

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: P633593

Luminaire Tested: GWS-SA2F-722-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633593
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-722-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7098 lumens
Efficiency: N/A
Efficacy: 57.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

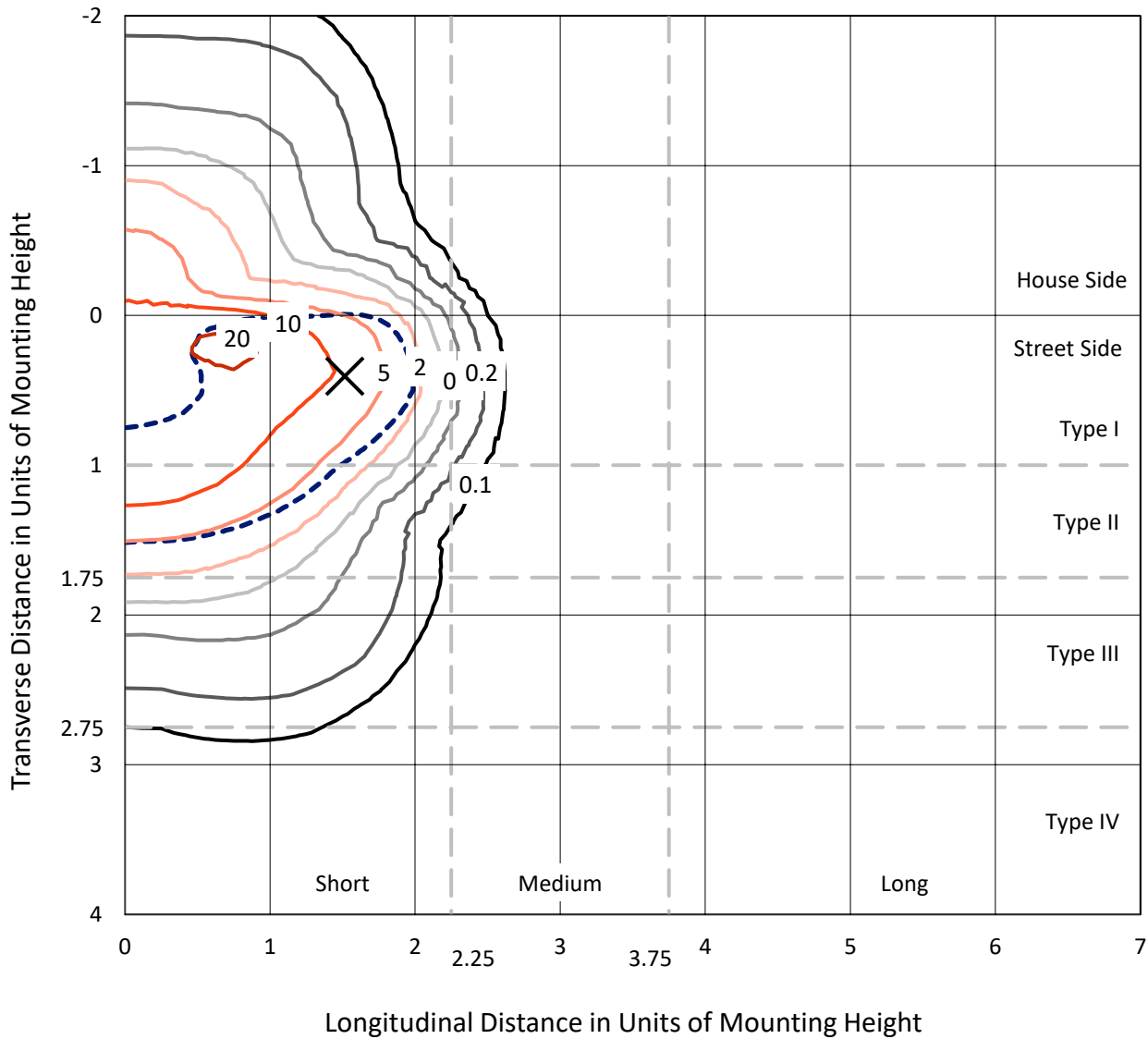
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

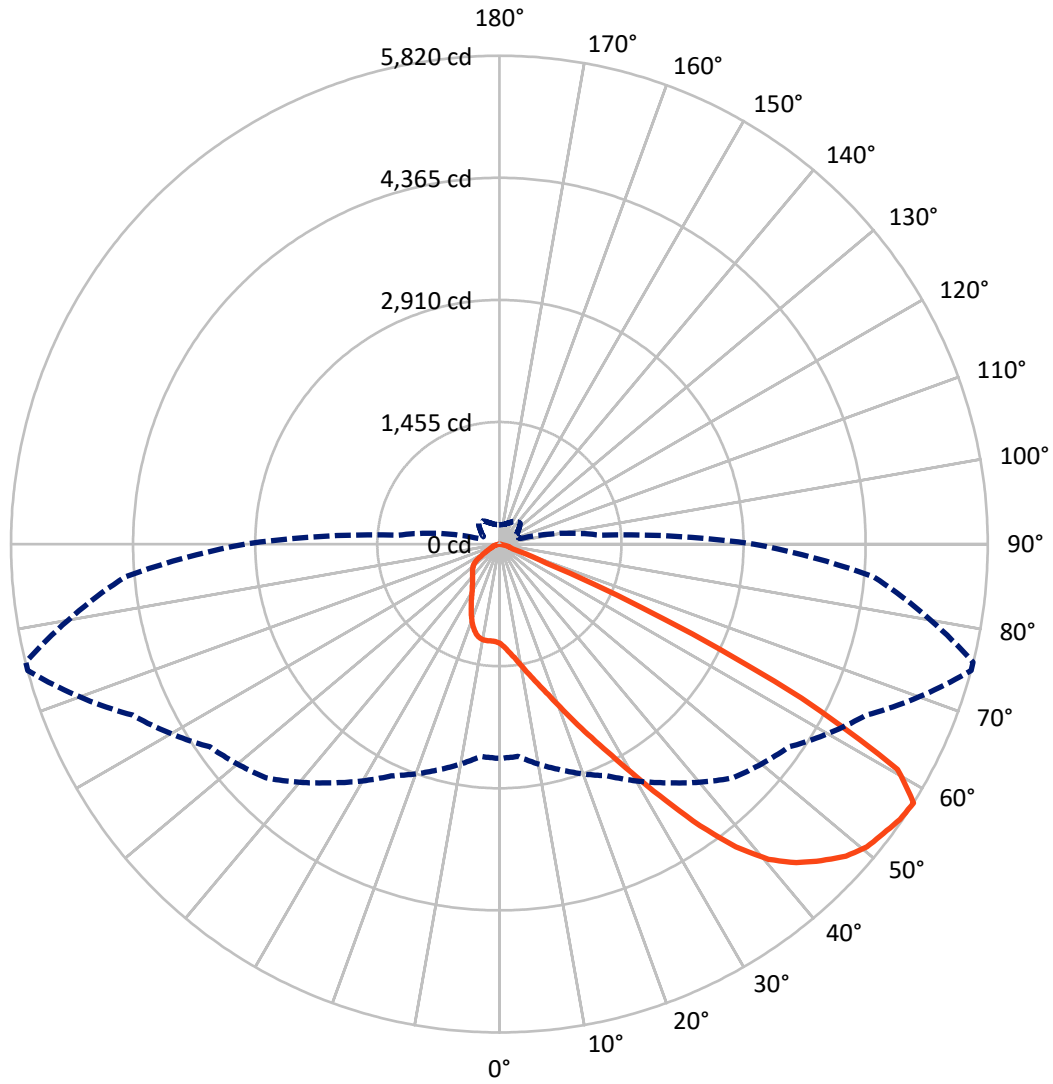
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1159.5	0.0	1159.5
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	5938.6	0.0	5938.6
	% Fixture	83.7	0.0	83.7
Total	Lumens	7098.0	0.0	7098.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.5	1.7
10°-20°	391.3	5.5
20°-30°	716.6	10.1
30°-40°	1188.9	16.8
40°-50°	1815.8	25.6
50°-60°	2040.3	28.7
60°-70°	752.6	10.6
70°-80°	71.9	1.0
80°-90°	0.1	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°	7098.0	100.0
0°-180°	7098.0	100.0

Coefficient of Utilization



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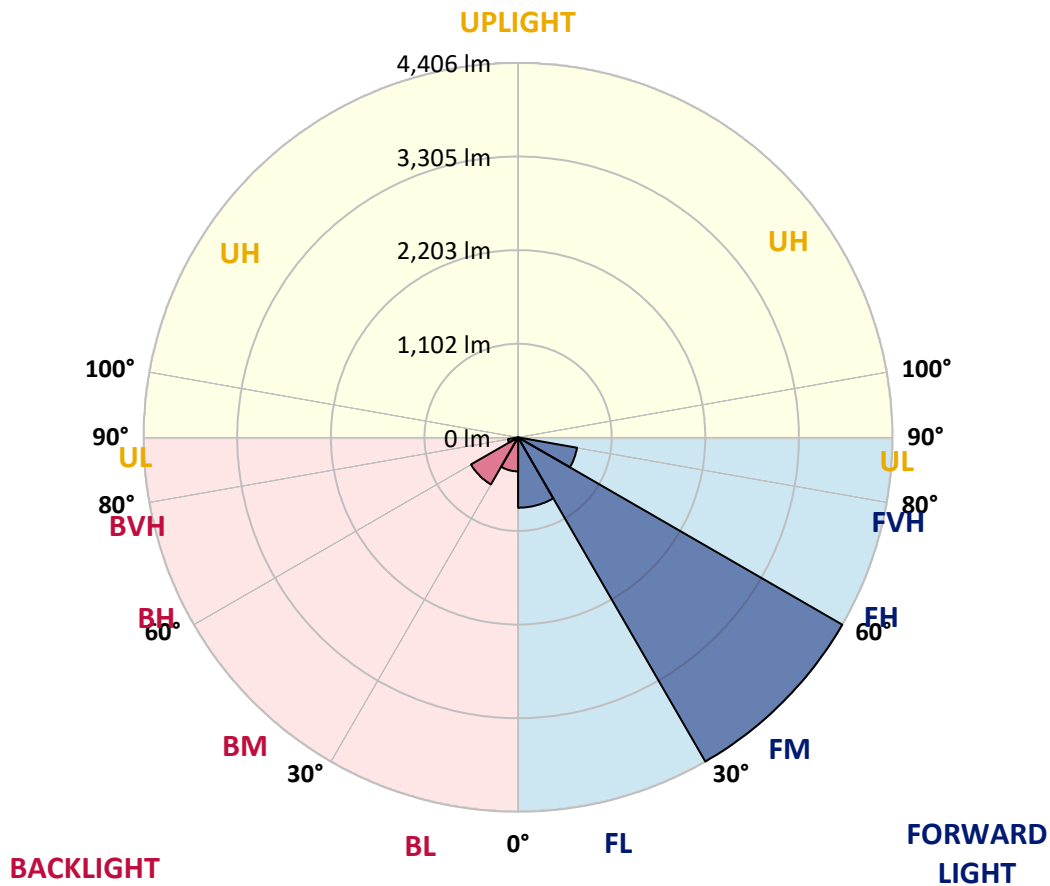
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	828.3	11.7			
FM (30°-60°)	4406.1	62.1			
FH (60°-80°)	704.1	9.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	400.1	5.6	B1/500		
BM (30°-60°)	638.9	9.0	B1/1000		
BH (60°-80°)	120.4	1.7	B1/500		G1/500
BVH (80°-90°)	0.0	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°	65°	75°	76°	85°
0°	1183.8	1183.8	1183.8	1183.8	1183.8	1183.8	1183.8	1183.8	1183.8	1183.8	1183.8
2.5°	1322.6	1336.3	1332.0	1323.5	1318.3	1300.3	1289.2	1256.7	1233.5	1231.0	1209.5
5°	1489.7	1487.1	1483.7	1473.4	1464.8	1436.6	1403.1	1348.3	1299.5	1293.5	1248.1
7.5°	1581.3	1583.0	1584.7	1583.0	1577.0	1555.6	1518.8	1454.5	1380.0	1374.9	1302.9
10°	1619.0	1622.4	1631.0	1647.3	1661.8	1660.1	1638.7	1572.8	1481.1	1472.5	1375.7
12.5°	1637.0	1641.3	1655.0	1685.8	1725.2	1756.1	1759.5	1700.4	1599.3	1585.6	1462.2
15°	1661.8	1666.1	1683.3	1723.5	1780.9	1841.7	1881.1	1843.4	1730.4	1715.8	1557.3
17.5°	1673.0	1679.0	1703.8	1756.9	1831.5	1924.8	2013.9	2010.5	1885.4	1874.3	1667.8
20°	1694.4	1698.7	1720.9	1778.3	1868.3	2002.8	2152.7	2206.7	2074.7	2058.5	1801.5
22.5°	1762.1	1763.8	1774.1	1810.0	1894.0	2059.3	2294.0	2435.4	2298.3	2276.9	1951.4
25°	1872.6	1871.7	1876.0	1882.0	1943.7	2116.7	2430.2	2693.2	2554.4	2531.3	2121.0
27.5°	2013.1	2013.1	2023.3	2006.2	2031.0	2187.8	2564.7	2989.6	2852.5	2820.0	2306.9
30°	2178.4	2177.5	2201.5	2174.1	2181.8	2300.0	2709.5	3312.5	3212.3	3172.1	2521.0
32.5°	2402.8	2397.7	2425.1	2387.4	2361.7	2469.6	2885.9	3650.1	3643.2	3581.5	2790.0
35°	2686.4	2677.8	2686.4	2649.5	2603.3	2706.9	3117.2	3986.7	4121.2	4056.1	3110.4
37.5°	2968.2	2995.6	3005.0	2941.6	2903.9	3007.6	3395.6	4288.2	4577.8	4510.1	3443.6
40°	3300.6	3292.0	3324.5	3253.4	3229.5	3344.2	3668.0	4512.7	4939.3	4875.0	3740.0
42.5°	3545.5	3561.0	3601.2	3561.8	3543.0	3650.9	3896.8	4643.7	5190.3	5126.9	3951.6
45°	3839.4	3850.5	3865.9	3833.4	3813.7	3919.9	4062.1	4701.1	5381.3	5312.8	4093.8
47.5°	4157.2	4165.7	4165.7	4098.9	4035.5	4079.2	4172.6	4733.7	5556.9	5490.9	4199.1
50°	4385.0	4389.3	4427.0	4379.9	4242.0	4174.3	4223.1	4765.4	5673.4	5611.7	4233.4
52.5°	4182.9	4177.7	4301.9	4399.6	4436.4	4301.9	4310.5	4811.6	5729.9	5676.8	4260.8
55°	3522.4	3513.9	3688.6	3925.9	4250.5	4422.7	4415.9	4839.0	5792.5	5759.9	4360.2
57.5°	2553.6	2539.0	2782.3	3046.1	3471.9	3938.7	4212.9	4823.6	5819.9	5817.3	4475.8
60°	1535.1	1523.1	1752.6	2030.2	2359.1	2828.6	3283.4	4320.8	5453.2	5458.4	4175.2
62.5°	944.9	956.0	1163.3	1304.6	1427.1	1568.5	1831.5	2906.5	4039.8	4073.2	2933.9
65°	635.6	644.2	836.1	1014.2	1014.2	829.2	711.9	1389.4	2155.3	2098.7	1387.7
67.5°	426.6	436.0	587.6	795.8	825.8	578.2	288.7	414.6	600.5	582.5	343.5
70°	251.0	261.3	391.5	545.7	601.3	402.6	192.7	175.6	170.5	165.3	133.6
72.5°	112.2	116.5	199.6	277.5	253.6	169.6	136.2	140.5	132.8	130.2	108.8
75°	34.3	36.0	51.4	60.0	60.8	60.8	82.2	110.5	104.5	105.4	83.9
77.5°	8.6	8.6	13.7	12.8	6.9	6.0	15.4	24.8	25.7	23.1	17.1
80°	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	1183.8	1183.8	1183.8	1183.8	1183.8	1183.8	1183.8	1183.8	1183.8	1183.8	1183.8
2.5°	1200.1	1177.9	1163.3	1142.7	1128.2	1112.7	1099.0	1087.9	1081.9	1080.2	1081.1
5°	1227.5	1192.4	1158.1	1118.7	1091.3	1065.6	1045.1	1028.8	1021.1	1018.5	1018.5
7.5°	1269.5	1220.7	1159.9	1098.2	1051.9	1011.7	987.7	969.7	962.8	961.1	956.0
10°	1324.3	1257.5	1157.3	1061.4	996.2	954.3	937.1	932.0	934.6	935.4	934.6
12.5°	1390.3	1296.1	1141.0	1007.4	937.1	911.4	913.2	926.9	942.3	950.0	951.7
15°	1460.5	1331.2	1104.2	943.1	886.6	885.7	910.6	942.3	972.3	985.1	988.5
17.5°	1539.3	1359.5	1047.6	874.6	842.9	867.8	912.3	961.1	1001.4	1022.8	1027.1
20°	1625.9	1382.6	975.7	810.4	804.4	848.9	910.6	970.5	1020.2	1044.2	1048.5
22.5°	1715.8	1398.9	892.6	751.3	769.2	827.5	894.3	952.6	999.7	1027.1	1030.5
25°	1818.6	1400.6	807.8	701.6	736.7	798.4	854.9	902.9	942.3	966.3	968.8
27.5°	1908.5	1380.0	732.4	661.3	706.7	762.4	800.1	826.6	854.0	867.8	868.6
30°	2012.2	1344.0	661.3	628.8	675.9	717.8	736.7	742.7	745.3	747.8	744.4
32.5°	2135.6	1300.3	608.2	597.1	640.8	669.0	674.2	662.2	647.6	627.0	621.9
35°	2287.2	1260.9	564.5	566.2	602.2	619.3	615.1	589.4	561.1	536.2	532.0
37.5°	2451.6	1227.5	531.1	536.2	560.2	572.2	559.4	531.1	518.3	496.8	497.7
40°	2597.3	1200.1	501.1	506.3	517.4	528.5	508.0	489.1	513.1	511.4	513.1
42.5°	2700.9	1177.0	475.4	472.9	480.6	488.3	472.9	463.4	503.7	492.6	498.6
45°	2761.7	1155.6	454.0	438.6	450.6	464.3	454.0	442.0	455.7	404.3	400.0
47.5°	2802.9	1143.6	435.2	405.2	426.6	450.6	429.2	400.0	380.3	335.8	332.4
50°	2807.1	1137.6	412.9	370.9	398.3	424.0	399.2	358.9	330.7	311.0	308.4
52.5°	2829.4	1149.6	382.1	327.2	357.2	398.3	381.2	340.9	302.4	285.3	281.8
55°	2928.8	1200.1	330.7	267.3	311.0	378.6	366.6	304.1	267.3	257.0	254.4
57.5°	3031.6	1210.4	260.4	211.6	270.7	350.4	334.9	280.1	244.1	232.1	229.6
60°	2772.0	997.1	195.3	174.8	239.0	323.8	310.1	265.6	223.6	209.0	206.4
62.5°	1821.2	538.8	155.0	148.2	201.3	274.1	282.7	239.9	199.6	184.2	183.3
65°	839.5	250.1	119.1	117.4	157.6	218.4	243.3	209.9	168.8	155.0	155.0
67.5°	228.7	124.2	93.4	86.5	107.1	146.5	177.3	156.8	119.9	103.7	102.8
70°	113.9	100.2	83.9	74.5	77.1	90.8	104.5	87.4	60.8	49.7	48.8
72.5°	93.4	82.2	71.1	63.4	58.3	55.7	54.0	43.7	28.3	21.4	20.6
75°	69.4	59.1	50.5	41.1	35.1	32.6	29.1	21.4	12.0	6.9	6.0
77.5°	15.4	14.6	13.7	10.3	9.4	7.7	6.0	4.3	1.7	0.0	0.0
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

(END OF REPORT)