

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: P632842

Luminaire Tested: GWS-SA2D-740-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632842
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-740-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11576.1 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

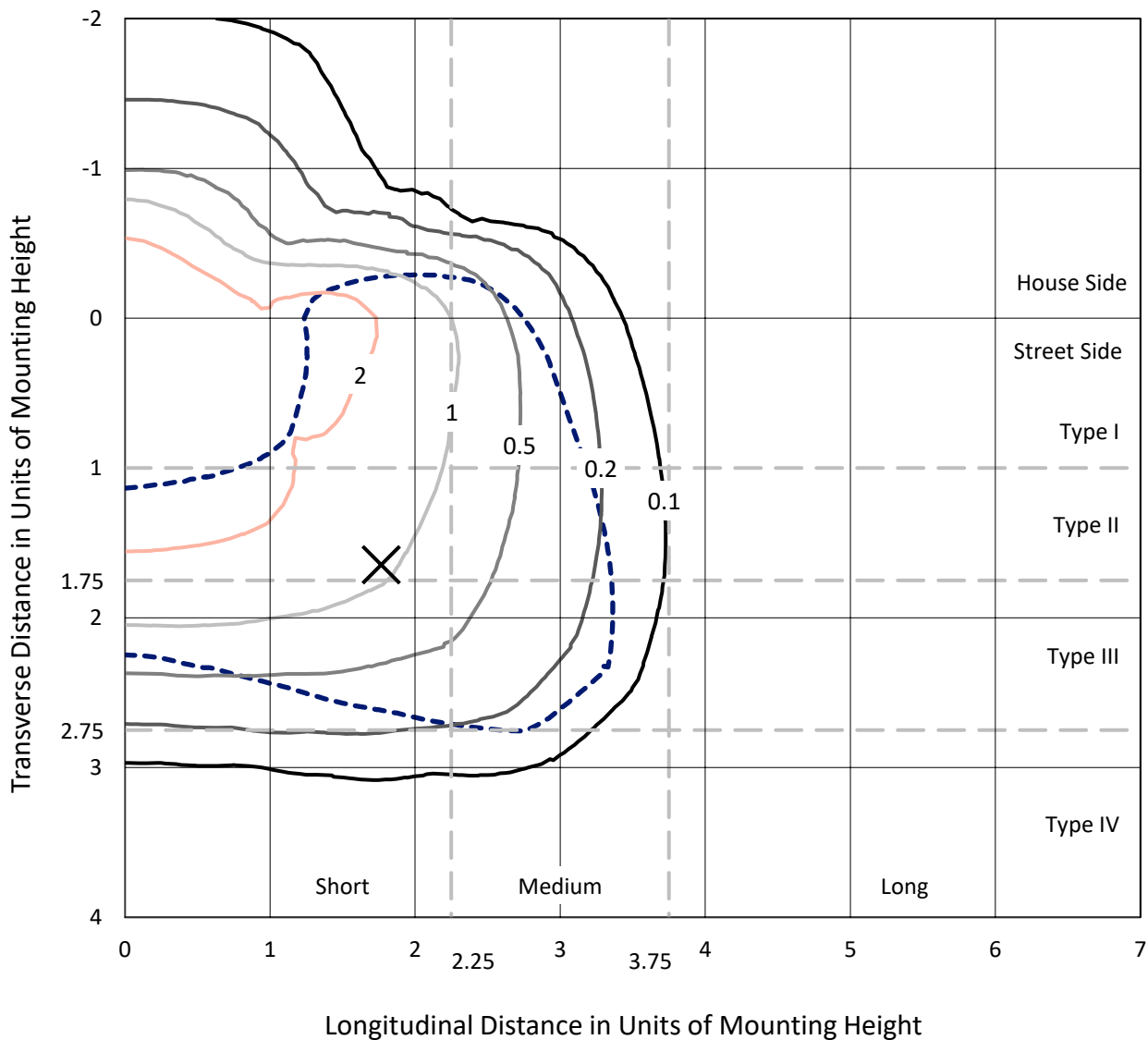
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

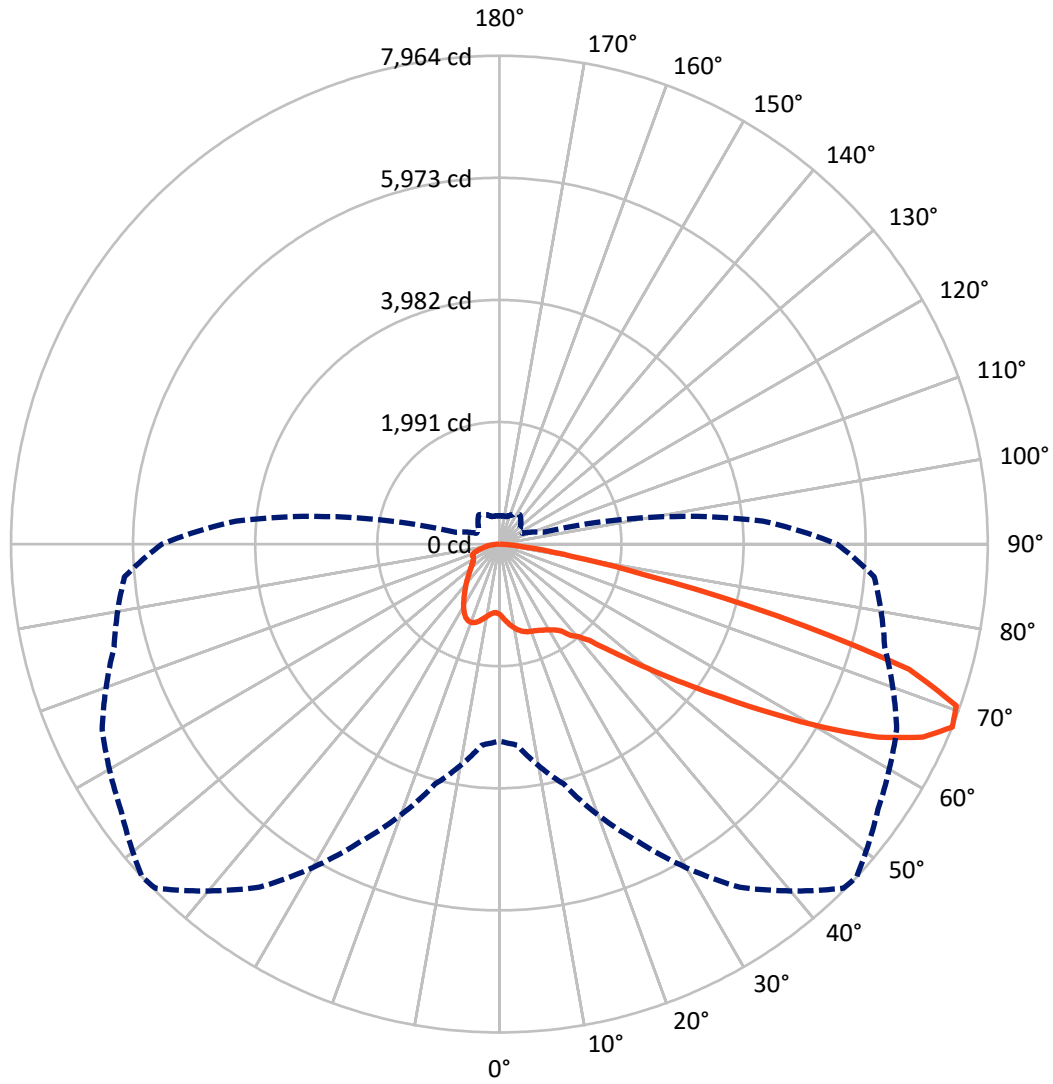
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2638.3	0.0	2638.3
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	8937.8	0.0	8937.8
	% Fixture	77.2	0.0	77.2
Total	Lumens	11576.1	0.0	11576.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.3	1.0
10°-20°	390.7	3.4
20°-30°	664.2	5.7
30°-40°	972.9	8.4
40°-50°	1482.4	12.8
50°-60°	2652.2	22.9
60°-70°	3539.1	30.6
70°-80°	1600.5	13.8
80°-90°	156.8	1.4
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°	11576.1	100.0
0°-180°	11576.1	100.0

Coefficient of Utilization



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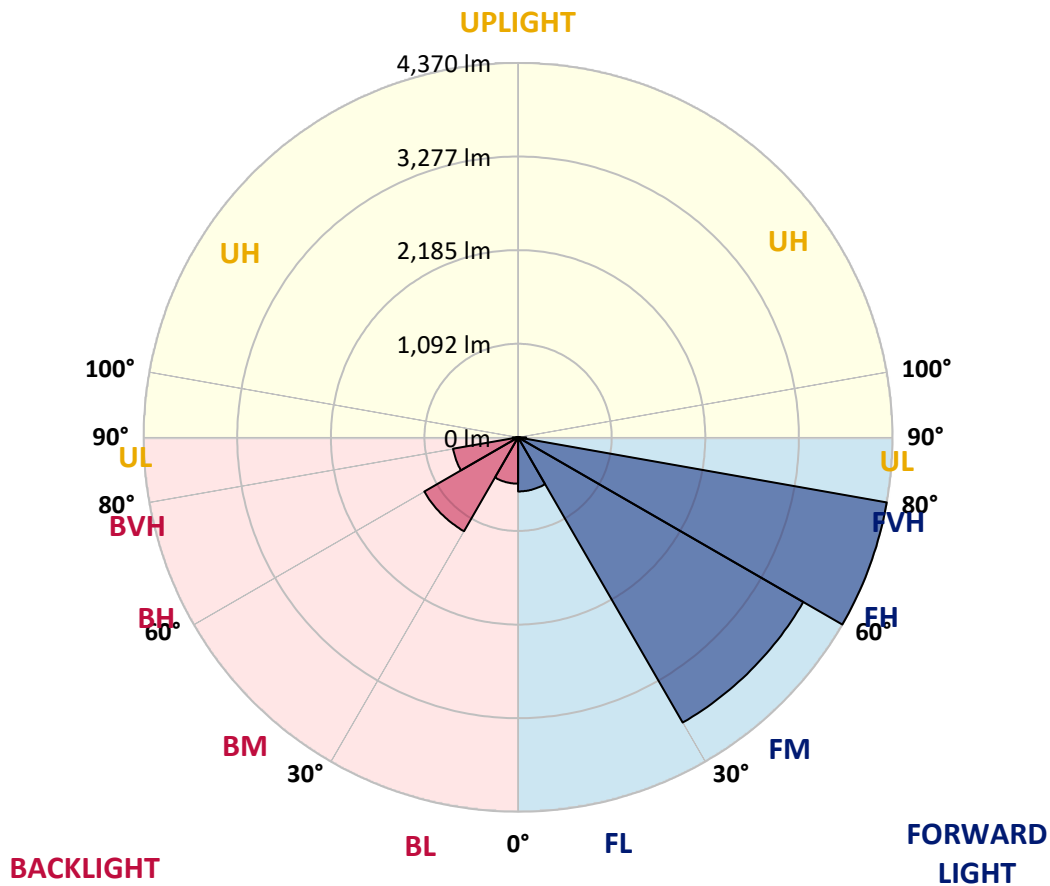
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	631.3	5.5			
FM (30°-60°)	3843.4	33.2			
FH (60°-80°)	4369.8	37.7			G2/5000
FVH (80°-90°)	93.3	0.8			G1/100
BL (0°-30°)	540.9	4.7	B2/1000		
BM (30°-60°)	1264.1	10.9	B2/2500		
BH (60°-80°)	769.8	6.6	B2/1000		G2/1000
BVH (80°-90°)	63.5	0.5			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6
2.5°	1223.7	1227.9	1227.1	1220.4	1216.2	1208.7	1209.5	1197.8	1180.2	1168.5	1155.1
5°	1331.7	1338.4	1330.0	1319.1	1302.4	1278.1	1275.6	1248.8	1215.4	1191.9	1167.6
7.5°	1425.4	1429.6	1419.6	1401.2	1376.9	1344.3	1338.4	1306.6	1264.7	1227.9	1192.8
10°	1498.3	1503.3	1489.9	1465.6	1433.8	1401.2	1397.0	1364.3	1320.0	1276.5	1232.1
12.5°	1560.2	1561.9	1547.7	1515.0	1480.7	1447.2	1443.0	1412.9	1371.9	1327.5	1279.0
15°	1596.2	1597.0	1579.5	1543.5	1510.8	1481.5	1479.0	1453.1	1415.4	1373.6	1321.7
17.5°	1593.7	1595.4	1582.8	1551.0	1522.5	1505.0	1502.5	1485.7	1456.4	1418.8	1366.9
20°	1562.7	1564.4	1556.0	1535.1	1520.0	1515.0	1515.8	1510.8	1493.2	1462.3	1409.5
22.5°	1538.4	1541.0	1533.4	1518.4	1516.7	1528.4	1530.9	1533.4	1525.1	1497.4	1446.4
25°	1550.2	1554.4	1542.6	1521.7	1525.1	1551.0	1556.0	1564.4	1557.7	1534.3	1489.9
27.5°	1631.4	1633.9	1603.7	1561.0	1551.0	1578.6	1586.2	1599.6	1594.5	1572.8	1538.4
30°	1819.7	1818.0	1753.6	1648.9	1607.1	1618.0	1623.8	1643.1	1644.7	1630.5	1597.9
32.5°	2085.0	2076.7	1977.0	1810.5	1689.1	1662.3	1669.0	1695.0	1714.2	1699.2	1654.8
35°	2365.4	2357.9	2248.2	2053.2	1840.6	1747.7	1740.2	1760.3	1789.6	1747.7	1684.1
37.5°	2632.4	2620.7	2508.6	2267.5	2027.3	1897.5	1886.6	1866.6	1849.0	1768.6	1720.1
40°	2928.7	2915.3	2817.4	2544.5	2233.2	2012.2	1984.6	1905.1	1889.2	1838.1	1813.8
42.5°	3245.1	3245.1	3163.9	2895.3	2481.8	2176.3	2140.3	2020.6	2037.3	2003.8	1975.4
45°	3561.5	3570.7	3506.3	3248.5	2814.1	2486.0	2428.2	2258.3	2298.5	2283.4	2269.2
47.5°	3831.1	3848.6	3836.1	3609.2	3220.9	2862.6	2774.7	2598.1	2684.3	2720.3	2760.5
50°	4121.5	4140.8	4128.2	4038.6	3697.1	3318.8	3240.1	3057.6	3205.8	3313.8	3445.2
52.5°	4552.6	4580.2	4475.6	4441.2	4275.5	3836.9	3766.6	3559.0	3827.7	4006.8	4299.8
55°	4916.7	4915.8	4879.0	4957.7	4896.6	4470.5	4392.7	4204.4	4547.5	4737.5	5166.1
57.5°	5085.7	5105.8	5232.2	5454.9	5577.1	5244.8	5170.3	4977.8	5320.1	5418.9	5881.8
60°	5172.8	5197.9	5442.3	5882.6	6211.5	6090.2	6060.9	5815.6	6008.1	5996.4	6485.3
62.5°	5050.6	5100.8	5493.4	6078.5	6664.4	6939.8	6930.5	6559.7	6593.2	6478.6	6859.4
65°	4489.8	4544.2	5160.2	5980.5	6923.0	7585.9	7588.4	7233.5	7042.7	6712.9	6796.6
67.5°	3210.8	3288.7	4050.4	5351.1	6831.8	7935.0	7964.3	7539.1	7148.2	6505.3	6137.0
70°	1750.2	1807.1	2403.9	3889.6	6009.8	7851.3	7905.7	7391.7	6682.8	5627.3	4724.2
72.5°	795.2	813.6	1118.3	2134.4	4105.6	6758.1	6985.8	6596.6	5488.4	4156.7	3004.1
75°	364.1	372.5	487.1	1021.2	2145.3	4522.4	4682.3	4913.3	3819.3	2624.9	1566.1
77.5°	228.5	231.0	277.1	467.1	1069.7	2257.4	2425.7	2925.4	2236.5	1299.1	654.6
80°	134.8	137.3	172.4	252.8	502.2	1032.9	1192.8	1156.8	1051.3	560.8	298.0
82.5°	67.8	70.3	99.6	144.0	273.7	411.0	483.8	486.3	391.7	303.8	168.2
85°	24.3	25.1	32.6	56.9	116.3	135.6	151.5	185.0	191.7	176.6	81.2
87.5°	0.0	0.0	0.8	1.7	3.3	13.4	14.2	26.8	56.1	62.8	32.6
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°	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6
2.5°	1150.9	1138.4	1134.2	1130.0	1123.3	1120.8	1115.8	1110.7	1110.7	1105.7	1103.2
5°	1156.8	1140.0	1129.1	1124.1	1119.9	1122.4	1122.4	1124.1	1130.0	1126.6	1128.3
7.5°	1177.7	1158.4	1143.4	1139.2	1139.2	1149.2	1155.9	1164.3	1175.2	1176.9	1176.9
10°	1214.5	1191.9	1176.0	1173.5	1177.7	1191.9	1202.0	1212.0	1225.4	1226.2	1227.9
12.5°	1254.7	1232.1	1216.2	1219.5	1223.7	1242.1	1253.0	1261.4	1274.8	1274.8	1273.9
15°	1296.5	1271.4	1258.0	1264.7	1277.3	1298.2	1299.9	1300.7	1307.4	1305.8	1304.9
17.5°	1340.1	1313.3	1303.2	1313.3	1326.7	1336.7	1328.4	1316.6	1314.1	1310.8	1309.1
20°	1382.8	1355.1	1351.0	1358.5	1362.7	1354.3	1328.4	1306.6	1296.5	1291.5	1289.9
22.5°	1419.6	1396.2	1393.6	1393.6	1372.7	1343.4	1304.9	1275.6	1262.2	1255.5	1253.9
25°	1463.1	1441.4	1437.2	1414.6	1361.0	1307.4	1255.5	1228.7	1217.9	1214.5	1215.4
27.5°	1514.2	1499.1	1485.7	1421.3	1327.5	1243.8	1185.2	1173.5	1169.3	1173.5	1176.0
30°	1577.0	1561.9	1531.8	1412.9	1273.9	1161.0	1104.9	1104.0	1116.6	1127.5	1129.1
32.5°	1628.0	1621.3	1571.9	1386.1	1198.6	1069.7	1022.0	1025.4	1048.0	1063.0	1065.5
35°	1668.2	1679.1	1605.4	1341.7	1109.1	983.5	945.8	947.5	960.1	981.0	981.8
37.5°	1725.1	1761.9	1635.5	1273.9	1006.1	909.0	874.7	862.1	860.5	866.3	868.0
40°	1839.8	1895.0	1657.3	1175.2	906.5	842.0	803.5	779.3	758.3	742.4	737.4
42.5°	2013.0	2076.7	1669.9	1055.5	817.8	775.9	732.4	701.4	664.6	631.1	619.4
45°	2331.1	2352.0	1669.9	928.3	739.1	714.0	670.5	633.6	586.8	547.4	539.0
47.5°	2840.0	2773.1	1671.5	805.2	669.6	659.6	621.9	580.1	528.2	495.5	490.5
50°	3606.7	3371.5	1705.9	703.1	611.9	613.5	585.9	539.9	493.0	468.7	464.5
52.5°	4475.6	4108.9	1797.9	627.8	563.3	575.9	560.8	516.4	474.6	453.7	449.5
55°	5292.5	4786.9	1876.6	574.2	522.3	544.1	543.2	502.2	464.5	443.6	441.1
57.5°	5987.2	5251.5	1864.9	530.7	487.1	514.8	527.3	493.0	457.9	440.3	437.8
60°	6419.1	5497.6	1698.3	490.5	460.4	493.8	518.1	490.5	461.2	457.0	457.9
62.5°	6606.6	5452.4	1378.6	460.4	442.8	483.8	528.2	508.1	492.2	502.2	508.1
65°	6315.3	5064.0	1014.5	437.8	426.0	486.3	551.6	535.7	492.2	498.9	501.4
67.5°	5506.8	4310.7	733.2	415.2	405.1	493.8	585.1	531.5	463.7	463.7	458.7
70°	3968.3	3100.3	532.3	392.6	384.2	483.0	586.8	503.1	431.1	428.6	416.0
72.5°	2388.0	1828.9	415.2	367.5	352.4	428.6	549.9	469.6	399.3	378.3	363.3
75°	1240.5	916.5	348.2	339.8	302.2	363.3	503.1	417.7	341.5	323.1	314.7
77.5°	531.5	428.6	298.8	303.0	251.1	305.5	406.0	361.6	303.0	279.6	272.0
80°	262.0	243.6	236.0	242.7	200.9	236.0	349.9	316.4	257.0	230.2	219.3
82.5°	149.8	142.3	169.9	172.4	143.1	197.5	295.5	267.8	212.6	183.3	165.7
85°	69.5	74.5	103.0	103.8	88.7	135.6	193.4	150.7	113.0	93.7	89.6
87.5°	27.6	32.6	45.2	44.4	25.9	25.1	16.7	9.2	7.5	6.7	5.9
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)