8	3322.4	3662.5	3927.8	3880.9	3693.7	3466.0	3536.8	2493.7
52.5°	2283.6	2282.0	2420.0	2927.8	3502.0	4049.4	4249.9	4035.4	3680.9	3629.3	2509.7
55°	1672.2	1681.4	1822.6	2239.2	3073.9	3931.8	4452.7	4349.9	3927.4	3678.5	2503.3
57.5°	867.1	912.7	1057.6	1428.9	2335.6	3526.8	4398.7	4467.1	4177.8	3713.3	2511.7
60°	438.2	429.3	481.4	682.2	1353.3	2754.6	4065.8	4283.9	4223.1	3740.5	2516.9
62.5°	292.5	290.1	275.7	316.1	553.0	1631.4	3466.0	3771.7	3909.0	3676.5	2450.4
65°	253.3	248.5	222.1	220.5	268.5	676.6	2540.5	2965.0	3230.7	3392.0	2291.6
67.5°	228.1	220.9	194.1	180.9	192.9	297.3	1431.7	1988.7	2385.6	2868.6	1943.5
70°	203.7	200.1	173.3	154.1	152.9	181.3	527.4	1026.4	1459.7	1957.1	1420.9
72.5°	182.5	176.1	153.3	134.8	125.6	128.4	228.9	395.3	755.5	1220.8	849.9
75°	158.1	153.3	133.2	114.8	103.6	94.0	139.6	182.9	344.5	580.2	401.3
77.5°	122.0	118.8	105.2	91.2	84.8	70.0	84.8	115.2	159.3	244.5	208.9
80°	70.8	72.8	78.4	71.2	62.4	50.0	55.2	66.4	95.6	132.4	118.4
82.5°	35.6	38.0	50.8	41.2	37.2	29.2	32.8	39.2	50.0	73.2	46.4
85°	2.8	2.8	9.2	10.4	12.8	10.4	13.2	16.0	22.8	29.2	15.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.0	3.6	6.8	4.4
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°	1395.3	1395.3	1395.3	1395.3	1395.3	1395.3	1395.3	1395.3	1395.3	1395.3	1395.3
2.5°	1397.7	1377.3	1352.9	1332.9	1302.1	1285.6	1264.8	1239.2	1228.8	1224.0	1221.2
5°	1400.5	1364.5	1312.5	1264.4	1211.2	1169.2	1122.4	1073.6	1045.6	1038.8	1034.0
7.5°	1410.9	1360.5	1277.6	1198.4	1099.6	1007.9	918.7	830.3	785.1	767.9	766.3
10°	1425.3	1358.9	1242.4	1110.8	943.9	799.1	694.6	625.4	596.2	586.6	583.4
12.5°	1443.3	1357.7	1196.0	989.1	764.3	627.4	567.8	556.6	560.6	559.8	559.8
15°	1466.1	1359.3	1140.0	851.5	618.2	544.6	545.8	559.0	571.4	573.4	573.4
17.5°	1490.9	1357.7	1058.8	713.4	530.6	525.0	543.4	561.8	573.0	574.6	574.6
20°	1517.7	1350.1	956.3	583.4	492.2	512.6	532.6	547.0	553.8	555.4	555.4
22.5°	1533.7	1328.5	845.1	493.8	467.8	493.0	506.2	521.0	521.8	509.0	508.6
25°	1531.3	1288.0	718.2	436.2	441.8	463.8	480.6	470.2	457.4	450.2	449.0
27.5°	1516.1	1227.2	589.0	392.5	410.9	435.8	430.5	421.7	418.5	410.5	409.7
30°	1496.9	1152.4	473.0	358.5	378.9	401.7	393.7	392.9	389.7	380.9	380.9
32.5°	1478.5	1075.2	385.3	333.3	358.5	360.1	371.3	372.1	370.5	355.3	353.7
35°	1473.3	997.9	326.1	313.3	338.5	337.7	353.7	353.3	325.7	304.5	304.1
37.5°	1488.9	919.5	290.9	296.9	310.9	321.3	334.1	310.9	301.7	288.9	288.1
40°	1522.1	847.1	272.9	287.3	293.3	308.5	288.5	290.1	287.7	278.1	276.9
42.5°	1566.1	785.5	262.9	284.1	283.3	287.3	265.3	271.7	275.3	268.1	266.9
45°	1608.6	731.9	257.7	272.1	276.1	252.9	248.5	254.5	260.1	257.3	256.1
47.5°	1639.8	685.4	254.9	255.7	266.9	241.3	234.1	236.9	243.7	244.9	244.5
50°	1649.4	645.8	251.7	242.1	239.7	229.7	224.1	223.3	231.3	236.9	237.7
52.5°	1631.0	610.6	243.3	230.1	218.5	220.1	218.1	214.1	222.1	229.7	230.5
55°	1603.8	590.6	230.1	218.5	204.9	211.3	212.1	208.5	213.7	218.9	218.9
57.5°	1605.8	602.2	217.3	207.7	192.9	201.3	205.7	204.1	204.1	208.1	208.5
60°	1619.0	619.0	208.9	194.1	180.9	189.7	199.7	198.1	194.5	199.7	199.7
62.5°	1580.9	596.6	203.3	180.9	168.1	178.5	190.5	189.7	185.7	194.1	194.9
65°	1468.9	536.6	196.9	164.5	155.3	167.3	177.7	180.5	176.9	188.1	190.1
67.5°	1231.2	451.4	184.5	148.9	142.4	153.7	163.7	167.7	164.9	178.1	179.7
70°	917.9	365.3	164.9	131.6	126.8	136.8	146.1	147.7	148.1	163.7	165.3
72.5°	585.4	284.1	138.8	112.4	108.8	116.4	123.2	129.6	132.4	147.3	146.9
75°	326.5	211.3	111.6	95.2	88.8	94.8	102.8	110.4	118.4	140.0	142.4
77.5°	188.1	148.5	88.4	76.4	68.8	75.2	82.0	92.8	116.8	135.6	133.2
80°	106.0	96.4	66.8	56.0	51.2	56.0	61.2	81.6	92.0	100.0	101.2
82.5°	49.6	54.0	45.6	34.4	34.4	37.6	42.4	63.2	69.6	56.8	49.6
85°	18.0	24.4	22.4	17.6	15.6	15.2	26.4	36.0	22.4	20.0	17.2
87.5°	4.8	6.8	6.4	4.4	2.4	2.0	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)