

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: P631877

Luminaire Tested: GWS-SA2B-750-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631877
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-SA2B-750-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5562.2 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

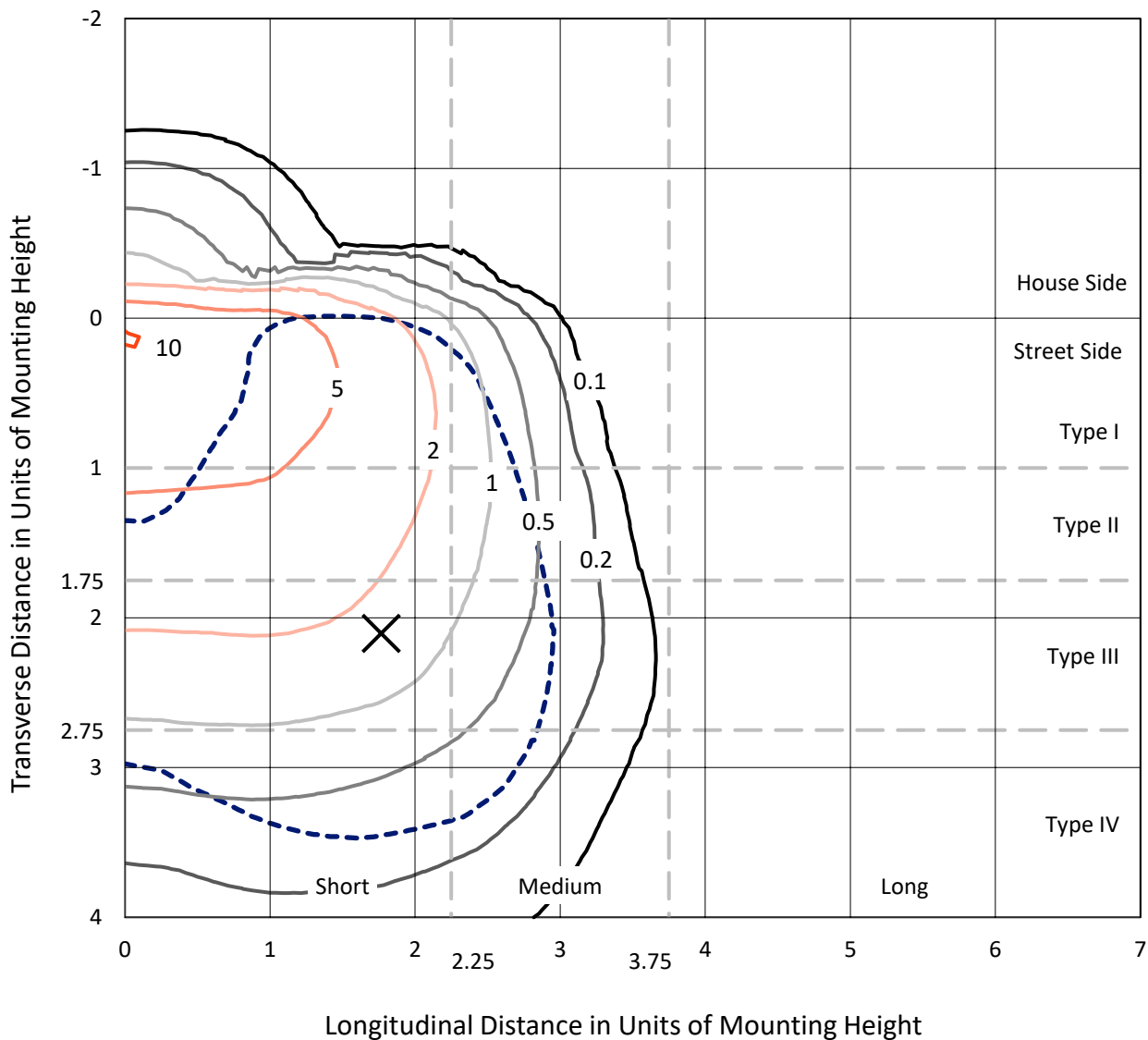
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

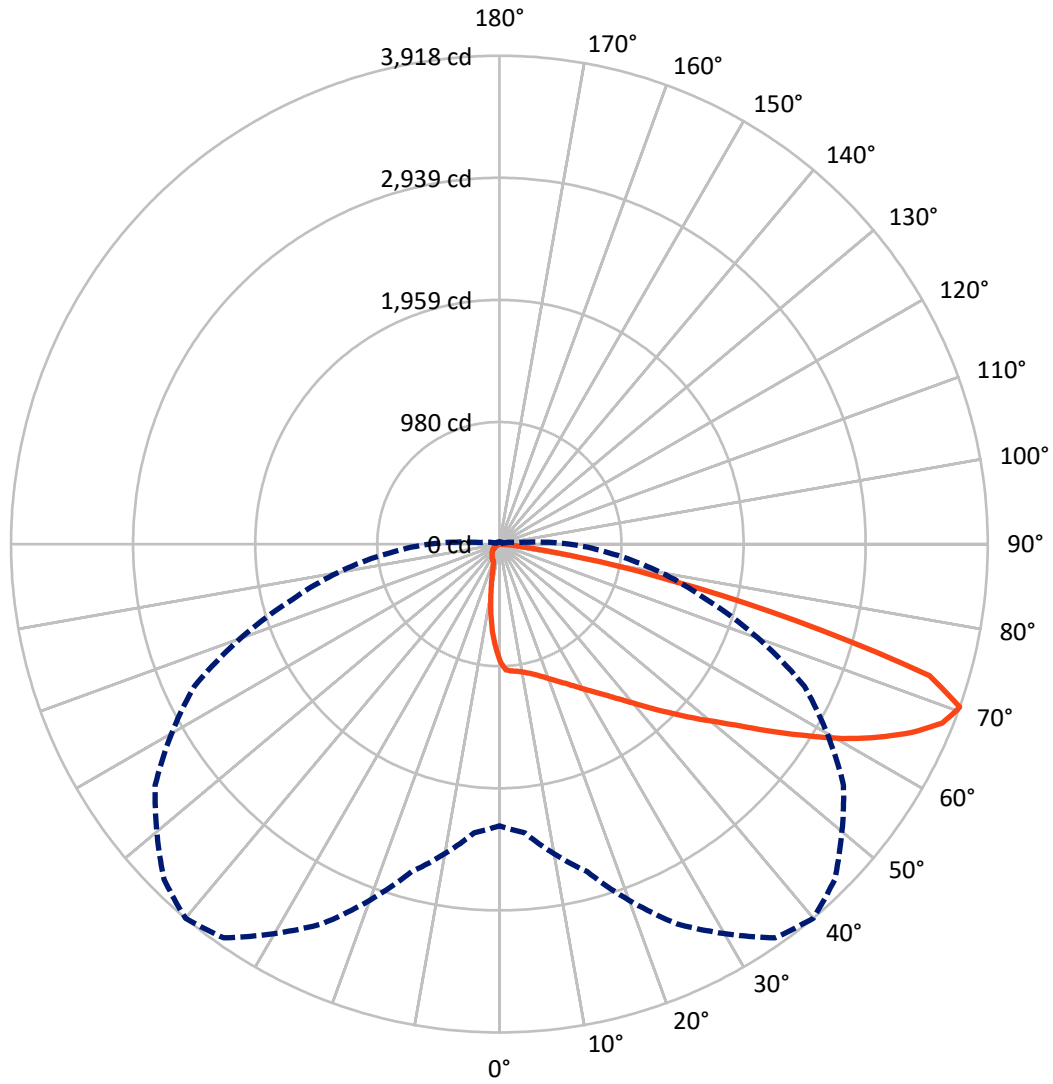
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.3 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	454.9	0.0	454.9
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	5107.4	0.0	5107.4
	% Fixture	91.8	0.0	91.8
Total	Lumens	5562.2	0.0	5562.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.8	1.4
10°-20°	202.3	3.6
20°-30°	338.6	6.1
30°-40°	531.9	9.6
40°-50°	841.3	15.1
50°-60°	1227.2	22.1
60°-70°	1521.3	27.4
70°-80°	769.7	13.8
80°-90°	50.2	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°	5562.2	100.0
0°-180°	5562.2	100.0

Coefficient of Utilization



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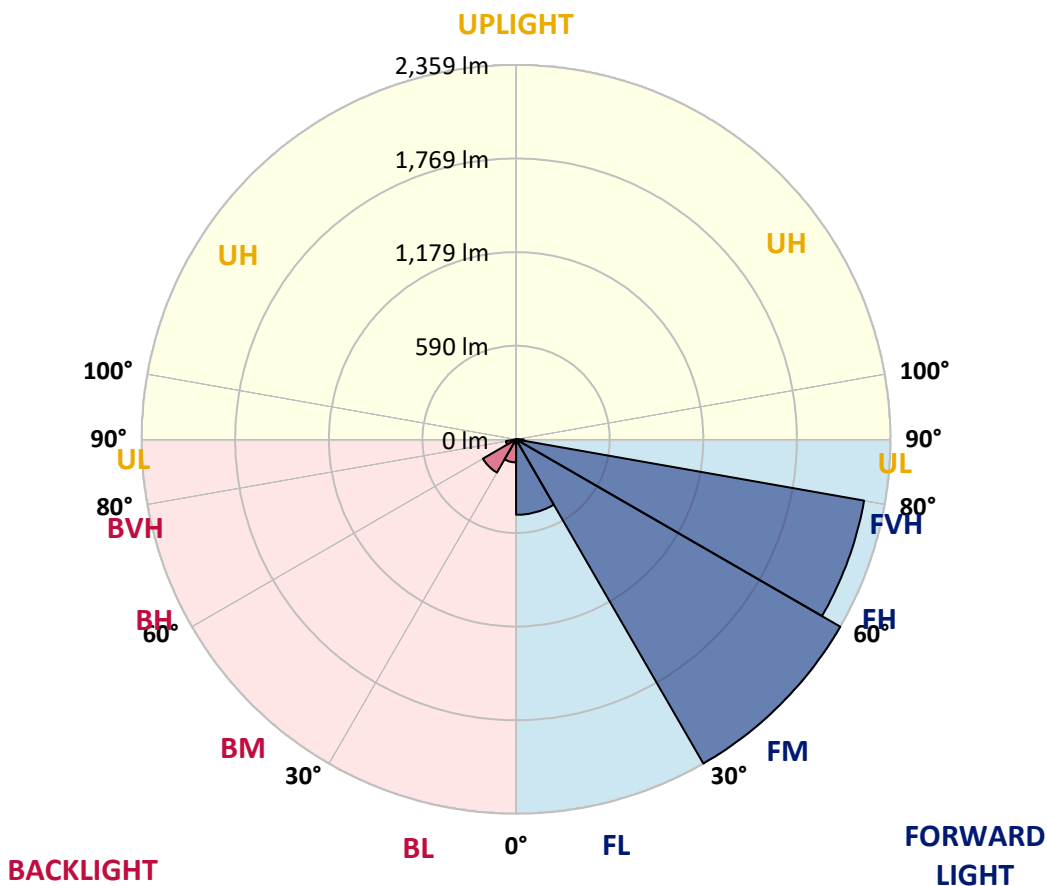
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	475.5	8.5			
FM (30°-60°)	2358.9	42.4			
FH (60°-80°)	2226.1	40.0			G2/5000
FVH (80°-90°)	46.9	0.8			G1/100
BL (0°-30°)	145.3	2.6	B1/500		
BM (30°-60°)	241.4	4.3	B1/1000		
BH (60°-80°)	64.9	1.2	B0/110		G0/110
BVH (80°-90°)	3.3	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°	943.8	943.8	943.8	943.8	943.8	943.8	943.8	943.8	943.8	943.8	943.8
2.5°	1014.7	1018.2	1017.7	1019.2	1015.7	1010.1	1009.1	1001.5	987.9	970.7	951.4
5°	1035.4	1039.5	1036.5	1034.9	1028.4	1022.3	1020.8	1012.7	997.0	973.7	940.3
7.5°	1053.2	1054.2	1052.1	1048.6	1039.0	1030.9	1025.3	1014.2	995.5	972.2	933.7
10°	1056.2	1055.7	1056.7	1057.2	1051.1	1044.0	1039.5	1024.3	1000.5	975.7	934.2
12.5°	1052.6	1052.6	1059.2	1066.8	1066.8	1063.3	1058.7	1045.1	1017.2	987.9	944.3
15°	1057.2	1058.7	1071.4	1085.5	1090.1	1086.6	1084.5	1070.4	1041.5	1009.1	962.6
17.5°	1073.4	1074.9	1095.2	1116.4	1122.0	1117.9	1113.9	1099.7	1068.8	1033.4	983.3
20°	1097.2	1101.2	1127.0	1154.4	1159.4	1154.4	1146.3	1126.5	1095.7	1059.7	1003.0
22.5°	1140.7	1143.2	1171.1	1199.9	1202.4	1194.3	1182.2	1154.9	1122.5	1087.6	1025.3
25°	1198.4	1201.9	1229.8	1257.6	1251.0	1238.9	1222.2	1191.3	1154.4	1120.5	1053.7
27.5°	1267.2	1271.3	1298.6	1322.9	1305.7	1291.5	1272.8	1234.3	1196.9	1166.0	1090.1
30°	1341.6	1345.2	1369.5	1391.2	1368.4	1351.7	1329.5	1290.0	1252.0	1228.8	1141.7
32.5°	1413.5	1413.0	1436.3	1454.0	1430.7	1417.5	1397.3	1357.3	1326.9	1316.8	1218.6
35°	1480.3	1480.3	1499.5	1517.2	1500.5	1493.4	1474.7	1442.8	1425.6	1437.8	1321.4
37.5°	1547.6	1544.0	1562.3	1582.0	1580.5	1581.0	1570.4	1555.2	1556.2	1599.2	1462.6
40°	1603.3	1601.7	1623.0	1648.8	1669.1	1685.2	1678.7	1684.2	1716.1	1796.6	1643.2
42.5°	1647.8	1651.3	1678.7	1719.7	1770.8	1803.7	1808.2	1831.0	1913.0	2037.5	1847.2
45°	1698.9	1699.4	1737.4	1800.1	1881.6	1933.7	1951.9	2010.7	2127.1	2287.5	2070.9
47.5°	1761.7	1755.6	1798.1	1886.2	2004.1	2081.0	2113.4	2186.8	2366.9	2531.4	2253.1
50°	1831.0	1819.9	1867.9	1987.9	2141.2	2237.4	2303.2	2410.5	2604.8	2731.8	2388.7
52.5°	1911.5	1900.8	1955.5	2104.8	2305.7	2422.6	2507.1	2615.4	2808.7	2884.7	2469.7
55°	2013.7	2003.1	2060.8	2245.0	2500.0	2651.9	2740.4	2831.5	2998.5	2997.5	2528.4
57.5°	2127.1	2112.4	2192.3	2422.1	2742.4	2900.3	2990.4	3035.0	3142.8	3085.1	2567.8
60°	2257.1	2244.0	2354.8	2633.1	3022.3	3168.6	3225.2	3207.0	3261.2	3136.7	2554.2
62.5°	2374.5	2368.5	2506.1	2856.8	3289.0	3412.5	3428.2	3348.7	3348.2	3137.7	2462.1
65°	2496.5	2508.1	2712.6	3114.4	3557.2	3640.2	3613.4	3489.4	3383.1	3013.7	2189.8
67.5°	2542.0	2575.9	2848.7	3347.2	3768.8	3833.6	3786.5	3559.8	3237.9	2596.7	1667.5
70°	2260.7	2324.4	2720.2	3360.4	3856.3	3918.1	3805.2	3370.5	2699.4	1720.2	913.5
72.5°	1719.2	1793.5	2266.7	2751.6	3468.2	3608.9	3416.0	2746.0	1739.9	753.6	306.7
75°	962.1	1042.5	1688.3	2071.9	2328.5	2457.0	2386.2	1761.7	770.8	196.9	91.6
77.5°	325.4	352.2	785.4	1281.9	1537.0	1421.6	1203.5	875.0	283.4	74.9	48.6
80°	192.8	202.9	292.5	638.2	808.7	670.6	529.4	323.4	144.2	40.0	33.9
82.5°	57.7	68.3	161.4	236.8	316.8	197.4	167.0	184.7	74.9	21.8	28.3
85°	0.0	0.0	34.4	73.4	83.0	32.4	32.4	104.8	13.7	9.1	20.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.5	1.5	2.0	4.6
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°	943.8	943.8	943.8	943.8	943.8	943.8	943.8	943.8	943.8	943.8	943.8
2.5°	937.8	920.1	899.3	879.6	860.8	836.5	824.9	810.7	798.6	792.0	795.6
5°	919.0	891.2	848.7	805.7	762.2	721.2	684.2	659.4	637.2	625.5	628.0
7.5°	902.8	865.4	799.1	728.8	658.9	588.6	531.4	486.8	452.4	438.3	435.7
10°	895.8	848.7	755.1	653.9	546.6	451.9	371.0	321.9	286.9	269.7	272.8
12.5°	899.3	840.1	717.6	580.5	441.3	331.0	253.5	207.5	182.7	172.6	170.0
15°	909.4	838.1	684.2	505.6	340.6	231.3	175.1	156.4	151.3	150.3	150.3
17.5°	921.1	838.6	649.8	429.7	258.6	171.6	149.8	146.3	144.7	143.7	144.2
20°	932.7	838.6	610.3	352.7	194.3	148.3	142.7	140.2	138.7	138.2	138.2
22.5°	946.9	838.6	566.3	281.4	155.9	140.7	136.1	134.6	133.1	132.6	132.1
25°	964.1	839.1	517.7	220.1	141.7	134.1	130.6	129.1	127.5	126.5	126.5
27.5°	988.9	843.1	464.1	171.6	133.6	128.0	125.0	123.5	122.0	120.4	120.4
30°	1024.8	853.3	403.9	141.7	126.0	121.5	118.4	117.4	115.9	114.4	113.9
32.5°	1078.5	871.0	341.6	127.0	118.9	114.4	110.8	109.8	108.3	106.8	106.3
35°	1153.4	903.4	280.9	117.9	109.8	105.3	103.2	102.7	100.7	99.2	99.2
37.5°	1263.2	956.0	222.7	108.8	102.2	98.7	96.2	95.1	93.1	91.6	91.1
40°	1397.3	1024.3	173.1	101.7	95.1	91.6	89.1	87.6	85.0	83.0	82.0
42.5°	1568.3	1107.8	136.6	94.1	88.6	85.0	83.0	80.0	76.4	73.4	72.9
45°	1746.5	1193.8	112.9	87.0	82.5	79.5	76.9	72.9	67.8	64.3	63.3
47.5°	1883.1	1247.5	98.7	79.5	75.9	73.4	70.3	65.3	59.2	55.2	54.2
50°	1980.8	1255.6	88.1	72.4	70.3	67.8	63.3	57.2	50.6	46.6	45.5
52.5°	2028.9	1219.1	79.5	65.8	64.3	61.7	56.2	49.6	42.5	38.5	37.4
55°	2050.6	1150.3	71.4	60.2	58.2	55.2	49.1	42.0	34.9	31.4	30.4
57.5°	2042.0	1048.6	64.3	54.7	52.1	48.6	42.0	34.4	28.8	25.3	24.8
60°	1978.3	905.9	57.2	49.1	46.1	42.0	35.4	28.3	23.3	20.7	20.2
62.5°	1840.6	728.8	50.1	42.5	40.5	36.4	30.4	23.3	19.2	17.7	17.2
65°	1558.7	515.2	43.0	35.9	34.9	30.9	25.3	19.2	16.7	15.7	15.2
67.5°	1120.5	313.3	36.4	30.9	29.9	26.3	21.3	16.7	15.2	14.7	14.7
70°	563.3	148.3	28.8	25.3	25.3	21.8	18.2	15.2	14.7	14.2	14.2
72.5°	191.3	63.3	21.8	19.7	20.7	18.7	15.7	14.2	14.2	14.2	14.2
75°	65.3	33.4	15.2	14.2	15.2	15.2	13.7	13.7	14.2	14.2	14.2
77.5°	42.5	22.3	10.6	9.6	11.6	11.6	11.6	12.7	13.7	13.7	13.7
80°	34.9	12.1	7.1	6.6	8.6	8.6	9.6	11.6	12.7	12.7	12.7
82.5°	29.9	7.6	4.0	4.6	6.1	6.6	8.1	9.6	11.1	11.6	11.6
85°	20.2	4.0	3.0	3.5	4.0	5.1	6.6	8.1	9.1	10.1	10.1
87.5°	5.6	1.5	2.0	2.5	2.5	3.5	5.1	6.1	7.1	7.6	7.6
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)