

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: P632290

Luminaire Tested: GWS-SA2C-735-U-T4FT-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632290  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2C-735-U-T4FT-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

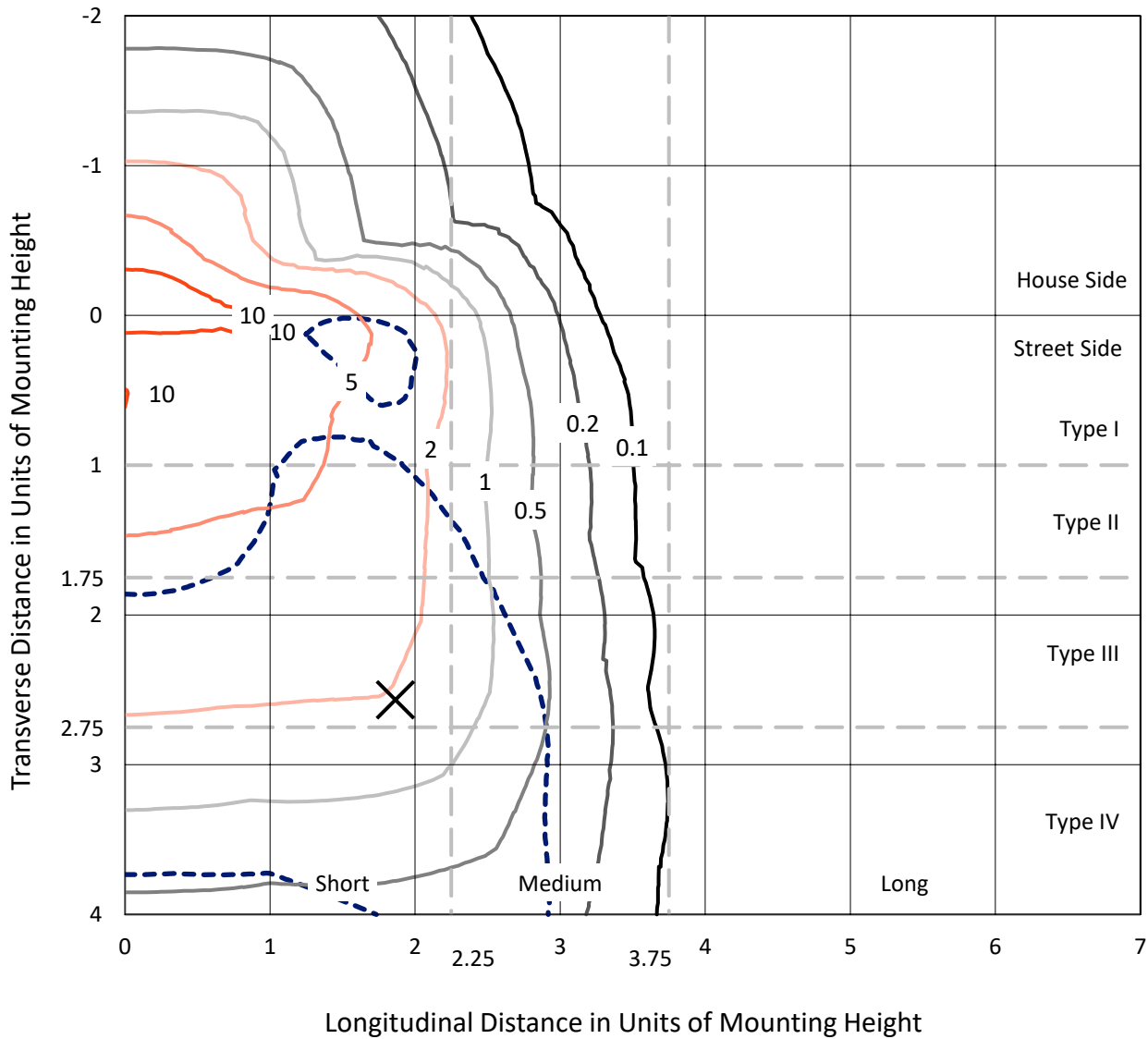
Lumens per Lamp: N/A  
Luminaire Lumens: 8817.3 lumens  
Efficiency: N/A  
Efficacy: 139.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

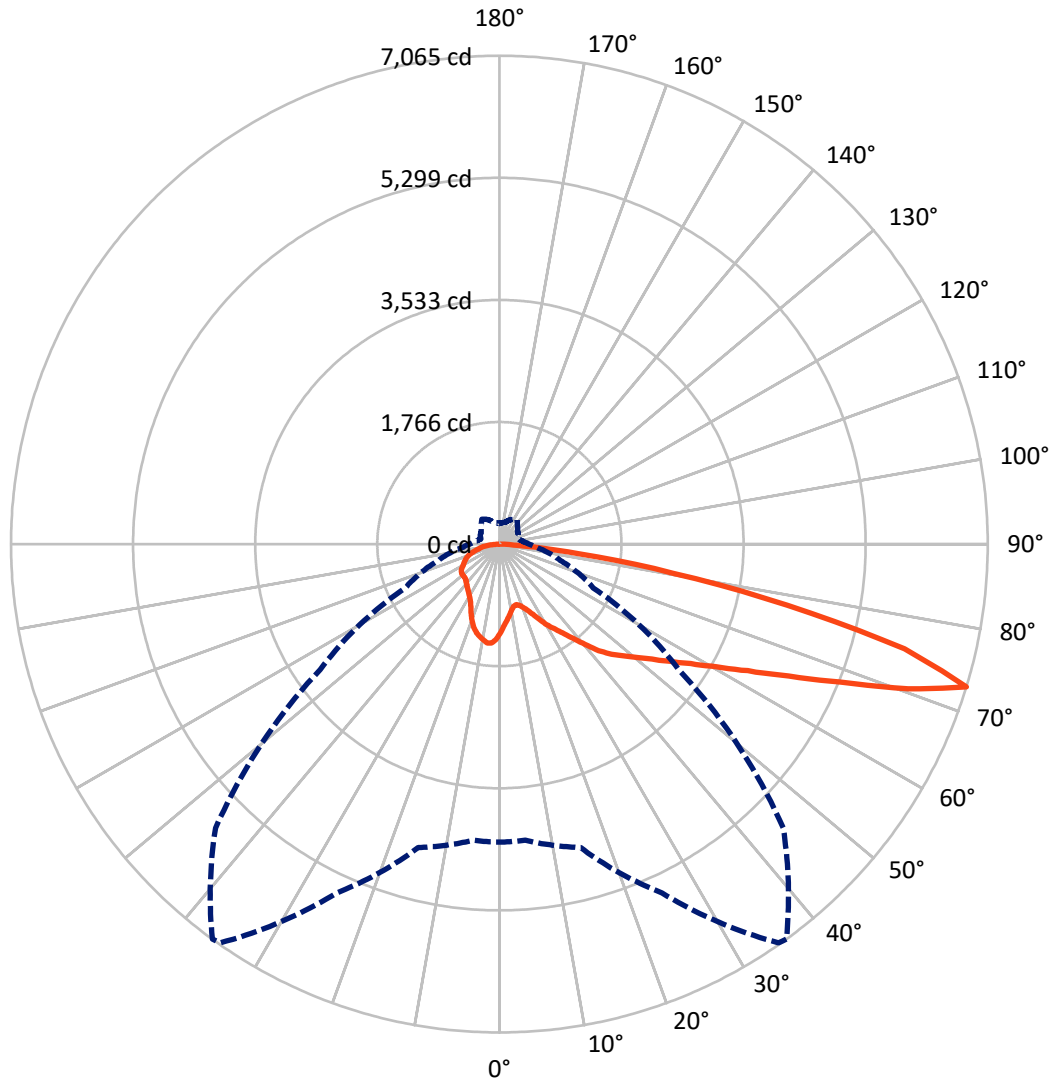
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2032.8	0.0	2032.8
	% Fixture	23.1	0.0	23.1
<b>Street Side</b>	Lumens	6784.5	0.0	6784.5
	% Fixture	76.9	0.0	76.9
<b>Total</b>	Lumens	8817.3	0.0	8817.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.6	1.4
10°-20°	340.3	3.9
20°-30°	563.6	6.4
30°-40°	844.1	9.6
40°-50°	1231.4	14.0
50°-60°	1752.7	19.9
60°-70°	2214.4	25.1
70°-80°	1577.9	17.9
80°-90°	172.3	2.0
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°	8817.3	100.0
0°-180°	8817.3	100.0

**Coefficient of Utilization**



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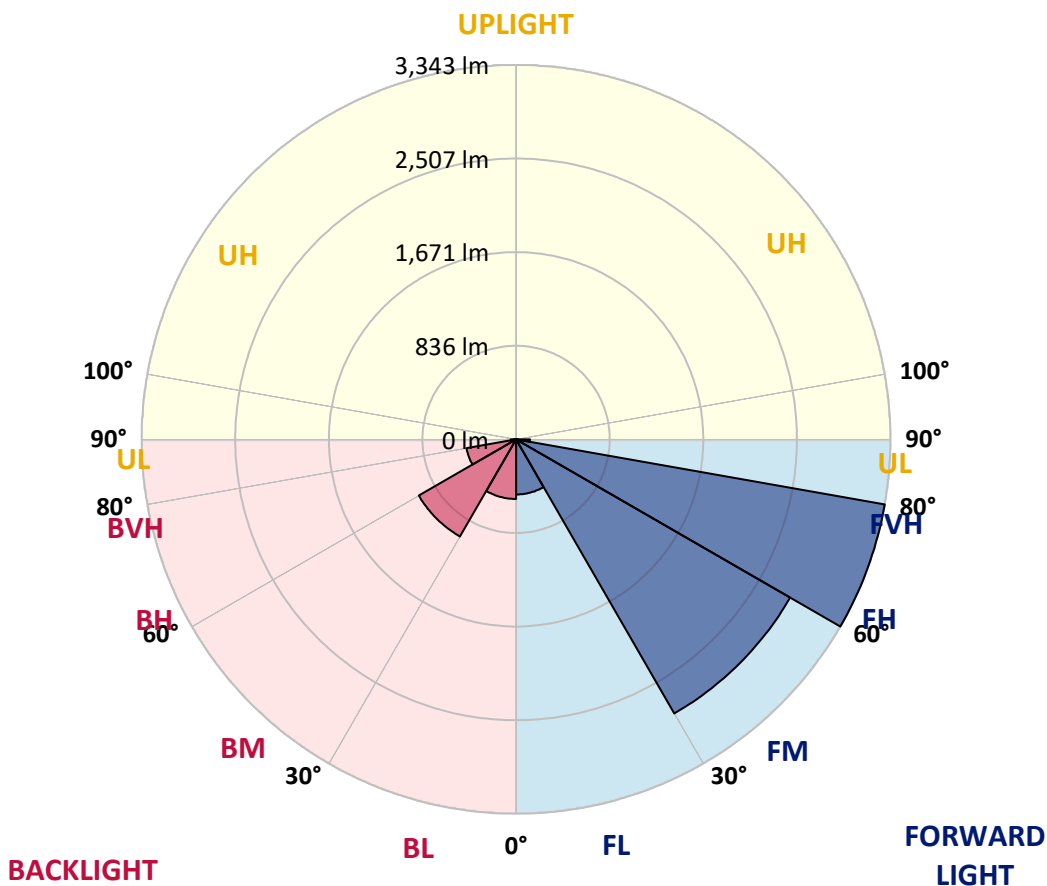
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	492.2	5.6			
FM (30°-60°)	2825.7	32.0			
FH (60°-80°)	3342.9	37.9			G2/5000
FVH (80°-90°)	123.6	1.4			G2/225
BL (0°-30°)	532.3	6.0	B2/1000		
BM (30°-60°)	1002.4	11.4	B2/2500		
BH (60°-80°)	449.4	5.1	B1/500		G1/500
BVH (80°-90°)	48.6	0.6			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5
2.5°	1177.2	1175.3	1171.4	1183.1	1194.9	1193.6	1210.0	1225.7	1242.7	1260.3	1283.9
5°	1083.0	1081.7	1078.4	1096.1	1113.8	1113.1	1139.9	1165.5	1200.1	1238.1	1285.2
7.5°	988.8	985.5	990.1	1012.3	1037.2	1039.8	1076.5	1118.3	1168.7	1225.7	1292.4
10°	905.7	905.0	907.0	931.8	969.1	971.8	1018.9	1077.1	1143.9	1219.8	1308.8
12.5°	884.1	882.8	877.5	890.0	918.1	922.0	973.7	1045.1	1126.9	1223.0	1331.0
15°	919.4	916.1	897.8	891.9	905.7	908.9	952.8	1026.1	1117.0	1228.9	1359.2
17.5°	980.3	978.3	943.6	919.4	928.6	931.2	963.9	1022.8	1114.4	1240.7	1393.8
20°	1069.3	1060.8	1006.4	969.8	969.8	973.7	993.4	1037.2	1117.7	1255.1	1433.1
22.5°	1187.1	1170.0	1093.5	1043.7	1030.7	1035.9	1044.4	1073.2	1131.4	1279.3	1482.2
25°	1319.2	1303.5	1212.6	1142.6	1124.2	1126.2	1119.0	1124.2	1161.5	1312.7	1543.0
27.5°	1459.9	1449.5	1352.6	1263.6	1234.8	1234.8	1209.3	1196.9	1203.4	1350.7	1611.1
30°	1585.6	1571.2	1489.4	1391.9	1353.9	1353.9	1305.5	1278.7	1263.0	1397.1	1702.1
32.5°	1651.7	1643.2	1588.9	1514.3	1467.8	1460.6	1418.7	1387.3	1350.7	1465.8	1825.1
35°	1738.1	1736.1	1703.4	1645.1	1586.2	1575.8	1547.0	1522.1	1458.6	1551.6	1988.7
37.5°	1846.7	1843.4	1838.2	1803.5	1732.8	1730.9	1705.3	1675.2	1592.8	1675.2	2187.0
40°	1968.4	1962.5	1956.0	1955.3	1912.8	1905.6	1903.6	1869.6	1754.4	1824.4	2393.7
42.5°	2135.9	2115.6	2054.1	2081.6	2113.0	2106.5	2131.3	2080.3	1956.0	2001.8	2589.4
45°	2342.1	2292.3	2170.6	2178.5	2257.6	2270.7	2357.1	2344.7	2177.8	2206.6	2795.5
47.5°	2465.7	2422.5	2309.3	2302.8	2401.6	2418.0	2605.8	2629.3	2416.7	2453.3	3050.1
50°	2567.2	2537.1	2444.1	2453.3	2558.0	2574.4	2852.5	2902.9	2641.8	2705.9	3345.9
52.5°	2689.5	2646.3	2574.4	2617.5	2745.8	2765.4	3126.7	3181.0	2844.6	2983.4	3652.1
55°	2758.2	2740.6	2741.9	2808.0	2969.0	2995.8	3413.9	3404.8	3030.5	3220.9	3882.5
57.5°	2916.6	2910.1	2970.3	2995.1	3229.4	3264.1	3701.2	3622.7	3199.3	3404.8	3993.1
60°	3196.0	3179.7	3232.0	3270.0	3551.4	3600.4	4021.9	3836.0	3313.8	3541.5	3955.8
62.5°	3588.7	3568.4	3570.3	3630.5	3982.6	4034.3	4378.5	4014.0	3349.2	3562.5	3719.5
65°	4076.8	4047.4	4014.0	4095.8	4555.2	4598.4	4766.6	4143.6	3264.7	3360.9	3226.1
67.5°	4591.8	4567.6	4528.4	4699.8	5296.6	5322.8	5201.7	4132.5	2997.1	2821.7	2262.9
70°	4621.9	4627.8	4813.7	5434.0	6264.4	6271.0	5613.3	3908.7	2427.1	1829.0	1127.5
72.5°	4311.8	4301.9	4544.1	5568.2	7043.2	7065.4	5807.7	3166.6	1499.9	912.2	528.7
75°	3502.3	3519.3	3773.9	4871.9	6036.7	6056.4	4734.5	1867.0	712.6	446.3	338.3
77.5°	1507.7	1602.6	2104.5	3432.3	4323.5	4262.7	2440.2	756.5	380.2	318.0	259.1
80°	435.2	472.5	749.9	1632.0	2590.7	2544.9	965.9	283.3	265.0	238.9	185.8
82.5°	140.7	155.7	274.8	649.8	1160.9	1159.6	366.5	167.5	173.4	162.3	119.8
85°	39.3	45.2	84.4	197.0	359.3	352.1	106.0	79.2	92.3	93.6	59.5
87.5°	0.0	0.0	0.7	1.3	1.3	1.3	2.6	11.8	26.8	34.0	24.2
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°	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5
2.5°	1298.3	1296.3	1323.2	1344.1	1363.7	1376.8	1380.8	1383.4	1388.6	1391.2	1388.6
5°	1307.5	1317.3	1361.8	1394.5	1420.7	1436.4	1437.0	1435.7	1439.7	1436.4	1434.4
7.5°	1327.1	1346.1	1402.4	1437.0	1454.0	1454.7	1439.0	1420.7	1411.5	1403.7	1401.0
10°	1353.3	1381.4	1442.9	1465.8	1460.6	1436.4	1401.7	1372.9	1356.5	1344.8	1342.1
12.5°	1389.3	1420.7	1478.9	1478.3	1445.5	1402.4	1361.8	1327.1	1303.5	1289.8	1285.2
15°	1423.3	1463.2	1505.1	1474.3	1422.6	1370.3	1317.9	1271.5	1240.1	1218.5	1214.5
17.5°	1465.2	1507.7	1524.1	1461.9	1393.8	1326.4	1256.4	1195.6	1153.0	1127.5	1125.5
20°	1513.6	1551.6	1533.2	1440.3	1356.5	1268.2	1173.3	1105.3	1059.5	1034.6	1036.5
22.5°	1569.9	1597.4	1535.8	1410.9	1304.8	1185.7	1079.7	1014.3	983.5	970.5	971.1
25°	1630.1	1647.7	1531.3	1370.9	1225.7	1085.0	983.5	953.4	950.8	947.6	948.9
27.5°	1701.4	1697.5	1517.5	1314.7	1119.0	967.8	916.1	924.0	934.5	933.2	934.5
30°	1796.9	1759.6	1499.9	1236.8	992.1	869.7	876.2	898.5	912.2	913.5	917.5
32.5°	1906.2	1828.4	1471.7	1130.8	871.0	814.7	838.9	865.8	882.1	885.4	890.6
35°	2036.5	1906.9	1422.0	998.6	784.0	782.0	804.2	822.6	840.2	841.5	841.5
37.5°	2186.3	1985.4	1342.8	852.7	730.3	753.9	774.8	778.7	783.3	779.4	781.3
40°	2323.7	2061.3	1230.2	719.8	686.5	729.0	746.7	733.6	719.2	709.4	711.3
42.5°	2438.9	2113.0	1081.0	626.9	642.0	706.7	720.5	693.7	665.5	647.2	649.8
45°	2568.5	2160.8	905.7	564.1	604.0	691.0	700.2	665.5	629.5	602.0	598.1
47.5°	2747.1	2258.3	749.9	520.2	577.2	682.5	697.6	650.5	603.3	562.1	557.5
50°	2967.6	2396.4	619.7	491.4	564.7	677.9	696.9	634.1	577.8	529.4	526.1
52.5°	3208.5	2531.2	523.5	469.2	552.3	664.2	693.7	615.8	551.0	498.6	494.7
55°	3368.8	2584.2	458.7	448.3	532.0	642.6	680.6	598.1	510.4	462.7	456.8
57.5°	3415.9	2516.1	413.6	429.3	505.8	612.5	655.7	560.8	485.6	447.6	443.0
60°	3334.8	2344.7	385.4	413.6	477.0	573.9	612.5	539.2	465.9	431.9	428.6
62.5°	3105.7	2080.3	363.8	397.2	447.6	533.3	585.0	513.0	444.3	417.5	412.9
65°	2645.0	1706.0	346.2	380.2	419.5	494.7	554.9	486.9	420.8	400.5	395.2
67.5°	1850.0	1198.2	327.2	359.9	391.3	457.4	523.5	462.7	396.6	381.5	376.3
70°	904.4	635.4	304.3	336.4	361.2	419.5	492.1	433.2	364.5	356.0	348.8
72.5°	430.6	355.3	277.5	304.3	320.0	369.1	439.7	390.7	326.5	308.2	295.8
75°	288.6	252.6	242.1	266.3	270.3	309.5	376.9	337.0	287.9	267.0	256.5
77.5°	218.6	193.0	203.5	225.1	217.3	254.6	310.2	300.4	259.8	240.8	235.6
80°	153.8	140.7	161.6	174.7	168.8	216.6	279.4	257.2	214.0	193.0	189.1
82.5°	96.8	94.2	119.1	121.1	123.0	171.4	229.7	202.2	166.2	136.8	127.0
85°	48.4	53.7	71.3	71.3	70.7	88.3	130.9	113.9	89.7	71.3	69.4
87.5°	16.4	22.9	30.8	24.9	19.0	15.1	17.0	20.9	22.2	21.6	21.6
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)