

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: P631272

Luminaire Tested: GWS-SA1F-735-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631272
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-735-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6547.1 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

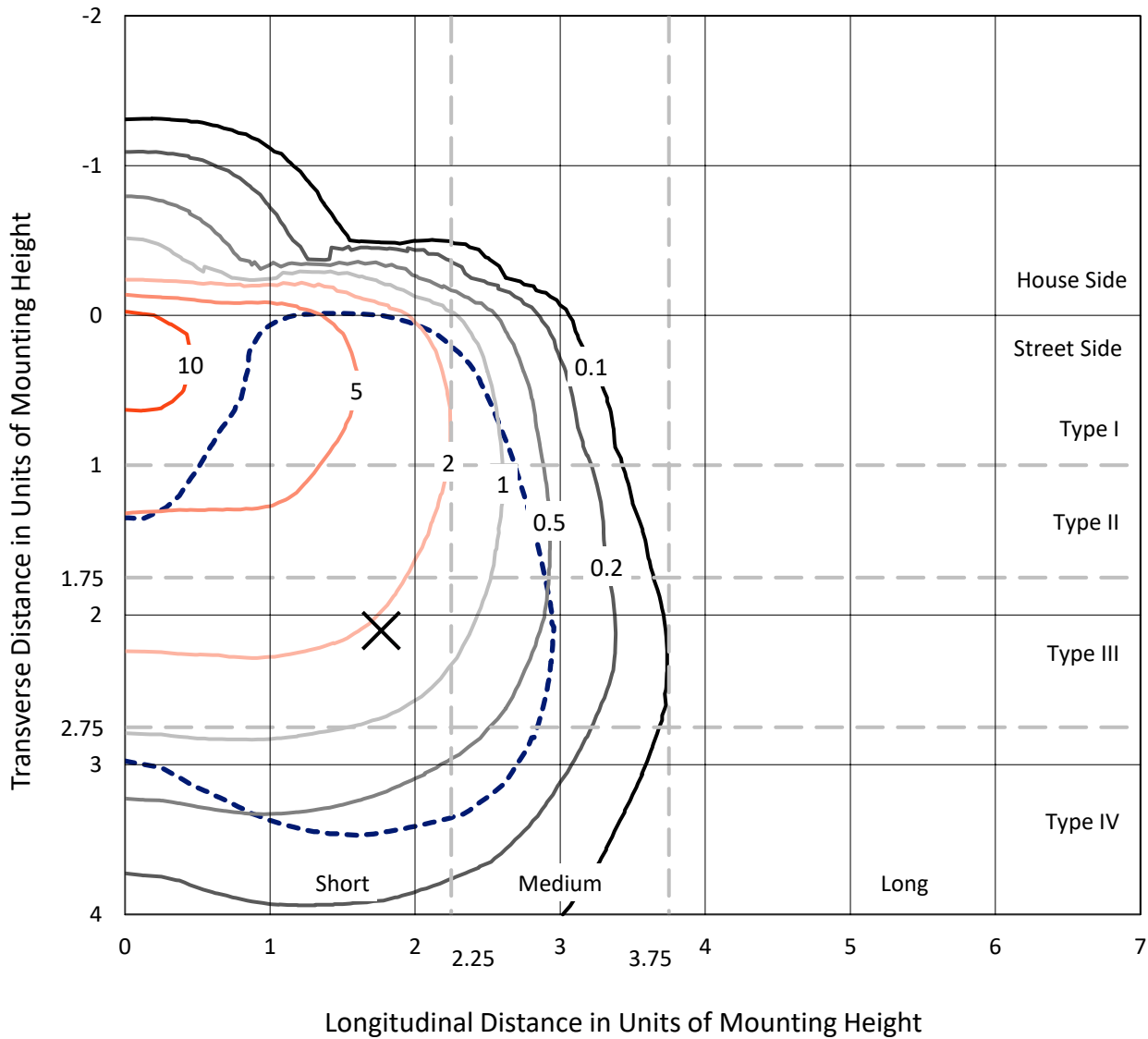
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

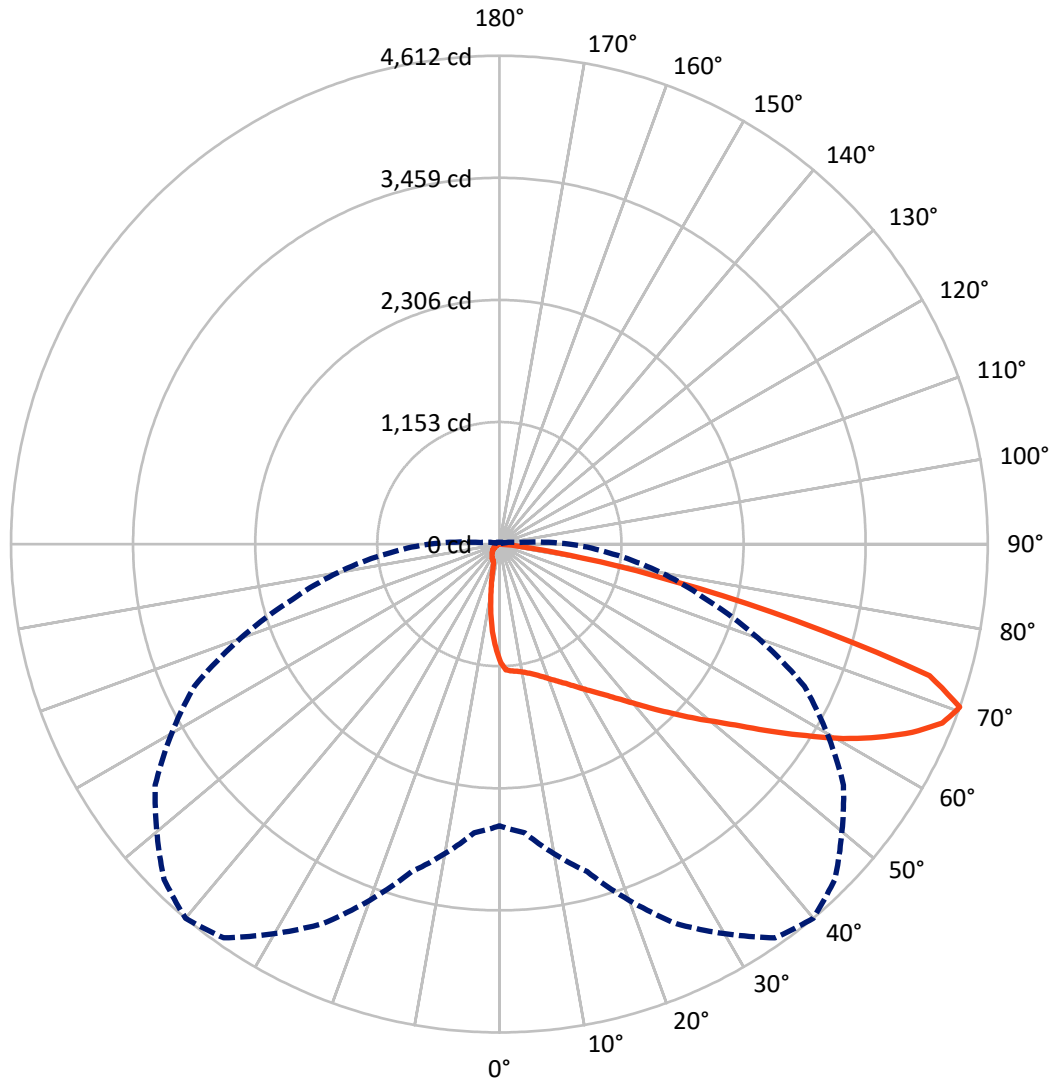
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	535.4	0.0	535.4
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	6011.7	0.0	6011.7
	% Fixture	91.8	0.0	91.8
Total	Lumens	6547.1	0.0	6547.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.9	1.4
10°-20°	238.1	3.6
20°-30°	398.6	6.1
30°-40°	626.0	9.6
40°-50°	990.2	15.1
50°-60°	1444.5	22.1
60°-70°	1790.6	27.4
70°-80°	906.0	13.8
80°-90°	59.1	0.9
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°	6547.1	100.0
0°-180°	6547.1	100.0

Coefficient of Utilization



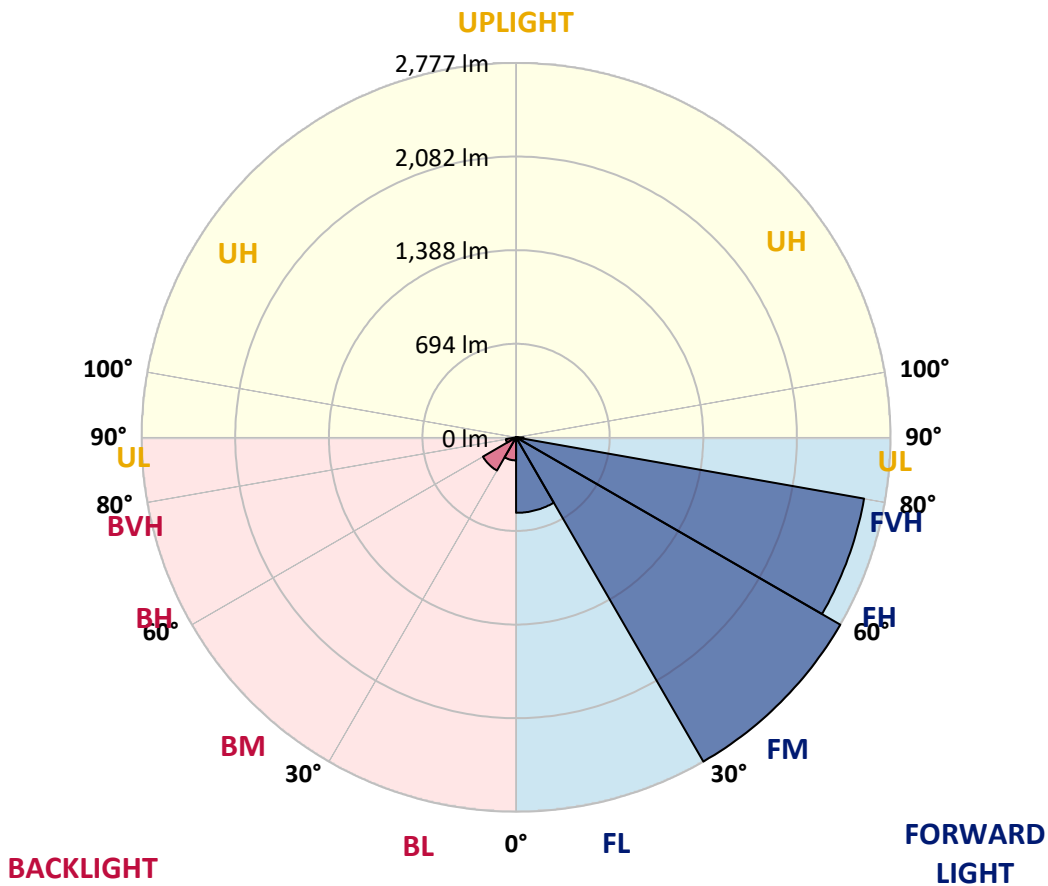
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	559.7	8.5			
FM (30°-60°)	2776.6	42.4			
FH (60°-80°)	2620.3	40.0			G2/5000
FVH (80°-90°)	55.2	0.8			G1/100
BL (0°-30°)	171.0	2.6	B1/500		
BM (30°-60°)	284.2	4.3	B1/1000		
BH (60°-80°)	76.3	1.2	B0/110		G0/110
BVH (80°-90°)	3.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1111.0	1111.0	1111.0	1111.0	1111.0	1111.0	1111.0	1111.0	1111.0	1111.0	1111.0
2.5°	1194.4	1198.5	1197.9	1199.7	1195.6	1189.0	1187.8	1178.9	1162.8	1142.5	1119.9
5°	1218.8	1223.6	1220.0	1218.2	1210.4	1203.3	1201.5	1192.0	1173.5	1146.1	1106.8
7.5°	1239.6	1240.8	1238.4	1234.3	1223.0	1213.4	1206.9	1193.8	1171.7	1144.3	1099.1
10°	1243.2	1242.6	1243.8	1244.4	1237.3	1228.9	1223.6	1205.7	1177.7	1148.5	1099.6
12.5°	1239.0	1239.0	1246.8	1255.7	1255.7	1251.5	1246.2	1230.1	1197.3	1162.8	1111.6
15°	1244.4	1246.2	1261.1	1277.8	1283.1	1278.9	1276.6	1259.9	1225.9	1187.8	1133.0
17.5°	1263.5	1265.2	1289.1	1314.1	1320.6	1315.9	1311.1	1294.4	1258.1	1216.4	1157.4
20°	1291.5	1296.2	1326.6	1358.8	1364.7	1358.8	1349.2	1326.0	1289.7	1247.4	1180.7
22.5°	1342.7	1345.7	1378.4	1412.4	1415.4	1405.8	1391.5	1359.4	1321.2	1280.1	1206.9
25°	1410.6	1414.8	1447.5	1480.3	1472.5	1458.3	1438.6	1402.3	1358.8	1318.9	1240.2
27.5°	1491.6	1496.4	1528.5	1557.1	1536.9	1520.2	1498.2	1452.9	1408.8	1372.5	1283.1
30°	1579.2	1583.3	1611.9	1637.6	1610.7	1591.1	1564.9	1518.4	1473.7	1446.3	1343.9
32.5°	1663.8	1663.2	1690.6	1711.4	1684.0	1668.5	1644.7	1597.6	1561.9	1550.0	1434.4
35°	1742.4	1742.4	1765.0	1785.9	1766.2	1757.9	1735.8	1698.3	1678.1	1692.4	1555.4
37.5°	1821.6	1817.5	1838.9	1862.1	1860.3	1860.9	1848.4	1830.6	1831.8	1882.4	1721.5
40°	1887.2	1885.4	1910.4	1940.8	1964.6	1983.7	1975.9	1982.5	2020.0	2114.7	1934.2
42.5°	1939.6	1943.7	1975.9	2024.2	2084.3	2123.0	2128.4	2155.2	2251.7	2398.3	2174.3
45°	1999.7	2000.3	2045.0	2118.9	2214.8	2276.1	2297.6	2366.7	2503.7	2692.5	2437.6
47.5°	2073.6	2066.5	2116.5	2220.1	2358.9	2449.5	2487.6	2574.0	2786.0	2979.6	2652.0
50°	2155.2	2142.1	2198.7	2339.9	2520.4	2633.6	2711.0	2837.3	3066.0	3215.5	2811.7
52.5°	2249.9	2237.4	2301.8	2477.5	2714.0	2851.6	2951.1	3078.5	3306.1	3395.4	2907.0
55°	2370.3	2357.7	2425.7	2642.5	2942.7	3121.4	3225.7	3332.9	3529.5	3528.3	2976.1
57.5°	2503.7	2486.4	2580.5	2851.0	3228.1	3413.9	3519.9	3572.4	3699.2	3631.3	3022.5
60°	2656.8	2641.3	2771.8	3099.4	3557.5	3729.6	3796.3	3774.9	3838.6	3692.1	3006.5
62.5°	2795.0	2787.8	2949.9	3362.7	3871.4	4016.7	4035.2	3941.7	3941.1	3693.3	2898.0
65°	2938.5	2952.2	3192.9	3665.9	4187.1	4284.8	4253.2	4107.3	3982.2	3547.3	2577.6
67.5°	2992.2	3032.1	3353.1	3939.9	4436.1	4512.4	4457.0	4190.1	3811.2	3056.5	1962.8
70°	2661.0	2736.0	3201.8	3955.4	4539.2	4611.8	4479.0	3967.3	3177.4	2024.8	1075.2
72.5°	2023.6	2111.1	2668.1	3238.8	4082.3	4247.9	4020.9	3232.2	2048.0	887.0	361.0
75°	1132.4	1227.1	1987.2	2438.8	2740.8	2892.1	2808.7	2073.6	907.2	231.7	107.8
77.5°	383.0	414.6	924.5	1508.9	1809.1	1673.3	1416.6	1030.0	333.6	88.2	57.2
80°	227.0	238.9	344.3	751.2	951.9	789.3	623.1	380.6	169.8	47.1	39.9
82.5°	67.9	80.4	190.0	278.8	372.9	232.3	196.6	217.4	88.2	25.6	33.4
85°	0.0	0.0	40.5	86.4	97.7	38.1	38.1	123.3	16.1	10.7	24.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	3.0	1.8	2.4	5.4
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°	1111.0	1111.0	1111.0	1111.0	1111.0	1111.0	1111.0	1111.0	1111.0	1111.0	1111.0
2.5°	1103.8	1083.0	1058.5	1035.3	1013.3	984.7	971.0	954.3	940.0	932.3	936.4
5°	1081.8	1049.0	999.0	948.3	897.1	848.9	805.4	776.2	750.0	736.3	739.3
7.5°	1062.7	1018.6	940.6	857.8	775.6	692.8	625.5	573.1	532.5	515.9	512.9
10°	1054.4	999.0	888.8	769.6	643.3	532.0	436.6	378.9	337.8	317.5	321.1
12.5°	1058.5	988.8	844.7	683.3	519.4	389.6	298.4	244.2	215.0	203.1	200.2
15°	1070.5	986.5	805.4	595.1	400.9	272.2	206.1	184.1	178.1	176.9	176.9
17.5°	1084.2	987.1	764.9	505.7	304.4	201.9	176.3	172.2	170.4	169.2	169.8
20°	1097.9	987.1	718.4	415.2	228.7	174.5	168.0	165.0	163.2	162.6	162.6
22.5°	1114.5	987.1	666.6	331.2	183.5	165.6	160.2	158.5	156.7	156.1	155.5
25°	1134.8	987.7	609.4	259.1	166.8	157.9	153.7	151.9	150.1	148.9	148.9
27.5°	1164.0	992.4	546.2	201.9	157.3	150.7	147.1	145.3	143.6	141.8	141.8
30°	1206.3	1004.3	475.4	166.8	148.3	143.0	139.4	138.2	136.4	134.6	134.0
32.5°	1269.4	1025.2	402.1	149.5	140.0	134.6	130.5	129.3	127.5	125.7	125.1
35°	1357.6	1063.3	330.6	138.8	129.3	123.9	121.5	120.9	118.5	116.8	116.8
37.5°	1486.8	1125.3	262.1	128.1	120.3	116.2	113.2	112.0	109.6	107.8	107.2
40°	1644.7	1205.7	203.7	119.7	112.0	107.8	104.8	103.1	100.1	97.7	96.5
42.5°	1846.0	1304.0	160.8	110.8	104.2	100.1	97.7	94.1	89.9	86.4	85.8
45°	2055.7	1405.2	132.8	102.5	97.1	93.5	90.5	85.8	79.8	75.7	74.5
47.5°	2216.6	1468.4	116.2	93.5	89.4	86.4	82.8	76.8	69.7	64.9	63.7
50°	2331.5	1477.9	103.7	85.2	82.8	79.8	74.5	67.3	59.6	54.8	53.6
52.5°	2388.1	1435.0	93.5	77.4	75.7	72.7	66.1	58.4	50.0	45.3	44.1
55°	2413.7	1354.0	84.0	70.9	68.5	64.9	57.8	49.4	41.1	36.9	35.7
57.5°	2403.6	1234.3	75.7	64.3	61.4	57.2	49.4	40.5	34.0	29.8	29.2
60°	2328.6	1066.3	67.3	57.8	54.2	49.4	41.7	33.4	27.4	24.4	23.8
62.5°	2166.5	857.8	59.0	50.0	47.7	42.9	35.7	27.4	22.6	20.8	20.3
65°	1834.7	606.4	50.6	42.3	41.1	36.3	29.8	22.6	19.7	18.5	17.9
67.5°	1318.9	368.7	42.9	36.3	35.1	31.0	25.0	19.7	17.9	17.3	17.3
70°	663.0	174.5	34.0	29.8	29.8	25.6	21.4	17.9	17.3	16.7	16.7
72.5°	225.2	74.5	25.6	23.2	24.4	22.0	18.5	16.7	16.7	16.7	16.7
75°	76.8	39.3	17.9	16.7	17.9	17.9	16.1	16.1	16.7	16.7	16.7
77.5°	50.0	26.2	12.5	11.3	13.7	13.7	13.7	14.9	16.1	16.1	16.1
80°	41.1	14.3	8.3	7.7	10.1	10.1	11.3	13.7	14.9	14.9	14.9
82.5°	35.1	8.9	4.8	5.4	7.1	7.7	9.5	11.3	13.1	13.7	13.7
85°	23.8	4.8	3.6	4.2	4.8	6.0	7.7	9.5	10.7	11.9	11.9
87.5°	6.6	1.8	2.4	3.0	3.0	4.2	6.0	7.1	8.3	8.9	8.9
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)