

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: P639210

Luminaire Tested: GWS-SA5B-735-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639210
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-SA5B-735-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17857.1 lumens
Efficiency: N/A
Efficacy: 154.3 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): 115.7
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

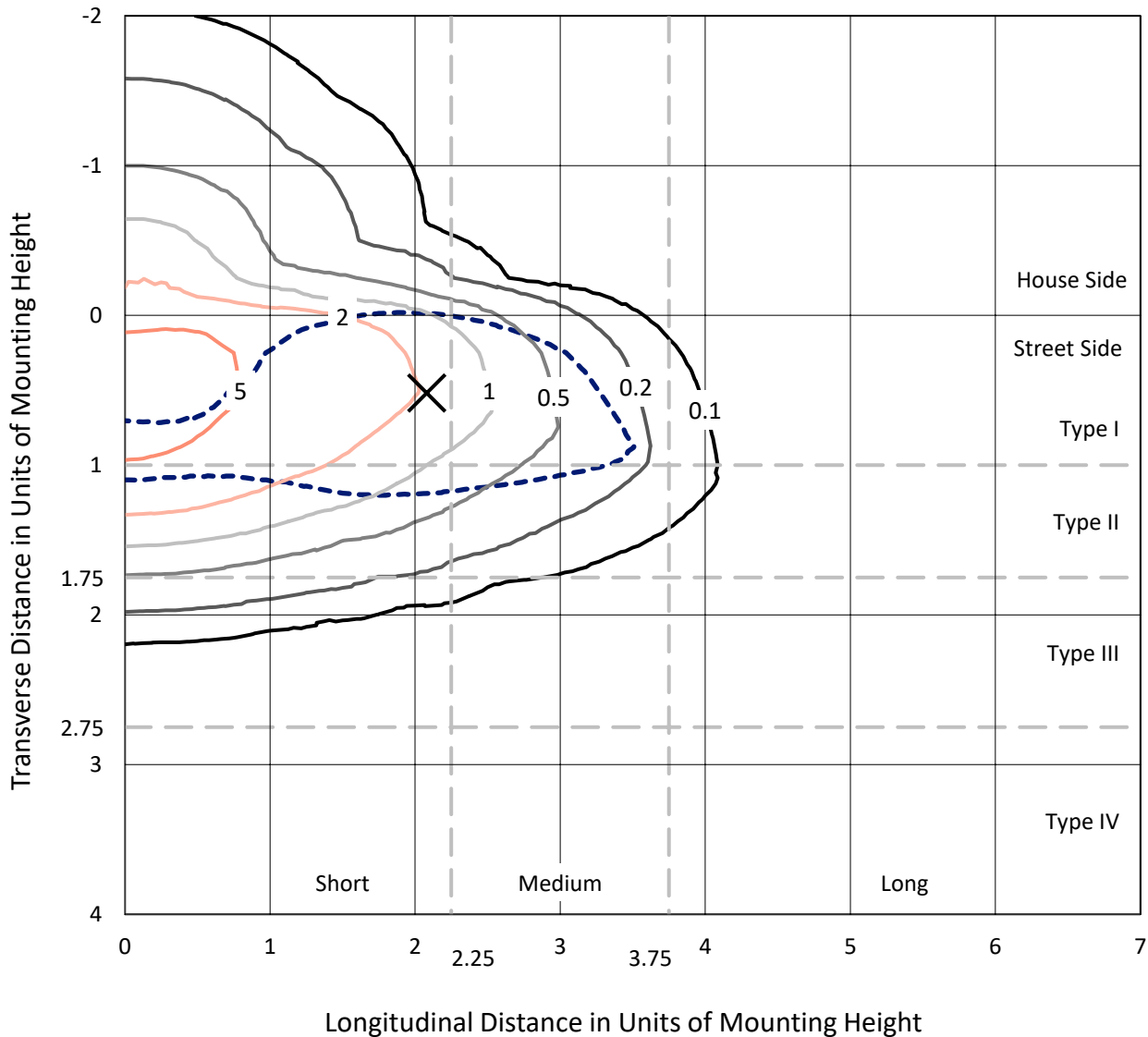


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Iso-Footcandle Lines of Horizontal Illumination

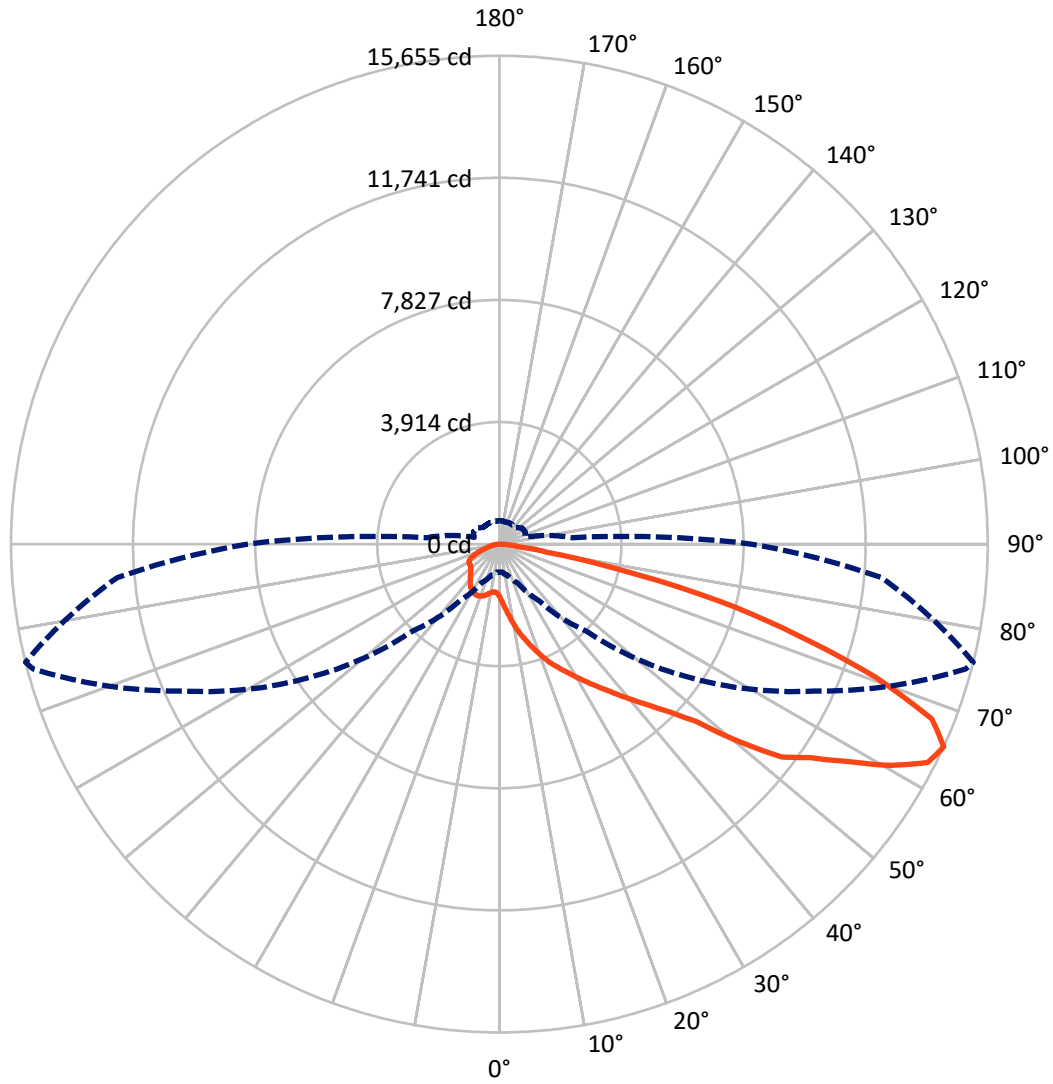
✕ Max cd
 - - - 1/2 Max cd



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	2984.8	0.0	2984.8
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	14872.3	0.0	14872.3
	% Fixture	83.3	0.0	83.3
Total	Lumens	17857.1	0.0	17857.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.9	1.1
10°-20°	765.2	4.3
20°-30°	1491.3	8.4
30°-40°	2494.1	14.0
40°-50°	3571.0	20.0
50°-60°	4227.6	23.7
60°-70°	3515.3	19.7
70°-80°	1438.6	8.1
80°-90°	153.2	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°	17857.1	100.0
0°-180°	17857.1	100.0

Coefficient of Utilization



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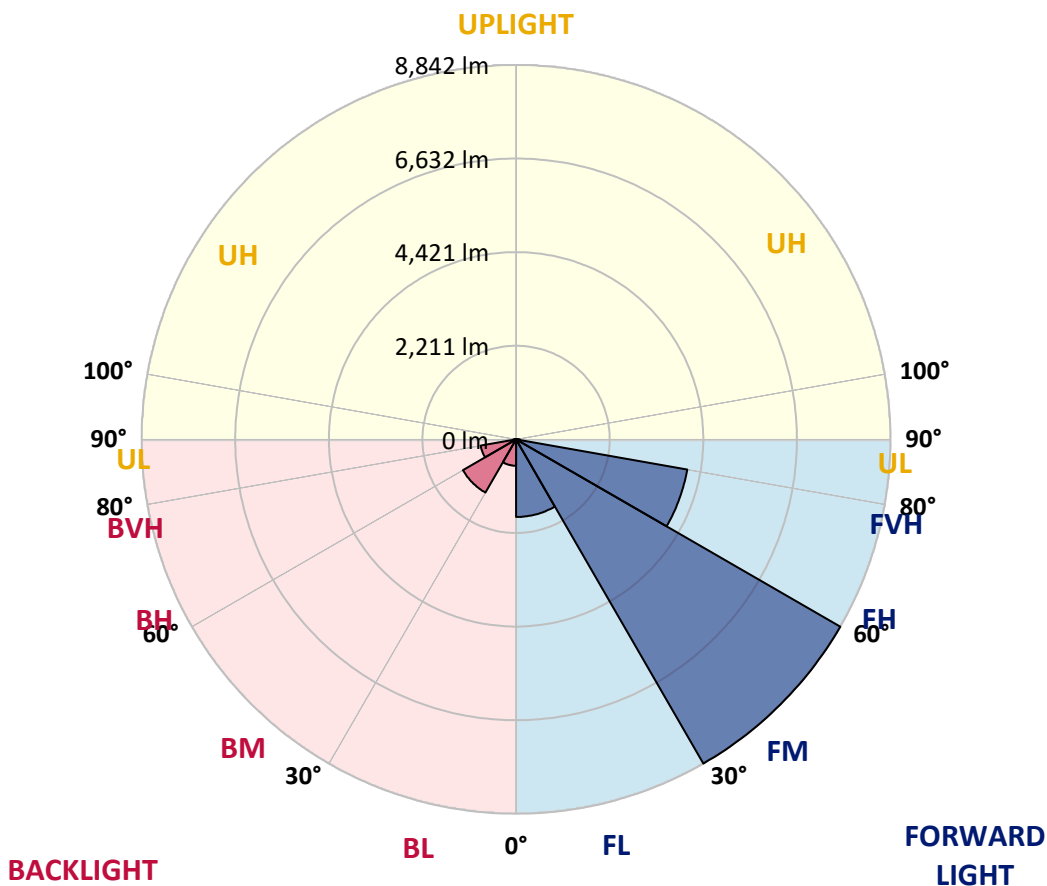
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1833.0	10.3			
FM (30°-60°)	8842.2	49.5			
FH (60°-80°)	4105.8	23.0			G2/5000
FVH (80°-90°)	91.3	0.5			G1/100
BL (0°-30°)	624.4	3.5	B2/1000		
BM (30°-60°)	1450.6	8.1	B2/2500		
BH (60°-80°)	848.0	4.7	B2/1000		G2/1000
BVH (80°-90°)	61.8	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°	1691.0	1691.0	1691.0	1691.0	1691.0	1691.0	1691.0	1691.0	1691.0	1691.0	1691.0
2.5°	2370.2	2379.0	2350.1	2340.0	2272.2	2180.6	2104.0	1988.5	1881.8	1865.5	1770.1
5°	3010.4	2972.7	2940.1	2918.8	2824.6	2720.4	2558.5	2341.3	2114.1	2086.4	1880.6
7.5°	3390.8	3384.5	3344.3	3331.8	3259.0	3154.8	2987.8	2717.9	2387.7	2342.5	2030.0
10°	3695.8	3692.1	3672.0	3683.3	3616.8	3515.1	3353.1	3074.4	2687.8	2642.6	2196.9
12.5°	3962.0	3968.3	3964.5	4005.9	3972.0	3892.9	3724.7	3418.4	2987.8	2938.9	2400.3
15°	4156.6	4161.6	4180.4	4270.8	4289.6	4273.3	4102.6	3756.1	3284.1	3213.8	2609.9
17.5°	4211.8	4221.9	4267.0	4412.7	4514.4	4582.1	4455.4	4100.1	3575.3	3498.8	2823.4
20°	4285.9	4297.2	4342.4	4494.3	4643.7	4798.1	4775.5	4449.1	3869.1	3806.3	3039.3
22.5°	4628.6	4619.8	4599.7	4672.5	4779.2	4971.3	5027.8	4784.3	4172.9	4112.6	3277.8
25°	5288.9	5272.6	5144.6	5078.0	5042.9	5159.6	5260.1	5089.3	4469.2	4378.8	3500.0
27.5°	6017.1	6008.3	5845.1	5686.9	5471.0	5420.7	5479.7	5355.5	4756.6	4665.0	3693.3
30°	6706.3	6679.9	6509.2	6310.8	6022.1	5806.1	5719.5	5616.6	5071.7	4976.3	3919.3
32.5°	7322.7	7288.8	7087.9	6868.2	6565.7	6310.8	6052.2	5894.0	5428.3	5317.8	4150.3
35°	7828.6	7794.7	7588.8	7355.3	7022.6	6834.3	6480.3	6195.3	5791.1	5679.4	4422.7
37.5°	8220.3	8188.9	7974.2	7744.5	7454.5	7305.1	6997.5	6534.3	6209.1	6092.4	4711.5
40°	8439.9	8417.3	8245.4	8063.3	7819.8	7690.5	7552.4	6962.4	6677.4	6560.6	5051.7
42.5°	8506.5	8491.4	8370.9	8276.7	8112.3	8014.4	8093.5	7465.8	7177.0	7075.3	5434.6
45°	8339.5	8339.5	8304.4	8352.1	8359.6	8358.3	8635.8	8034.5	7790.9	7679.2	5974.4
47.5°	7912.7	7940.3	7991.8	8226.5	8473.8	8681.0	9269.8	8792.7	8580.5	8488.9	6738.9
50°	7131.8	7207.2	7382.9	7841.1	8367.1	8894.4	9869.8	9913.8	10115.9	9953.9	7863.7
52.5°	5988.2	5976.9	6425.1	7077.9	7880.0	8903.2	10200.0	10903.0	11446.6	11334.9	8699.8
55°	4759.2	4740.3	5158.4	6058.5	7133.1	8566.7	10398.3	11356.2	12184.8	12084.3	9451.8
57.5°	3644.4	3620.5	3992.1	4804.4	6078.6	7852.4	10360.7	11896.0	13200.4	13148.9	10473.7
60°	2508.3	2479.4	2827.1	3537.7	4830.7	6760.2	9943.9	12173.5	14389.2	14406.8	11567.1
62.5°	1506.5	1490.1	1742.5	2293.6	3474.9	5406.9	8968.5	12005.2	15335.8	15414.9	12270.1
65°	908.9	897.6	1045.7	1368.4	2204.5	3945.7	7464.5	11145.3	15472.6	15654.6	12286.4
67.5°	661.6	662.8	705.5	833.6	1285.5	2548.4	5601.5	9603.7	14759.5	14947.8	11511.9
70°	575.0	577.5	600.1	628.9	777.1	1458.8	3641.9	7581.3	12651.8	12797.4	9655.2
72.5°	510.9	510.9	526.0	541.1	607.6	888.8	1950.9	5299.0	9985.3	10024.2	7369.1
75°	449.4	445.7	453.2	460.7	527.3	621.4	949.1	3692.1	7375.4	7285.0	4762.9
77.5°	357.8	354.0	355.3	362.8	423.1	444.4	480.8	2306.1	4156.6	3923.1	2104.0
80°	254.8	252.3	266.1	285.0	312.6	272.4	301.3	1116.0	1648.3	1534.1	816.0
82.5°	151.9	156.9	178.3	193.3	215.9	170.7	194.6	372.8	583.8	568.7	331.4
85°	21.3	22.6	64.0	74.1	92.9	66.5	102.9	168.2	233.5	249.8	116.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	8.8	30.1	66.5	67.8	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°	1691.0	1691.0	1691.0	1691.0	1691.0	1691.0	1691.0	1691.0	1691.0	1691.0	1691.0
2.5°	1721.1	1662.1	1578.0	1507.7	1448.7	1401.0	1360.8	1330.7	1321.9	1309.4	1309.4
5°	1783.9	1677.2	1526.5	1419.8	1358.3	1321.9	1296.8	1284.3	1278.0	1270.4	1266.7
7.5°	1870.5	1721.1	1517.8	1409.8	1362.1	1339.5	1323.2	1315.6	1310.6	1303.1	1303.1
10°	1989.8	1786.4	1545.4	1444.9	1407.3	1384.7	1365.9	1353.3	1342.0	1330.7	1328.2
12.5°	2119.1	1871.8	1595.6	1492.7	1452.5	1424.9	1398.5	1379.7	1365.9	1352.0	1348.3
15°	2262.2	1959.7	1649.6	1539.1	1488.9	1451.2	1419.8	1391.0	1372.1	1352.0	1349.5
17.5°	2402.8	2048.8	1694.8	1570.5	1506.5	1460.0	1414.8	1377.2	1353.3	1330.7	1324.4
20°	2571.0	2137.9	1726.2	1579.3	1502.7	1441.2	1387.2	1339.5	1313.1	1286.8	1283.0
22.5°	2725.4	2220.8	1741.2	1566.7	1473.8	1401.0	1338.2	1286.8	1257.9	1231.5	1226.5
25°	2874.8	2293.6	1734.9	1536.6	1429.9	1345.8	1280.5	1229.0	1201.4	1173.8	1166.3
27.5°	3019.2	2342.5	1709.8	1490.1	1374.6	1284.3	1221.5	1175.0	1151.2	1127.3	1117.3
30°	3161.1	2387.7	1670.9	1429.9	1304.3	1220.2	1168.8	1136.1	1112.3	1087.2	1079.6
32.5°	3304.2	2420.4	1611.9	1359.6	1232.8	1163.7	1132.4	1108.5	1083.4	1058.3	1050.8
35°	3448.5	2434.2	1540.4	1279.2	1172.5	1127.3	1116.0	1088.4	1054.5	1024.4	1014.3
37.5°	3620.5	2446.7	1451.2	1200.1	1119.8	1109.8	1107.2	1065.8	1025.6	984.2	972.9
40°	3827.7	2463.1	1359.6	1128.6	1077.1	1103.5	1093.4	1036.9	956.6	916.4	903.9
42.5°	4081.3	2493.2	1264.2	1063.3	1045.7	1079.6	1068.3	966.6	912.7	890.1	883.8
45°	4454.1	2603.7	1168.8	1011.8	1021.9	1045.7	1028.2	925.2	903.9	888.8	881.3
47.5°	5118.2	2773.1	1085.9	972.9	1003.1	1015.6	947.8	913.9	897.6	877.5	868.7
50°	5808.7	2847.2	1019.4	949.1	981.7	988.0	903.9	898.9	887.6	866.2	857.4
52.5°	6275.7	2837.2	979.2	940.3	964.1	940.3	883.8	882.5	875.0	849.9	839.9
55°	6802.9	2854.7	961.6	942.8	956.6	859.9	858.7	862.4	858.7	831.1	826.0
57.5°	7514.7	2908.7	952.8	951.6	951.6	821.0	834.8	839.9	832.3	819.8	816.0
60°	8198.9	2912.5	936.5	961.6	947.8	797.2	807.2	812.2	803.4	800.9	799.7
62.5°	8456.3	2731.7	900.1	954.1	932.7	770.8	778.3	780.8	772.1	778.3	777.1
65°	8073.4	2347.6	839.9	917.7	886.3	747.0	741.9	748.2	733.1	749.5	750.7
67.5°	7168.2	1865.5	748.2	848.6	821.0	720.6	710.5	710.5	685.4	710.5	709.3
70°	5779.8	1318.2	613.9	738.2	749.5	689.2	684.2	655.3	615.1	652.8	649.0
72.5°	4381.3	946.6	483.3	583.8	645.3	645.3	646.5	597.6	551.1	568.7	553.6
75°	2775.7	666.6	386.7	446.9	505.9	566.2	595.1	504.7	463.2	455.7	448.2
77.5°	1250.4	438.1	301.3	342.7	359.0	446.9	543.6	434.4	377.9	361.6	356.5
80°	523.5	272.4	214.7	242.3	220.9	375.4	479.6	337.7	277.4	254.8	238.5
82.5°	229.7	161.9	136.8	130.6	138.1	278.7	357.8	224.7	173.2	234.8	237.3
85°	96.7	85.4	70.3	64.0	56.5	106.7	168.2	87.9	108.0	61.5	50.2
87.5°	22.6	25.1	18.8	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)