

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: P631261

Luminaire Tested: GWS-SA1F-735-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631261
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-735-U-RW-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE 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: 5385.5 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G0

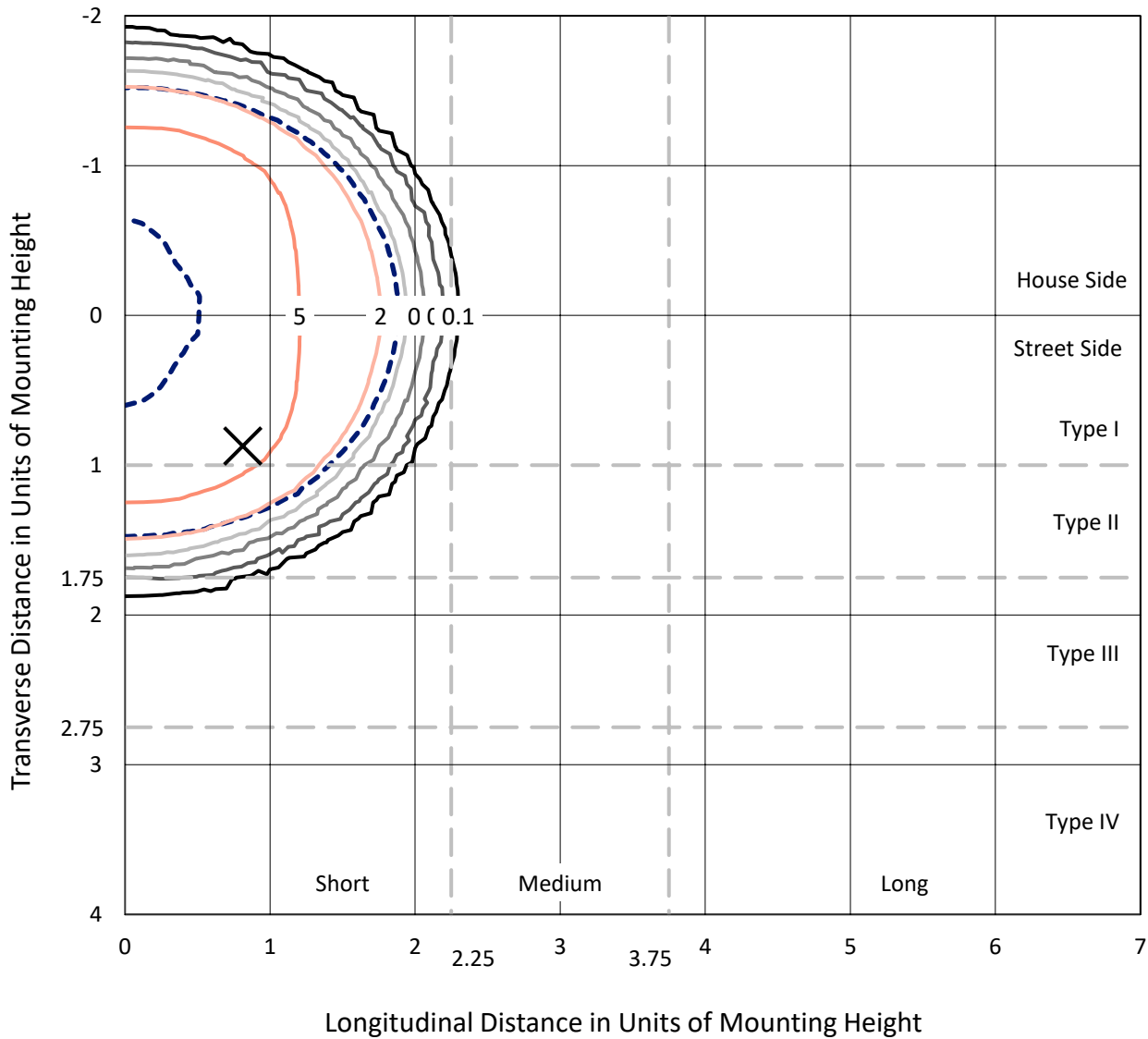
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

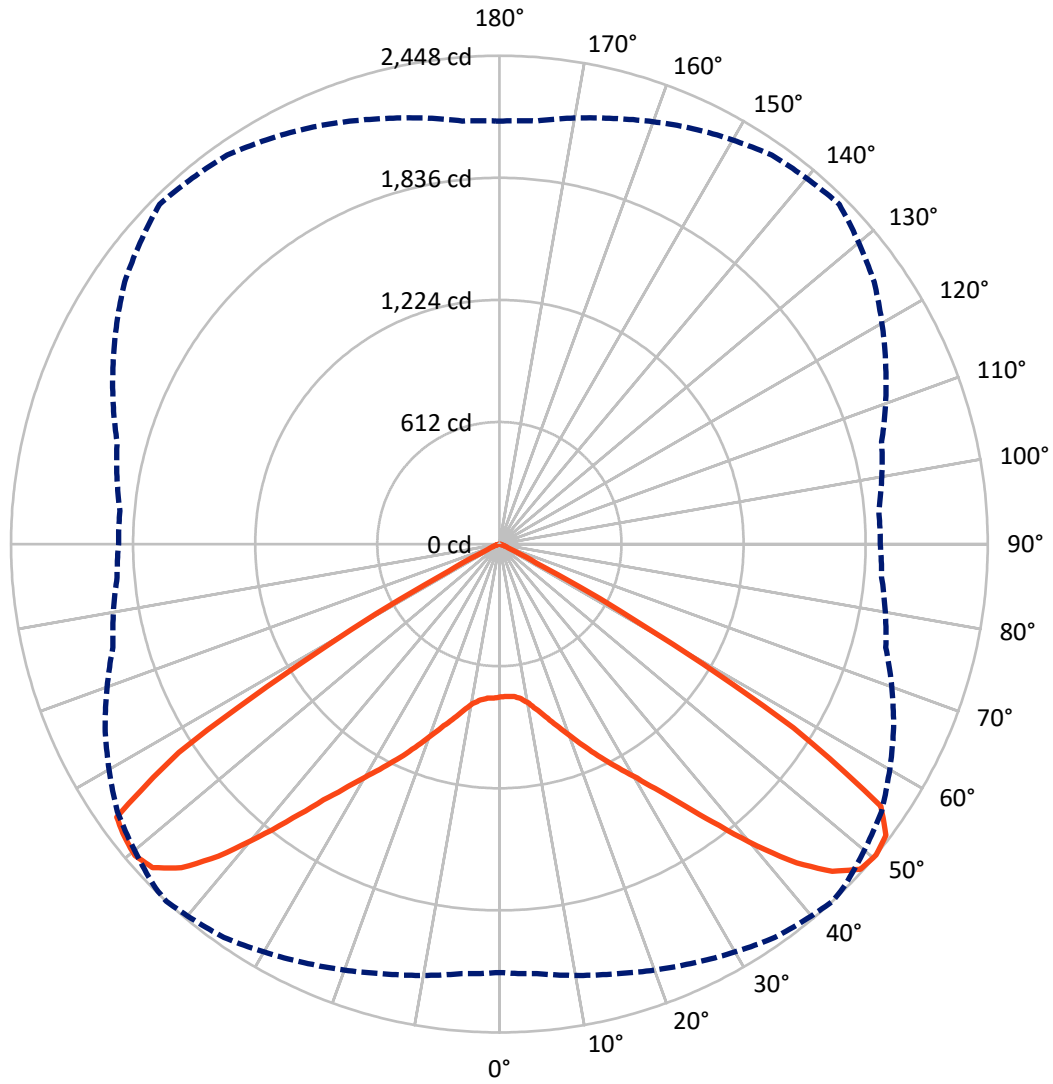
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2692.7	0.0	2692.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2692.8	0.0	2692.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	5385.5	0.0	5385.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.4	1.4
10°-20°	259.6	4.8
20°-30°	525.2	9.8
30°-40°	974.4	18.1
40°-50°	1617.5	30.0
50°-60°	1650.7	30.7
60°-70°	270.7	5.0
70°-80°	11.9	0.2
80°-90°	0.2	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°	5385.5	100.0
0°-180°	5385.5	100.0

Coefficient of Utilization



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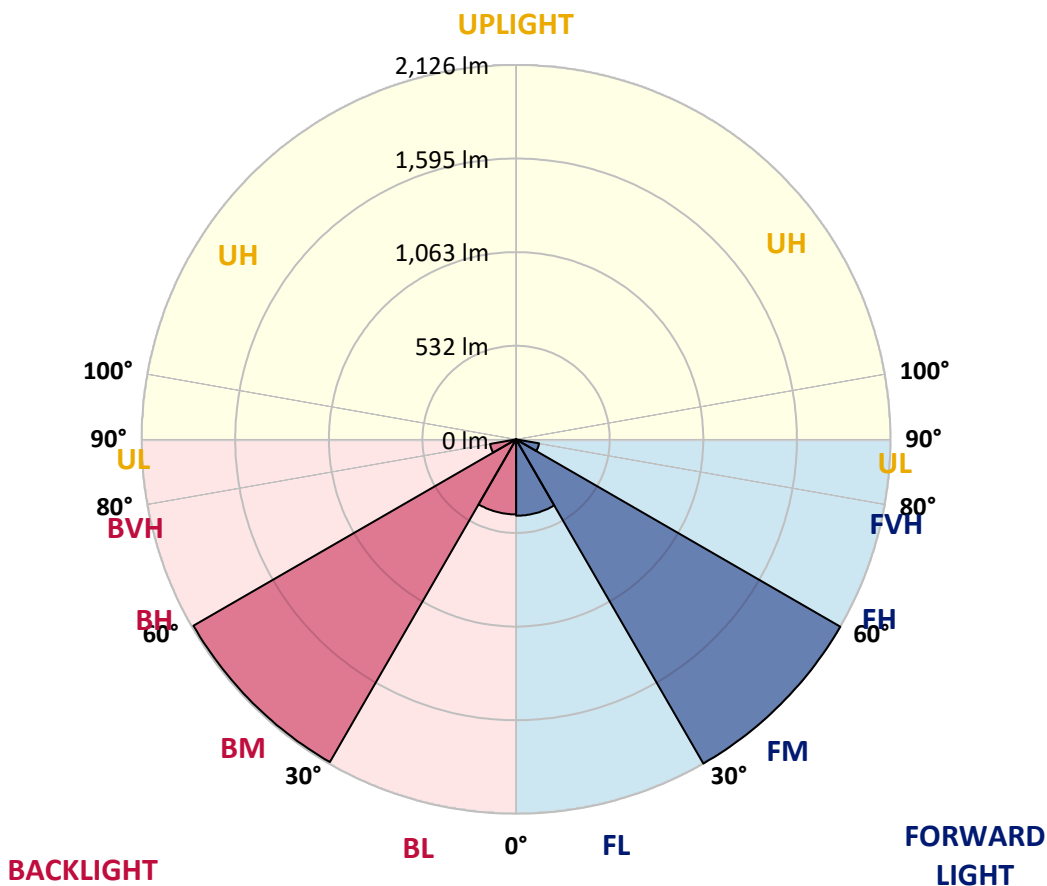
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	433.9	8.1			
FM (30°-60°)	2126.5	39.5			
FH (60°-80°)	132.4	2.5			G0/660
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	426.3	7.9	B1/500		
BM (30°-60°)	2116.1	39.3	B2/2500		
BH (60°-80°)	150.1	2.8	B1/500		G0/660
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	766.0	766.0	766.0	766.0	766.0	766.0	766.0	766.0	766.0	766.0	766.0
2.5°	751.7	753.5	755.9	758.3	761.2	764.2	766.0	771.4	770.2	774.9	774.9
5°	743.4	745.2	748.1	753.5	760.0	766.6	771.4	782.1	788.0	797.6	801.1
7.5°	747.5	749.9	753.5	761.8	772.0	782.1	787.4	804.7	816.6	834.5	844.6
10°	761.2	763.6	769.6	783.9	797.0	811.3	817.8	839.9	858.9	883.3	897.6
12.5°	776.7	779.7	791.6	813.1	835.7	854.8	863.7	888.1	907.8	935.2	957.8
15°	792.8	797.6	816.0	847.6	879.8	905.4	914.9	941.1	960.8	990.0	1015.6
17.5°	830.3	835.7	856.5	890.5	934.6	964.4	972.7	1000.1	1015.0	1034.6	1061.4
20°	877.4	887.5	913.1	954.2	1002.5	1031.1	1037.0	1063.8	1062.6	1071.0	1094.2
22.5°	935.8	942.9	970.9	1019.7	1074.0	1105.5	1119.2	1130.5	1115.6	1108.5	1123.4
25°	996.5	1004.9	1035.2	1088.8	1149.6	1185.9	1197.3	1206.2	1182.4	1155.6	1157.3
27.5°	1075.1	1081.1	1110.9	1168.1	1228.8	1269.9	1280.0	1295.5	1264.0	1221.1	1209.2
30°	1168.7	1174.6	1206.2	1266.3	1326.5	1361.6	1377.1	1396.2	1361.6	1308.0	1294.3
32.5°	1278.3	1284.2	1324.7	1386.7	1436.1	1474.2	1489.1	1509.4	1482.0	1421.8	1406.3
35°	1409.3	1412.9	1460.5	1527.8	1580.3	1617.2	1627.3	1651.1	1620.8	1560.6	1552.3
37.5°	1561.2	1565.4	1617.2	1695.2	1748.8	1789.9	1806.0	1812.6	1775.6	1708.3	1701.8
40°	1728.0	1741.7	1792.3	1876.3	1936.4	1988.3	2002.6	1980.5	1928.7	1837.0	1825.1
42.5°	1901.9	1913.8	1970.4	2061.5	2131.2	2184.2	2184.8	2137.2	2049.0	1922.2	1904.3
45°	2046.6	2051.4	2124.7	2216.4	2302.2	2339.7	2343.3	2256.9	2124.1	1971.6	1933.5
47.5°	2146.1	2153.9	2217.6	2305.8	2400.5	2434.4	2427.3	2319.4	2159.8	2003.8	1940.6
50°	2147.3	2160.4	2229.5	2314.7	2406.4	2447.5	2437.4	2337.3	2180.1	2004.9	1923.3
52.5°	1957.3	1978.7	2091.3	2214.6	2355.2	2425.5	2427.9	2360.5	2172.3	1985.9	1907.9
55°	1476.6	1499.8	1641.6	1851.9	2123.5	2319.4	2353.4	2333.1	2163.4	1994.2	1935.3
57.5°	781.5	763.6	842.2	1050.7	1392.0	1738.7	1838.2	2000.2	2063.9	2004.4	1985.9
60°	170.4	181.7	241.8	325.8	543.2	817.8	914.9	1192.5	1522.5	1669.0	1775.0
62.5°	73.3	72.1	75.1	85.2	124.5	207.3	253.2	413.4	652.2	895.9	1060.8
65°	60.2	60.8	63.1	63.1	59.0	59.6	62.5	94.7	152.5	213.8	287.1
67.5°	45.3	45.9	50.0	51.2	48.2	42.9	42.3	35.7	37.5	47.1	48.8
70°	28.6	28.6	31.0	32.2	32.2	29.8	29.2	25.6	25.0	28.6	32.2
72.5°	15.5	15.5	16.7	17.3	16.7	16.1	16.1	15.5	14.9	17.3	22.0
75°	6.6	6.6	7.1	7.1	6.6	6.6	6.6	6.6	6.6	7.7	11.9
77.5°	1.2	1.8	2.4	1.8	1.2	1.2	1.2	1.8	1.8	2.4	3.6
80°	0.6	0.6	1.2	0.6	0.0	0.0	0.0	0.0	0.6	0.6	0.6
82.5°	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	766.0	766.0	766.0	766.0	766.0	766.0	766.0	766.0	766.0	766.0	766.0
2.5°	779.1	772.6	774.9	776.1	774.3	773.1	766.6	764.8	761.8	757.1	755.9
5°	805.3	800.0	799.4	795.8	787.4	777.3	764.8	759.5	753.5	747.5	746.3
7.5°	849.4	842.8	838.7	826.8	807.7	791.6	770.8	759.5	751.7	744.0	742.2
10°	906.0	898.2	886.3	864.3	838.7	815.4	791.0	776.1	764.2	753.5	752.9
12.5°	966.1	957.8	936.4	908.4	877.4	855.9	825.0	804.1	786.3	770.2	768.4
15°	1029.3	1019.2	990.0	956.6	928.0	906.0	872.0	838.7	811.3	788.0	785.7
17.5°	1077.5	1065.0	1030.5	1005.5	982.2	959.6	921.5	877.4	841.1	813.1	806.5
20°	1107.9	1096.0	1063.2	1049.5	1038.8	1022.7	977.5	931.6	891.1	856.5	850.6
22.5°	1137.1	1122.8	1094.2	1094.2	1102.5	1096.0	1047.1	994.7	947.1	907.2	898.2
25°	1169.9	1158.5	1138.3	1155.0	1175.8	1175.2	1125.2	1059.7	1004.9	960.2	951.2
27.5°	1217.5	1206.2	1199.0	1230.6	1256.8	1255.0	1200.2	1129.3	1071.6	1027.5	1019.2
30°	1301.5	1290.8	1283.0	1321.1	1354.5	1342.0	1281.8	1213.3	1155.0	1104.9	1099.0
32.5°	1413.5	1402.2	1392.0	1430.1	1459.9	1443.8	1386.7	1322.3	1255.0	1206.2	1194.3
35°	1560.6	1536.8	1526.6	1571.9	1584.4	1566.6	1511.8	1455.2	1383.7	1327.7	1320.0
37.5°	1712.5	1684.5	1677.3	1716.7	1736.9	1730.4	1666.0	1607.1	1529.6	1467.7	1458.7
40°	1842.3	1816.7	1804.2	1865.6	1911.4	1915.6	1857.8	1785.8	1694.6	1630.3	1614.2
42.5°	1918.6	1896.5	1893.6	1988.9	2063.9	2117.5	2048.4	1974.0	1878.1	1805.4	1792.3
45°	1935.9	1921.6	1946.6	2071.7	2188.4	2286.1	2227.1	2148.5	2044.9	1968.0	1955.5
47.5°	1934.1	1929.3	1974.0	2114.5	2262.3	2382.6	2353.4	2264.7	2164.6	2084.2	2072.3
50°	1908.5	1909.0	1983.5	2136.0	2292.1	2408.8	2379.6	2297.4	2208.1	2128.8	2119.3
52.5°	1898.3	1894.8	1965.6	2129.4	2322.4	2396.9	2331.4	2239.0	2139.6	2041.9	2027.6
55°	1934.1	1925.1	1968.0	2124.1	2326.0	2390.3	2217.6	2017.5	1813.7	1698.2	1688.7
57.5°	1987.7	1978.1	1998.4	2084.8	2139.6	1987.7	1632.1	1309.2	1099.6	1010.8	972.1
60°	1775.0	1768.5	1753.0	1648.8	1414.1	1066.8	726.7	463.4	333.0	269.2	269.2
62.5°	1101.4	1092.4	1008.4	749.3	544.4	315.1	173.3	108.4	82.2	76.8	76.2
65°	309.1	307.4	254.3	179.9	114.4	70.9	62.5	63.7	62.5	60.8	60.2
67.5°	46.5	51.2	51.2	41.7	39.9	44.7	52.4	56.0	53.0	50.0	48.8
70°	29.8	32.2	31.0	26.8	28.6	33.4	37.5	38.1	36.3	33.4	32.8
72.5°	20.8	23.2	19.1	17.3	17.9	19.7	21.4	21.4	20.8	19.7	18.5
75°	12.5	12.5	8.9	8.3	8.3	8.9	8.9	10.1	10.1	9.5	8.9
77.5°	4.2	4.8	3.0	2.4	2.4	2.4	3.0	3.6	3.6	3.0	2.4
80°	0.6	1.2	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	0.6
82.5°	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)