

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: P631762

Luminaire Tested: GWS-SA2B-735-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631762
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-SA2B-735-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6688.8 lumens
Efficiency: N/A
Efficacy: 144.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

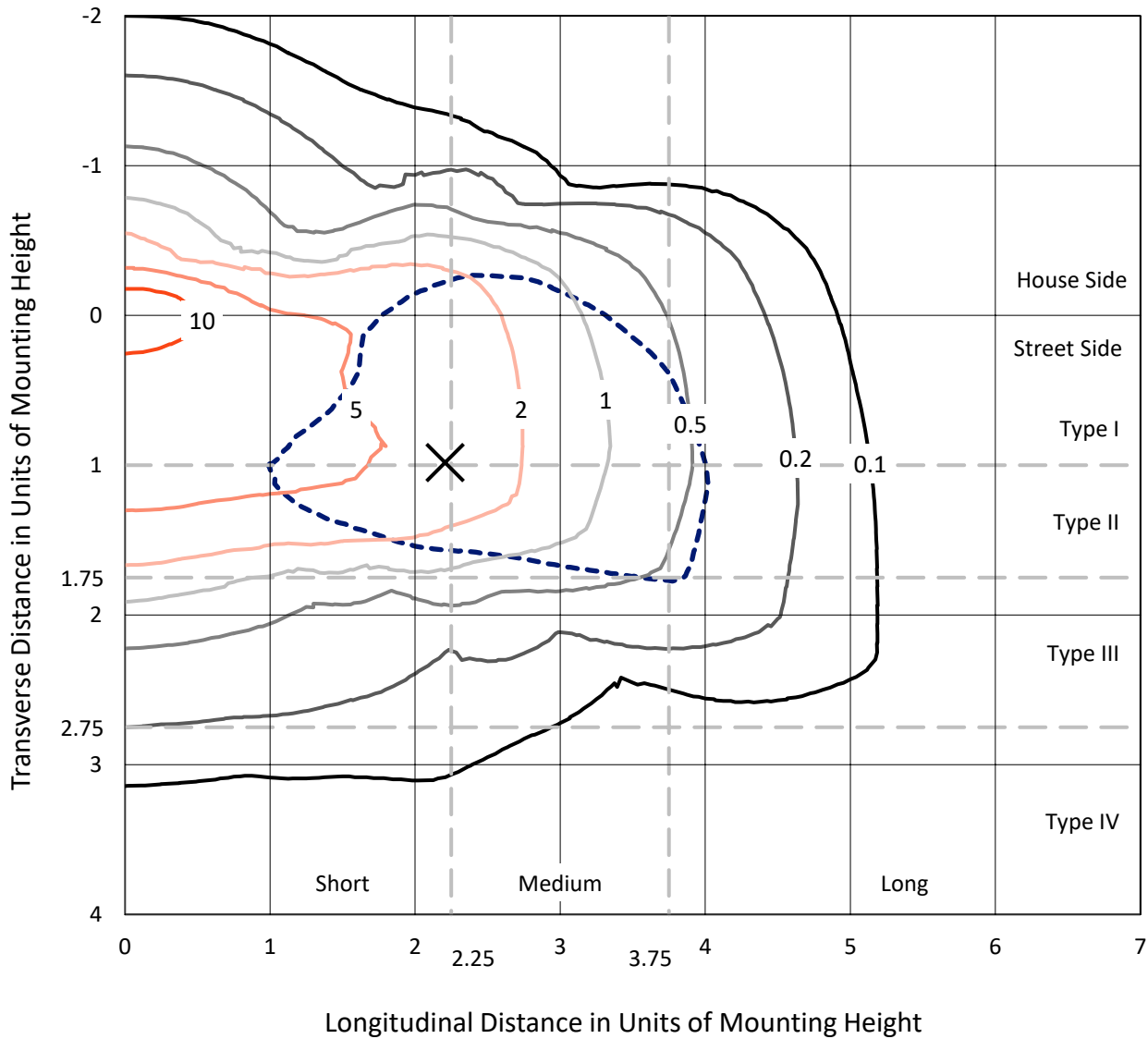
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

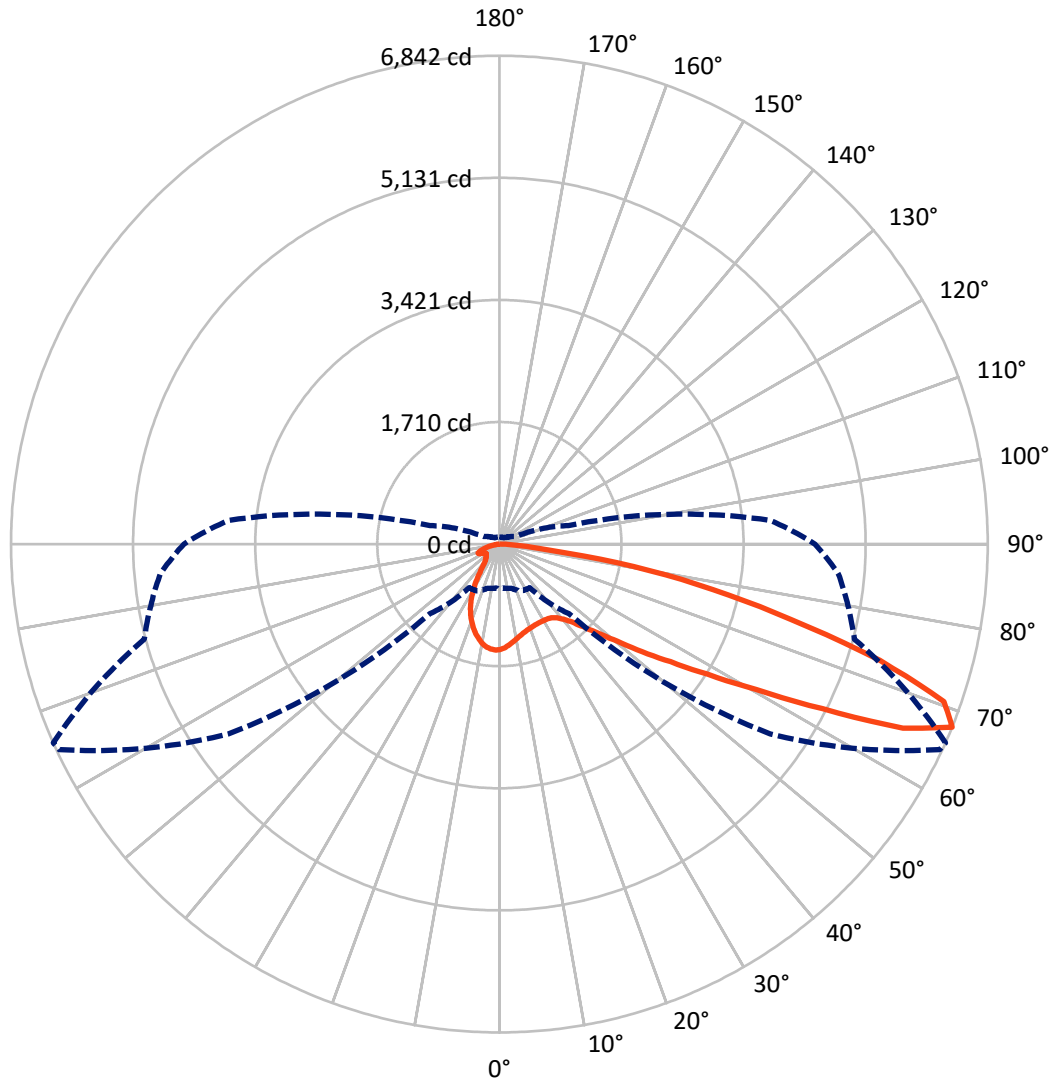
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.8 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	1357.3	0.0	1357.3
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	5331.5	0.0	5331.5
	% Fixture	79.7	0.0	79.7
Total	Lumens	6688.8	0.0	6688.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.7	1.9
10°-20°	318.8	4.8
20°-30°	438.2	6.6
30°-40°	599.1	9.0
40°-50°	907.8	13.6
50°-60°	1411.1	21.1
60°-70°	1718.0	25.7
70°-80°	1046.5	15.6
80°-90°	119.5	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°	6688.8	100.0
0°-180°	6688.8	100.0

Coefficient of Utilization



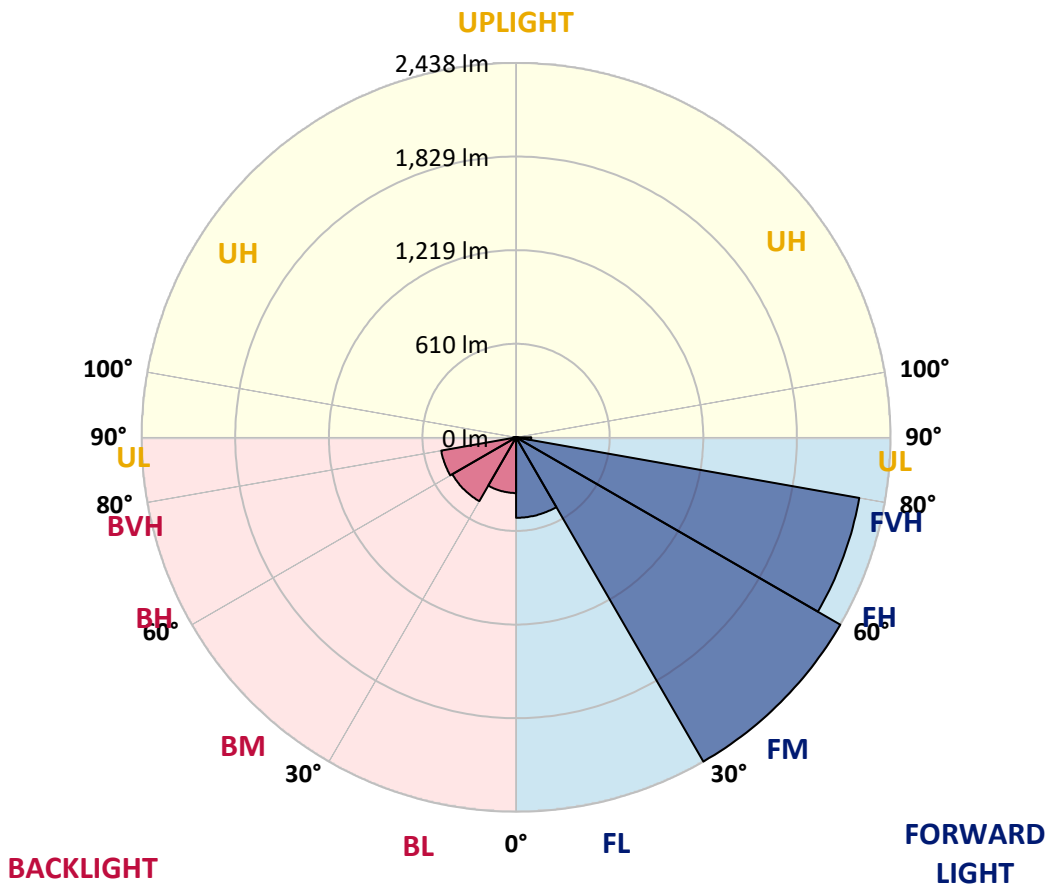
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	524.1	7.8			
FM (30°-60°)	2438.3	36.5			
FH (60°-80°)	2269.7	33.9			G2/5000
FVH (80°-90°)	99.4	1.5			G1/100
BL (0°-30°)	362.6	5.4	B1/500		
BM (30°-60°)	479.7	7.2	B1/1000		
BH (60°-80°)	494.9	7.4	B1/500		G1/500
BVH (80°-90°)	20.2	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°	1478.0	1478.0	1478.0	1478.0	1478.0	1478.0	1478.0	1478.0	1478.0	1478.0	1478.0
2.5°	1384.3	1389.2	1386.3	1404.8	1405.8	1429.2	1442.4	1453.6	1454.6	1469.3	1479.0
5°	1289.7	1292.6	1292.6	1310.2	1321.9	1353.1	1383.4	1415.6	1418.0	1453.1	1480.0
7.5°	1213.1	1216.0	1214.0	1237.5	1252.6	1287.2	1325.8	1375.1	1380.0	1436.6	1483.4
10°	1153.1	1152.1	1157.0	1178.4	1197.9	1239.4	1282.4	1338.5	1345.8	1417.5	1487.3
12.5°	1112.1	1113.0	1116.0	1138.4	1159.4	1200.4	1244.8	1305.8	1313.6	1395.6	1485.4
15°	1092.5	1090.6	1093.0	1113.5	1133.5	1169.6	1215.5	1278.5	1286.3	1376.1	1485.8
17.5°	1088.2	1086.7	1086.2	1100.8	1116.0	1149.6	1193.6	1257.5	1265.8	1363.4	1488.8
20°	1101.8	1099.9	1094.5	1100.8	1107.2	1135.5	1177.9	1242.3	1251.6	1355.1	1494.6
22.5°	1139.4	1136.0	1127.7	1119.9	1111.6	1128.7	1168.2	1231.1	1240.4	1349.7	1500.5
25°	1196.5	1193.6	1184.8	1167.2	1136.9	1134.0	1166.2	1226.2	1235.5	1345.8	1502.9
27.5°	1275.0	1270.7	1261.9	1236.5	1187.2	1154.0	1173.5	1225.8	1234.5	1341.4	1500.5
30°	1368.2	1365.3	1360.4	1329.7	1263.8	1196.5	1190.1	1229.7	1236.5	1339.0	1495.6
32.5°	1462.9	1460.0	1463.9	1449.2	1368.2	1266.7	1226.2	1240.4	1245.3	1338.5	1491.2
35°	1546.3	1549.8	1578.1	1580.5	1501.0	1361.9	1283.3	1265.3	1266.3	1348.2	1493.2
37.5°	1633.7	1646.9	1684.0	1715.7	1649.3	1487.8	1368.2	1312.1	1311.2	1373.1	1505.4
40°	1749.3	1755.2	1802.5	1862.1	1820.6	1660.5	1488.8	1388.7	1381.9	1423.9	1538.1
42.5°	1862.1	1876.2	1951.8	2020.2	2006.5	1855.2	1640.5	1503.4	1491.2	1513.7	1605.4
45°	2005.5	2019.2	2104.1	2191.9	2216.8	2075.3	1834.7	1666.4	1654.2	1648.8	1728.8
47.5°	2149.0	2163.1	2239.3	2366.1	2453.5	2350.5	2087.5	1881.6	1861.6	1840.6	1915.2
50°	2245.6	2262.2	2334.9	2487.1	2692.1	2694.0	2387.1	2163.6	2138.2	2105.1	2177.8
52.5°	2242.2	2252.9	2322.2	2497.9	2863.8	3088.8	2788.2	2522.8	2502.3	2430.0	2493.5
55°	2066.0	2082.1	2151.9	2371.5	2882.4	3463.1	3377.7	2946.3	2909.7	2780.4	2850.2
57.5°	1712.3	1725.9	1796.2	2067.0	2717.9	3654.8	4126.2	3486.0	3435.7	3162.0	3242.5
60°	1292.6	1276.0	1309.2	1546.3	2324.6	3659.7	4786.9	4217.9	4134.0	3569.9	3637.3
62.5°	970.1	953.5	960.8	1027.6	1576.1	3364.0	5163.6	5219.2	5080.7	4030.6	4017.4
65°	766.6	757.3	778.3	824.2	918.8	2561.8	5166.5	6302.0	6214.7	4564.4	4407.3
67.5°	624.6	618.7	640.2	725.1	745.1	1376.5	4632.7	6807.5	6841.7	5149.0	4768.8
70°	503.1	494.3	528.0	639.7	692.9	833.0	3318.6	6549.9	6605.0	5497.4	4666.9
72.5°	347.4	347.9	365.0	518.2	669.0	719.3	1877.2	5453.9	5573.5	5181.7	4102.8
75°	234.2	236.2	241.1	342.1	616.3	697.8	1000.3	4129.1	4213.5	4282.8	3391.3
77.5°	141.5	142.5	153.7	206.9	425.0	651.4	677.8	2993.2	3059.5	2823.3	2102.1
80°	82.0	85.4	95.6	138.6	286.9	489.4	524.6	1835.2	1910.4	1255.0	668.0
82.5°	36.1	38.5	52.2	80.5	167.4	416.2	409.4	725.1	714.4	349.9	231.8
85°	6.3	7.8	11.2	25.4	61.5	219.6	317.7	320.1	301.1	132.7	96.1
87.5°	0.0	0.0	0.0	0.0	0.0	1.5	47.8	85.9	85.4	37.6	33.2
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°	1478.0	1478.0	1478.0	1478.0	1478.0	1478.0	1478.0	1478.0	1478.0	1478.0	1478.0
2.5°	1485.4	1472.2	1483.9	1485.4	1482.9	1481.0	1466.3	1453.6	1452.2	1438.5	1438.5
5°	1490.7	1478.5	1484.4	1473.2	1455.6	1437.5	1406.3	1384.8	1375.1	1357.5	1357.5
7.5°	1498.0	1485.4	1478.5	1450.7	1409.7	1370.2	1319.9	1278.0	1260.9	1236.0	1235.0
10°	1504.9	1488.8	1465.3	1411.2	1345.8	1282.9	1209.7	1150.1	1109.6	1079.9	1079.9
12.5°	1504.4	1483.4	1437.0	1357.0	1266.7	1175.5	1077.9	988.1	934.4	888.1	885.2
15°	1503.4	1474.6	1400.9	1294.1	1174.5	1048.1	915.4	798.3	718.8	673.4	669.5
17.5°	1502.4	1463.4	1360.4	1222.3	1062.3	890.0	714.9	588.0	521.6	493.8	494.8
20°	1502.4	1450.7	1317.0	1139.9	933.0	700.7	524.6	432.3	415.7	417.2	418.7
22.5°	1498.0	1435.1	1268.7	1050.1	789.0	515.3	387.0	355.7	364.5	378.2	380.1
25°	1487.8	1409.2	1212.6	950.5	617.8	375.2	315.7	309.9	326.0	343.0	347.9
27.5°	1471.7	1379.5	1149.6	833.9	454.8	301.6	277.7	277.2	289.8	302.5	306.9
30°	1454.6	1346.3	1083.3	704.1	329.4	262.5	253.3	253.3	259.6	267.4	266.4
32.5°	1434.6	1312.6	1012.0	569.0	268.4	240.6	237.6	236.2	237.1	240.1	240.1
35°	1417.5	1282.9	938.8	426.0	240.6	228.4	225.4	222.0	220.6	218.6	219.6
37.5°	1411.2	1259.4	863.2	321.1	226.9	219.6	214.7	209.8	206.4	205.4	204.9
40°	1421.4	1249.7	787.6	264.5	217.1	210.3	204.9	198.6	195.7	195.7	195.7
42.5°	1461.4	1257.0	710.5	239.1	210.3	202.5	194.7	188.8	187.9	188.8	189.3
45°	1534.6	1285.3	630.4	226.4	204.5	194.7	185.4	181.0	181.0	182.0	182.0
47.5°	1665.4	1359.5	551.4	218.6	198.6	188.4	178.6	174.2	173.7	174.7	174.7
50°	1891.8	1493.2	480.2	213.2	194.2	183.5	173.7	167.9	166.4	165.9	165.9
52.5°	2177.3	1724.9	434.8	209.3	188.8	178.1	168.3	160.5	157.6	156.1	156.1
55°	2522.3	2033.8	434.8	206.4	182.0	171.8	160.5	152.7	148.3	146.4	146.4
57.5°	2913.1	2393.5	509.9	204.0	176.6	164.4	152.2	144.4	139.6	136.6	136.6
60°	3310.8	2773.6	695.8	200.6	171.8	155.2	143.0	135.7	129.3	125.9	125.4
62.5°	3723.1	3192.2	940.8	202.5	168.3	146.4	133.2	124.9	119.6	116.1	115.6
65°	4100.8	3590.9	1155.0	217.6	168.8	138.6	122.0	114.7	110.3	105.9	105.4
67.5°	4421.4	3811.0	1004.7	248.4	179.1	129.3	110.8	103.4	99.5	96.6	96.1
70°	4197.0	3475.3	569.9	267.4	193.2	119.6	98.1	93.2	89.3	87.3	86.9
72.5°	3589.0	2942.4	381.1	236.2	176.2	106.9	86.4	82.5	79.5	77.1	76.6
75°	2907.3	2333.4	291.3	193.7	137.1	86.9	74.2	71.2	68.3	65.9	65.4
77.5°	1720.1	1348.2	214.7	153.2	96.6	67.8	61.5	59.0	56.1	54.2	53.7
80°	549.0	468.4	136.1	105.4	63.9	52.2	47.3	45.4	42.5	40.0	39.5
82.5°	209.3	181.0	72.2	53.7	42.5	35.6	31.7	29.8	27.8	25.4	24.9
85°	92.7	86.9	40.0	28.8	22.9	17.6	15.6	14.6	12.2	10.2	9.8
87.5°	32.7	32.7	17.1	8.3	4.9	2.4	1.5	0.5	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)