

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: P631062

Luminaire Tested: GWS-SA1E-830-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631062
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1E-830-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6008.5 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B2 - U0 - G2

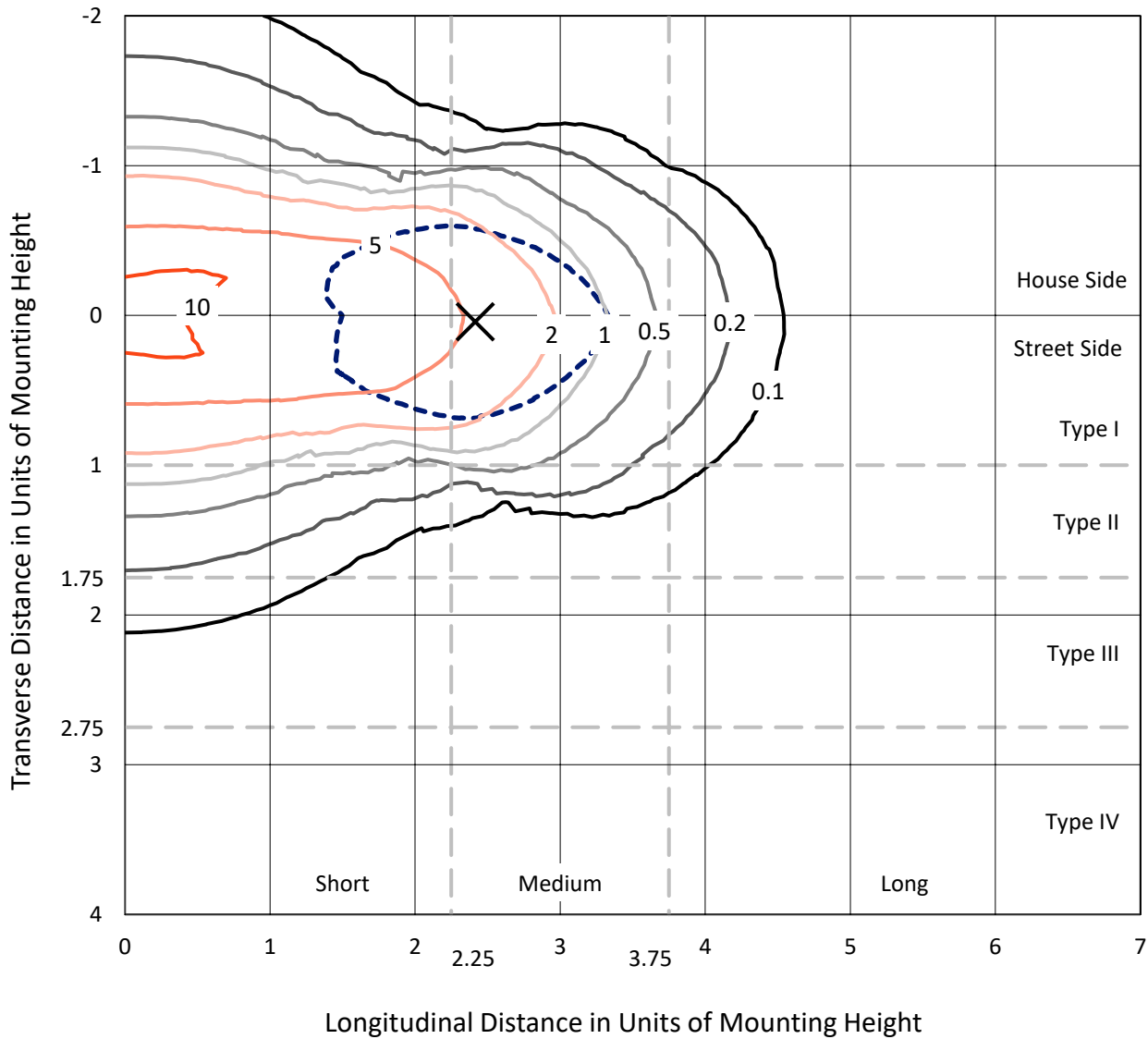
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

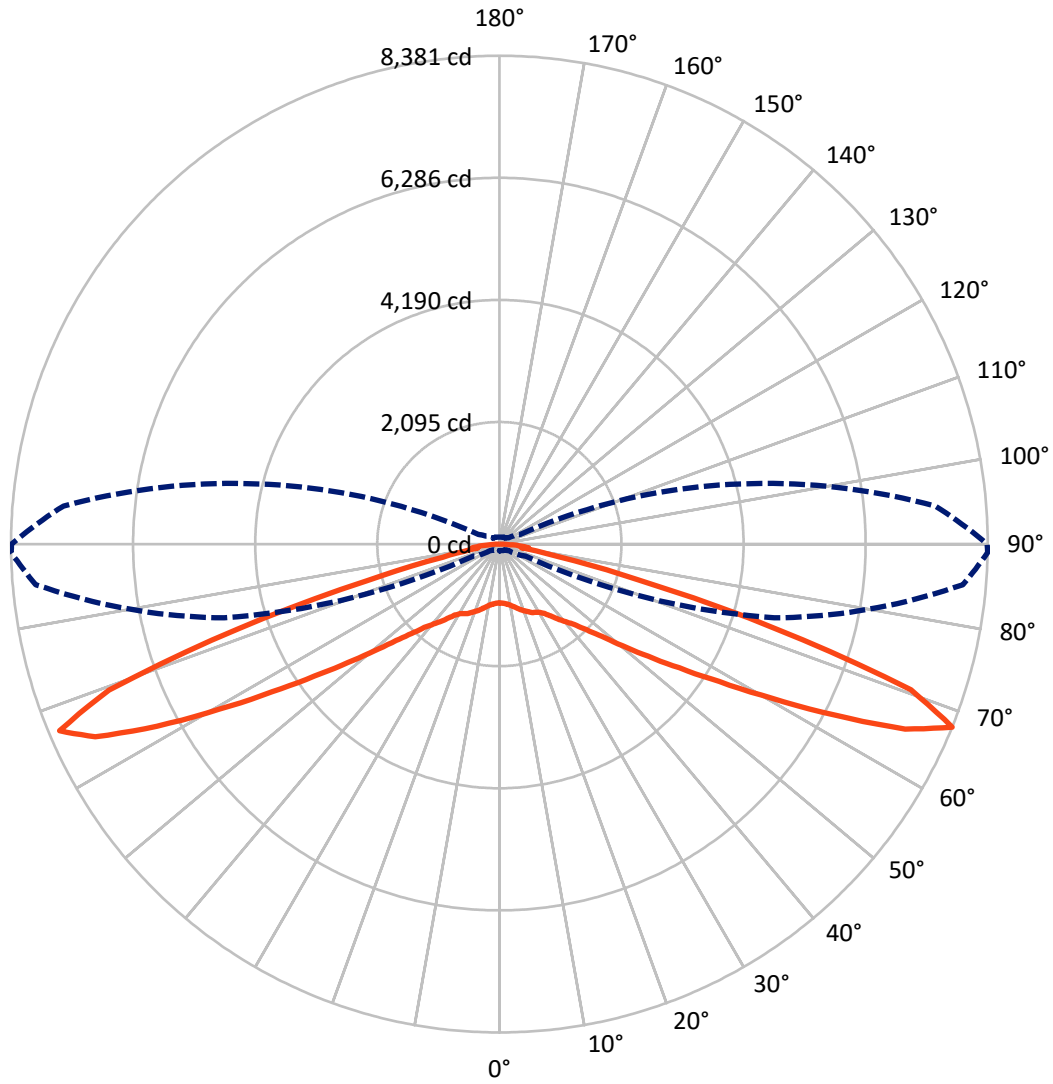
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11 fc
 Type I - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2977.9	0.0	2977.9
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	3030.6	0.0	3030.6
	% Fixture	50.4	0.0	50.4
Total	Lumens	6008.5	0.0	6008.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	1.7
10°-20°	329.4	5.5
20°-30°	556.8	9.3
30°-40°	764.2	12.7
40°-50°	974.5	16.2
50°-60°	1222.6	20.3
60°-70°	1474.6	24.5
70°-80°	533.5	8.9
80°-90°	51.9	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°	6008.5	100.0
0°-180°	6008.5	100.0

Coefficient of Utilization



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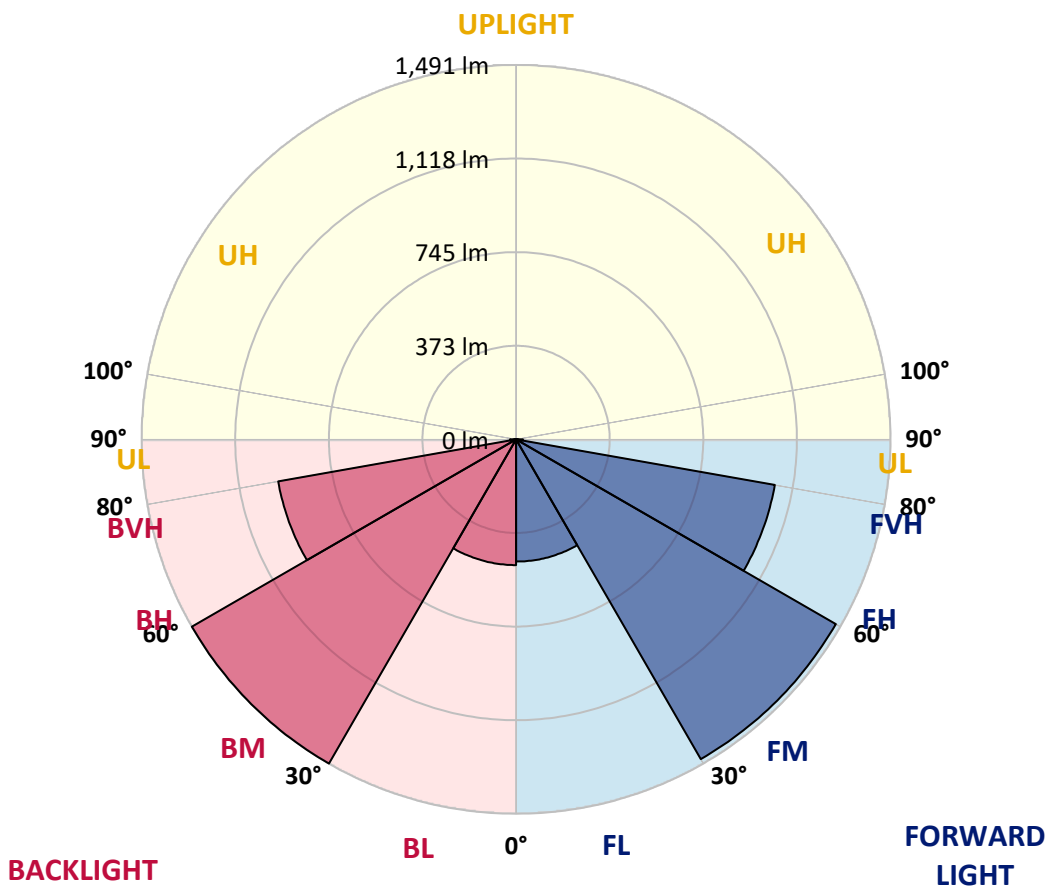
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	486.6	8.1			
FM (30°-60°)	1470.4	24.5			
FH (60°-80°)	1046.2	17.4			G1/1800
FVH (80°-90°)	27.4	0.5			G1/100
BL (0°-30°)	500.7	8.3	B2/1000		
BM (30°-60°)	1490.8	24.8	B2/2500		
BH (60°-80°)	961.9	16.0	B2/1000		G2/1000
BVH (80°-90°)	24.5	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type I Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5
2.5°	1011.5	1010.6	1008.5	1015.0	1013.7	1014.1	1016.7	1015.0	1011.9	1006.8	1014.1
5°	1040.0	1039.5	1034.8	1038.7	1034.4	1031.3	1030.9	1026.6	1023.2	1017.5	1025.3
7.5°	1067.6	1067.2	1063.3	1070.2	1066.7	1063.3	1059.4	1050.8	1042.6	1034.4	1043.0
10°	1088.7	1088.3	1087.4	1097.4	1098.2	1099.5	1097.8	1083.1	1068.9	1059.0	1067.6
12.5°	1100.8	1102.1	1104.3	1122.4	1131.5	1140.1	1142.3	1130.2	1106.4	1092.2	1102.6
15°	1092.6	1095.2	1106.0	1138.8	1163.8	1183.2	1191.4	1181.5	1150.9	1127.1	1138.8
17.5°	1053.4	1055.5	1076.7	1126.7	1182.0	1226.8	1240.2	1234.2	1200.1	1171.2	1182.4
20°	999.0	1003.7	1026.6	1096.5	1178.9	1257.0	1292.9	1290.7	1253.6	1209.1	1222.5
22.5°	949.8	955.4	979.6	1056.8	1158.6	1264.8	1345.9	1351.5	1302.3	1247.1	1257.9
25°	894.6	899.7	930.8	1009.8	1123.7	1258.8	1391.2	1416.7	1357.6	1290.7	1300.6
27.5°	838.0	841.9	872.5	956.7	1078.0	1247.5	1427.1	1488.3	1412.0	1320.9	1327.8
30°	788.4	793.6	821.6	903.6	1027.9	1225.1	1456.4	1564.7	1474.5	1355.0	1360.6
32.5°	740.5	744.8	775.5	851.4	974.8	1190.6	1482.7	1654.5	1567.3	1418.4	1418.4
35°	680.1	687.9	722.4	801.3	924.8	1144.8	1501.7	1758.9	1694.2	1512.1	1512.5
37.5°	624.4	628.7	665.0	744.8	872.1	1093.1	1503.4	1867.2	1854.7	1631.2	1632.0
40°	561.0	566.6	605.4	684.4	811.7	1038.7	1487.0	1968.2	2023.0	1753.7	1749.0
42.5°	496.7	504.9	542.0	619.2	746.5	972.2	1443.5	2064.4	2236.6	1895.7	1884.0
45°	434.5	439.7	476.8	549.8	671.9	892.8	1373.6	2156.8	2490.3	2111.5	2094.6
47.5°	364.6	366.8	405.2	475.1	594.6	804.4	1273.4	2239.2	2769.1	2397.1	2368.2
50°	302.5	305.5	335.7	395.7	500.1	699.5	1148.7	2287.5	3124.3	2786.8	2736.7
52.5°	244.7	247.7	271.9	319.8	413.4	580.0	994.2	2276.3	3484.6	3270.5	3197.6
55°	197.6	199.8	216.2	253.7	325.4	461.3	811.7	2175.8	3884.6	3902.3	3745.2
57.5°	167.0	167.9	179.1	202.0	254.2	355.6	626.6	1938.4	4304.0	4708.4	4450.3
60°	149.3	149.7	154.9	169.2	200.7	271.4	459.1	1560.4	4738.6	5716.9	5363.0
62.5°	138.1	138.1	142.4	150.6	166.6	208.9	337.5	1120.7	5050.6	6814.2	6462.5
65°	127.3	127.3	130.3	137.2	145.9	170.5	253.3	722.8	5203.8	7731.7	7653.6
67.5°	113.5	113.9	116.1	123.4	131.2	142.4	192.0	488.9	4885.7	7985.4	8380.7
70°	100.5	101.0	104.0	108.7	115.2	123.0	150.2	337.0	3556.2	6650.7	7493.5
72.5°	86.3	88.0	90.2	95.4	99.3	104.9	122.6	218.4	2069.2	4278.2	4953.5
75°	70.8	72.9	75.5	80.7	83.3	85.4	101.0	155.8	995.5	2168.0	2468.8
77.5°	54.8	57.0	60.0	64.7	66.5	69.0	77.2	112.6	476.8	961.0	1036.1
80°	36.7	37.5	40.1	45.7	48.8	50.5	57.0	76.8	207.1	385.8	382.3
82.5°	22.4	22.9	23.7	27.2	28.5	30.2	37.1	47.0	98.8	438.4	502.7
85°	8.2	7.8	7.3	9.5	11.2	12.9	17.3	23.7	43.2	301.2	337.0
87.5°	0.0	0.0	0.0	0.4	0.9	0.9	1.7	3.5	10.4	112.6	77.2
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°	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5	1008.5
2.5°	1011.9	1007.2	1013.2	1017.5	1027.0	1030.5	1031.3	1028.3	1028.3	1023.2	1024.0
5°	1023.6	1020.6	1030.5	1037.8	1051.6	1056.8	1060.3	1058.1	1059.4	1055.9	1056.8
7.5°	1041.3	1038.7	1055.9	1070.2	1084.4	1090.5	1093.5	1091.8	1092.2	1087.9	1089.2
10°	1065.9	1066.7	1087.4	1106.0	1125.0	1131.0	1132.3	1127.1	1122.8	1115.1	1115.5
12.5°	1099.5	1103.8	1133.2	1153.9	1173.3	1182.0	1172.5	1153.5	1135.8	1122.4	1120.7
15°	1136.2	1144.0	1186.3	1212.6	1233.7	1229.4	1201.4	1158.6	1123.7	1103.8	1100.0
17.5°	1180.2	1191.9	1245.0	1276.5	1294.6	1267.0	1208.3	1144.4	1095.6	1068.9	1063.7
20°	1221.7	1240.2	1307.1	1348.1	1350.2	1288.1	1205.3	1115.5	1054.2	1021.4	1014.5
22.5°	1259.6	1283.4	1372.3	1424.5	1396.4	1297.6	1186.7	1074.5	1004.2	965.8	959.7
25°	1301.1	1334.7	1448.2	1497.0	1442.6	1293.7	1147.9	1023.6	943.7	904.5	900.2
27.5°	1329.5	1371.8	1524.6	1571.2	1480.6	1271.7	1097.8	967.9	888.5	851.4	845.4
30°	1362.3	1416.3	1608.7	1651.9	1503.9	1239.3	1044.3	916.1	837.2	797.0	792.7
32.5°	1421.9	1489.6	1713.2	1737.3	1511.2	1199.2	992.9	866.1	783.7	743.5	737.5
35°	1517.7	1597.1	1859.9	1832.7	1505.6	1155.2	944.2	807.4	728.8	691.3	685.3
37.5°	1638.5	1737.3	2023.4	1918.6	1490.1	1106.9	886.4	758.2	679.7	641.7	638.2
40°	1751.1	1872.8	2206.8	1992.8	1458.6	1047.3	830.7	706.8	626.6	586.4	578.7
42.5°	1892.2	2054.1	2419.1	2057.1	1406.8	976.1	768.1	643.4	560.1	523.9	514.4
45°	2106.7	2307.8	2666.0	2118.8	1329.5	888.5	689.6	566.2	487.2	450.1	442.7
47.5°	2374.3	2625.0	2933.5	2155.5	1212.2	796.2	600.7	484.6	405.6	363.8	360.3
50°	2750.1	3086.3	3220.5	2149.0	1081.0	686.6	500.6	387.5	321.5	291.3	286.5
52.5°	3208.0	3665.4	3530.8	2071.3	941.6	561.8	390.1	304.2	255.0	233.5	229.6
55°	3782.3	4358.9	3857.4	1904.8	765.5	430.2	306.4	239.9	206.3	193.3	191.6
57.5°	4493.5	5256.9	4172.0	1624.3	575.7	328.4	236.0	198.1	182.1	174.3	173.9
60°	5432.1	6210.1	4445.2	1262.2	412.1	251.1	195.1	176.9	164.4	159.2	158.8
62.5°	6548.0	7075.7	4615.2	859.6	309.8	200.2	171.7	160.5	153.2	150.2	149.7
65°	7695.0	7622.9	4534.1	563.1	235.2	170.0	154.1	148.0	141.5	138.5	138.5
67.5°	8372.5	7507.3	3911.4	391.0	186.4	149.3	139.0	133.3	122.6	120.0	120.0
70°	7415.8	6083.2	2563.7	286.1	151.0	130.8	120.8	113.1	108.7	106.2	105.7
72.5°	4904.7	3958.4	1363.2	198.5	126.0	111.3	102.3	99.3	94.1	91.5	91.1
75°	2441.1	2079.1	698.6	143.3	104.9	89.3	85.4	84.1	79.8	76.4	75.5
77.5°	1017.5	925.6	325.8	104.0	79.8	72.1	68.6	68.6	63.9	60.0	58.3
80°	383.6	341.8	154.1	71.2	59.1	53.5	51.4	49.6	45.7	41.0	38.4
82.5°	513.1	335.3	75.5	44.4	38.8	34.5	31.5	30.2	28.0	25.9	24.2
85°	332.3	238.2	34.1	22.9	19.4	14.7	12.9	12.1	10.8	9.5	8.6
87.5°	67.7	79.8	10.4	4.3	2.6	1.3	1.3	0.4	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)