

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: P639320

Luminaire Tested: GWS-SA5B-750-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639320
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-750-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18520.1 lumens
Efficiency: N/A
Efficacy: 160.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

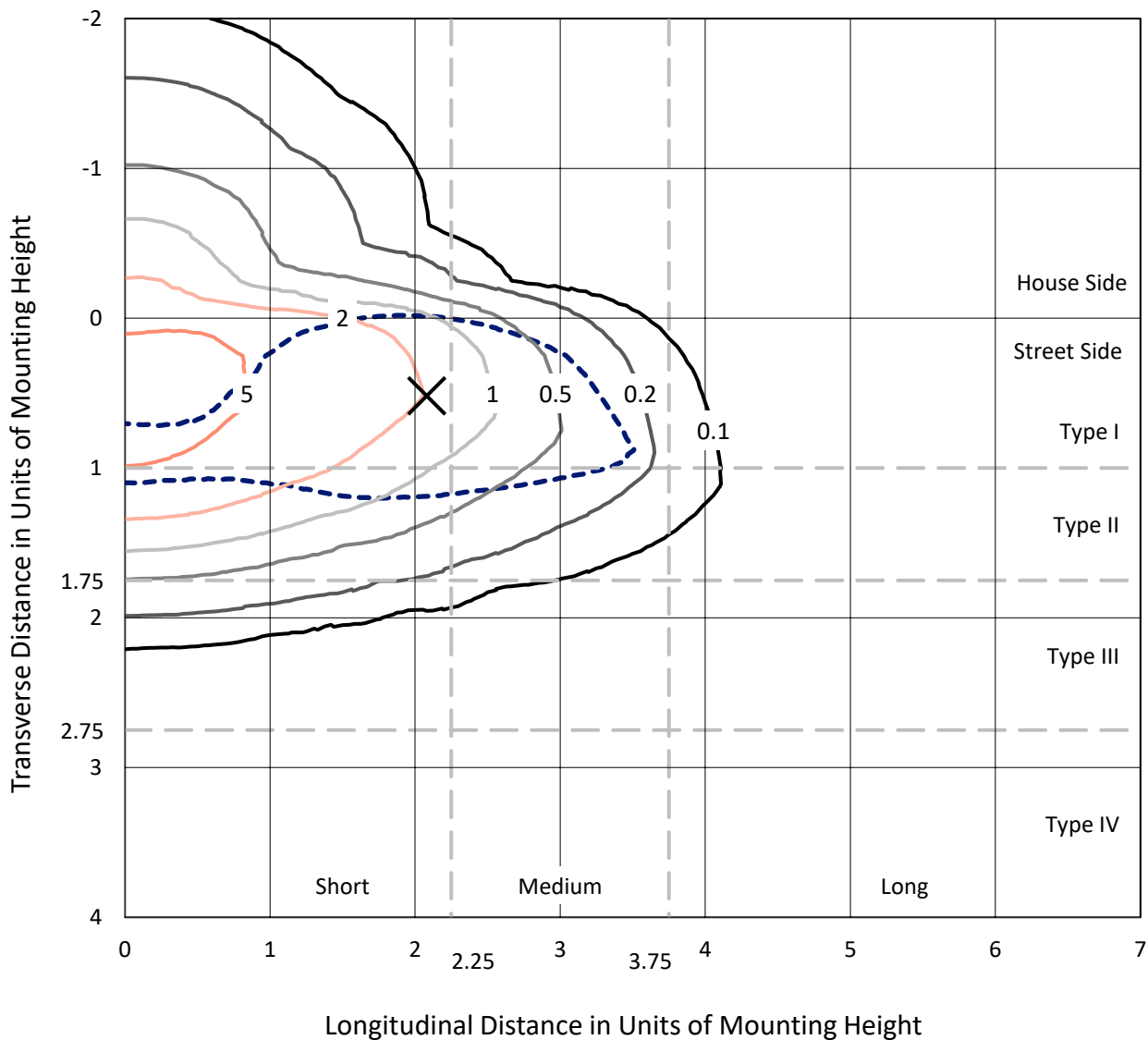
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

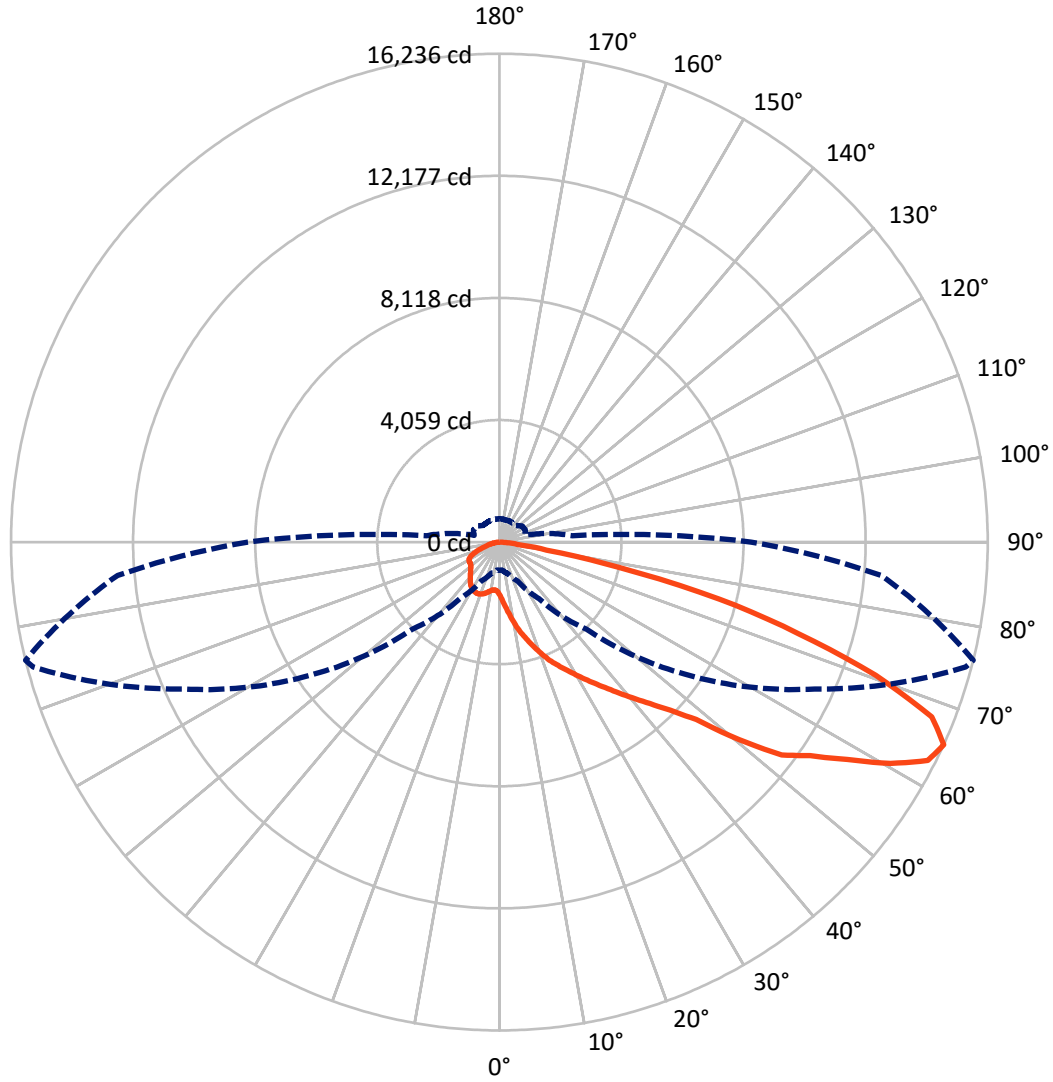
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	3095.6	0.0	3095.6
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	15424.5	0.0	15424.5
	% Fixture	83.3	0.0	83.3
Total	Lumens	18520.1	0.0	18520.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.4	1.1
10°-20°	793.6	4.3
20°-30°	1546.7	8.4
30°-40°	2586.7	14.0
40°-50°	3703.6	20.0
50°-60°	4384.6	23.7
60°-70°	3645.8	19.7
70°-80°	1492.0	8.1
80°-90°	158.8	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°	18520.1	100.0
0°-180°	18520.1	100.0

Coefficient of Utilization



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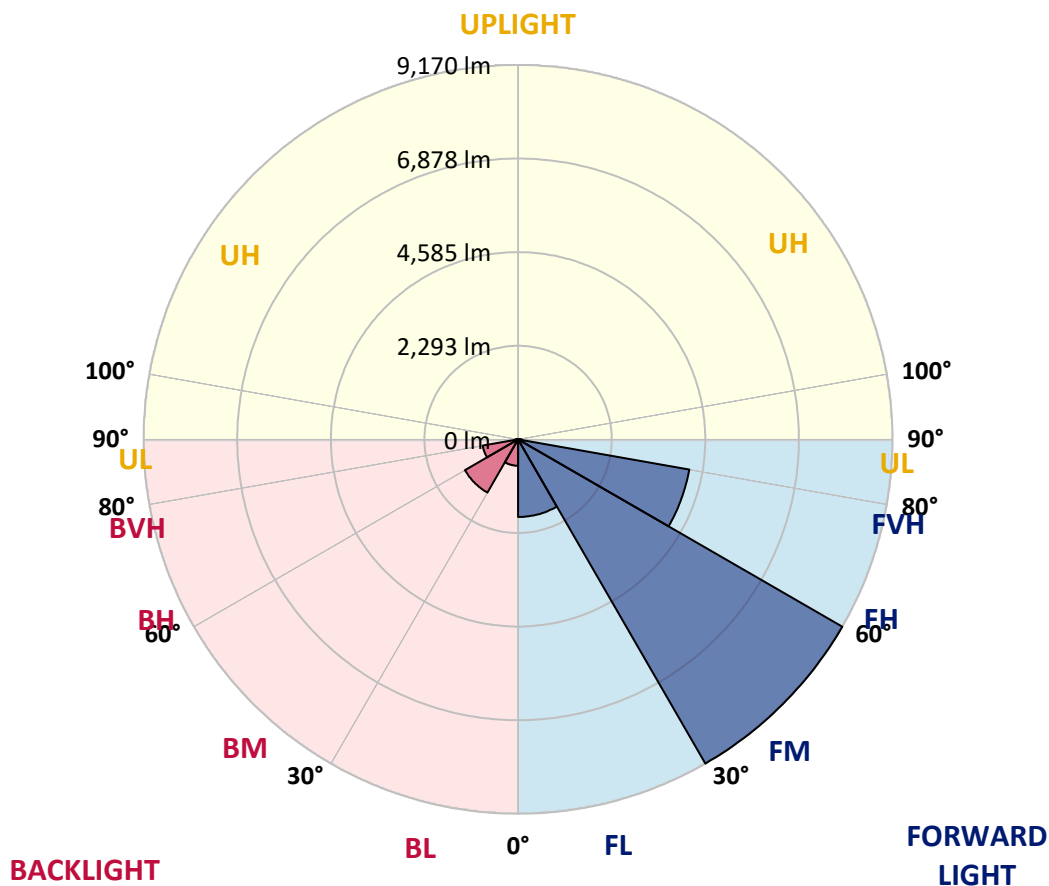
CATALOG NUMBER: GWS-SA5B-750-U-T2R-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1901.0	10.3			
FM (30°-60°)	9170.5	49.5			
FH (60°-80°)	4258.2	23.0			G2/5000
FVH (80°-90°)	94.7	0.5			G1/100
BL (0°-30°)	647.6	3.5	B2/1000		
BM (30°-60°)	1504.4	8.1	B2/2500		
BH (60°-80°)	879.5	4.7	B2/1000		G2/1000
BVH (80°-90°)	64.1	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°	1753.8	1753.8	1753.8	1753.8	1753.8	1753.8	1753.8	1753.8	1753.8	1753.8	1753.8
2.5°	2458.2	2467.3	2437.3	2426.9	2356.6	2261.6	2182.1	2062.4	1951.7	1934.8	1835.8
5°	3122.2	3083.1	3049.3	3027.1	2929.5	2821.4	2653.5	2428.2	2192.6	2163.9	1950.4
7.5°	3516.7	3510.2	3468.5	3455.5	3380.0	3271.9	3098.7	2818.8	2476.4	2429.5	2105.3
10°	3833.1	3829.2	3808.3	3820.0	3751.0	3645.6	3477.6	3188.6	2787.6	2740.7	2278.5
12.5°	4109.1	4115.6	4111.7	4154.7	4119.5	4037.5	3863.0	3545.3	3098.7	3048.0	2489.4
15°	4310.9	4316.1	4335.6	4429.4	4448.9	4432.0	4254.9	3895.6	3406.0	3333.1	2706.8
17.5°	4368.2	4378.6	4425.5	4576.5	4682.0	4752.3	4620.8	4252.3	3708.1	3628.7	2928.2
20°	4445.0	4456.7	4503.6	4661.1	4816.1	4976.2	4952.8	4614.3	4012.7	3947.6	3152.1
22.5°	4800.4	4791.3	4770.5	4846.0	4956.7	5155.9	5214.5	4961.9	4327.8	4265.3	3399.5
25°	5485.3	5468.4	5335.6	5266.6	5230.1	5351.2	5455.4	5278.3	4635.1	4541.4	3630.0
27.5°	6240.5	6231.3	6062.1	5898.0	5674.1	5622.0	5683.2	5554.3	4933.3	4838.2	3830.5
30°	6955.2	6927.9	6750.8	6545.1	6245.7	6021.7	5931.9	5825.1	5260.1	5161.1	4064.8
32.5°	7594.5	7559.4	7351.1	7123.2	6809.4	6545.1	6276.9	6112.9	5629.8	5515.2	4304.4
35°	8119.2	8084.1	7870.5	7628.4	7283.4	7088.1	6720.9	6425.3	6006.1	5890.2	4586.9
37.5°	8525.5	8492.9	8270.3	8032.0	7731.2	7576.3	7257.3	6776.9	6439.7	6318.6	4886.4
40°	8753.3	8729.9	8551.5	8362.7	8110.1	7976.0	7832.8	7220.9	6925.3	6804.2	5239.2
42.5°	8822.3	8806.7	8681.7	8584.0	8413.5	8311.9	8394.0	7743.0	7443.5	7338.0	5636.3
45°	8649.1	8649.1	8612.7	8662.2	8670.0	8668.7	8956.4	8332.8	8080.2	7964.3	6196.2
47.5°	8206.5	8235.1	8288.5	8532.0	8788.5	9003.3	9613.9	9119.2	8899.1	8804.1	6989.1
50°	7396.6	7474.7	7657.0	8132.3	8677.8	9224.6	10236.3	10281.8	10491.5	10323.5	8155.7
52.5°	6210.5	6198.8	6663.6	7340.6	8172.6	9233.7	10578.7	11307.8	11871.6	11755.7	9022.8
55°	4935.9	4916.3	5349.9	6283.4	7397.9	8884.8	10784.4	11777.8	12637.1	12533.0	9802.7
57.5°	3779.7	3754.9	4140.3	4982.7	6304.3	8144.0	10745.4	12337.7	13690.5	13637.1	10862.5
60°	2601.4	2571.4	2932.1	3669.0	5010.1	7011.2	10313.1	12625.4	14923.4	14941.7	11996.6
62.5°	1562.4	1545.5	1807.2	2378.7	3603.9	5607.7	9301.4	12451.0	15905.2	15987.2	12725.7
65°	942.6	930.9	1084.6	1419.2	2286.3	4092.2	7741.7	11559.1	16047.1	16235.9	12742.6
67.5°	686.2	687.5	731.7	864.5	1333.2	2643.0	5809.5	9960.2	15307.5	15502.8	11939.3
70°	596.3	598.9	622.4	652.3	805.9	1512.9	3777.1	7862.7	13121.5	13272.5	10013.6
72.5°	529.9	529.9	545.5	561.2	630.2	921.8	2023.3	5495.7	10356.1	10396.4	7642.7
75°	466.1	462.2	470.0	477.8	546.8	644.5	984.3	3829.2	7649.2	7555.5	4939.8
77.5°	371.1	367.2	368.5	376.3	438.8	460.9	498.7	2391.8	4310.9	4068.7	2182.1
80°	264.3	261.7	276.0	295.6	324.2	282.5	312.5	1157.5	1709.5	1591.0	846.3
82.5°	157.5	162.7	184.9	200.5	223.9	177.1	201.8	386.7	605.4	589.8	343.7
85°	22.1	23.4	66.4	76.8	96.3	69.0	106.8	174.5	242.2	259.1	121.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	9.1	31.2	69.0	70.3	29.9
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°	1753.8	1753.8	1753.8	1753.8	1753.8	1753.8	1753.8	1753.8	1753.8	1753.8	1753.8
2.5°	1785.0	1723.8	1636.6	1563.7	1502.5	1453.0	1411.4	1380.1	1371.0	1358.0	1358.0
5°	1850.1	1739.5	1583.2	1472.6	1408.8	1371.0	1345.0	1331.9	1325.4	1317.6	1313.7
7.5°	1940.0	1785.0	1574.1	1462.1	1412.7	1389.2	1372.3	1364.5	1359.3	1351.5	1351.5
10°	2063.7	1852.7	1602.8	1498.6	1459.5	1436.1	1416.6	1403.5	1391.8	1380.1	1377.5
12.5°	2197.8	1941.3	1654.8	1548.1	1506.4	1477.8	1450.4	1430.9	1416.6	1402.2	1398.3
15°	2346.2	2032.4	1710.8	1596.2	1544.2	1505.1	1472.6	1442.6	1423.1	1402.2	1399.6
17.5°	2492.0	2124.9	1757.7	1628.8	1562.4	1514.2	1467.3	1428.3	1403.5	1380.1	1373.6
20°	2666.5	2217.3	1790.2	1637.9	1558.5	1494.7	1438.7	1389.2	1361.9	1334.5	1330.6
22.5°	2826.6	2303.2	1805.9	1624.9	1528.5	1453.0	1387.9	1334.5	1304.6	1277.3	1272.0
25°	2981.6	2378.7	1799.4	1593.6	1483.0	1395.7	1328.0	1274.7	1246.0	1217.4	1209.6
27.5°	3131.3	2429.5	1773.3	1545.5	1425.7	1331.9	1266.8	1218.7	1193.9	1169.2	1158.8
30°	3278.4	2476.4	1733.0	1483.0	1352.8	1265.5	1212.2	1178.3	1153.6	1127.5	1119.7
32.5°	3426.8	2510.2	1671.8	1410.1	1278.6	1206.9	1174.4	1149.7	1123.6	1097.6	1089.8
35°	3576.6	2524.6	1597.5	1326.7	1216.1	1169.2	1157.5	1128.8	1093.7	1062.4	1052.0
37.5°	3754.9	2537.6	1505.1	1244.7	1161.4	1151.0	1148.4	1105.4	1063.7	1020.8	1009.0
40°	3969.8	2554.5	1410.1	1170.5	1117.1	1144.5	1134.0	1075.4	992.1	950.5	937.4
42.5°	4232.8	2585.8	1311.1	1102.8	1084.6	1119.7	1108.0	1002.5	946.5	923.1	916.6
45°	4619.5	2700.3	1212.2	1049.4	1059.8	1084.6	1066.3	959.6	937.4	921.8	914.0
47.5°	5308.2	2876.1	1126.2	1009.0	1040.3	1053.3	983.0	947.9	930.9	910.1	901.0
50°	6024.3	2952.9	1057.2	984.3	1018.2	1024.7	937.4	932.2	920.5	898.4	889.3
52.5°	6508.7	2942.5	1015.6	975.2	999.9	975.2	916.6	915.3	907.5	881.4	871.0
55°	7055.5	2960.7	997.3	977.8	992.1	891.9	890.6	894.5	890.6	861.9	856.7
57.5°	7793.7	3016.7	988.2	986.9	986.9	851.5	865.8	871.0	863.2	850.2	846.3
60°	8503.3	3020.6	971.3	997.3	983.0	826.8	837.2	842.4	833.3	830.7	829.4
62.5°	8770.2	2833.1	933.5	989.5	967.4	799.4	807.2	809.8	800.7	807.2	805.9
65°	8373.1	2434.7	871.0	951.8	919.2	774.7	769.5	776.0	760.4	777.3	778.6
67.5°	7434.4	1934.8	776.0	880.1	851.5	747.3	736.9	736.9	710.9	736.9	735.6
70°	5994.4	1367.1	636.7	765.6	777.3	714.8	709.6	679.6	638.0	677.0	673.1
72.5°	4544.0	981.7	501.3	605.4	669.2	669.2	670.5	619.7	571.6	589.8	574.2
75°	2878.7	691.4	401.0	463.5	524.7	587.2	617.1	523.4	480.4	472.6	464.8
77.5°	1296.8	454.4	312.5	355.4	372.4	463.5	563.8	450.5	391.9	375.0	369.8
80°	542.9	282.5	222.6	251.3	229.2	389.3	497.4	350.2	287.7	264.3	247.4
82.5°	238.3	168.0	141.9	135.4	143.2	289.0	371.1	233.1	179.7	243.5	246.1
85°	100.3	88.5	72.9	66.4	58.6	110.7	174.5	91.1	112.0	63.8	52.1
87.5°	23.4	26.0	19.5	13.0	7.8	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)