

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: P631047

Luminaire Tested: GWS-SA1E-830-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631047
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1E-830-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5915.3 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - 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

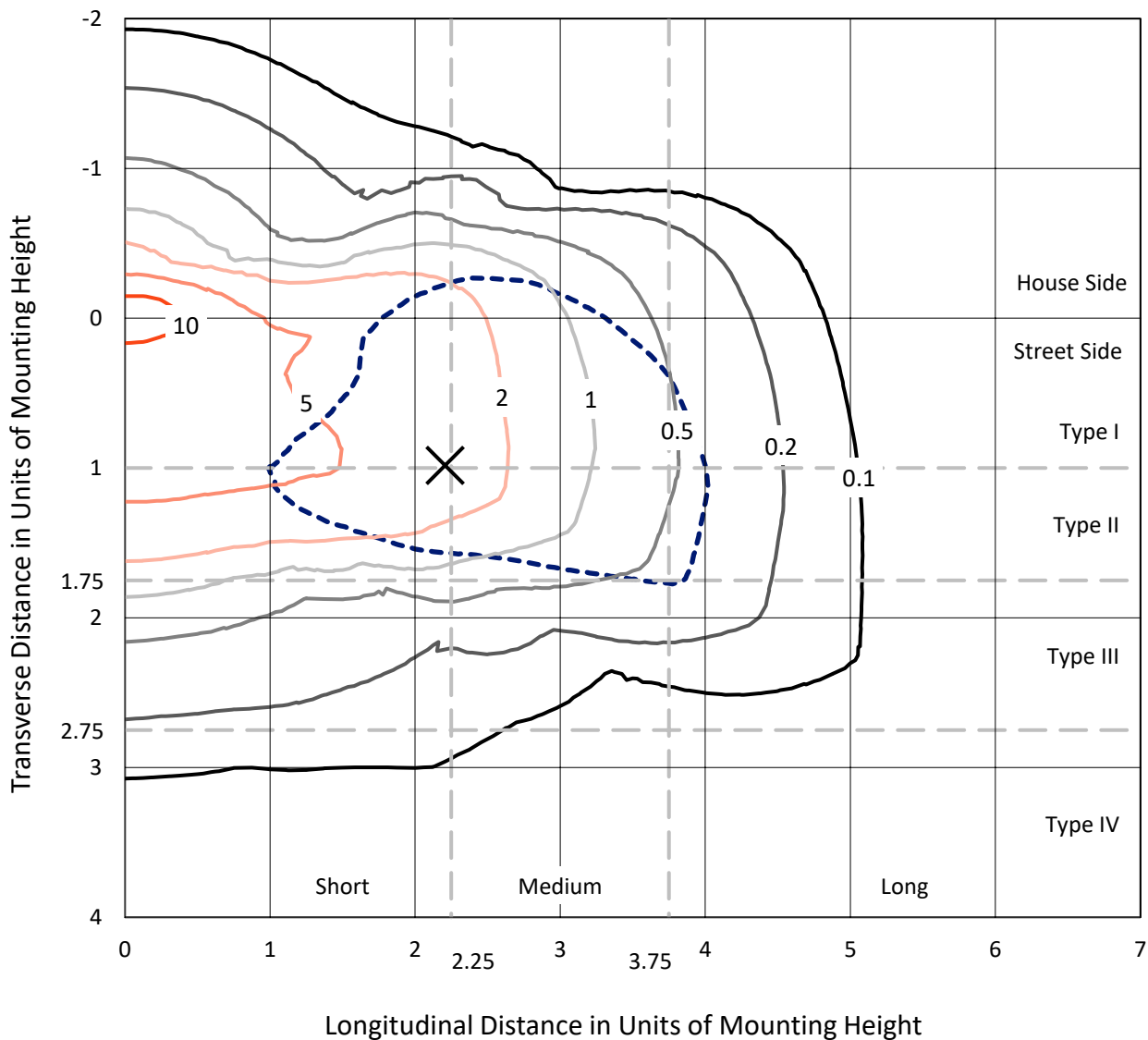


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Iso-Footcandle Lines of Horizontal Illumination

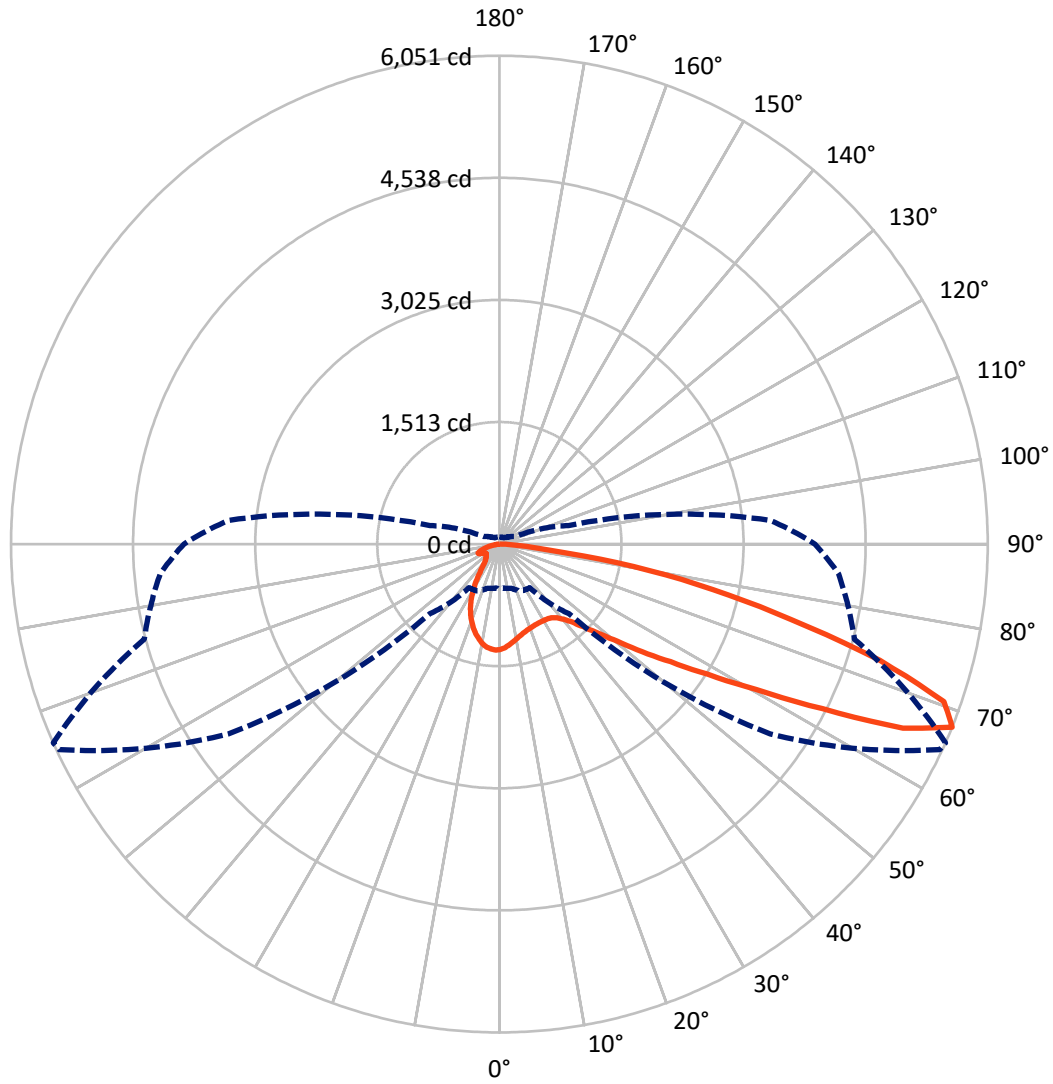
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1200.4	0.0	1200.4
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	4714.9	0.0	4714.9
	% Fixture	79.7	0.0	79.7
Total	Lumens	5915.3	0.0	5915.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.7	1.9
10°-20°	281.9	4.8
20°-30°	387.5	6.6
30°-40°	529.8	9.0
40°-50°	802.8	13.6
50°-60°	1248.0	21.1
60°-70°	1519.4	25.7
70°-80°	925.5	15.6
80°-90°	105.7	1.8
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°	5915.3	100.0
0°-180°	5915.3	100.0

Coefficient of Utilization



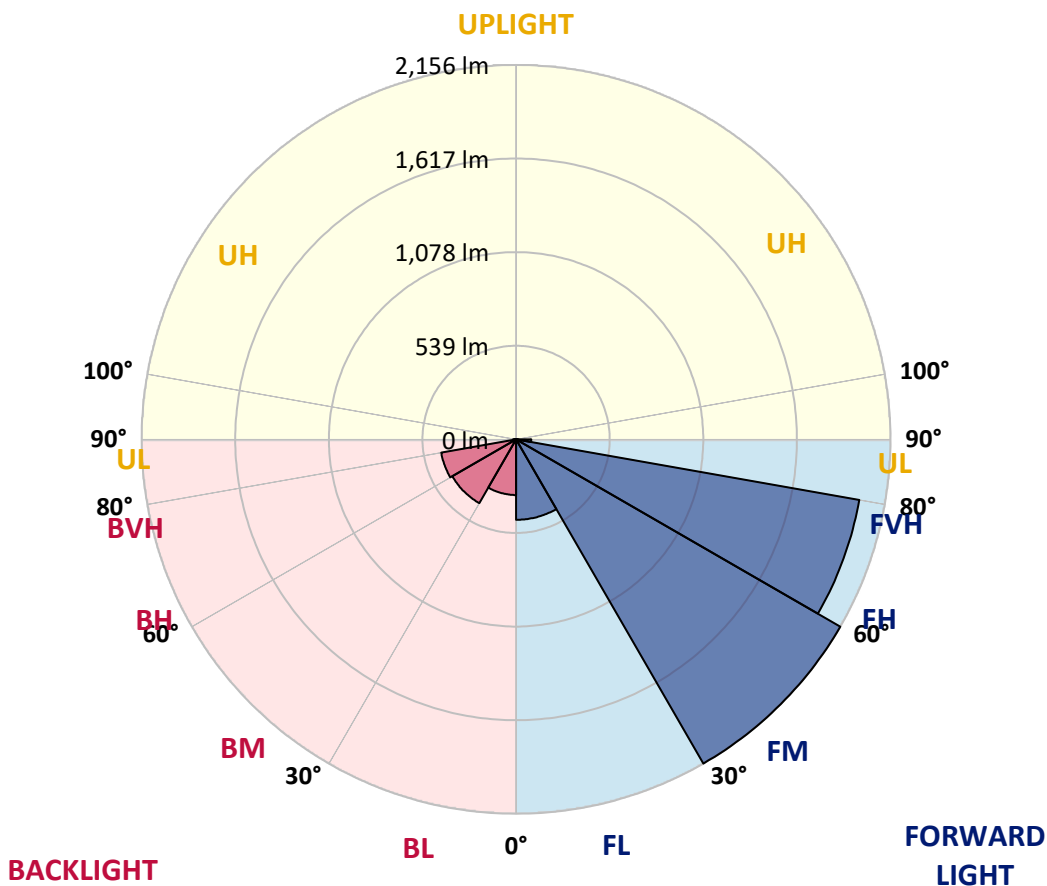
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	463.5	7.8			
FM (30°-60°)	2156.4	36.5			
FH (60°-80°)	2007.2	33.9			G2/5000
FVH (80°-90°)	87.9	1.5			G1/100
BL (0°-30°)	320.7	5.4	B1/500		
BM (30°-60°)	424.2	7.2	B1/1000		
BH (60°-80°)	437.7	7.4	B1/500		G1/500
BVH (80°-90°)	17.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1307.1	1307.1	1307.1	1307.1	1307.1	1307.1	1307.1	1307.1	1307.1	1307.1	1307.1
2.5°	1224.3	1228.6	1226.0	1242.4	1243.2	1264.0	1275.6	1285.5	1286.4	1299.3	1308.0
5°	1140.5	1143.1	1143.1	1158.7	1169.0	1196.6	1223.4	1251.9	1254.0	1285.1	1308.8
7.5°	1072.8	1075.4	1073.7	1094.4	1107.7	1138.4	1172.5	1216.1	1220.4	1270.4	1311.9
10°	1019.7	1018.8	1023.2	1042.2	1059.4	1096.1	1134.1	1183.7	1190.2	1253.6	1315.3
12.5°	983.5	984.3	986.9	1006.8	1025.3	1061.6	1100.8	1154.8	1161.7	1234.2	1313.6
15°	966.2	964.5	966.6	984.8	1002.5	1034.4	1074.9	1130.6	1137.5	1216.9	1314.0
17.5°	962.3	961.0	960.6	973.5	986.9	1016.7	1055.5	1112.1	1119.4	1205.7	1316.6
20°	974.4	972.7	967.9	973.5	979.1	1004.2	1041.7	1098.7	1106.9	1198.4	1321.8
22.5°	1007.6	1004.6	997.3	990.4	983.0	998.1	1033.1	1088.8	1097.0	1193.6	1327.0
25°	1058.1	1055.5	1047.8	1032.2	1005.5	1002.9	1031.4	1084.4	1092.6	1190.2	1329.1
27.5°	1127.6	1123.7	1115.9	1093.5	1049.9	1020.6	1037.8	1084.0	1091.8	1186.3	1327.0
30°	1210.0	1207.4	1203.1	1175.9	1117.7	1058.1	1052.5	1087.5	1093.5	1184.1	1322.6
32.5°	1293.7	1291.1	1294.6	1281.7	1210.0	1120.3	1084.4	1097.0	1101.3	1183.7	1318.8
35°	1367.5	1370.5	1395.6	1397.7	1327.4	1204.4	1134.9	1119.0	1119.8	1192.3	1320.5
37.5°	1444.8	1456.4	1489.2	1517.3	1458.6	1315.7	1210.0	1160.4	1159.5	1214.3	1331.3
40°	1547.0	1552.2	1594.1	1646.7	1610.0	1468.5	1316.6	1228.1	1222.1	1259.2	1360.2
42.5°	1646.7	1659.2	1726.1	1786.5	1774.5	1640.7	1450.8	1329.6	1318.8	1338.6	1419.7
45°	1773.6	1785.7	1860.8	1938.4	1960.5	1835.3	1622.6	1473.7	1462.9	1458.1	1528.9
47.5°	1900.5	1913.0	1980.3	2092.5	2169.7	2078.7	1846.1	1664.0	1646.3	1627.7	1693.8
50°	1985.9	2000.6	2064.9	2199.5	2380.8	2382.5	2111.1	1913.4	1891.0	1861.6	1925.9
52.5°	1982.9	1992.4	2053.7	2209.0	2532.7	2731.6	2465.8	2231.0	2212.9	2149.0	2205.1
55°	1827.1	1841.4	1903.1	2097.3	2549.1	3062.6	2987.1	2605.6	2573.2	2458.9	2520.6
57.5°	1514.2	1526.3	1588.5	1828.0	2403.6	3232.2	3649.0	3082.9	3038.4	2796.3	2867.5
60°	1143.1	1128.5	1157.8	1367.5	2055.8	3236.5	4233.3	3730.2	3655.9	3157.1	3216.6
62.5°	857.9	843.2	849.7	908.8	1393.9	2975.0	4566.5	4615.7	4493.1	3564.5	3552.8
65°	677.9	669.7	688.3	728.9	812.6	2265.5	4569.1	5573.2	5496.0	4036.6	3897.6
67.5°	552.4	547.2	566.2	641.3	659.0	1217.4	4097.0	6020.3	6050.5	4553.5	4217.4
70°	444.9	437.1	466.9	565.7	612.8	736.6	2934.9	5792.5	5841.2	4861.7	4127.2
72.5°	307.3	307.7	322.8	458.3	591.6	636.1	1660.1	4823.2	4929.0	4582.4	3628.3
75°	207.1	208.9	213.2	302.5	545.0	617.1	884.6	3651.6	3726.3	3787.6	2999.2
77.5°	125.1	126.0	135.9	183.0	375.9	576.1	599.4	2647.0	2705.7	2496.8	1859.0
80°	72.5	75.5	84.6	122.6	253.7	432.8	463.9	1623.0	1689.5	1109.9	590.8
82.5°	31.9	34.1	46.2	71.2	148.0	368.1	362.1	641.3	631.8	309.4	205.0
85°	5.6	6.9	9.9	22.4	54.4	194.2	280.9	283.1	266.3	117.4	85.0
87.5°	0.0	0.0	0.0	0.0	0.0	1.3	42.3	75.9	75.5	33.2	29.3
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°	1307.1	1307.1	1307.1	1307.1	1307.1	1307.1	1307.1	1307.1	1307.1	1307.1	1307.1
2.5°	1313.6	1301.9	1312.3	1313.6	1311.4	1309.7	1296.8	1285.5	1284.2	1272.2	1272.2
5°	1318.3	1307.5	1312.7	1302.8	1287.3	1271.3	1243.7	1224.7	1216.1	1200.5	1200.5
7.5°	1324.8	1313.6	1307.5	1282.9	1246.7	1211.7	1167.3	1130.2	1115.1	1093.1	1092.2
10°	1330.8	1316.6	1295.9	1248.0	1190.2	1134.5	1069.8	1017.1	981.3	955.0	955.0
12.5°	1330.4	1311.9	1270.9	1200.1	1120.3	1039.6	953.3	873.9	826.4	785.4	782.8
15°	1329.6	1304.1	1238.9	1144.4	1038.7	926.9	809.6	706.0	635.6	595.5	592.1
17.5°	1328.7	1294.2	1203.1	1081.0	939.4	787.1	632.2	520.0	461.3	436.7	437.6
20°	1328.7	1282.9	1164.7	1008.1	825.1	619.7	463.9	382.3	367.7	369.0	370.3
22.5°	1324.8	1269.1	1122.0	928.7	697.8	455.7	342.2	314.6	322.4	334.4	336.2
25°	1315.7	1246.3	1072.4	840.6	546.3	331.8	279.2	274.0	288.3	303.4	307.7
27.5°	1301.5	1219.9	1016.7	737.5	402.2	266.7	245.5	245.1	256.3	267.6	271.4
30°	1286.4	1190.6	958.0	622.7	291.3	232.2	224.0	224.0	229.6	236.5	235.6
32.5°	1268.7	1160.8	895.0	503.2	237.3	212.7	210.2	208.9	209.7	212.3	212.3
35°	1253.6	1134.5	830.3	376.7	212.7	202.0	199.4	196.3	195.1	193.3	194.2
37.5°	1248.0	1113.8	763.4	283.9	200.7	194.2	189.9	185.6	182.5	181.7	181.2
40°	1257.1	1105.2	696.5	233.9	192.0	186.0	181.2	175.6	173.0	173.0	173.0
42.5°	1292.4	1111.6	628.3	211.5	186.0	179.1	172.2	167.0	166.1	167.0	167.4
45°	1357.2	1136.7	557.5	200.2	180.8	172.2	164.0	160.1	160.1	161.0	161.0
47.5°	1472.8	1202.3	487.6	193.3	175.6	166.6	157.9	154.1	153.6	154.5	154.5
50°	1673.1	1320.5	424.6	188.6	171.8	162.3	153.6	148.4	147.2	146.7	146.7
52.5°	1925.5	1525.5	384.5	185.1	167.0	157.5	148.9	142.0	139.4	138.1	138.1
55°	2230.6	1798.6	384.5	182.5	161.0	151.9	142.0	135.1	131.2	129.5	129.5
57.5°	2576.3	2116.7	451.0	180.4	156.2	145.4	134.6	127.7	123.4	120.8	120.8
60°	2928.0	2452.8	615.4	177.4	151.9	137.2	126.4	120.0	114.4	111.3	110.9
62.5°	3292.6	2823.1	832.0	179.1	148.9	129.5	117.8	110.5	105.7	102.7	102.3
65°	3626.6	3175.7	1021.4	192.5	149.3	122.6	107.9	101.4	97.5	93.6	93.2
67.5°	3910.1	3370.3	888.5	219.7	158.4	114.4	98.0	91.5	88.0	85.4	85.0
70°	3711.6	3073.4	504.0	236.5	170.9	105.7	86.7	82.4	79.0	77.2	76.8
72.5°	3173.9	2602.1	337.0	208.9	155.8	94.5	76.4	72.9	70.3	68.2	67.8
75°	2571.1	2063.6	257.6	171.3	121.3	76.8	65.6	63.0	60.4	58.3	57.8
77.5°	1521.2	1192.3	189.9	135.5	85.4	60.0	54.4	52.2	49.6	47.9	47.5
80°	485.5	414.3	120.4	93.2	56.5	46.2	41.9	40.1	37.5	35.4	35.0
82.5°	185.1	160.1	63.9	47.5	37.5	31.5	28.0	26.3	24.6	22.4	22.0
85°	82.0	76.8	35.4	25.5	20.3	15.5	13.8	12.9	10.8	9.1	8.6
87.5°	28.9	28.9	15.1	7.3	4.3	2.2	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)