

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: P630305

Luminaire Tested: GWS-SA1D-735-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630305  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1D-735-U-T3R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (16) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

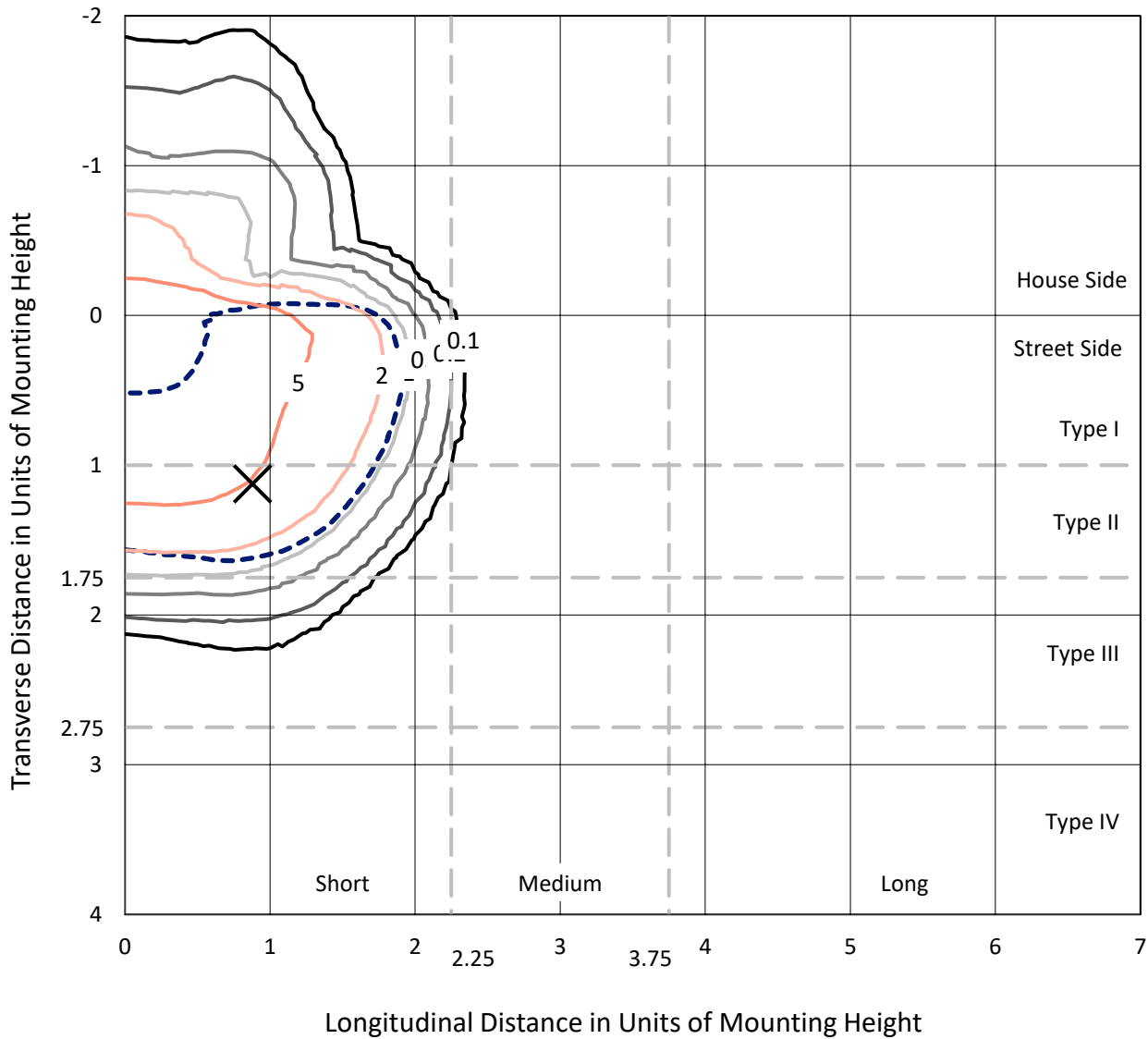
Lumens per Lamp: N/A  
Luminaire Lumens: 3751 lumens  
Efficiency: N/A  
Efficacy: 84.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 44.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

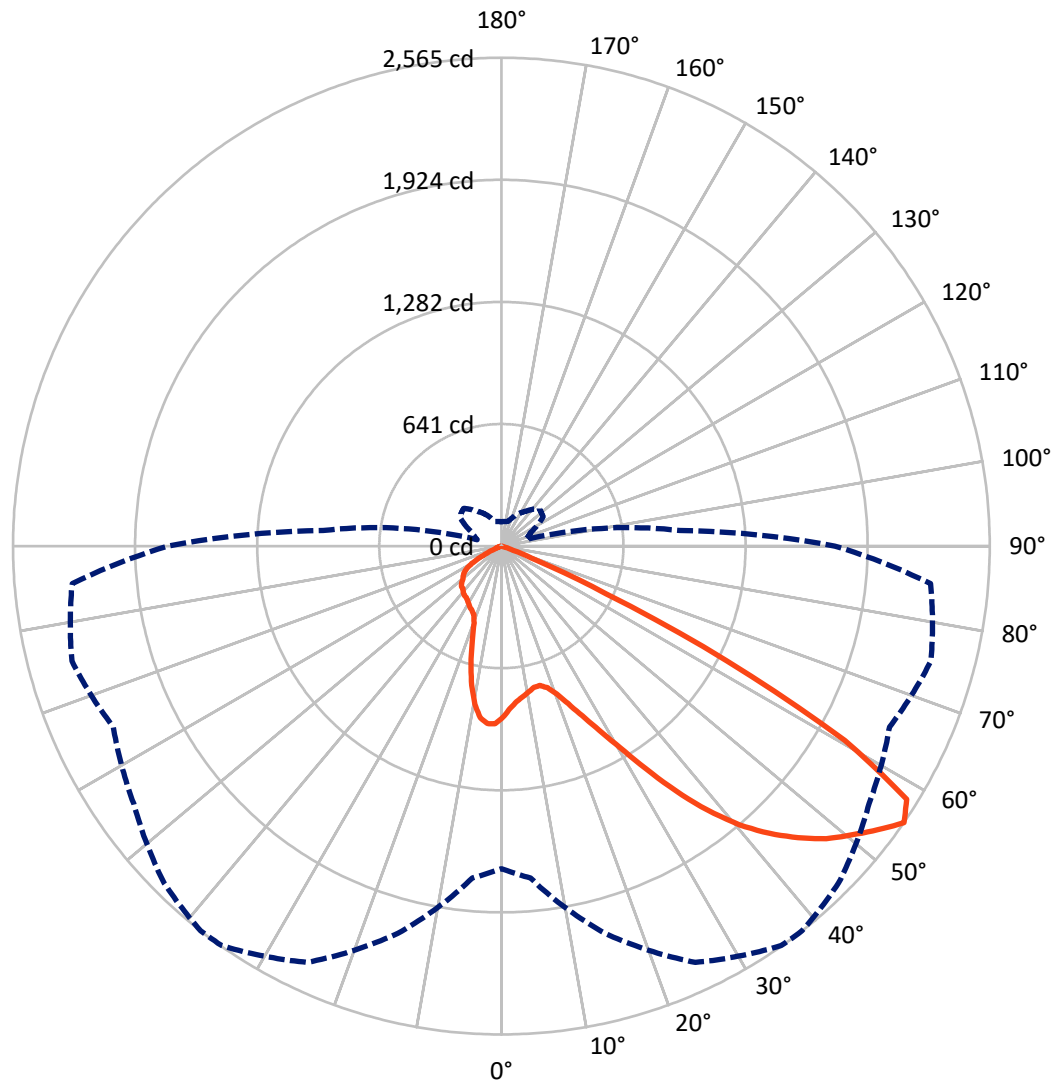
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	730.8	0.0	730.8
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	3020.2	0.0	3020.2
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	3751.0	0.0	3751.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.2	2.2
10°-20°	223.9	6.0
20°-30°	384.2	10.2
30°-40°	637.3	17.0
40°-50°	936.8	25.0
50°-60°	1094.7	29.2
60°-70°	371.1	9.9
70°-80°	19.0	0.5
80°-90°	0.8	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°	3751.0	100.0
0°-180°	3751.0	100.0

**Coefficient of Utilization**



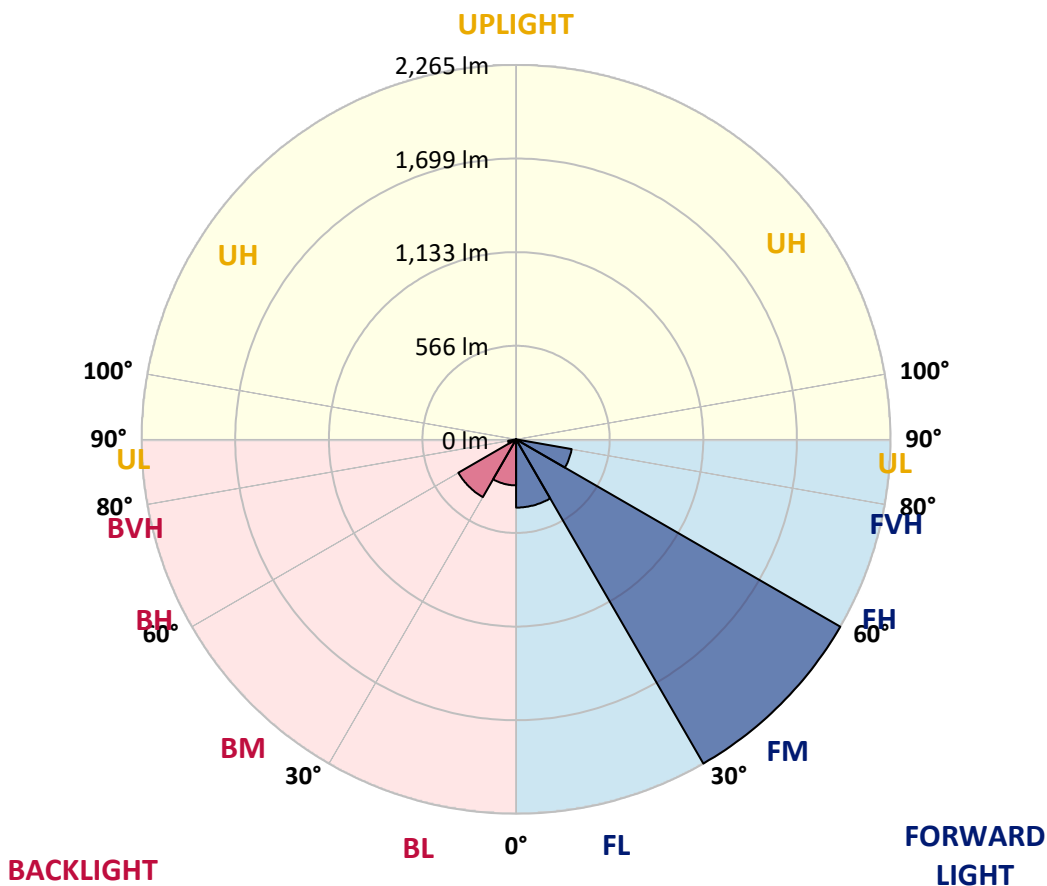
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	412.9	11.0			
FM (30°-60°)	2265.5	60.4			
FH (60°-80°)	341.4	9.1			G0/660
FVH (80°-90°)	0.4	0.0			G0/10
BL (0°-30°)	278.4	7.4	B1/500		
BM (30°-60°)	403.4	10.8	B1/1000		
BH (60°-80°)	48.7	1.3	B0/110		G0/110
BVH (80°-90°)	0.4	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°	38°	45°	55°	65°	75°	85°
0°	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5
2.5°	837.8	836.1	839.5	846.4	852.8	854.9	861.4	870.4	875.9	889.2	899.9
5°	800.0	799.2	802.6	808.6	817.2	820.2	830.1	845.1	860.1	883.2	905.9
7.5°	765.7	765.3	770.5	783.8	796.2	800.0	812.1	830.5	850.6	886.2	919.7
10°	720.7	721.2	731.0	749.9	772.6	780.3	799.6	826.2	852.4	898.2	944.5
12.5°	706.2	707.0	712.2	726.7	751.6	761.5	788.5	828.8	862.2	915.4	976.7
15°	741.7	741.7	737.5	739.2	750.3	759.3	787.6	837.3	878.9	936.0	1008.4
17.5°	810.8	808.2	797.5	782.9	779.0	782.0	804.8	855.8	902.5	960.0	1044.4
20°	904.2	905.1	884.1	853.6	829.2	828.8	842.5	888.4	936.4	988.7	1083.5
22.5°	1017.4	1014.0	986.1	944.5	902.1	898.7	904.2	938.1	985.3	1034.1	1131.5
25°	1148.6	1146.9	1107.5	1051.7	995.6	987.4	987.4	1020.9	1055.2	1098.9	1188.9
27.5°	1285.8	1285.8	1247.7	1183.4	1108.7	1094.2	1092.0	1131.5	1154.2	1162.8	1237.4
30°	1426.9	1425.2	1387.4	1321.4	1241.7	1226.7	1220.7	1249.8	1266.1	1240.4	1297.8
32.5°	1570.1	1573.1	1534.9	1473.6	1402.4	1392.6	1374.1	1374.1	1387.4	1351.4	1393.0
35°	1724.0	1723.1	1693.1	1651.5	1590.7	1579.5	1549.1	1501.5	1521.6	1505.8	1524.6
37.5°	1859.9	1866.4	1851.8	1820.9	1771.6	1760.4	1710.3	1624.1	1639.5	1664.4	1681.1
40°	1998.0	2003.1	2017.7	2007.8	1945.7	1925.1	1835.9	1694.4	1711.6	1796.9	1844.9
42.5°	2133.5	2136.0	2165.6	2181.9	2098.7	2062.7	1931.1	1737.3	1755.3	1900.7	1984.7
45°	2219.6	2225.2	2274.1	2323.8	2233.8	2184.5	2013.8	1792.2	1799.9	1972.7	2088.0
47.5°	2216.2	2229.1	2320.8	2411.3	2350.0	2296.8	2113.3	1880.1	1867.2	2040.4	2156.2
50°	2147.2	2162.6	2294.2	2437.9	2433.6	2384.3	2223.9	2007.4	1967.1	2100.4	2164.8
52.5°	2004.0	2048.6	2247.5	2441.3	2500.9	2476.0	2360.7	2178.9	2102.2	2186.6	2178.5
55°	1694.4	1749.3	2105.6	2412.2	2561.8	2564.8	2504.3	2357.7	2248.8	2335.0	2262.9
57.5°	1286.3	1330.0	1620.7	2147.2	2461.0	2510.3	2560.1	2452.0	2339.3	2436.2	2282.7
60°	775.2	825.8	1014.9	1575.7	1987.7	2071.7	2266.8	2245.8	2109.9	2151.5	1871.9
62.5°	314.3	340.9	468.6	868.2	1251.1	1329.6	1516.5	1548.2	1514.8	1472.3	1135.3
65°	114.9	125.6	187.8	358.9	575.4	604.1	702.7	758.9	805.2	685.6	422.3
67.5°	71.2	78.0	122.2	184.4	209.2	194.7	198.1	236.2	225.5	139.3	75.5
70°	52.7	58.3	95.6	127.8	84.5	65.2	44.2	47.2	42.4	37.3	36.9
72.5°	36.4	41.6	71.6	75.5	32.6	23.2	16.3	22.7	25.7	25.3	26.2
75°	24.0	27.9	45.0	29.6	8.1	6.4	5.6	12.0	15.4	15.4	15.9
77.5°	14.1	16.3	15.9	6.0	1.7	1.7	1.3	2.1	3.4	3.9	4.7
80°	1.7	1.3	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.3	1.3
82.5°	0.4	0.4	0.4	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.3
85°	0.0	0.0	0.4	0.4	0.9	0.9	0.9	0.9	0.9	1.3	1.3
87.5°	0.0	0.0	0.4	0.4	0.9	0.9	0.9	0.9	0.9	1.3	1.3
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°	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5
2.5°	908.1	905.1	917.5	926.5	933.8	937.2	932.5	932.1	932.1	922.7	920.1
5°	918.8	920.1	937.7	945.4	946.7	942.4	931.7	924.4	920.1	910.2	904.7
7.5°	939.4	943.7	960.4	959.1	947.5	927.8	899.5	877.7	863.5	848.1	838.6
10°	969.0	977.1	987.4	969.4	932.5	882.4	824.1	782.5	757.6	740.0	729.3
12.5°	1005.0	1013.1	1009.7	967.3	890.5	800.9	725.9	665.8	637.1	621.3	610.1
15°	1041.4	1046.6	1024.3	941.5	816.3	695.9	612.3	552.7	517.5	504.6	495.2
17.5°	1078.7	1077.4	1026.9	890.9	717.3	577.5	495.2	454.5	444.6	442.5	441.6
20°	1117.8	1106.2	1016.6	818.5	598.1	460.5	413.7	416.3	434.3	442.9	444.6
22.5°	1162.3	1133.2	990.8	720.3	476.3	383.7	388.4	413.7	438.2	449.8	451.5
25°	1209.9	1158.1	948.0	594.2	375.6	352.9	380.7	409.9	436.0	450.2	451.9
27.5°	1241.2	1164.1	877.7	467.3	322.4	340.9	370.4	398.3	425.3	440.8	442.9
30°	1275.1	1161.5	782.0	360.2	304.4	330.6	356.3	381.6	406.5	423.6	425.3
32.5°	1324.8	1159.8	665.4	292.4	297.1	322.4	341.3	362.3	379.4	389.3	388.0
35°	1390.0	1157.6	529.5	263.7	292.8	316.0	331.0	340.9	322.0	316.0	317.3
37.5°	1473.6	1162.8	415.0	251.7	291.6	314.3	327.1	298.8	269.7	258.5	256.8
40°	1566.2	1176.1	316.4	247.0	295.8	318.6	312.6	265.8	229.8	207.9	203.2
42.5°	1659.3	1190.6	250.4	245.2	303.1	330.6	288.5	241.8	187.8	175.4	173.6
45°	1728.3	1188.1	216.5	242.2	309.6	337.4	282.1	207.5	167.6	162.1	162.5
47.5°	1763.0	1159.8	198.1	235.4	312.1	330.6	266.3	193.4	153.9	159.9	165.1
50°	1744.6	1086.5	180.9	222.1	306.6	321.6	241.0	182.6	147.1	171.9	183.5
52.5°	1722.3	996.4	162.1	201.5	293.3	309.1	231.1	179.6	142.8	165.9	174.5
55°	1751.9	939.4	131.2	169.8	267.1	280.0	223.4	179.2	132.9	129.1	127.8
57.5°	1710.3	825.8	93.9	122.2	204.9	221.7	217.8	176.2	117.9	117.5	119.2
60°	1321.8	503.8	64.3	77.6	125.6	141.5	197.7	168.5	101.6	93.5	93.9
62.5°	751.2	214.4	44.2	48.0	64.3	76.3	150.9	153.1	93.9	89.2	93.9
65°	261.5	76.7	34.3	32.2	35.6	40.7	86.6	118.3	85.3	77.2	78.0
67.5°	54.0	38.2	30.4	26.6	26.6	26.6	44.2	73.7	70.3	61.3	62.2
70°	34.3	32.6	26.6	22.7	21.9	20.2	25.3	40.7	48.4	44.6	45.0
72.5°	25.3	24.9	21.0	18.4	16.3	14.6	15.9	20.2	24.9	25.7	26.2
75°	15.4	15.9	13.7	11.6	10.3	9.0	9.4	9.4	9.4	8.6	9.4
77.5°	4.7	5.1	4.3	3.4	3.0	3.0	3.0	2.6	2.1	1.3	1.3
80°	1.3	1.3	1.3	1.3	1.3	0.9	0.9	0.4	0.4	0.0	0.0
82.5°	1.3	1.3	1.3	1.3	0.9	0.9	0.4	0.4	0.0	0.0	0.0
85°	1.3	1.3	1.3	1.3	0.9	0.9	0.4	0.4	0.0	0.0	0.0
87.5°	1.3	1.3	1.3	1.3	0.9	0.9	0.4	0.4	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)