

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: P631479

Luminaire Tested: GWS-SA1F-827-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631479
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-827-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 2700K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5193.7 lumens
Efficiency: N/A
Efficacy: 77.3 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

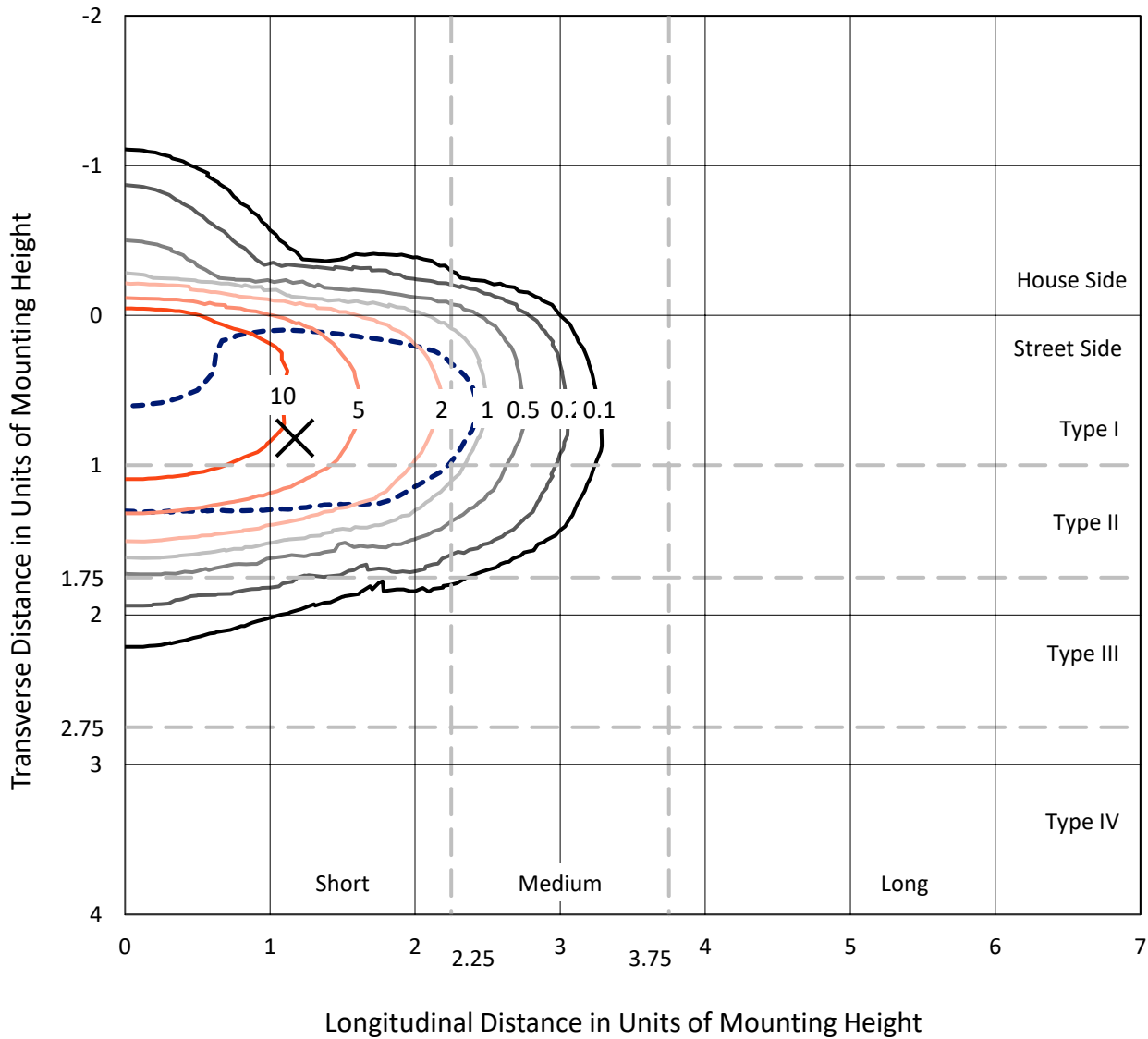
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

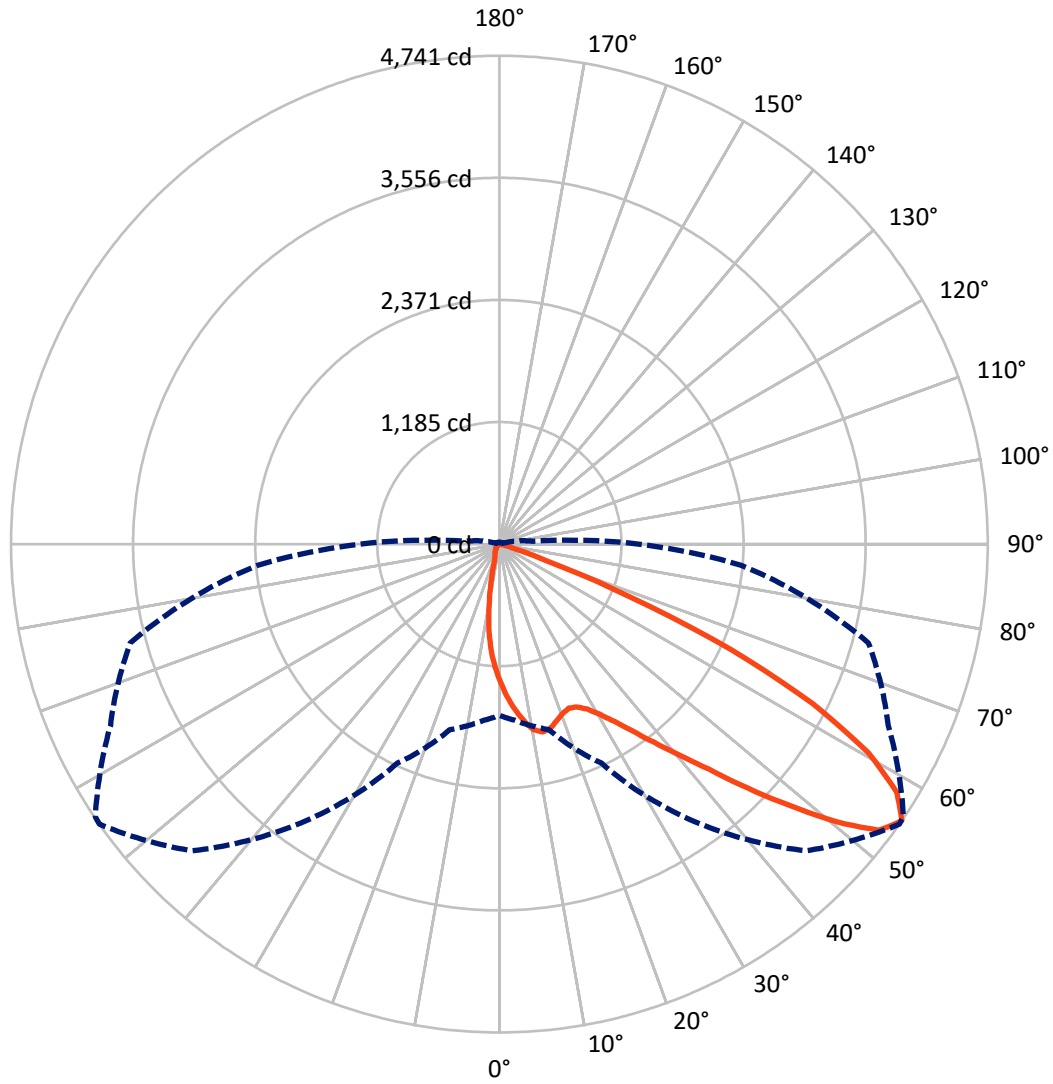
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	320.5	0.0	320.5
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	4873.2	0.0	4873.2
	% Fixture	93.8	0.0	93.8
Total	Lumens	5193.7	0.0	5193.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.6	2.3
10°-20°	285.9	5.5
20°-30°	476.1	9.2
30°-40°	811.3	15.6
40°-50°	1324.3	25.5
50°-60°	1386.5	26.7
60°-70°	699.3	13.5
70°-80°	88.3	1.7
80°-90°	3.3	0.1
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°	5193.7	100.0
0°-180°	5193.7	100.0

Coefficient of Utilization



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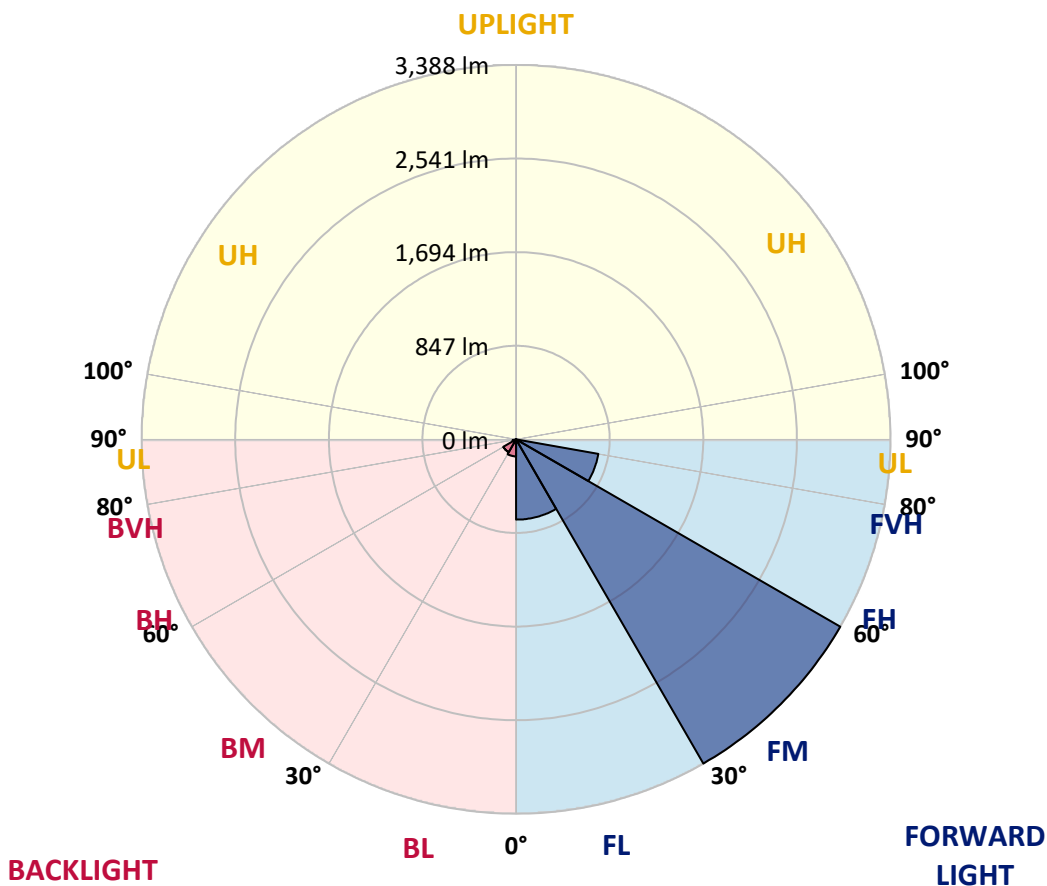
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	726.5	14.0			
FM (30°-60°)	3388.1	65.2			
FH (60°-80°)	755.5	14.5			G1/1800
FVH (80°-90°)	3.0	0.1			G0/10
BL (0°-30°)	154.0	3.0	B1/500		
BM (30°-60°)	134.0	2.6	B0/220		
BH (60°-80°)	32.1	0.6	B0/110		G0/110
BVH (80°-90°)	0.3	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1341.7	1341.7	1341.7	1341.7	1341.7	1341.7	1341.7	1341.7	1341.7	1341.7	1341.7
2.5°	1564.2	1556.6	1568.2	1554.9	1532.2	1513.1	1488.3	1479.4	1439.4	1401.7	1365.3
5°	1754.2	1756.4	1752.9	1734.2	1702.3	1666.8	1616.6	1605.5	1535.8	1463.8	1386.1
7.5°	1801.3	1799.9	1807.5	1814.6	1809.3	1791.5	1736.9	1725.8	1639.2	1531.3	1418.1
10°	1656.1	1657.0	1672.5	1720.5	1780.0	1841.7	1833.2	1827.0	1742.2	1607.7	1453.6
12.5°	1451.0	1459.0	1475.4	1543.8	1644.6	1784.9	1871.9	1878.1	1836.8	1691.6	1495.4
15°	1362.2	1363.9	1377.3	1418.6	1493.6	1666.8	1855.4	1872.8	1915.8	1776.0	1540.7
17.5°	1360.0	1362.2	1367.9	1386.1	1435.0	1574.0	1802.6	1832.8	1975.3	1866.5	1594.8
20°	1443.4	1442.1	1438.1	1428.3	1449.6	1543.3	1753.8	1787.1	2007.7	1954.9	1649.4
22.5°	1594.8	1593.0	1575.3	1534.9	1517.6	1571.3	1729.8	1760.0	2027.3	2033.5	1694.3
25°	1769.3	1781.7	1748.4	1687.2	1644.6	1642.8	1751.1	1772.4	2044.1	2103.2	1724.9
27.5°	1960.7	1964.7	1936.3	1867.4	1805.7	1757.3	1812.8	1828.8	2062.8	2165.4	1742.2
30°	2170.7	2169.4	2136.9	2057.0	1982.0	1912.3	1916.7	1922.9	2106.3	2236.4	1761.3
32.5°	2433.1	2438.9	2381.1	2272.4	2182.2	2085.9	2052.6	2053.5	2184.9	2327.9	1790.2
35°	2789.6	2775.4	2699.0	2544.1	2390.5	2286.6	2229.7	2224.9	2306.1	2450.8	1840.4
37.5°	3129.3	3130.6	3050.7	2880.2	2686.2	2522.3	2442.0	2428.6	2476.6	2621.3	1923.8
40°	3365.0	3369.5	3336.2	3246.9	3041.4	2809.6	2691.5	2677.7	2697.7	2837.1	2033.0
42.5°	3489.8	3502.2	3511.5	3532.4	3376.6	3168.3	2986.7	2985.4	2964.5	3083.1	2159.6
45°	3494.7	3513.3	3570.2	3712.7	3730.4	3577.7	3380.1	3350.4	3270.0	3346.4	2272.8
47.5°	3301.5	3344.6	3465.4	3747.7	3934.2	3984.8	3789.0	3770.8	3545.3	3554.6	2357.6
50°	2851.3	2896.2	3118.6	3567.9	3985.7	4308.1	4237.9	4200.2	3775.3	3692.2	2398.5
52.5°	2389.6	2430.4	2581.4	3139.9	3772.2	4409.7	4616.2	4571.4	3981.7	3740.2	2381.6
55°	1662.8	1717.4	1864.8	2346.9	3280.2	4211.7	4741.4	4732.1	4166.0	3710.0	2355.4
57.5°	815.2	869.3	1016.3	1447.0	2430.0	3677.2	4550.0	4599.3	4276.1	3677.6	2334.1
60°	340.5	362.7	413.4	634.9	1359.5	2779.0	4118.0	4186.4	4208.6	3633.6	2331.9
62.5°	197.6	201.1	206.5	263.3	528.8	1593.0	3416.1	3513.3	3853.9	3575.5	2296.8
65°	149.2	150.5	148.3	161.6	218.4	604.3	2468.2	2600.5	3216.7	3348.2	2158.3
67.5°	122.5	122.5	116.8	119.4	137.2	226.4	1362.6	1547.3	2380.2	2751.9	1782.2
70°	97.7	99.9	97.2	93.7	98.1	125.2	484.8	601.2	1386.1	1625.0	1039.4
72.5°	74.1	74.1	78.6	75.9	72.8	78.6	169.2	190.0	556.3	677.5	375.2
75°	57.3	59.1	62.2	59.5	55.1	46.6	81.3	86.1	167.8	157.6	83.9
77.5°	29.3	29.7	39.5	43.5	40.8	28.4	35.5	39.1	54.6	48.8	31.1
80°	17.8	18.6	22.2	34.2	27.1	15.1	14.7	15.5	25.8	22.2	12.9
82.5°	7.5	8.0	12.4	12.4	11.1	5.8	5.8	5.8	12.4	11.5	5.3
85°	0.0	0.0	2.2	1.8	1.8	2.2	2.2	2.2	3.1	4.4	2.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	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°	1341.7	1341.7	1341.7	1341.7	1341.7	1341.7	1341.7	1341.7	1341.7	1341.7	1341.7
2.5°	1341.7	1313.3	1275.1	1240.5	1193.9	1167.7	1131.3	1101.5	1076.2	1068.2	1064.7
5°	1342.2	1293.4	1211.7	1130.0	1029.6	950.6	869.3	805.0	752.1	735.3	730.8
7.5°	1351.1	1279.1	1146.8	998.5	830.7	692.2	568.3	457.3	405.8	388.5	384.9
10°	1363.1	1267.2	1071.8	840.9	599.8	421.8	298.8	227.8	194.0	175.4	178.0
12.5°	1378.6	1257.4	988.8	670.4	396.9	231.8	164.3	137.6	130.5	127.0	125.2
15°	1399.5	1245.8	885.8	501.3	243.3	149.2	126.5	119.4	116.8	115.0	114.6
17.5°	1420.8	1232.5	781.0	352.5	161.6	123.9	113.7	110.1	108.3	107.0	106.6
20°	1443.4	1209.9	658.0	242.9	127.4	111.4	104.8	100.8	98.6	96.3	95.9
22.5°	1453.2	1173.5	540.3	170.0	113.2	102.6	94.1	89.2	86.6	84.8	84.8
25°	1443.9	1114.4	418.7	129.2	103.0	92.8	84.4	79.0	76.8	75.0	75.0
27.5°	1419.0	1038.5	305.5	107.0	91.9	82.6	74.6	69.7	67.9	67.0	67.0
30°	1391.5	942.6	215.3	91.9	79.5	71.9	65.3	62.2	61.7	60.8	60.8
32.5°	1367.9	852.9	148.3	80.8	70.2	62.6	58.2	56.8	57.3	56.4	56.8
35°	1355.1	765.0	110.1	71.9	62.6	55.5	53.3	53.3	53.3	52.8	52.8
37.5°	1360.4	678.4	89.7	65.7	55.9	50.6	48.4	49.3	50.2	50.2	50.2
40°	1387.0	601.6	79.5	59.9	50.2	46.2	44.4	45.7	47.1	48.0	48.0
42.5°	1420.8	539.5	71.9	55.1	46.2	41.7	40.8	42.2	43.5	44.4	44.4
45°	1442.1	476.8	64.4	48.8	42.2	36.9	36.9	38.6	38.2	38.6	38.6
47.5°	1451.9	427.1	56.8	42.2	36.0	32.0	32.4	33.3	32.4	33.3	33.3
50°	1427.9	377.0	50.2	35.1	29.7	28.0	28.9	28.4	28.4	30.2	30.2
52.5°	1383.9	339.7	44.4	29.7	25.3	24.9	25.8	24.0	24.4	24.4	24.0
55°	1351.5	318.3	39.5	25.8	21.8	22.2	21.8	18.6	16.9	15.1	14.7
57.5°	1335.5	309.9	36.0	23.1	19.5	19.5	17.8	12.9	9.8	7.5	6.7
60°	1332.0	299.7	32.4	20.0	17.3	16.4	12.9	7.5	4.9	3.6	3.1
62.5°	1298.2	274.8	29.3	16.0	15.1	13.3	8.0	4.4	2.7	1.8	1.3
65°	1187.7	226.0	26.2	12.4	11.5	9.8	4.9	2.7	1.3	0.4	0.0
67.5°	944.8	160.3	23.1	9.3	8.0	6.2	3.1	1.8	0.4	0.0	0.0
70°	544.8	86.6	19.1	6.7	5.3	4.0	2.2	0.9	0.0	0.0	0.0
72.5°	182.0	40.4	14.7	4.4	4.0	3.1	1.3	0.4	0.0	0.0	0.0
75°	40.0	24.0	9.8	3.1	2.7	2.2	0.9	0.0	0.0	0.0	0.0
77.5°	15.1	16.9	4.9	2.2	1.8	1.3	0.4	0.0	0.0	0.0	0.0
80°	5.8	11.1	2.2	1.3	1.3	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	3.1	4.4	1.3	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.8	2.2	0.9	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	0.4	0.4	0.4	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)