

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: P630212

Luminaire Tested: GWS-SA1D-730-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630212
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1D-730-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4158.7 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

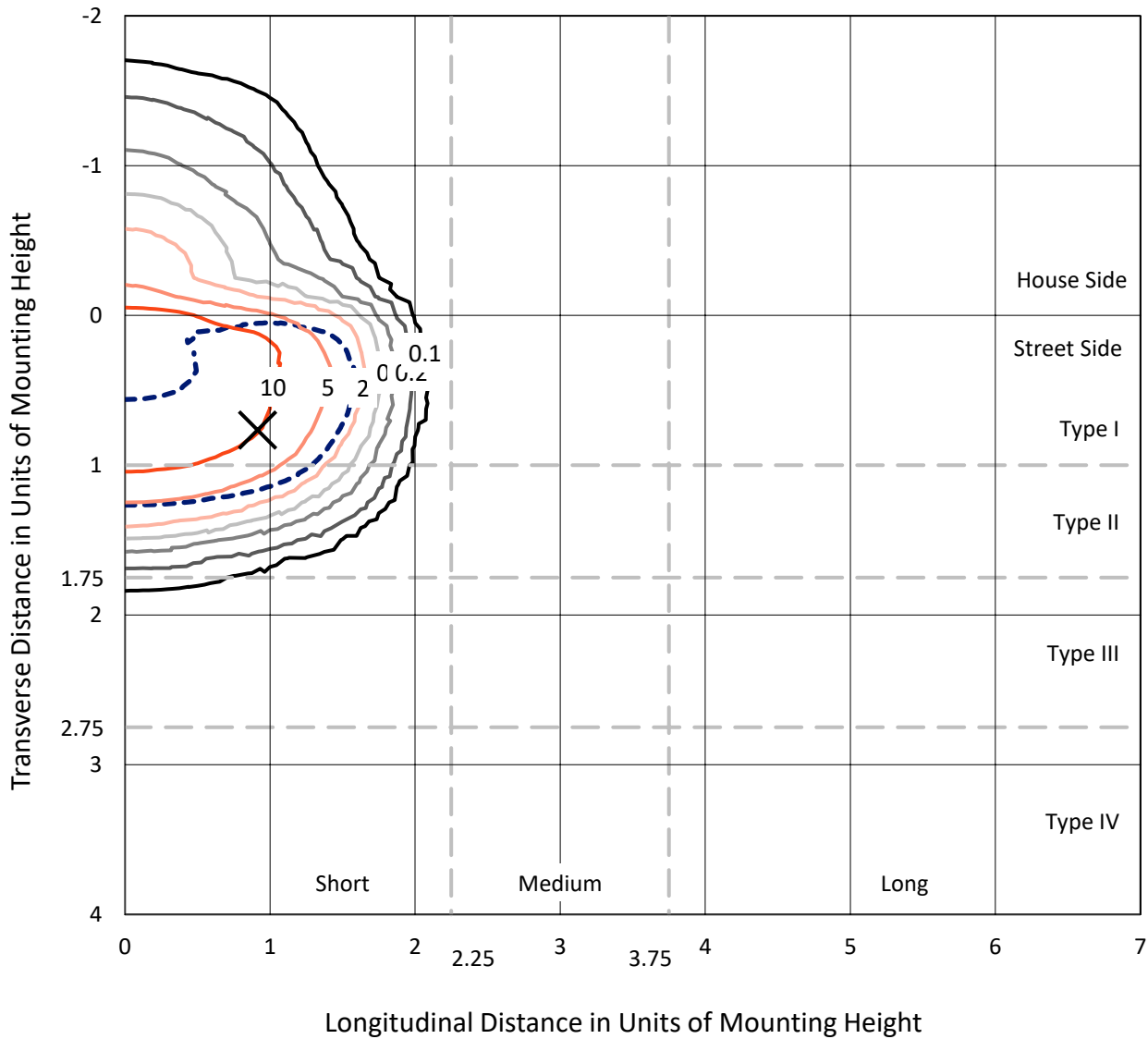
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

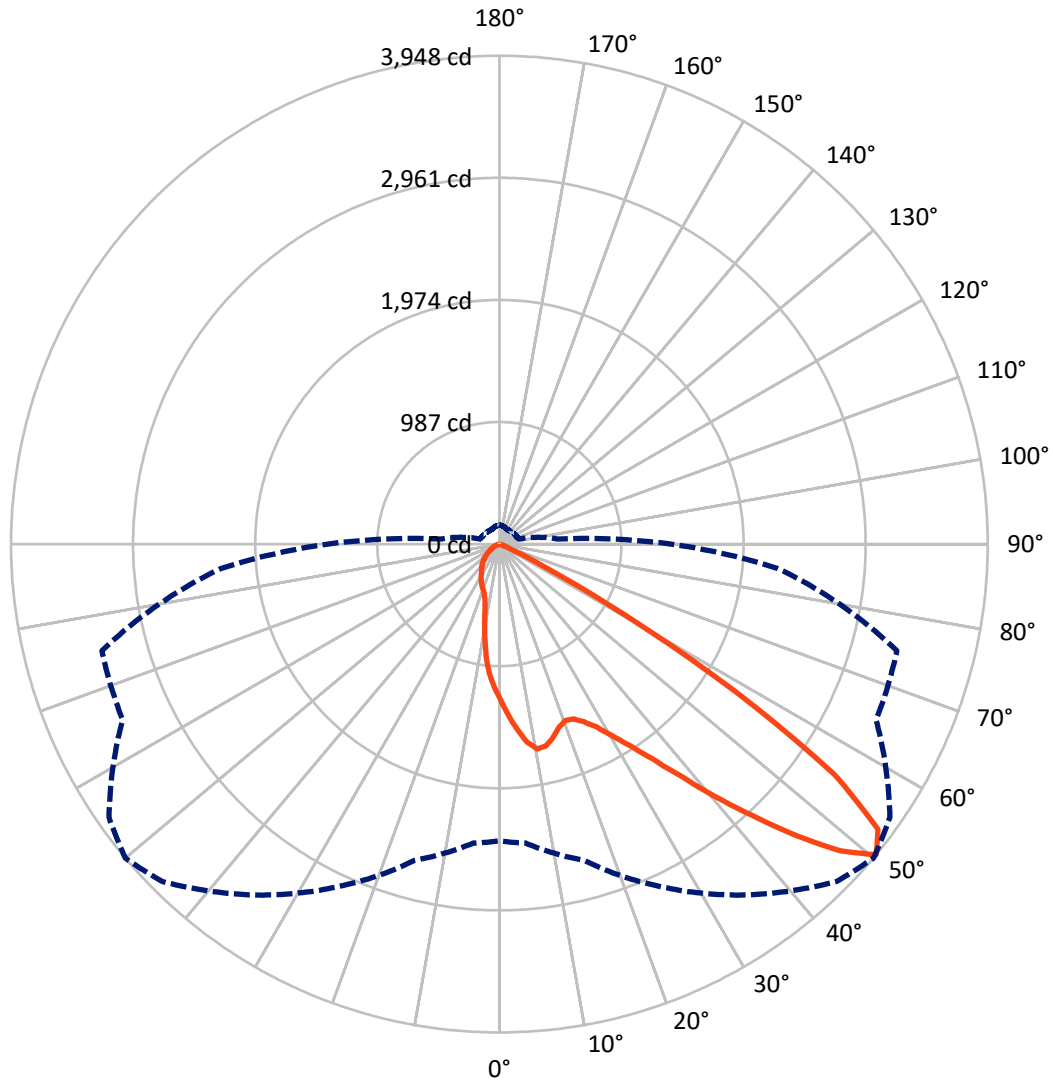
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	534.3	0.0	534.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	3624.4	0.0	3624.4
	% Fixture	87.2	0.0	87.2
Total	Lumens	4158.7	0.0	4158.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.9	2.8
10°-20°	301.5	7.3
20°-30°	497.7	12.0
30°-40°	821.3	19.7
40°-50°	1299.4	31.2
50°-60°	983.8	23.7
60°-70°	123.1	3.0
70°-80°	13.9	0.3
80°-90°	1.1	0.0
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°	4158.7	100.0
0°-180°	4158.7	100.0

Coefficient of Utilization



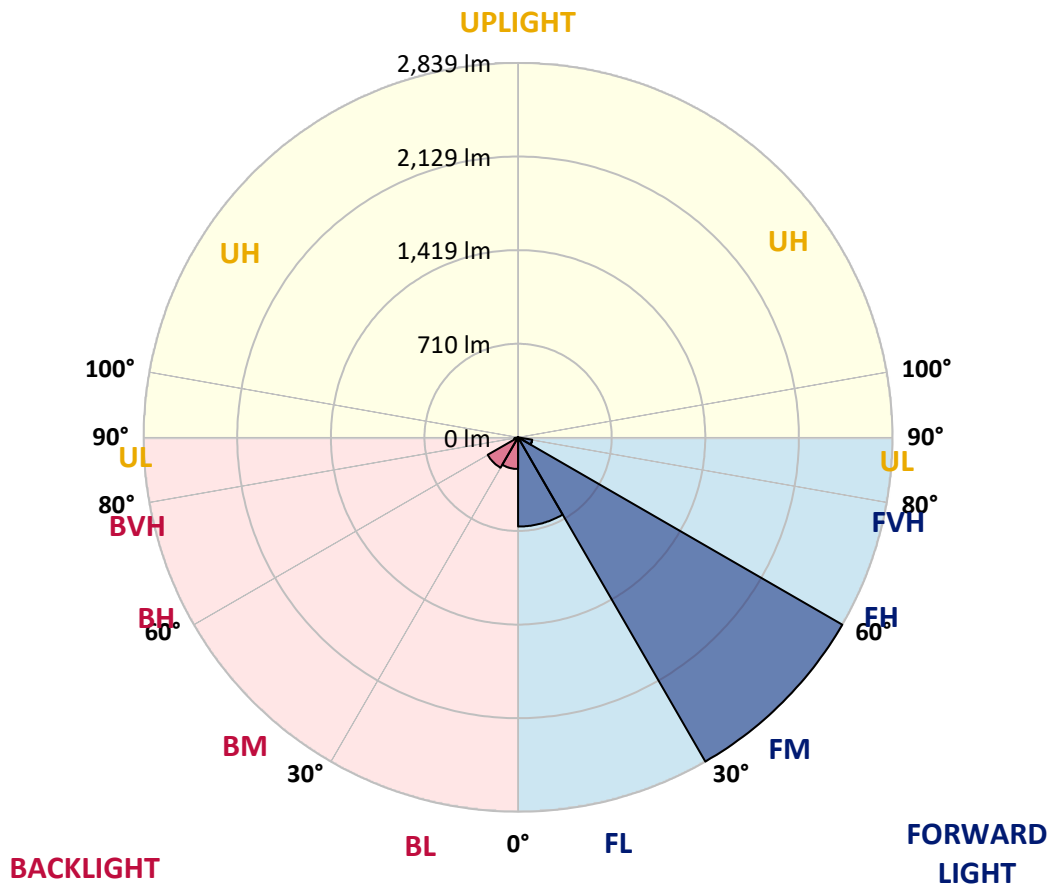
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	676.3	16.3			
FM (30°-60°)	2838.7	68.3			
FH (60°-80°)	108.9	2.6			G0/660
FVH (80°-90°)	0.5	0.0			G0/10
BL (0°-30°)	239.8	5.8	B1/500		
BM (30°-60°)	265.7	6.4	B1/1000		
BH (60°-80°)	28.2	0.7	B0/110		G0/110
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	1259.9	1259.9	1259.9	1259.9	1259.9	1259.9	1259.9	1259.9	1259.9	1259.9	1259.9
2.5°	1435.7	1447.1	1444.0	1428.9	1412.7	1401.2	1383.4	1377.9	1337.5	1309.4	1279.7
5°	1609.0	1612.6	1608.6	1590.4	1561.9	1534.6	1505.3	1488.3	1420.6	1359.7	1297.5
7.5°	1650.6	1646.2	1653.8	1662.9	1658.9	1647.0	1616.2	1597.6	1516.8	1417.5	1323.3
10°	1520.8	1510.9	1539.0	1586.1	1635.6	1691.4	1683.5	1685.0	1610.6	1490.3	1356.9
12.5°	1348.6	1344.6	1365.6	1420.2	1517.2	1643.9	1674.4	1725.4	1696.5	1569.1	1395.3
15°	1273.0	1275.0	1287.6	1322.1	1391.7	1549.3	1622.5	1714.7	1773.3	1645.5	1437.6
17.5°	1284.5	1291.6	1291.2	1302.7	1345.0	1471.3	1556.8	1681.1	1832.7	1733.3	1486.3
20°	1362.4	1369.6	1358.9	1350.2	1364.4	1451.5	1522.4	1647.0	1872.7	1822.0	1537.8
22.5°	1479.2	1487.5	1462.2	1437.3	1428.1	1484.0	1535.4	1633.2	1903.1	1903.1	1583.7
25°	1620.5	1632.0	1592.8	1548.5	1523.1	1552.4	1591.2	1664.5	1934.4	1976.0	1615.0
27.5°	1778.5	1778.9	1745.2	1695.3	1647.8	1651.4	1674.7	1734.9	1968.8	2054.3	1639.5
30°	1956.2	1957.4	1912.6	1852.9	1793.1	1776.9	1796.7	1842.2	2040.5	2152.9	1673.6
32.5°	2185.8	2191.3	2127.2	2039.3	1961.7	1931.2	1942.7	1990.6	2154.5	2276.4	1724.6
35°	2496.1	2502.0	2407.4	2291.4	2168.0	2122.0	2133.5	2181.8	2319.6	2451.8	1806.2
37.5°	2802.5	2810.4	2714.6	2606.5	2437.1	2361.1	2373.0	2418.9	2567.3	2694.0	1936.8
40°	3014.2	3024.9	2995.2	2922.4	2765.3	2665.5	2679.8	2696.4	2840.1	2983.8	2106.2
42.5°	3125.9	3140.9	3153.6	3190.8	3108.0	3024.5	3000.4	3001.6	3117.5	3279.0	2282.3
45°	3132.6	3147.2	3212.1	3355.8	3418.8	3401.4	3357.4	3327.7	3329.3	3475.8	2392.4
47.5°	2914.9	2942.2	3063.7	3345.1	3581.8	3726.3	3704.2	3633.7	3418.4	3488.8	2380.5
50°	2399.1	2426.0	2646.9	3051.8	3463.1	3856.2	3947.6	3853.0	3360.2	3326.1	2258.2
52.5°	1742.4	1745.2	1888.5	2361.5	2981.8	3616.7	3832.0	3822.9	3271.5	3129.0	2091.2
55°	827.7	817.8	978.9	1332.8	2062.3	2925.2	3288.1	3391.1	3145.6	2986.5	1961.7
57.5°	241.1	245.8	317.5	520.1	1031.5	1869.5	2251.9	2443.4	2582.0	2455.3	1521.6
60°	108.1	108.5	120.7	158.3	343.6	869.6	1164.1	1401.2	1543.7	1430.5	754.8
62.5°	78.4	78.8	83.5	89.5	116.8	294.5	436.6	581.9	592.6	387.9	191.2
65°	65.3	65.3	66.1	66.1	70.1	105.3	132.6	171.0	144.1	106.9	74.8
67.5°	52.6	53.0	53.8	53.8	52.6	52.6	57.0	62.5	66.9	82.7	68.9
70°	41.2	40.8	40.8	41.2	40.0	34.0	36.8	42.0	45.9	64.5	59.8
72.5°	32.1	32.5	32.1	30.5	27.7	20.2	21.8	27.3	29.3	40.4	40.4
75°	24.1	24.5	23.0	17.4	11.5	6.3	8.3	13.5	17.0	19.8	14.6
77.5°	3.2	3.2	2.4	2.4	2.0	2.4	2.4	3.2	4.7	4.7	3.6
80°	0.4	0.4	0.4	0.8	1.2	1.6	1.6	1.6	1.6	2.0	2.0
82.5°	0.4	0.4	0.4	0.4	1.2	1.2	1.6	1.6	1.6	1.6	1.6
85°	0.0	0.0	0.0	0.4	0.8	1.2	1.2	1.6	1.6	1.6	1.6
87.5°	0.0	0.0	0.0	0.4	0.8	1.2	1.2	1.2	1.6	1.6	1.6
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°	1259.9	1259.9	1259.9	1259.9	1259.9	1259.9	1259.9	1259.9	1259.9	1259.9	1259.9
2.5°	1261.9	1238.9	1211.2	1192.2	1165.3	1147.5	1122.2	1105.2	1090.5	1079.0	1085.4
5°	1262.3	1225.9	1169.3	1121.0	1068.3	1020.0	968.2	927.4	890.6	874.0	883.1
7.5°	1270.2	1218.0	1131.3	1045.4	944.4	844.7	751.3	675.3	637.7	619.9	625.4
10°	1285.6	1214.4	1088.9	946.4	782.6	646.4	555.7	504.3	483.3	472.2	474.2
12.5°	1299.9	1212.0	1033.9	816.2	617.5	501.5	454.4	447.3	451.6	452.0	451.6
15°	1319.3	1207.7	965.8	682.4	494.0	433.4	434.6	444.9	455.2	458.4	457.6
17.5°	1339.9	1200.9	877.9	554.2	419.2	413.6	427.5	441.3	451.6	453.2	453.6
20°	1361.3	1187.1	777.8	452.4	384.3	398.6	414.0	424.3	431.8	434.2	435.0
22.5°	1371.1	1157.8	662.2	379.6	361.0	380.0	391.5	404.9	407.3	398.6	400.2
25°	1366.0	1108.3	549.4	330.5	337.6	356.6	373.7	366.9	357.0	350.7	352.7
27.5°	1349.8	1042.6	439.0	294.5	312.7	336.8	338.8	331.3	329.7	324.6	326.2
30°	1332.4	967.0	353.1	265.6	287.4	312.7	306.8	309.5	309.9	304.0	306.0
32.5°	1321.7	887.8	281.0	246.2	271.1	275.9	287.8	293.3	293.7	279.9	282.2
35°	1325.2	809.9	237.9	230.4	256.1	254.9	271.5	274.7	251.7	232.7	234.7
37.5°	1354.1	737.8	213.4	218.1	230.0	239.1	251.7	230.8	225.6	216.9	218.1
40°	1408.0	676.5	198.7	210.6	212.2	226.8	207.4	210.2	210.6	205.0	206.2
42.5°	1470.9	625.4	190.0	206.2	202.3	204.6	185.2	190.8	196.7	194.4	194.7
45°	1502.6	575.5	182.5	191.2	192.4	169.8	165.5	171.4	178.9	180.1	180.5
47.5°	1474.5	528.0	174.6	169.4	177.3	154.8	149.6	151.6	160.3	165.1	165.9
50°	1388.6	473.4	162.7	150.0	145.7	138.9	134.2	134.6	144.5	152.8	154.4
52.5°	1267.8	416.4	143.3	127.1	117.2	122.3	123.5	121.1	130.2	138.5	140.1
55°	1150.7	345.2	113.6	103.3	94.2	105.3	108.5	105.3	108.1	113.6	114.0
57.5°	810.3	195.1	87.1	85.5	78.0	90.2	95.4	90.6	85.9	89.5	90.2
60°	375.6	102.1	66.9	66.9	64.9	77.6	86.3	79.6	70.5	72.0	73.2
62.5°	117.6	64.5	49.1	46.3	53.0	66.1	73.2	66.5	55.8	55.8	57.4
65°	66.5	55.4	38.8	35.6	43.1	53.0	57.4	50.3	40.8	40.0	40.0
67.5°	61.7	52.6	34.4	28.9	30.5	34.0	35.6	30.9	28.1	27.7	28.1
70°	51.1	43.9	27.7	19.8	18.6	18.2	19.0	17.8	17.0	17.4	18.6
72.5°	31.7	26.5	17.4	11.9	10.3	9.9	9.9	9.9	9.5	9.5	9.5
75°	11.5	9.9	7.9	5.9	5.1	4.7	4.7	5.1	4.7	4.4	4.0
77.5°	3.6	3.2	3.2	3.2	2.8	2.4	2.0	2.0	1.6	1.2	1.2
80°	2.0	2.0	2.0	2.0	1.6	1.6	1.2	0.8	0.4	0.4	0.0
82.5°	2.0	2.0	2.0	1.6	1.6	1.6	1.2	0.8	0.4	0.0	0.0
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.2	0.8	0.4	0.0	0.0
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.2	0.8	0.4	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)