

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: P631297

Luminaire Tested: GWS-SA1F-735-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631297
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-735-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6504.8 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

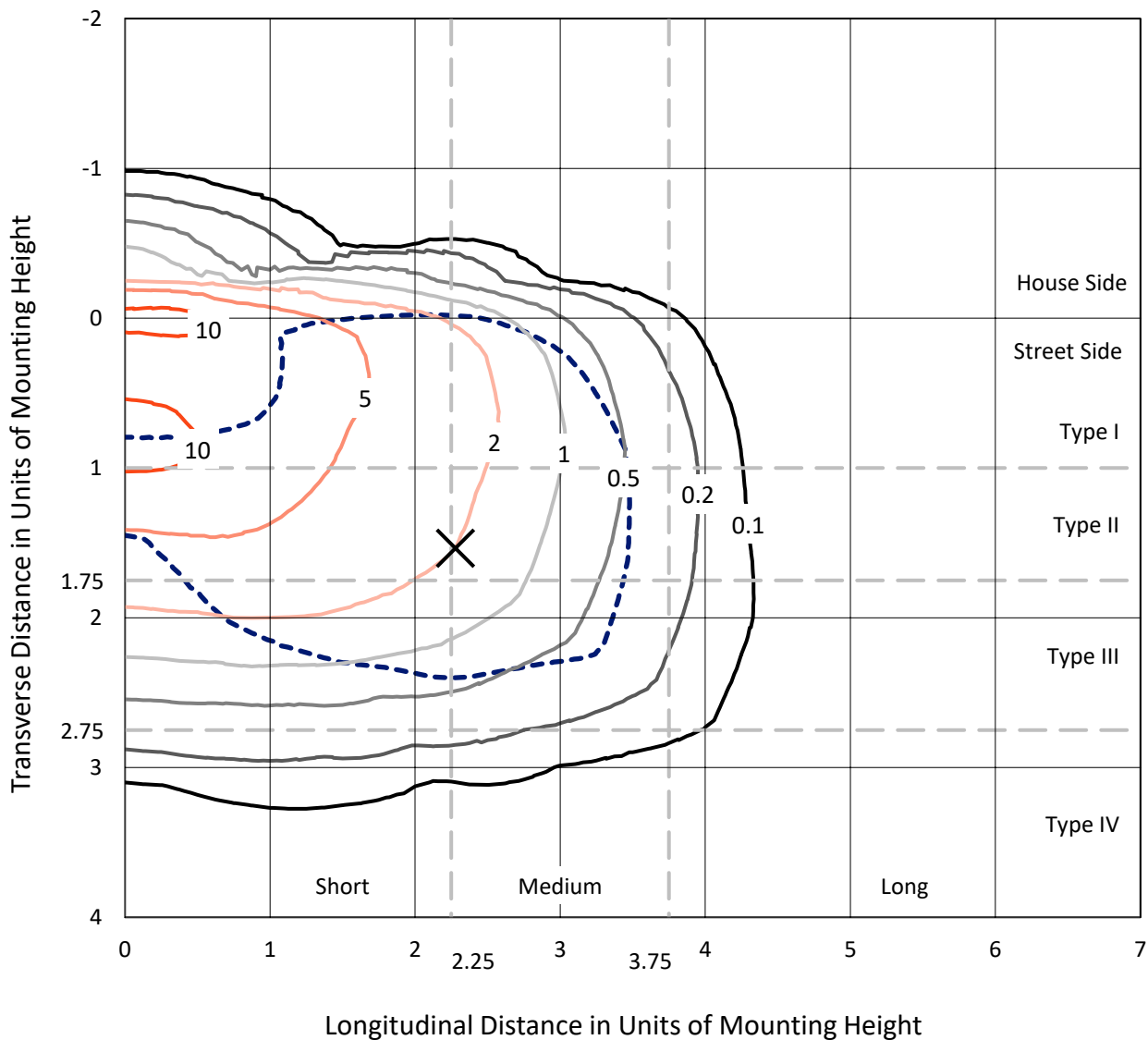
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

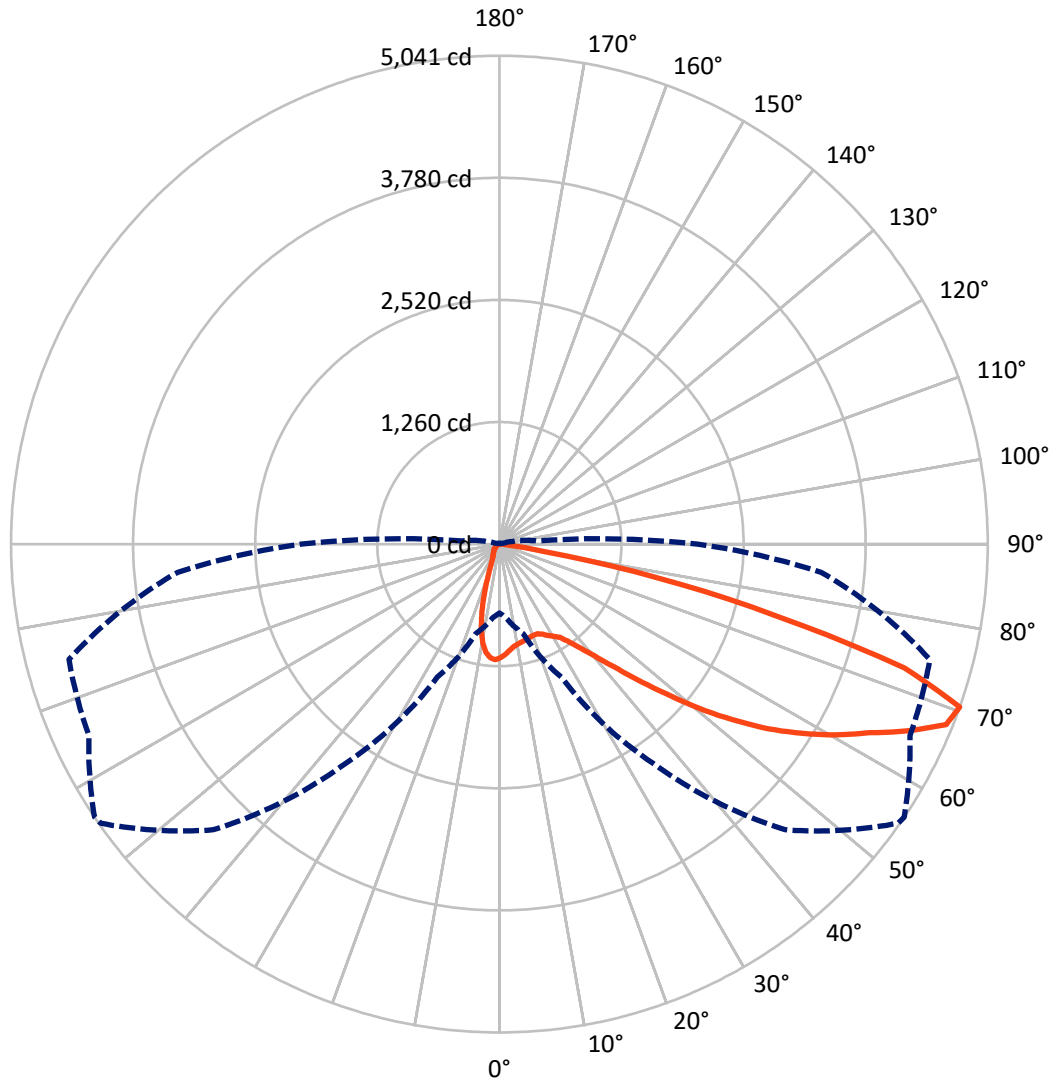
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	584.3	0.0	584.3
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	5920.5	0.0	5920.5
	% Fixture	91.0	0.0	91.0
Total	Lumens	6504.8	0.0	6504.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.7	1.5
10°-20°	226.5	3.5
20°-30°	358.8	5.5
30°-40°	618.7	9.5
40°-50°	1044.7	16.1
50°-60°	1535.1	23.6
60°-70°	1819.9	28.0
70°-80°	776.1	11.9
80°-90°	24.4	0.4
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°	6504.8	100.0
0°-180°	6504.8	100.0

Coefficient of Utilization



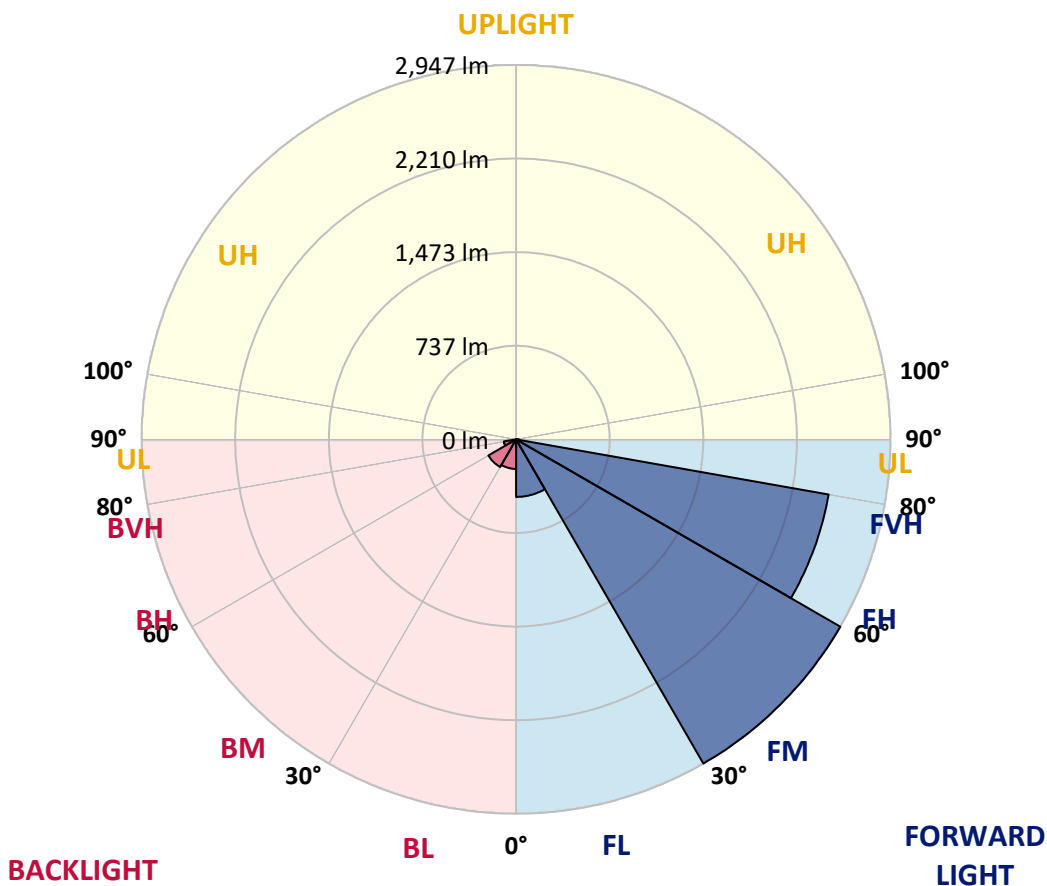
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	453.3	7.0			
FM (30°-60°)	2946.8	45.3			
FH (60°-80°)	2498.5	38.4			G2/5000
FVH (80°-90°)	21.9	0.3			G1/100
BL (0°-30°)	232.7	3.6	B1/500		
BM (30°-60°)	251.6	3.9	B1/1000		
BH (60°-80°)	97.4	1.5	B0/110		G0/110
BVH (80°-90°)	2.5	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-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1172.9	1172.9	1172.9	1172.9	1172.9	1172.9	1172.9	1172.9	1172.9	1172.9	1172.9
2.5°	1091.9	1090.1	1091.3	1100.2	1116.9	1124.6	1137.7	1140.1	1150.8	1164.5	1169.9
5°	1021.0	1015.0	1018.0	1030.5	1049.6	1071.0	1095.4	1102.0	1128.8	1159.2	1181.8
7.5°	956.1	949.5	956.7	976.3	1003.1	1026.3	1062.7	1066.9	1109.7	1163.4	1204.5
10°	854.2	856.0	870.3	904.8	945.9	994.2	1043.0	1049.0	1102.0	1177.1	1240.8
12.5°	776.2	772.0	787.5	826.8	884.6	954.9	1028.1	1035.9	1102.6	1197.9	1287.3
15°	739.8	738.6	745.2	773.8	829.8	912.6	1014.4	1024.6	1110.3	1217.0	1331.3
17.5°	741.0	739.2	738.6	755.3	797.0	881.0	999.5	1012.6	1116.9	1237.8	1377.8
20°	792.8	784.5	769.6	761.9	786.9	860.7	989.4	1004.3	1126.4	1259.8	1427.2
22.5°	901.3	904.2	864.3	822.6	810.7	863.1	988.2	1005.5	1147.3	1294.4	1488.0
25°	1118.1	1113.3	1039.5	945.9	881.0	890.5	1009.1	1029.9	1188.4	1343.8	1545.2
27.5°	1389.7	1393.9	1292.6	1143.7	1007.9	947.1	1047.2	1068.0	1236.0	1374.8	1583.3
30°	1685.8	1681.6	1573.2	1408.2	1187.8	1041.2	1085.3	1103.8	1259.8	1391.5	1622.6
32.5°	1965.7	1956.2	1849.0	1676.2	1417.1	1189.6	1137.7	1148.5	1291.4	1427.8	1675.6
35°	2204.6	2204.0	2110.5	1926.4	1653.0	1375.4	1227.7	1236.6	1350.4	1485.6	1753.7
37.5°	2451.2	2442.9	2338.0	2170.0	1895.4	1579.1	1365.3	1361.7	1443.3	1570.8	1849.6
40°	2653.7	2648.4	2567.9	2406.5	2147.4	1804.3	1532.1	1521.3	1553.5	1688.7	1983.0
42.5°	2803.8	2804.4	2779.4	2681.1	2414.3	2064.6	1741.7	1725.1	1724.5	1866.8	2159.3
45°	2917.6	2925.4	2962.9	2948.0	2729.4	2367.8	2010.4	1993.1	1963.9	2098.0	2361.2
47.5°	2970.6	2980.7	3093.9	3153.5	3005.2	2668.6	2330.3	2293.9	2236.8	2405.3	2587.0
50°	2965.3	2983.1	3141.0	3322.1	3255.4	2973.6	2678.7	2661.5	2567.9	2730.6	2810.4
52.5°	2843.7	2881.9	3144.0	3424.5	3447.8	3254.8	3039.1	3007.0	2961.7	3070.1	3020.1
55°	2513.7	2560.2	3018.3	3457.3	3597.9	3500.2	3391.8	3365.6	3290.5	3390.6	3202.9
57.5°	2334.4	2374.4	2753.8	3441.2	3725.3	3727.1	3705.7	3684.2	3622.3	3707.5	3417.4
60°	2226.6	2266.5	2612.6	3382.2	3840.9	3966.6	4000.5	3998.2	3908.8	4067.9	3668.8
62.5°	2068.8	2123.6	2465.5	3229.1	3923.1	4202.5	4304.9	4288.8	4189.4	4443.1	3917.7
65°	1750.1	1797.7	2164.1	2976.6	3874.9	4397.9	4634.9	4643.3	4528.3	4796.4	4114.3
67.5°	1227.1	1262.2	1626.2	2446.4	3547.2	4462.2	4972.7	4972.1	4776.1	4977.4	4027.3
70°	711.2	759.5	960.8	1512.4	2759.8	4169.7	5023.3	5040.6	4675.4	4599.2	3332.8
72.5°	275.2	315.1	544.4	803.6	1439.1	3194.0	4321.0	4371.6	3913.0	3547.8	2319.6
75°	82.2	91.7	256.1	427.7	577.8	1542.8	2925.4	2939.6	2684.1	2212.9	1189.0
77.5°	61.4	67.9	112.0	216.2	202.5	467.6	1513.6	1653.0	1424.9	790.5	327.6
80°	41.7	49.4	79.8	105.4	75.1	124.5	425.3	467.0	434.8	177.5	82.2
82.5°	18.5	23.8	56.6	53.0	27.4	35.7	131.0	139.4	89.9	53.6	28.6
85°	1.8	2.4	21.4	23.2	10.1	8.3	27.4	27.4	19.7	18.5	11.9
87.5°	0.0	0.0	0.6	1.2	1.2	1.8	2.4	3.0	3.6	4.8	6.0
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°	1172.9	1172.9	1172.9	1172.9	1172.9	1172.9	1172.9	1172.9	1172.9	1172.9	1172.9
2.5°	1183.6	1176.5	1185.4	1192.5	1194.3	1181.2	1173.5	1162.2	1159.8	1160.4	1157.4
5°	1199.7	1196.1	1202.7	1194.9	1174.7	1136.5	1103.8	1067.4	1047.8	1036.5	1035.3
7.5°	1229.5	1227.7	1220.5	1185.4	1122.2	1037.7	956.1	876.2	826.8	808.9	805.9
10°	1273.5	1270.0	1240.8	1157.4	1022.8	860.2	723.1	608.8	539.1	518.8	493.8
12.5°	1324.2	1317.0	1253.3	1097.2	872.7	647.5	476.5	348.5	288.3	270.4	270.4
15°	1373.0	1357.5	1246.1	997.8	688.0	421.1	266.3	201.3	182.9	178.1	178.1
17.5°	1423.1	1393.3	1218.2	861.9	475.3	249.0	177.5	165.0	162.6	163.2	163.8
20°	1470.1	1423.7	1168.7	698.7	303.2	173.9	159.0	156.1	154.9	156.1	155.5
22.5°	1521.3	1451.7	1093.7	520.6	197.2	156.7	151.3	148.9	147.7	149.5	149.5
25°	1572.0	1471.9	994.2	350.3	156.7	145.9	143.0	140.6	139.4	140.0	140.0
27.5°	1598.2	1464.2	863.7	223.4	140.6	135.2	132.2	129.3	127.5	126.9	127.5
30°	1616.1	1440.3	704.1	159.0	127.5	120.9	117.9	115.6	110.8	107.8	109.0
32.5°	1644.1	1416.5	530.7	133.4	116.8	106.6	101.9	95.9	89.4	86.4	86.4
35°	1677.4	1383.7	372.3	120.3	105.4	94.7	85.8	75.7	67.9	65.5	65.5
37.5°	1721.5	1352.8	247.8	111.4	95.9	84.6	72.1	60.2	51.8	50.6	50.0
40°	1787.6	1326.6	174.5	104.8	87.6	73.9	59.0	46.5	40.5	38.7	38.7
42.5°	1873.4	1299.8	138.2	98.3	80.4	63.7	47.1	36.9	32.2	31.0	30.4
45°	1979.4	1268.2	120.3	92.3	73.3	53.0	37.5	31.0	27.4	26.2	26.2
47.5°	2094.4	1225.3	112.0	84.6	64.9	42.9	31.6	26.8	25.0	24.4	23.8
50°	2207.6	1167.5	104.8	77.4	55.4	35.1	27.4	24.4	23.2	22.6	22.6
52.5°	2306.4	1100.2	95.9	69.1	45.3	30.4	24.4	22.6	21.4	20.3	19.7
55°	2391.0	1026.9	84.6	59.6	36.9	26.8	22.6	20.8	19.7	18.5	17.9
57.5°	2500.0	985.2	67.9	48.2	30.4	23.8	20.8	19.1	17.9	16.1	16.1
60°	2621.0	954.9	50.6	38.1	26.2	22.0	19.1	17.3	16.1	14.3	14.3
62.5°	2718.1	909.6	39.9	31.0	22.6	19.7	17.3	15.5	14.3	12.5	12.5
65°	2755.0	816.1	32.8	24.4	18.5	17.3	15.5	14.3	12.5	10.7	10.7
67.5°	2588.2	629.0	27.4	19.7	15.5	14.9	13.7	13.1	10.7	9.5	8.9
70°	2049.7	383.6	22.6	16.1	13.1	12.5	12.5	11.3	9.5	8.9	8.3
72.5°	1404.6	197.8	18.5	13.1	11.3	11.3	10.7	10.1	8.9	8.3	8.3
75°	729.7	66.1	14.3	10.1	8.9	9.5	9.5	8.9	8.3	8.3	7.7
77.5°	209.1	29.8	10.7	7.7	7.1	7.1	7.7	7.7	7.7	7.1	7.1
80°	54.2	17.3	7.7	6.0	6.0	6.0	6.0	6.6	7.1	6.6	6.6
82.5°	22.0	9.5	5.4	4.8	4.8	4.8	4.8	5.4	6.0	6.0	6.0
85°	13.7	4.8	4.2	4.2	4.2	3.6	3.6	4.2	4.2	4.8	4.8
87.5°	8.3	3.6	3.6	3.6	3.6	3.0	3.0	3.0	3.0	3.0	3.0
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)