

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: P631817

Luminaire Tested: GWS-SA2B-740-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631817
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-740-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6781.7 lumens
Efficiency: N/A
Efficacy: 146.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - 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

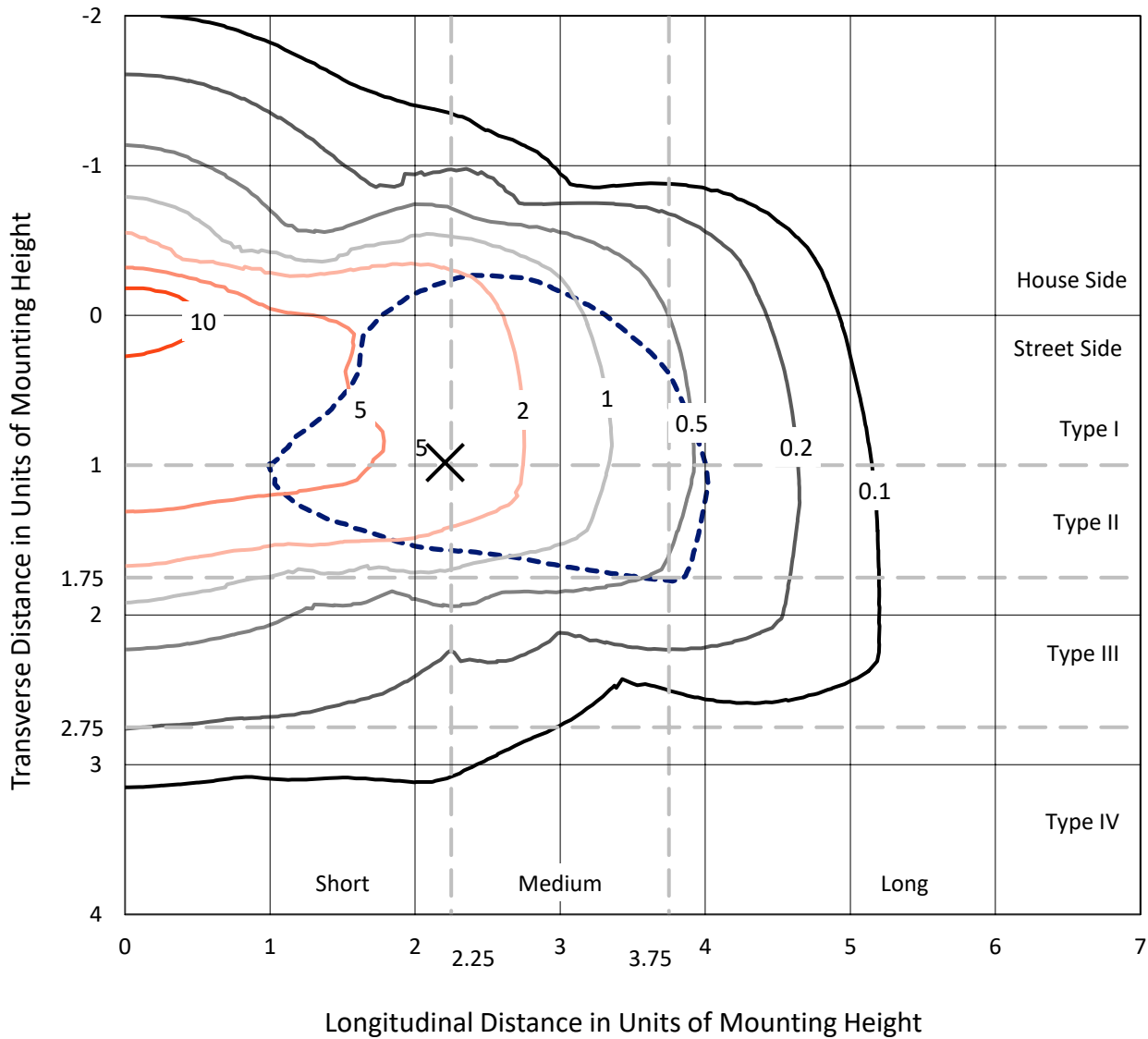


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Iso-Footcandle Lines of Horizontal Illumination

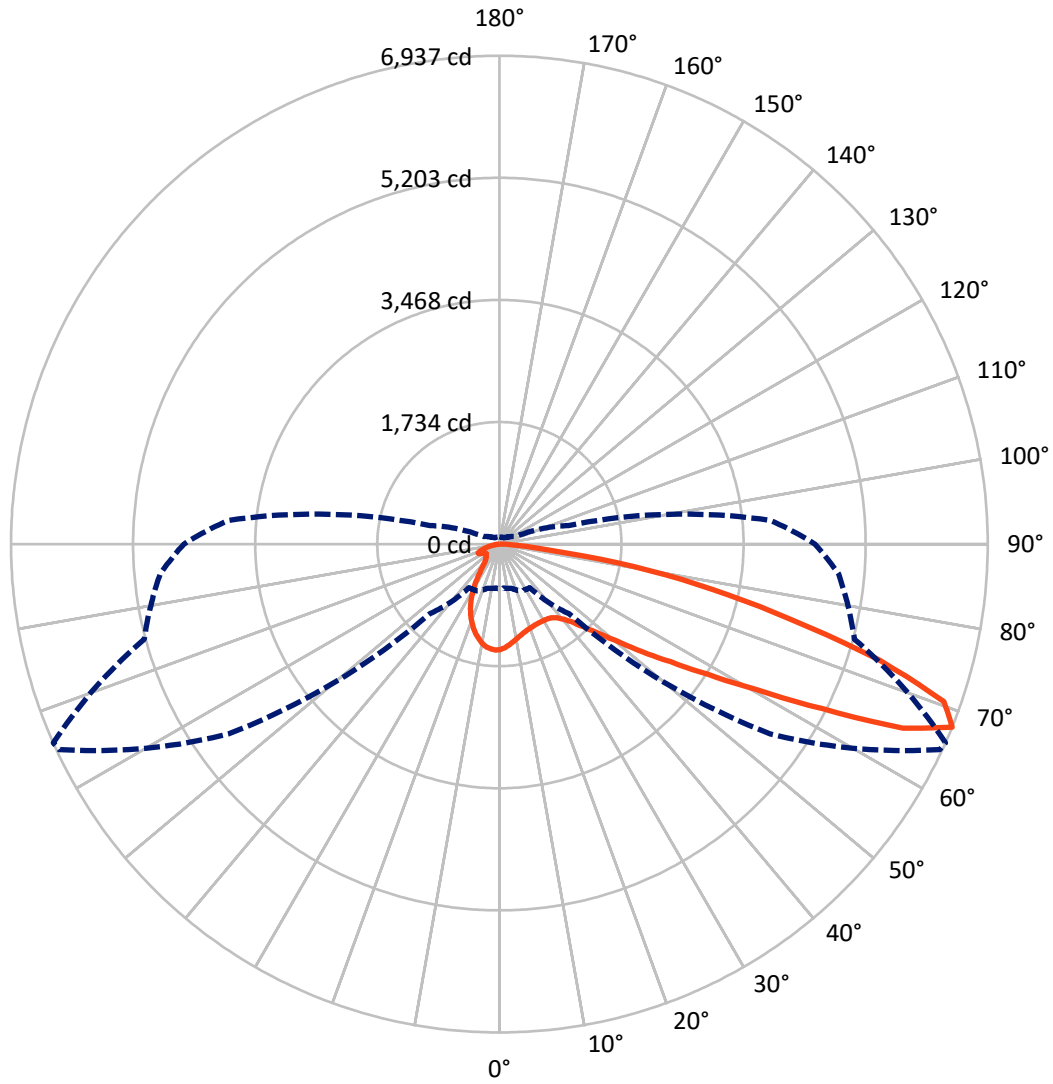
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15 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	1376.2	0.0	1376.2
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	5405.5	0.0	5405.5
	% Fixture	79.7	0.0	79.7
Total	Lumens	6781.7	0.0	6781.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.5	1.9
10°-20°	323.2	4.8
20°-30°	444.3	6.6
30°-40°	607.4	9.0
40°-50°	920.4	13.6
50°-60°	1430.7	21.1
60°-70°	1741.9	25.7
70°-80°	1061.1	15.6
80°-90°	121.2	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°	6781.7	100.0
0°-180°	6781.7	100.0

Coefficient of Utilization



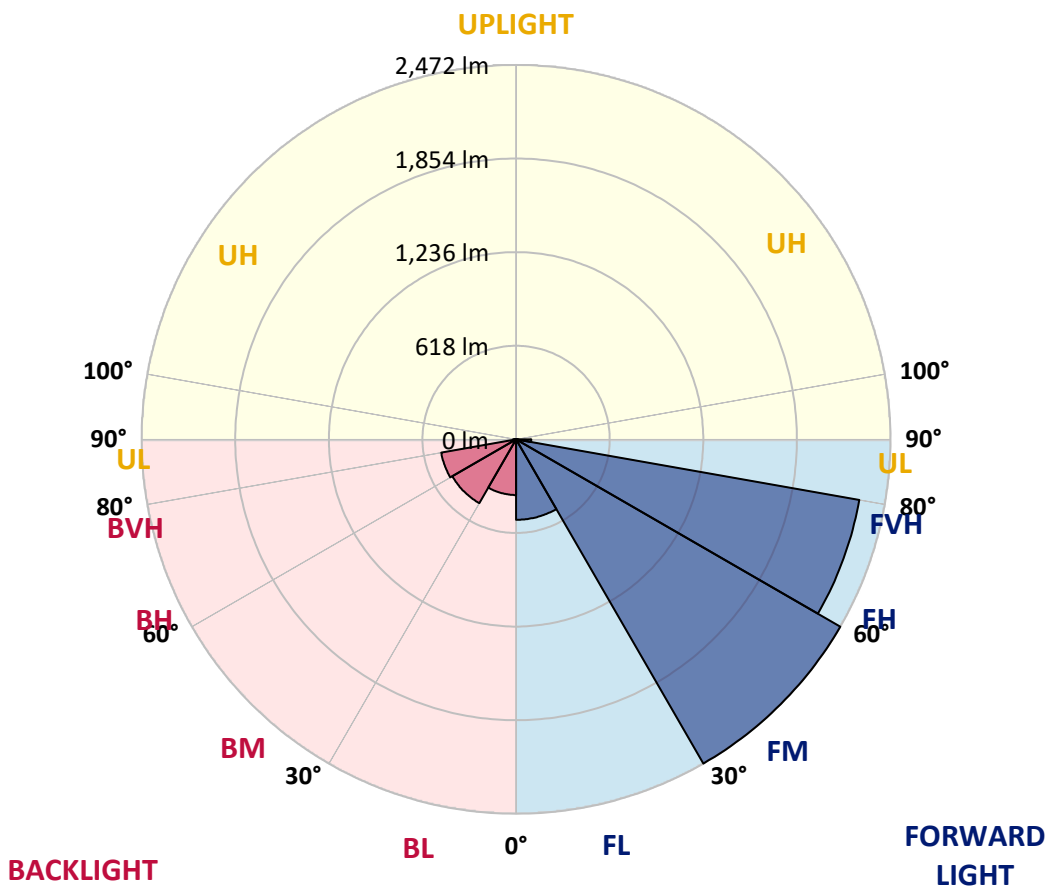
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	531.4	7.8			
FM (30°-60°)	2472.2	36.5			
FH (60°-80°)	2301.2	33.9			G2/5000
FVH (80°-90°)	100.8	1.5			G2/225
BL (0°-30°)	367.6	5.4	B1/500		
BM (30°-60°)	486.3	7.2	B1/1000		
BH (60°-80°)	501.8	7.4	B2/1000		G2/1000
BVH (80°-90°)	20.4	0.3			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1498.6	1498.6	1498.6	1498.6	1498.6	1498.6	1498.6	1498.6	1498.6	1498.6	1498.6
2.5°	1403.6	1408.5	1405.6	1424.4	1425.3	1449.1	1462.4	1473.8	1474.8	1489.7	1499.6
5°	1307.6	1310.6	1310.6	1328.4	1340.2	1371.9	1402.6	1435.2	1437.7	1473.3	1500.5
7.5°	1229.9	1232.9	1230.9	1254.7	1270.0	1305.1	1344.2	1394.2	1399.1	1456.5	1504.0
10°	1169.1	1168.1	1173.0	1194.8	1214.6	1256.6	1300.2	1357.1	1364.5	1437.2	1508.0
12.5°	1127.5	1128.5	1131.5	1154.2	1175.5	1217.1	1262.1	1323.9	1331.8	1415.0	1506.0
15°	1107.7	1105.7	1108.2	1129.0	1149.3	1185.9	1232.4	1296.2	1304.1	1395.2	1506.5
17.5°	1103.3	1101.8	1101.3	1116.1	1131.5	1165.6	1210.1	1274.9	1283.4	1382.3	1509.4
20°	1117.1	1115.1	1109.7	1116.1	1122.6	1151.3	1194.3	1259.6	1269.0	1373.9	1515.4
22.5°	1155.2	1151.8	1143.3	1135.4	1127.0	1144.3	1184.4	1248.2	1257.6	1368.4	1521.3
25°	1213.1	1210.1	1201.2	1183.4	1152.7	1149.8	1182.4	1243.3	1252.7	1364.5	1523.8
27.5°	1292.8	1288.3	1279.4	1253.7	1203.7	1170.1	1189.8	1242.8	1251.7	1360.0	1521.3
30°	1387.2	1384.3	1379.3	1348.2	1281.4	1213.1	1206.7	1246.7	1253.7	1357.6	1516.4
32.5°	1483.2	1480.3	1484.2	1469.4	1387.2	1284.3	1243.3	1257.6	1262.6	1357.1	1511.9
35°	1567.8	1571.3	1600.0	1602.5	1521.8	1380.8	1301.2	1282.9	1283.8	1367.0	1513.9
37.5°	1656.4	1669.7	1707.3	1739.5	1672.2	1508.5	1387.2	1330.4	1329.4	1392.2	1526.3
40°	1773.6	1779.6	1827.6	1887.9	1845.9	1683.6	1509.4	1408.0	1401.1	1443.6	1559.4
42.5°	1887.9	1902.3	1979.0	2048.2	2034.4	1881.0	1663.3	1524.3	1511.9	1534.7	1627.7
45°	2033.4	2047.2	2133.3	2222.4	2247.6	2104.1	1860.2	1689.5	1677.2	1671.7	1752.9
47.5°	2178.8	2193.2	2270.4	2399.0	2487.5	2383.2	2116.5	1907.7	1887.4	1866.2	1941.8
50°	2276.8	2293.6	2367.3	2521.7	2729.5	2731.5	2420.3	2193.7	2167.9	2134.3	2208.0
52.5°	2273.3	2284.2	2354.5	2532.6	2903.6	3131.7	2826.9	2557.8	2537.0	2463.8	2528.1
55°	2094.7	2111.0	2181.8	2404.4	2922.4	3511.2	3424.6	2987.2	2950.1	2819.0	2889.8
57.5°	1736.0	1749.9	1821.1	2095.7	2755.7	3705.6	4183.5	3534.4	3483.5	3205.9	3287.5
60°	1310.6	1293.7	1327.4	1567.8	2356.9	3710.5	4853.4	4276.5	4191.4	3619.5	3687.8
62.5°	983.5	966.7	974.1	1041.9	1598.0	3410.7	5235.3	5291.7	5151.2	4086.5	4073.2
65°	777.2	767.8	789.1	835.6	931.6	2597.4	5238.3	6389.5	6301.0	4627.8	4468.5
67.5°	633.3	627.3	649.1	735.2	755.5	1395.7	4697.0	6902.1	6936.7	5220.5	4835.1
70°	510.1	501.2	535.3	648.6	702.5	844.5	3364.7	6640.9	6696.8	5573.7	4731.7
72.5°	352.3	352.7	370.1	525.4	678.3	729.2	1903.3	5529.7	5650.9	5253.6	4159.8
75°	237.5	239.5	244.4	346.8	624.9	707.5	1014.2	4186.5	4272.1	4342.3	3438.4
77.5°	143.5	144.5	155.8	209.8	430.9	660.5	687.2	3034.7	3102.0	2862.6	2131.3
80°	83.1	86.6	97.0	140.5	290.9	496.2	531.8	1860.7	1936.9	1272.5	677.3
82.5°	36.6	39.1	52.9	81.6	169.7	422.0	415.1	735.2	724.3	354.7	235.0
85°	6.4	7.9	11.4	25.7	62.3	222.6	322.1	324.5	305.3	134.6	97.5
87.5°	0.0	0.0	0.0	0.0	0.0	1.5	48.5	87.1	86.6	38.1	33.6
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°	1498.6	1498.6	1498.6	1498.6	1498.6	1498.6	1498.6	1498.6	1498.6	1498.6	1498.6
2.5°	1506.0	1492.6	1504.5	1506.0	1503.5	1501.5	1486.7	1473.8	1472.3	1458.5	1458.5
5°	1511.4	1499.1	1505.0	1493.6	1475.8	1457.5	1425.8	1404.1	1394.2	1376.4	1376.4
7.5°	1518.8	1506.0	1499.1	1470.9	1429.3	1389.2	1338.3	1295.7	1278.4	1253.2	1252.2
10°	1525.8	1509.4	1485.7	1430.8	1364.5	1300.7	1226.5	1166.1	1125.0	1094.9	1094.9
12.5°	1525.3	1504.0	1457.0	1375.9	1284.3	1191.8	1092.9	1001.8	947.4	900.4	897.5
15°	1524.3	1495.1	1420.4	1312.0	1190.8	1062.7	928.1	809.4	728.7	682.7	678.8
17.5°	1523.3	1483.7	1379.3	1239.3	1077.0	902.4	724.8	596.2	528.9	500.7	501.7
20°	1523.3	1470.9	1335.3	1155.7	945.9	710.4	531.8	438.3	421.5	423.0	424.5
22.5°	1518.8	1455.0	1286.3	1064.7	800.0	522.4	392.3	360.7	369.6	383.4	385.4
25°	1508.5	1428.8	1229.4	963.8	626.3	380.5	320.1	314.2	330.5	347.8	352.7
27.5°	1492.1	1398.6	1165.6	845.5	461.1	305.7	281.5	281.0	293.9	306.7	311.2
30°	1474.8	1365.0	1098.3	713.9	333.9	266.2	256.8	256.8	263.2	271.1	270.1
32.5°	1454.5	1330.8	1026.1	576.9	272.1	243.9	240.9	239.5	240.4	243.4	243.4
35°	1437.2	1300.7	951.9	431.9	243.9	231.5	228.6	225.1	223.6	221.6	222.6
37.5°	1430.8	1276.9	875.2	325.5	230.1	222.6	217.7	212.7	209.3	208.3	207.8
40°	1441.2	1267.0	798.5	268.1	220.2	213.2	207.8	201.4	198.4	198.4	198.4
42.5°	1481.7	1274.4	720.3	242.4	213.2	205.3	197.4	191.5	190.5	191.5	192.0
45°	1556.0	1303.1	639.2	229.6	207.3	197.4	188.0	183.5	183.5	184.5	184.5
47.5°	1688.5	1378.3	559.1	221.6	201.4	191.0	181.1	176.6	176.1	177.1	177.1
50°	1918.1	1513.9	486.8	216.2	196.9	186.0	176.1	170.2	168.7	168.2	168.2
52.5°	2207.5	1748.9	440.8	212.2	191.5	180.6	170.7	162.8	159.8	158.3	158.3
55°	2557.3	2062.1	440.8	209.3	184.5	174.1	162.8	154.9	150.4	148.4	148.4
57.5°	2953.6	2426.7	517.0	206.8	179.1	166.7	154.4	146.4	141.5	138.5	138.5
60°	3356.8	2812.1	705.5	203.3	174.1	157.3	145.0	137.5	131.1	127.6	127.1
62.5°	3774.9	3236.6	953.9	205.3	170.7	148.4	135.1	126.7	121.2	117.7	117.3
65°	4157.8	3640.8	1171.0	220.7	171.2	140.5	123.7	116.3	111.8	107.4	106.9
67.5°	4482.8	3863.9	1018.7	251.8	181.6	131.1	112.3	104.9	100.9	98.0	97.5
70°	4255.2	3523.5	577.9	271.1	195.9	121.2	99.4	94.5	90.5	88.6	88.1
72.5°	3638.8	2983.3	386.4	239.5	178.6	108.3	87.6	83.6	80.6	78.2	77.7
75°	2947.7	2365.8	295.4	196.4	139.0	88.1	75.2	72.2	69.3	66.8	66.3
77.5°	1744.0	1367.0	217.7	155.3	98.0	68.8	62.3	59.9	56.9	54.9	54.4
80°	556.6	474.9	138.0	106.9	64.8	52.9	48.0	46.0	43.0	40.6	40.1
82.5°	212.2	183.5	73.2	54.4	43.0	36.1	32.2	30.2	28.2	25.7	25.2
85°	94.0	88.1	40.6	29.2	23.3	17.8	15.8	14.8	12.4	10.4	9.9
87.5°	33.1	33.1	17.3	8.4	4.9	2.5	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)