

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: P639540

Luminaire Tested: GWS-SA5C-722-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639540
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-722-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17885.3 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 157.5
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

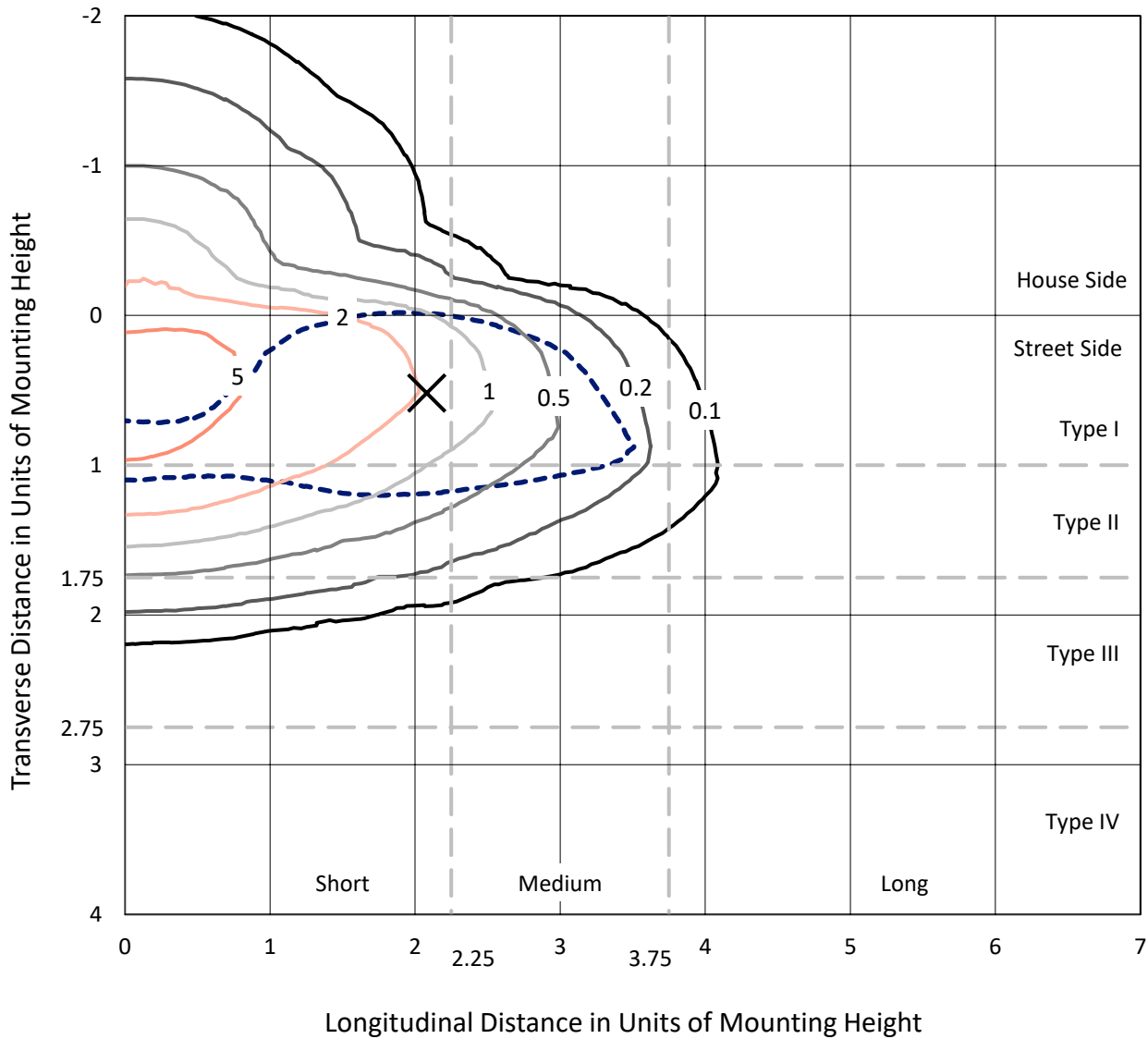


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Iso-Footcandle Lines of Horizontal Illumination

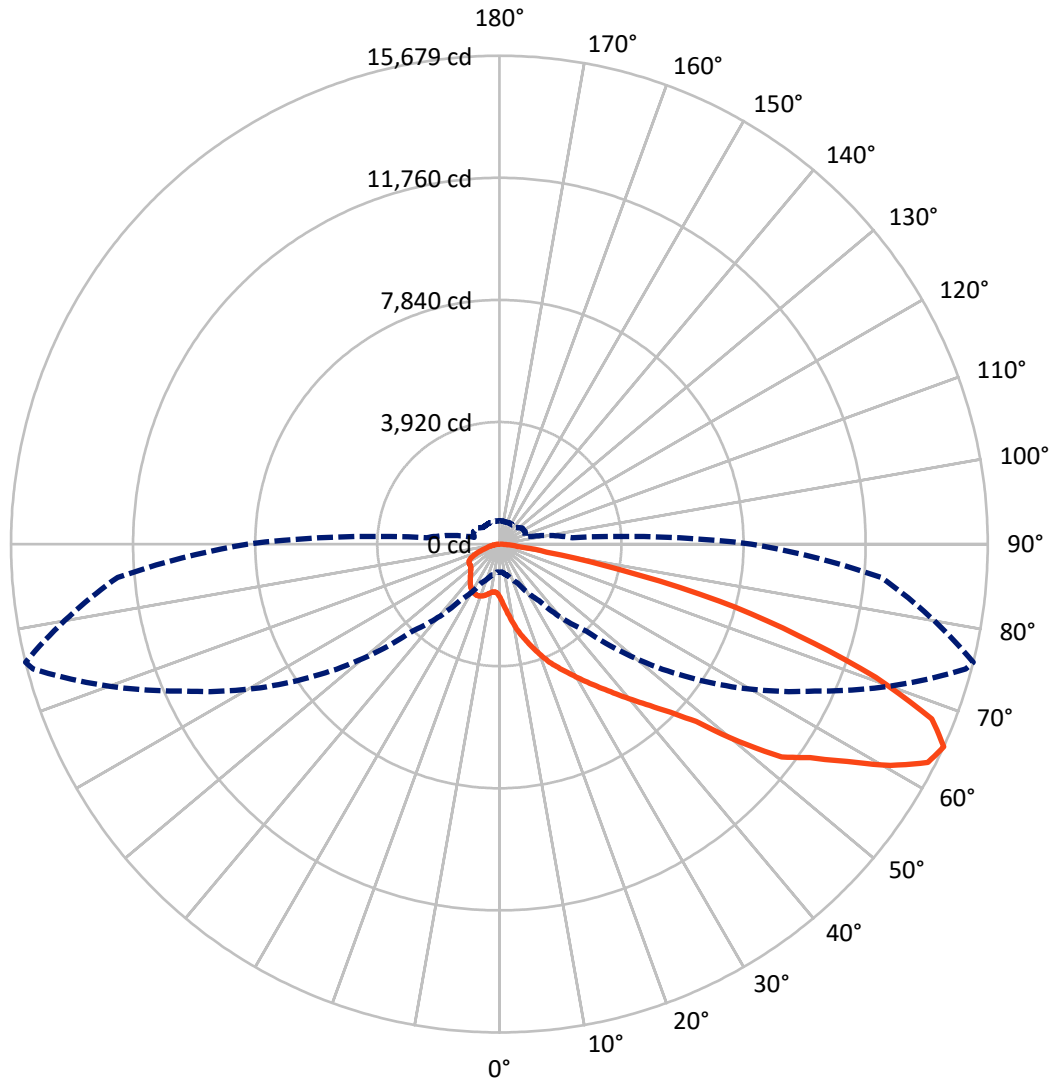
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2989.5	0.0	2989.5
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	14895.7	0.0	14895.7
	% Fixture	83.3	0.0	83.3
Total	Lumens	17885.3	0.0	17885.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.2	1.1
10°-20°	766.4	4.3
20°-30°	1493.6	8.4
30°-40°	2498.0	14.0
40°-50°	3576.7	20.0
50°-60°	4234.3	23.7
60°-70°	3520.8	19.7
70°-80°	1440.8	8.1
80°-90°	153.4	0.9
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°	17885.3	100.0
0°-180°	17885.3	100.0

Coefficient of Utilization



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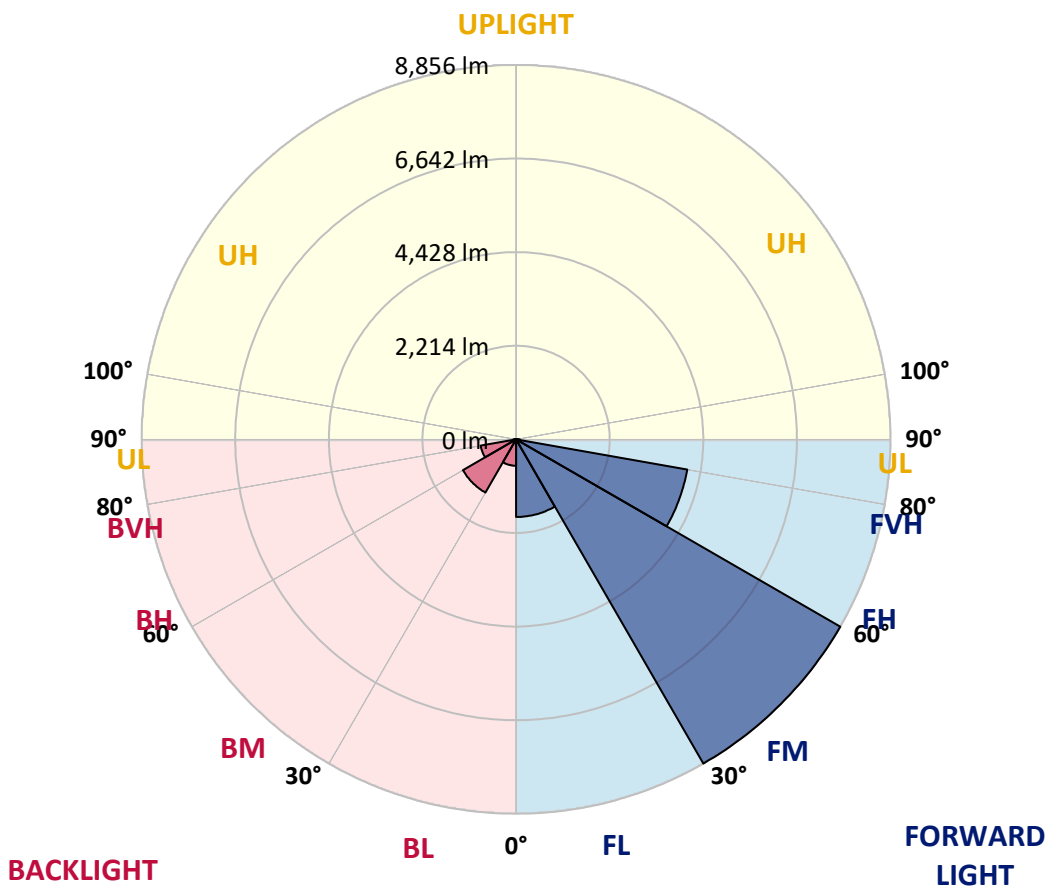
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1835.9	10.3			
FM (30°-60°)	8856.1	49.5			
FH (60°-80°)	4112.3	23.0			G2/5000
FVH (80°-90°)	91.5	0.5			G1/100
BL (0°-30°)	625.4	3.5	B2/1000		
BM (30°-60°)	1452.9	8.1	B2/2500		
BH (60°-80°)	849.4	4.7	B2/1000		G2/1000
BVH (80°-90°)	61.9	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°	75°	76°	85°
0°	1693.7	1693.7	1693.7	1693.7	1693.7	1693.7	1693.7	1693.7	1693.7	1693.7	1693.7
2.5°	2373.9	2382.7	2353.8	2343.7	2275.8	2184.0	2107.3	1991.7	1884.8	1868.4	1772.9
5°	3015.2	2977.4	2944.8	2923.4	2829.1	2724.7	2562.5	2345.0	2117.4	2089.7	1883.5
7.5°	3396.1	3389.9	3349.6	3337.0	3264.1	3159.8	2992.5	2722.2	2391.5	2346.2	2033.2
10°	3701.7	3697.9	3677.8	3689.1	3622.5	3520.6	3358.4	3079.3	2692.0	2646.8	2200.4
12.5°	3968.2	3974.5	3970.8	4012.3	3978.3	3899.1	3730.6	3423.8	2992.5	2943.5	2404.1
15°	4163.1	4168.2	4187.0	4277.6	4296.4	4280.1	4109.1	3762.0	3289.3	3218.9	2614.1
17.5°	4218.5	4228.5	4273.8	4419.6	4521.5	4589.4	4462.4	4106.6	3581.0	3504.3	2827.8
20°	4292.6	4304.0	4349.2	4501.4	4651.0	4805.7	4783.0	4456.1	3875.2	3812.3	3044.1
22.5°	4635.9	4627.1	4607.0	4679.9	4786.8	4979.2	5035.8	4791.8	4179.5	4119.1	3283.0
25°	5297.3	5280.9	5152.7	5086.0	5050.8	5167.8	5268.4	5097.4	4476.2	4385.7	3505.5
27.5°	6026.6	6017.8	5854.3	5695.9	5479.6	5429.3	5488.4	5363.9	4764.2	4672.4	3699.2
30°	6716.8	6690.4	6519.4	6320.8	6031.6	5815.3	5728.6	5625.5	5079.8	4984.2	3925.5
32.5°	7334.2	7300.3	7099.1	6879.0	6576.0	6320.8	6061.8	5903.3	5436.8	5326.2	4156.9
35°	7840.9	7807.0	7600.8	7366.9	7033.7	6845.1	6490.5	6205.1	5800.2	5688.3	4429.7
37.5°	8233.2	8201.8	7986.8	7756.7	7466.2	7316.6	7008.6	6544.6	6218.9	6102.0	4718.9
40°	8453.3	8430.6	8258.4	8076.1	7832.1	7702.6	7564.3	6973.4	6687.9	6571.0	5059.6
42.5°	8519.9	8504.8	8384.1	8289.8	8125.1	8027.0	8106.2	7477.6	7188.4	7086.5	5443.1
45°	8352.7	8352.7	8317.5	8365.3	8372.8	8371.5	8649.4	8047.1	7803.2	7691.3	5983.8
47.5°	7925.2	7952.8	8004.4	8239.5	8487.2	8694.7	9284.4	8806.6	8594.1	8502.3	6749.5
50°	7143.1	7218.5	7394.6	7853.5	8380.3	8908.4	9885.4	9929.4	10131.9	9969.7	7876.1
52.5°	5997.6	5986.3	6435.2	7089.0	7892.5	8917.2	10216.1	10920.2	11464.7	11352.8	8713.5
55°	4766.7	4747.8	5166.5	6068.0	7144.4	8580.3	10414.8	11374.1	12204.0	12103.4	9466.7
57.5°	3650.1	3626.2	3998.4	4811.9	6088.2	7864.8	10377.0	11914.8	13221.2	13169.6	10490.2
60°	2512.2	2483.3	2831.6	3543.3	4838.3	6770.9	9959.6	12192.7	14411.9	14429.5	11585.4
62.5°	1508.8	1492.5	1745.2	2297.2	3480.4	5415.5	8982.6	12024.2	15360.0	15439.2	12289.5
65°	910.3	899.0	1047.4	1370.5	2207.9	3951.9	7476.3	11162.9	15497.0	15679.4	12305.8
67.5°	662.6	663.9	706.6	834.9	1287.5	2552.5	5610.4	9618.8	14782.9	14971.5	11530.0
70°	575.9	578.4	601.0	629.9	778.3	1461.1	3647.6	7593.2	12671.7	12817.6	9670.4
72.5°	511.7	511.7	526.8	541.9	608.6	890.2	1953.9	5307.3	10001.1	10040.1	7380.7
75°	450.1	446.4	453.9	461.5	528.1	622.4	950.6	3697.9	7387.0	7296.5	4770.4
77.5°	358.3	354.6	355.8	363.4	423.7	445.1	481.6	2309.8	4163.1	3929.3	2107.3
80°	255.2	252.7	266.6	285.4	313.1	272.8	301.8	1117.8	1650.9	1536.5	817.3
82.5°	152.1	157.2	178.5	193.6	216.3	171.0	194.9	373.4	584.7	569.6	331.9
85°	21.4	22.6	64.1	74.2	93.0	66.6	103.1	168.5	233.9	250.2	116.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	8.8	30.2	66.6	67.9	28.9
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°	1693.7	1693.7	1693.7	1693.7	1693.7	1693.7	1693.7	1693.7	1693.7	1693.7	1693.7
2.5°	1723.8	1664.8	1580.5	1510.1	1451.0	1403.2	1363.0	1332.8	1324.0	1311.4	1311.4
5°	1786.7	1679.8	1529.0	1422.1	1360.5	1324.0	1298.9	1286.3	1280.0	1272.5	1268.7
7.5°	1873.5	1723.8	1520.2	1412.0	1364.2	1341.6	1325.3	1317.7	1312.7	1305.1	1305.1
10°	1992.9	1789.2	1547.8	1447.2	1409.5	1386.9	1368.0	1355.4	1344.1	1332.8	1330.3
12.5°	2122.4	1874.7	1598.1	1495.0	1454.8	1427.1	1400.7	1381.8	1368.0	1354.2	1350.4
15°	2265.8	1962.7	1652.2	1541.5	1491.2	1453.5	1422.1	1393.2	1374.3	1354.2	1351.7
17.5°	2406.6	2052.0	1697.4	1573.0	1508.8	1462.3	1417.1	1379.3	1355.4	1332.8	1326.5
20°	2575.1	2141.3	1728.9	1581.8	1505.1	1443.5	1389.4	1341.6	1315.2	1288.8	1285.0
22.5°	2729.7	2224.3	1744.0	1569.2	1476.1	1403.2	1340.4	1288.8	1259.9	1233.5	1228.4
25°	2879.4	2297.2	1737.7	1539.0	1432.1	1347.9	1282.5	1231.0	1203.3	1175.6	1168.1
27.5°	3024.0	2346.2	1712.5	1492.5	1376.8	1286.3	1223.4	1176.9	1153.0	1129.1	1119.1
30°	3166.0	2391.5	1673.6	1432.1	1306.4	1222.2	1170.6	1137.9	1114.0	1088.9	1081.3
32.5°	3309.4	2424.2	1614.5	1361.7	1234.7	1165.6	1134.1	1110.3	1085.1	1060.0	1052.4
35°	3454.0	2438.0	1542.8	1281.3	1174.4	1129.1	1117.8	1090.1	1056.2	1026.0	1016.0
37.5°	3626.2	2450.6	1453.5	1202.0	1121.6	1111.5	1109.0	1067.5	1027.3	985.8	974.5
40°	3833.7	2467.0	1361.7	1130.4	1078.8	1105.2	1095.2	1038.6	958.1	917.9	905.3
42.5°	4087.7	2497.1	1266.2	1065.0	1047.4	1081.3	1070.0	968.2	914.1	891.5	885.2
45°	4461.1	2607.8	1170.6	1013.4	1023.5	1047.4	1029.8	926.7	905.3	890.2	882.7
47.5°	5126.3	2777.5	1087.6	974.5	1004.6	1017.2	949.3	915.4	899.0	878.9	870.1
50°	5817.8	2851.7	1021.0	950.6	983.3	989.5	905.3	900.3	889.0	867.6	858.8
52.5°	6285.6	2841.6	980.7	941.8	965.7	941.8	885.2	883.9	876.4	851.2	841.2
55°	6813.7	2859.2	963.1	944.3	958.1	861.3	860.0	863.8	860.0	832.4	827.3
57.5°	7526.6	2913.3	954.3	953.1	953.1	822.3	836.1	841.2	833.6	821.1	817.3
60°	8211.9	2917.1	938.0	963.1	949.3	798.4	808.5	813.5	804.7	802.2	800.9
62.5°	8469.6	2736.0	901.5	955.6	934.2	772.0	779.6	782.1	773.3	779.6	778.3
65°	8086.1	2351.3	841.2	919.1	887.7	748.1	743.1	749.4	734.3	750.6	751.9
67.5°	7179.6	1868.4	749.4	850.0	822.3	721.7	711.7	711.7	686.5	711.7	710.4
70°	5788.9	1320.2	614.9	739.3	750.6	690.3	685.3	656.3	616.1	653.8	650.1
72.5°	4388.2	948.1	484.1	584.7	646.3	646.3	647.5	598.5	552.0	569.6	554.5
75°	2780.0	667.7	387.3	447.6	506.7	567.1	596.0	505.5	464.0	456.4	448.9
77.5°	1252.3	438.8	301.8	343.3	359.6	447.6	544.4	435.0	378.5	362.1	357.1
80°	524.3	272.8	215.0	242.7	221.3	376.0	480.3	338.2	277.9	255.2	238.9
82.5°	230.1	162.2	137.1	130.8	138.3	279.1	358.3	225.1	173.5	235.1	237.6
85°	96.8	85.5	70.4	64.1	56.6	106.9	168.5	88.0	108.1	61.6	50.3
87.5°	22.6	25.1	18.9	12.6	7.5	1.3	0.0	0.0	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)