

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: P630982

Luminaire Tested: GWS-SA1E-827-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630982
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-SA1E-827-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) 2700K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4195.3 lumens
Efficiency: N/A
Efficacy: 71.8 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

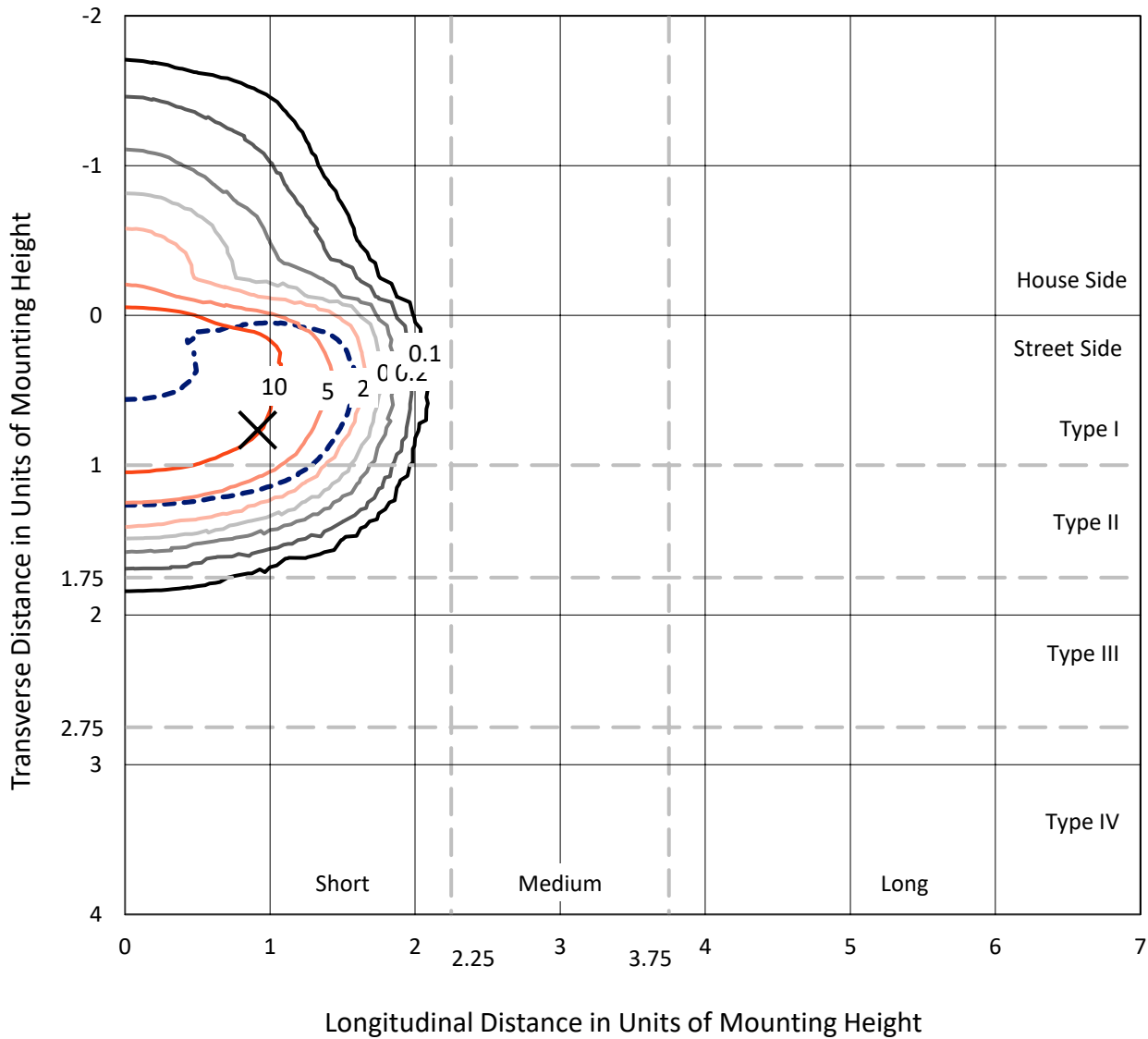
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

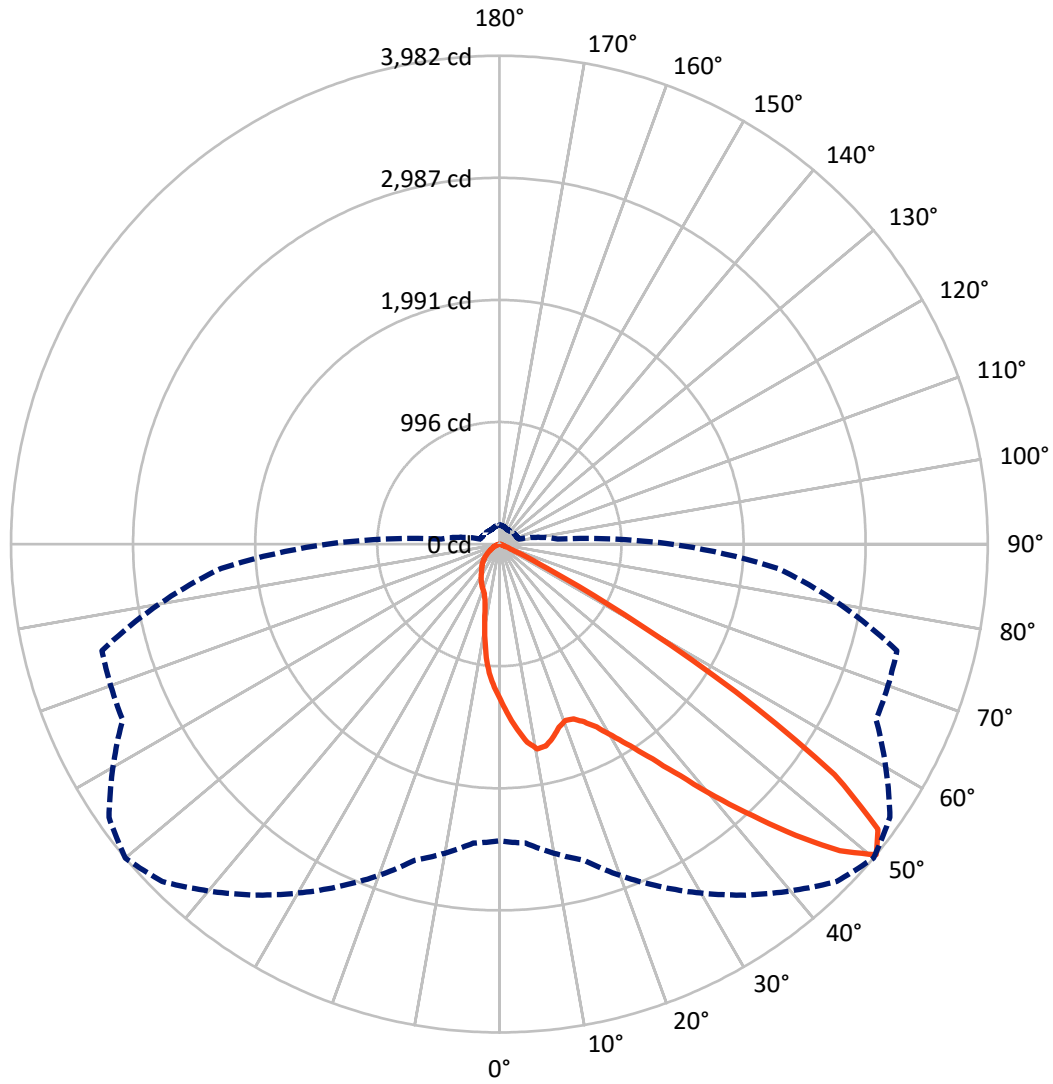
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.3 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	539.0	0.0	539.0
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	3656.3	0.0	3656.3
	% Fixture	87.2	0.0	87.2
Total	Lumens	4195.3	0.0	4195.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.9	2.8
10°-20°	304.2	7.3
20°-30°	502.0	12.0
30°-40°	828.5	19.7
40°-50°	1310.9	31.2
50°-60°	992.5	23.7
60°-70°	124.2	3.0
70°-80°	14.1	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°	4195.3	100.0
0°-180°	4195.3	100.0

Coefficient of Utilization



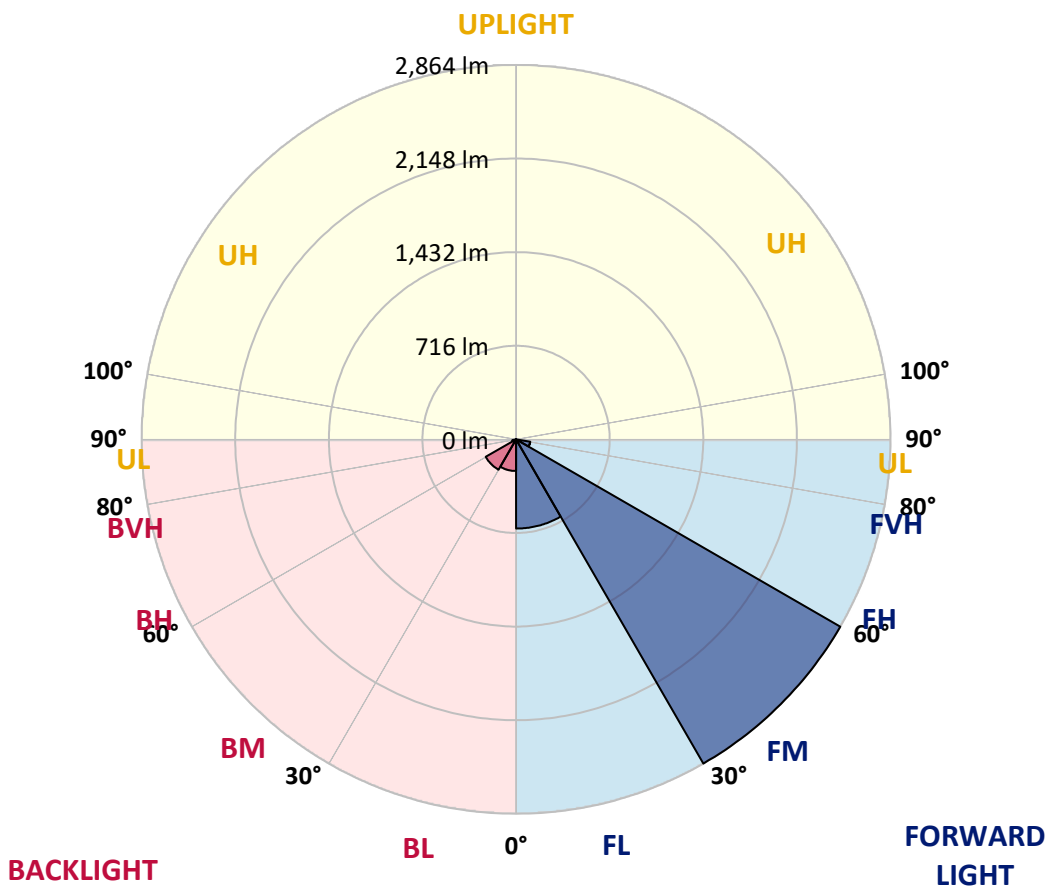
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	682.2	16.3			
FM (30°-60°)	2863.7	68.3			
FH (60°-80°)	109.8	2.6			G0/660
FVH (80°-90°)	0.5	0.0			G0/10
BL (0°-30°)	241.9	5.8	B1/500		
BM (30°-60°)	268.1	6.4	B1/1000		
BH (60°-80°)	28.4	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°	1271.0	1271.0	1271.0	1271.0	1271.0	1271.0	1271.0	1271.0	1271.0	1271.0	1271.0
2.5°	1448.3	1459.9	1456.7	1441.5	1425.1	1413.6	1395.6	1390.0	1349.3	1320.9	1291.0
5°	1623.2	1626.8	1622.8	1604.4	1575.7	1548.1	1518.6	1501.4	1433.1	1371.6	1308.9
7.5°	1665.1	1660.7	1668.3	1677.5	1673.5	1661.5	1630.4	1611.6	1530.2	1429.9	1334.9
10°	1534.2	1524.2	1552.5	1600.0	1650.0	1706.3	1698.3	1699.9	1624.8	1503.4	1368.8
12.5°	1360.5	1356.5	1377.6	1432.7	1530.6	1658.3	1689.1	1740.6	1711.4	1582.9	1407.6
15°	1284.2	1286.2	1299.0	1333.7	1404.0	1562.9	1636.8	1729.8	1788.9	1659.9	1450.3
17.5°	1295.8	1303.0	1302.6	1314.1	1356.9	1484.2	1570.5	1695.9	1848.8	1748.6	1499.4
20°	1374.4	1381.6	1370.8	1362.1	1376.4	1464.3	1535.8	1661.5	1889.1	1838.0	1551.3
22.5°	1492.2	1500.6	1475.1	1449.9	1440.7	1497.0	1548.9	1647.6	1919.9	1919.9	1597.6
25°	1634.8	1646.4	1606.8	1562.1	1536.6	1566.1	1605.2	1679.1	1951.4	1993.4	1629.2
27.5°	1794.1	1794.5	1760.6	1710.3	1662.3	1665.9	1689.5	1750.2	1986.2	2072.4	1653.9
30°	1973.4	1974.6	1929.5	1869.2	1808.9	1792.5	1812.5	1858.4	2058.5	2171.9	1688.3
32.5°	2205.0	2210.6	2145.9	2057.3	1979.0	1948.2	1959.8	2008.1	2173.5	2296.4	1739.8
35°	2518.1	2524.0	2428.6	2311.6	2187.0	2140.7	2152.3	2201.0	2340.0	2473.3	1822.1
37.5°	2827.1	2835.1	2738.5	2629.5	2458.6	2381.9	2393.9	2440.2	2589.9	2717.7	1953.8
40°	3040.8	3051.5	3021.6	2948.1	2789.6	2689.0	2703.3	2720.1	2865.1	3010.0	2124.7
42.5°	3153.4	3168.5	3181.3	3218.9	3135.4	3051.1	3026.8	3028.0	3145.0	3307.9	2302.4
45°	3160.2	3174.9	3240.4	3385.4	3448.9	3431.3	3387.0	3357.0	3358.6	3506.4	2413.4
47.5°	2940.5	2968.1	3090.7	3374.6	3613.4	3759.1	3736.8	3665.7	3448.5	3519.5	2401.5
50°	2420.2	2447.4	2670.2	3078.7	3493.6	3890.1	3982.3	3886.9	3389.8	3355.4	2278.1
52.5°	1757.8	1760.6	1905.1	2382.3	3008.0	3648.5	3865.7	3856.6	3300.3	3156.6	2109.6
55°	835.0	825.0	987.5	1344.5	2080.4	2950.9	3317.1	3420.9	3173.3	3012.8	1979.0
57.5°	243.2	248.0	320.2	524.7	1040.6	1885.9	2271.7	2465.0	2604.7	2476.9	1535.0
60°	109.0	109.4	121.8	159.7	346.6	877.3	1174.4	1413.6	1557.3	1443.1	761.5
62.5°	79.1	79.5	84.3	90.2	117.8	297.1	440.4	587.0	597.8	391.3	192.9
65°	65.9	65.9	66.7	66.7	70.7	106.2	133.8	172.5	145.3	107.8	75.5
67.5°	53.1	53.5	54.3	54.3	53.1	53.1	57.5	63.1	67.5	83.5	69.5
70°	41.5	41.1	41.1	41.5	40.3	34.3	37.1	42.3	46.3	65.1	60.3
72.5°	32.3	32.7	32.3	30.7	28.0	20.4	22.0	27.6	29.5	40.7	40.7
75°	24.4	24.8	23.2	17.6	11.6	6.4	8.4	13.6	17.2	20.0	14.8
77.5°	3.2	3.2	2.4	2.4	2.0	2.4	2.4	3.2	4.8	4.8	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°	1271.0	1271.0	1271.0	1271.0	1271.0	1271.0	1271.0	1271.0	1271.0	1271.0	1271.0
2.5°	1273.0	1249.8	1221.9	1202.7	1175.6	1157.6	1132.0	1114.9	1100.1	1088.5	1094.9
5°	1273.4	1236.7	1179.6	1130.9	1077.7	1029.0	976.7	935.6	898.5	881.7	890.9
7.5°	1281.4	1228.7	1141.2	1054.6	952.8	852.1	757.9	681.2	643.3	625.3	630.9
10°	1297.0	1225.1	1098.5	954.8	789.4	652.1	560.6	508.7	487.6	476.4	478.4
12.5°	1311.3	1222.7	1043.0	823.4	622.9	505.9	458.4	451.2	455.6	456.0	455.6
15°	1330.9	1218.3	974.3	688.4	498.3	437.2	438.4	448.8	459.2	462.4	461.6
17.5°	1351.7	1211.5	885.7	559.0	422.9	417.3	431.3	445.2	455.6	457.2	457.6
20°	1373.2	1197.5	784.6	456.4	387.7	402.1	417.7	428.1	435.6	438.0	438.8
22.5°	1383.2	1168.0	668.0	382.9	364.2	383.3	394.9	408.5	410.9	402.1	403.7
25°	1378.0	1118.1	554.2	333.4	340.6	359.8	377.0	370.2	360.2	353.8	355.8
27.5°	1361.7	1051.8	442.8	297.1	315.5	339.8	341.8	334.2	332.6	327.4	329.0
30°	1344.1	975.5	356.2	267.9	289.9	315.5	309.5	312.3	312.7	306.7	308.7
32.5°	1333.3	895.7	283.5	248.4	273.5	278.3	290.3	295.9	296.3	282.3	284.7
35°	1336.9	817.0	240.0	232.4	258.4	257.2	273.9	277.1	254.0	234.8	236.8
37.5°	1366.0	744.3	215.2	220.0	232.0	241.2	254.0	232.8	227.6	218.8	220.0
40°	1420.4	682.4	200.5	212.4	214.0	228.8	209.2	212.0	212.4	206.8	208.0
42.5°	1483.8	630.9	191.7	208.0	204.0	206.4	186.9	192.5	198.5	196.1	196.5
45°	1515.8	580.6	184.1	192.9	194.1	171.3	166.9	172.9	180.5	181.7	182.1
47.5°	1487.4	532.7	176.1	170.9	178.9	156.1	150.9	152.9	161.7	166.5	167.3
50°	1400.8	477.6	164.1	151.3	146.9	140.2	135.4	135.8	145.7	154.1	155.7
52.5°	1279.0	420.1	144.6	128.2	118.2	123.4	124.6	122.2	131.4	139.8	141.4
55°	1160.8	348.2	114.6	104.2	95.0	106.2	109.4	106.2	109.0	114.6	115.0
57.5°	817.4	196.9	87.8	86.3	78.7	91.0	96.2	91.4	86.7	90.2	91.0
60°	378.9	103.0	67.5	67.5	65.5	78.3	87.0	80.3	71.1	72.7	73.9
62.5°	118.6	65.1	49.5	46.7	53.5	66.7	73.9	67.1	56.3	56.3	57.9
65°	67.1	55.9	39.1	35.9	43.5	53.5	57.9	50.7	41.1	40.3	40.3
67.5°	62.3	53.1	34.7	29.1	30.7	34.3	35.9	31.1	28.4	28.0	28.4
70°	51.5	44.3	28.0	20.0	18.8	18.4	19.2	18.0	17.2	17.6	18.8
72.5°	31.9	26.8	17.6	12.0	10.4	10.0	10.0	10.0	9.6	9.6	9.6
75°	11.6	10.0	8.0	6.0	5.2	4.8	4.8	5.2	4.8	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)