

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: P632537

Luminaire Tested: GWS-SA2C-830-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632537
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-SA2C-830-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) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5793 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

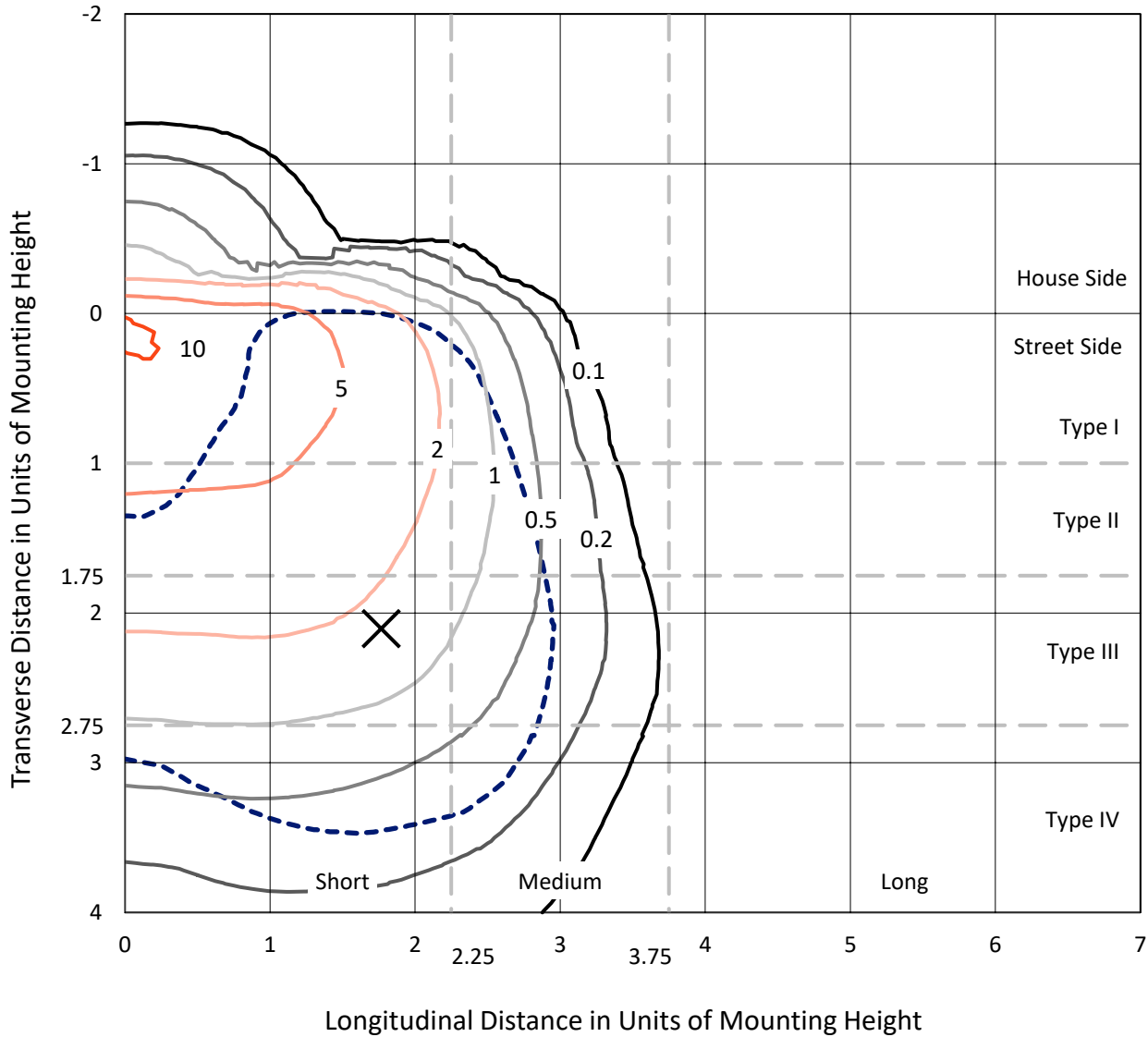
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

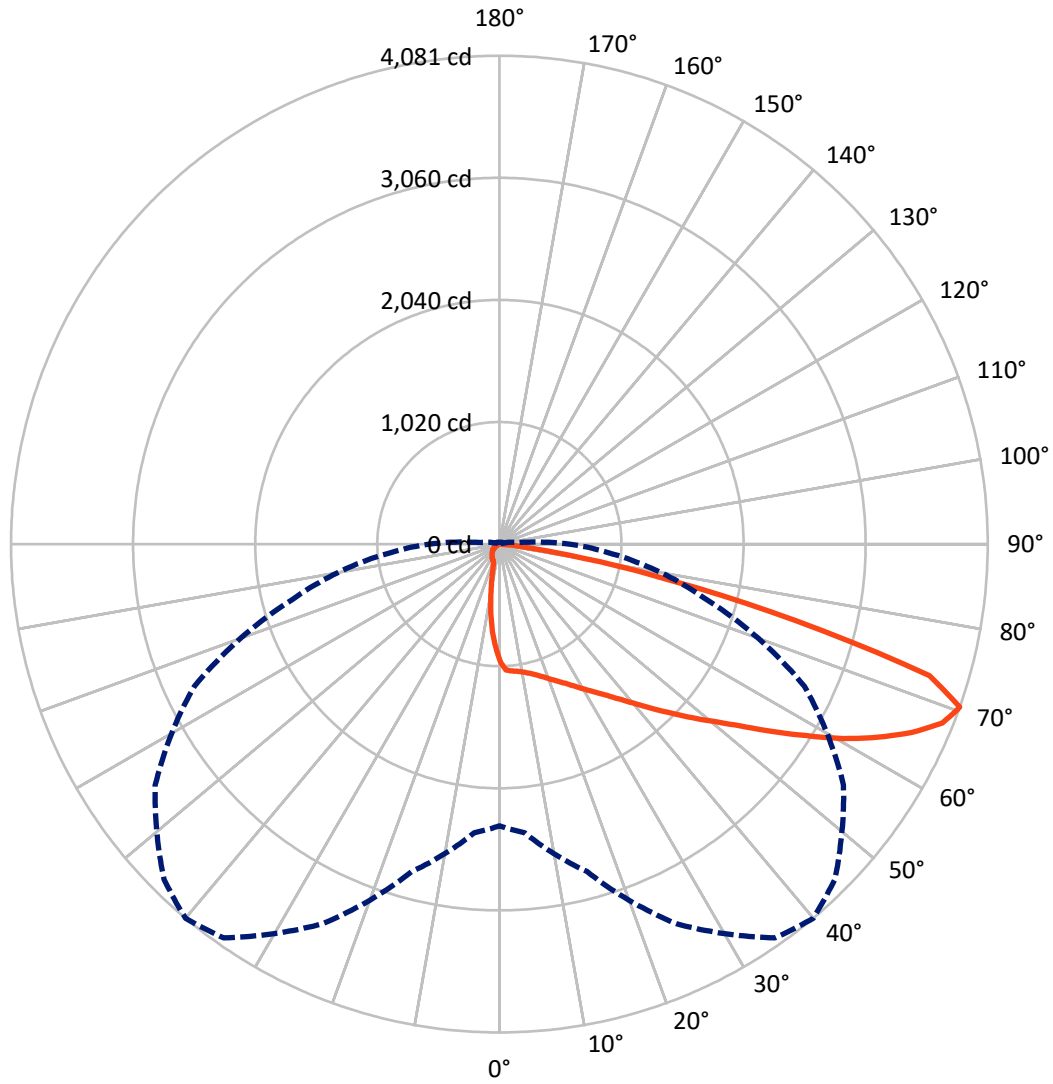
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.7 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	473.7	0.0	473.7
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	5319.3	0.0	5319.3
	% Fixture	91.8	0.0	91.8
Total	Lumens	5793.0	0.0	5793.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.1	1.4
10°-20°	210.7	3.6
20°-30°	352.7	6.1
30°-40°	553.9	9.6
40°-50°	876.2	15.1
50°-60°	1278.1	22.1
60°-70°	1584.4	27.4
70°-80°	801.6	13.8
80°-90°	52.3	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°	5793.0	100.0
0°-180°	5793.0	100.0

Coefficient of Utilization



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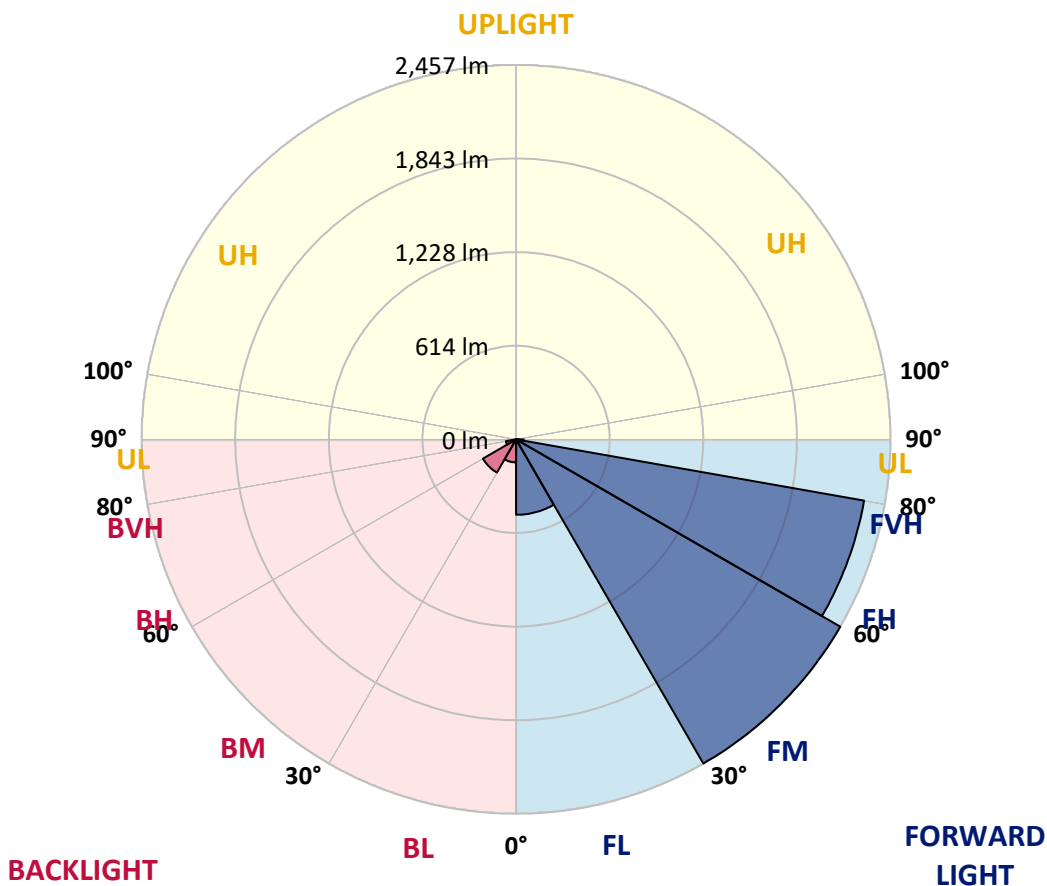
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	495.2	8.5			
FM (30°-60°)	2456.7	42.4			
FH (60°-80°)	2318.5	40.0			G2/5000
FVH (80°-90°)	48.9	0.8			G1/100
BL (0°-30°)	151.3	2.6	B1/500		
BM (30°-60°)	251.4	4.3	B1/1000		
BH (60°-80°)	67.5	1.2	B0/110		G0/110
BVH (80°-90°)	3.5	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°	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0
2.5°	1056.8	1060.5	1060.0	1061.5	1057.8	1052.1	1051.0	1043.1	1028.9	1010.9	990.9
5°	1078.4	1082.6	1079.5	1077.9	1071.0	1064.7	1063.1	1054.7	1038.3	1014.1	979.3
7.5°	1096.9	1097.9	1095.8	1092.1	1082.1	1073.7	1067.9	1056.3	1036.8	1012.5	972.5
10°	1100.0	1099.5	1100.5	1101.1	1094.7	1087.4	1082.6	1066.8	1042.0	1016.2	973.0
12.5°	1096.3	1096.3	1103.2	1111.1	1111.1	1107.4	1102.6	1088.4	1059.4	1028.9	983.5
15°	1101.1	1102.6	1115.8	1130.6	1135.3	1131.6	1129.5	1114.8	1084.7	1051.0	1002.5
17.5°	1117.9	1119.5	1140.6	1162.7	1168.5	1164.3	1160.1	1145.3	1113.2	1076.3	1024.1
20°	1142.7	1146.9	1173.8	1202.3	1207.5	1202.3	1193.8	1173.3	1141.1	1103.7	1044.7
22.5°	1188.0	1190.7	1219.7	1249.7	1252.3	1243.9	1231.3	1202.8	1169.1	1132.7	1067.9
25°	1248.1	1251.8	1280.8	1309.8	1302.9	1290.3	1272.9	1240.7	1202.3	1167.0	1097.4
27.5°	1319.8	1324.0	1352.5	1377.8	1359.9	1345.1	1325.6	1285.5	1246.5	1214.4	1135.3
30°	1397.3	1401.0	1426.3	1448.9	1425.2	1407.8	1384.6	1343.5	1304.0	1279.7	1189.1
32.5°	1472.1	1471.6	1495.9	1514.3	1490.1	1476.3	1455.3	1413.6	1382.0	1371.5	1269.2
35°	1541.7	1541.7	1561.7	1580.2	1562.8	1555.4	1535.9	1502.7	1484.8	1497.4	1376.2
37.5°	1611.8	1608.1	1627.1	1647.6	1646.1	1646.6	1635.5	1619.7	1620.8	1665.6	1523.3
40°	1669.8	1668.2	1690.3	1717.2	1738.3	1755.2	1748.3	1754.1	1787.3	1871.1	1711.4
42.5°	1716.2	1719.9	1748.3	1791.0	1844.3	1878.5	1883.3	1907.0	1992.4	2122.0	1923.8
45°	1769.4	1769.9	1809.5	1874.8	1959.7	2014.0	2032.9	2094.1	2215.3	2382.4	2156.8
47.5°	1834.8	1828.4	1872.7	1964.4	2087.2	2167.3	2201.1	2277.5	2465.1	2636.5	2346.6
50°	1907.0	1895.4	1945.4	2070.4	2230.1	2330.2	2398.7	2510.5	2712.9	2845.2	2487.8
52.5°	1990.8	1979.7	2036.6	2192.1	2401.4	2523.1	2611.2	2723.9	2925.3	3004.4	2572.1
55°	2097.2	2086.2	2146.3	2338.1	2603.8	2761.9	2854.1	2949.0	3122.9	3121.9	2633.3
57.5°	2215.3	2200.0	2283.3	2522.6	2856.2	3020.7	3114.5	3160.9	3273.2	3213.1	2674.4
60°	2350.8	2337.1	2452.5	2742.4	3147.7	3300.0	3359.1	3340.1	3396.5	3266.8	2660.2
62.5°	2473.1	2466.7	2610.1	2975.4	3425.5	3554.1	3570.4	3487.7	3487.2	3267.9	2564.2
65°	2600.1	2612.2	2825.1	3243.6	3704.8	3791.3	3763.3	3634.2	3523.5	3138.8	2280.7
67.5°	2647.5	2682.8	2966.9	3486.1	3925.2	3992.6	3943.6	3707.5	3372.3	2704.4	1736.7
70°	2354.5	2420.9	2833.1	3499.8	4016.3	4080.6	3963.1	3510.3	2811.4	1791.5	951.4
72.5°	1790.5	1868.0	2360.8	2865.7	3612.1	3758.6	3557.8	2859.9	1812.1	784.8	319.4
75°	1002.0	1085.8	1758.3	2157.9	2425.1	2559.0	2485.2	1834.8	802.7	205.0	95.4
77.5°	338.9	366.8	818.0	1335.1	1600.7	1480.6	1253.4	911.3	295.2	78.0	50.6
80°	200.8	211.4	304.7	664.6	842.3	698.4	551.3	336.8	150.2	41.6	35.3
82.5°	60.1	71.2	168.1	246.7	330.0	205.6	173.9	192.4	78.0	22.7	29.5
85°	0.0	0.0	35.8	76.4	86.4	33.7	33.7	109.1	14.2	9.5	21.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.6	1.6	2.1	4.7
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°	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0
2.5°	976.7	958.2	936.6	916.1	896.6	871.3	859.1	844.4	831.7	824.9	828.6
5°	957.2	928.2	883.9	839.1	793.8	751.1	712.6	686.8	663.6	651.5	654.1
7.5°	940.3	901.3	832.3	759.0	686.3	613.0	553.4	507.1	471.2	456.5	453.8
10°	932.9	883.9	786.4	681.0	569.2	470.7	386.3	335.2	298.9	280.9	284.1
12.5°	936.6	875.0	747.4	604.6	459.6	344.7	264.1	216.1	190.3	179.7	177.1
15°	947.2	872.8	712.6	526.6	354.7	240.9	182.4	162.9	157.6	156.5	156.5
17.5°	959.3	873.4	676.8	447.5	269.3	178.7	156.0	152.3	150.7	149.7	150.2
20°	971.4	873.4	635.7	367.4	202.4	154.4	148.6	146.0	144.4	143.9	143.9
22.5°	986.2	873.4	589.8	293.1	162.3	146.5	141.8	140.2	138.6	138.1	137.6
25°	1004.1	873.9	539.2	229.3	147.6	139.7	136.0	134.4	132.8	131.8	131.8
27.5°	1029.9	878.1	483.3	178.7	139.1	133.4	130.2	128.6	127.0	125.4	125.4
30°	1067.3	888.7	420.6	147.6	131.2	126.5	123.3	122.3	120.7	119.1	118.6
32.5°	1123.2	907.1	355.8	132.3	123.9	119.1	115.4	114.4	112.8	111.2	110.7
35°	1201.2	940.8	292.5	122.8	114.4	109.6	107.5	107.0	104.9	103.3	103.3
37.5°	1315.6	995.7	231.9	113.3	106.5	102.8	100.1	99.1	97.0	95.4	94.9
40°	1455.3	1066.8	180.3	105.9	99.1	95.4	92.8	91.2	88.5	86.4	85.4
42.5°	1633.4	1153.8	142.3	98.0	92.2	88.5	86.4	83.3	79.6	76.4	75.9
45°	1819.0	1243.4	117.5	90.7	85.9	82.8	80.1	75.9	70.6	66.9	65.9
47.5°	1961.3	1299.3	102.8	82.8	79.1	76.4	73.3	68.0	61.7	57.5	56.4
50°	2063.0	1307.7	91.7	75.4	73.3	70.6	65.9	59.6	52.7	48.5	47.4
52.5°	2113.1	1269.7	82.8	68.5	66.9	64.3	58.5	51.7	44.3	40.1	39.0
55°	2135.7	1198.1	74.3	62.7	60.6	57.5	51.1	43.7	36.4	32.7	31.6
57.5°	2126.8	1092.1	66.9	56.9	54.3	50.6	43.7	35.8	30.0	26.4	25.8
60°	2060.4	943.5	59.6	51.1	48.0	43.7	36.9	29.5	24.2	21.6	21.1
62.5°	1917.0	759.0	52.2	44.3	42.2	37.9	31.6	24.2	20.0	18.4	17.9
65°	1623.4	536.6	44.8	37.4	36.4	32.2	26.4	20.0	17.4	16.3	15.8
67.5°	1167.0	326.3	37.9	32.2	31.1	27.4	22.1	17.4	15.8	15.3	15.3
70°	586.6	154.4	30.0	26.4	26.4	22.7	19.0	15.8	15.3	14.8	14.8
72.5°	199.2	65.9	22.7	20.6	21.6	19.5	16.3	14.8	14.8	14.8	14.8
75°	68.0	34.8	15.8	14.8	15.8	15.8	14.2	14.2	14.8	14.8	14.8
77.5°	44.3	23.2	11.1	10.0	12.1	12.1	12.1	13.2	14.2	14.2	14.2
80°	36.4	12.6	7.4	6.9	9.0	9.0	10.0	12.1	13.2	13.2	13.2
82.5°	31.1	7.9	4.2	4.7	6.3	6.9	8.4	10.0	11.6	12.1	12.1
85°	21.1	4.2	3.2	3.7	4.2	5.3	6.9	8.4	9.5	10.5	10.5
87.5°	5.8	1.6	2.1	2.6	2.6	3.7	5.3	6.3	7.4	7.9	7.9
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)