

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: P639265

Luminaire Tested: GWS-SA5B-740-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639265
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-740-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18105.2 lumens
Efficiency: N/A
Efficacy: 156.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

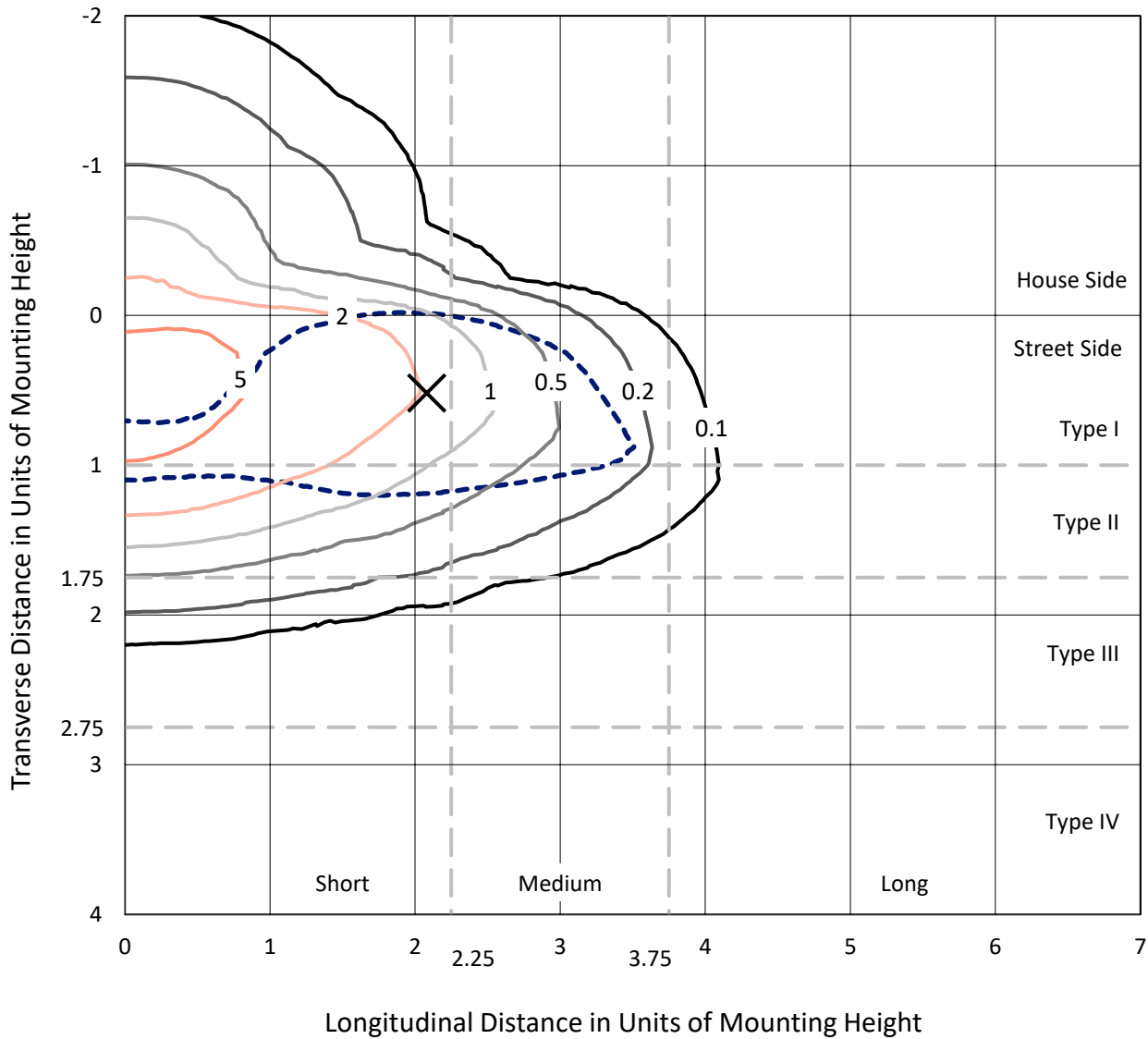
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

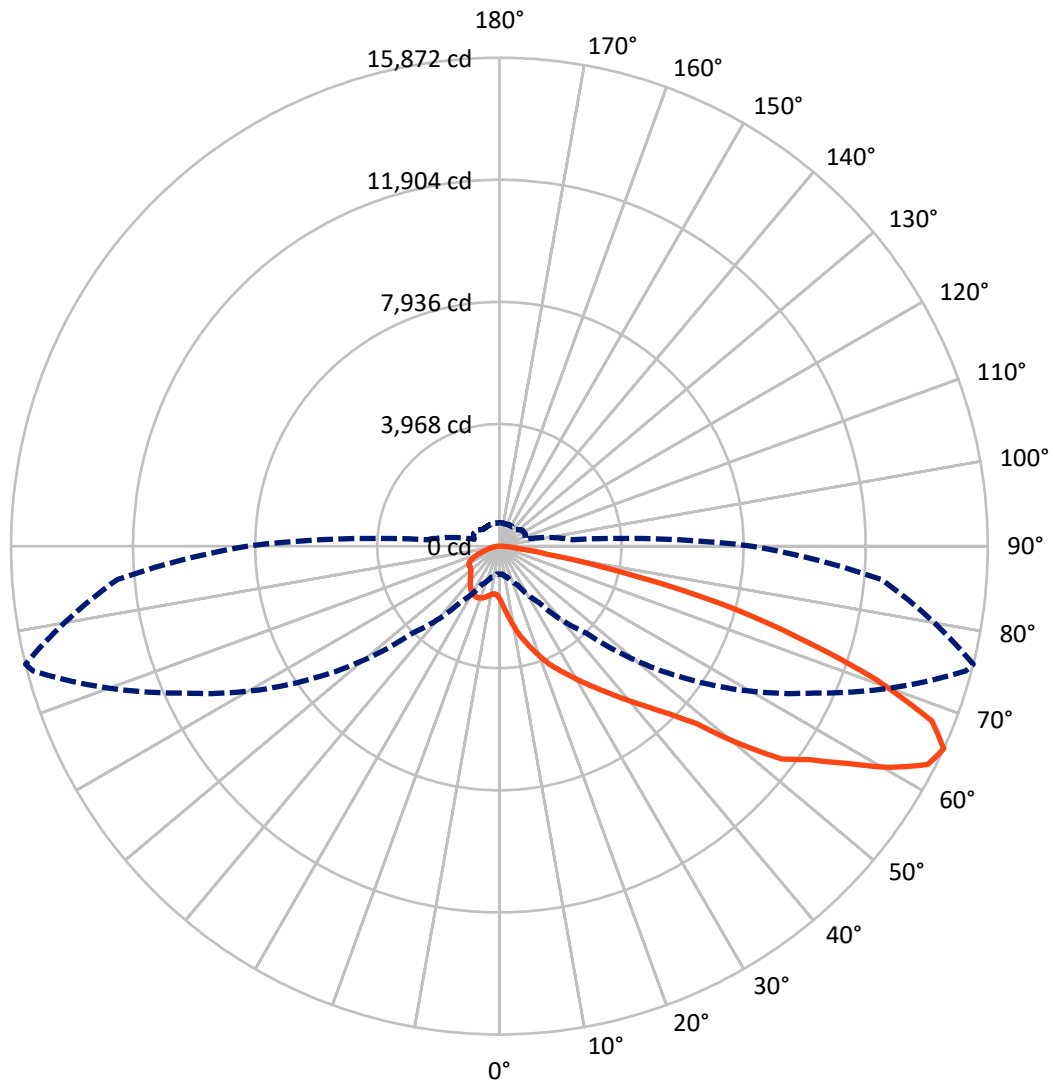
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	3026.3	0.0	3026.3
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	15078.9	0.0	15078.9
	% Fixture	83.3	0.0	83.3
Total	Lumens	18105.2	0.0	18105.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.7	1.1
10°-20°	775.8	4.3
20°-30°	1512.0	8.4
30°-40°	2528.7	14.0
40°-50°	3620.6	20.0
50°-60°	4286.3	23.7
60°-70°	3564.1	19.7
70°-80°	1458.5	8.1
80°-90°	155.3	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°	18105.2	100.0
0°-180°	18105.2	100.0

Coefficient of Utilization



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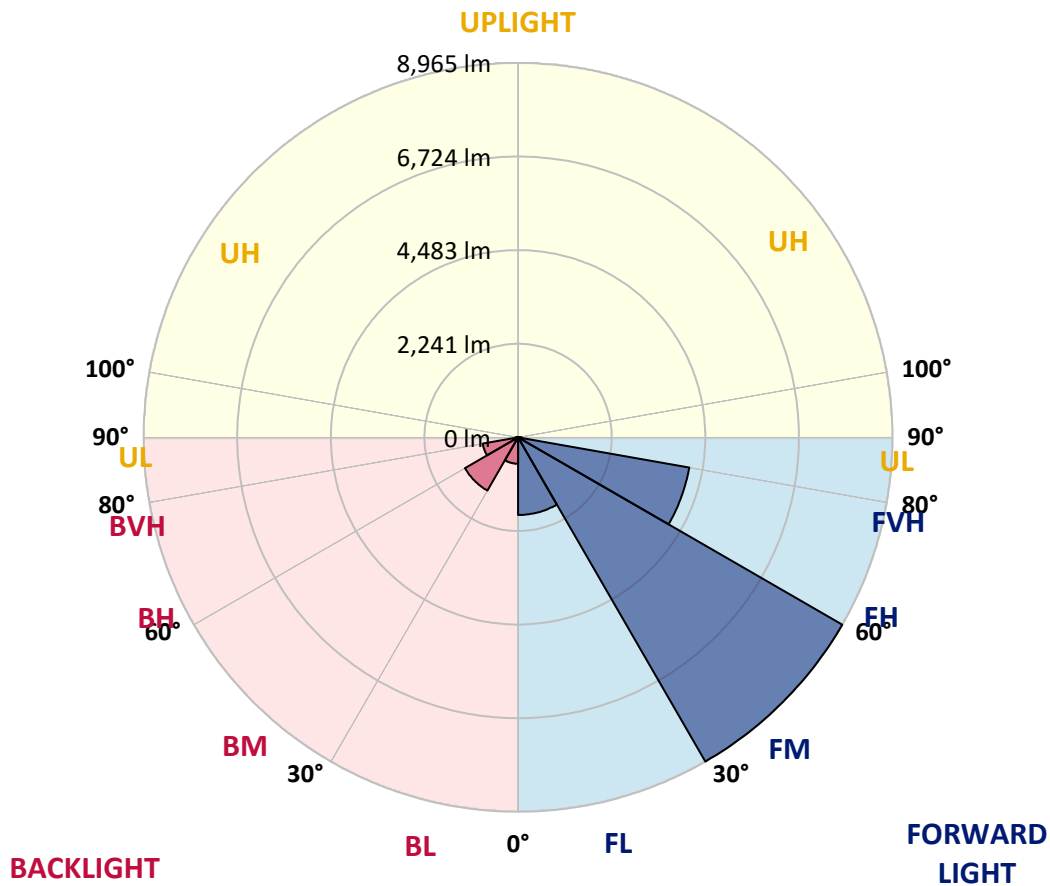
CATALOG NUMBER: GWS-SA5B-740-U-T2R-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1858.4	10.3			
FM (30°-60°)	8965.0	49.5			
FH (60°-80°)	4162.8	23.0			G2/5000
FVH (80°-90°)	92.6	0.5			G1/100
BL (0°-30°)	633.1	3.5	B2/1000		
BM (30°-60°)	1470.7	8.1	B2/2500		
BH (60°-80°)	859.8	4.7	B2/1000		G2/1000
BVH (80°-90°)	62.7	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°	1714.5	1714.5	1714.5	1714.5	1714.5	1714.5	1714.5	1714.5	1714.5	1714.5	1714.5
2.5°	2403.1	2412.0	2382.7	2372.5	2303.8	2210.9	2133.3	2016.2	1908.0	1891.4	1794.7
5°	3052.2	3014.1	2981.0	2959.3	2863.9	2758.2	2594.0	2373.8	2143.4	2115.4	1906.7
7.5°	3437.9	3431.5	3390.8	3378.1	3304.3	3198.6	3029.3	2755.7	2420.9	2375.1	2058.2
10°	3747.2	3743.4	3723.0	3734.5	3667.0	3563.9	3399.7	3117.1	2725.1	2679.3	2227.4
12.5°	4017.0	4023.4	4019.6	4061.6	4027.2	3947.0	3776.5	3465.9	3029.3	2979.7	2433.6
15°	4214.3	4219.4	4238.5	4330.2	4349.2	4332.7	4159.6	3808.3	3329.7	3258.4	2646.2
17.5°	4270.3	4280.5	4326.3	4474.0	4577.1	4645.8	4517.3	4157.0	3625.0	3547.4	2862.6
20°	4345.4	4356.9	4402.7	4556.7	4708.2	4864.7	4841.8	4510.9	3922.8	3859.2	3081.5
22.5°	4692.9	4684.0	4663.6	4737.5	4845.6	5040.4	5097.7	4850.7	4230.9	4169.8	3323.3
25°	5362.4	5345.9	5216.0	5148.6	5112.9	5231.3	5333.1	5160.0	4531.3	4439.6	3548.6
27.5°	6100.7	6091.7	5926.3	5765.9	5547.0	5496.1	5555.9	5429.9	4822.7	4729.8	3744.7
30°	6799.4	6772.7	6599.6	6398.5	6105.7	5886.8	5799.0	5694.6	5142.2	5045.5	3973.8
32.5°	7424.4	7390.0	7186.4	6963.6	6656.9	6398.5	6136.3	5975.9	5503.7	5391.7	4208.0
35°	7937.3	7903.0	7694.2	7457.5	7120.2	6929.3	6570.3	6281.4	5871.5	5758.3	4484.2
37.5°	8334.5	8302.6	8085.0	7852.1	7558.0	7406.6	7094.7	6625.1	6295.4	6177.0	4776.9
40°	8557.2	8534.3	8359.9	8175.4	7928.4	7797.3	7657.3	7059.1	6770.2	6651.8	5121.8
42.5°	8624.7	8609.4	8487.2	8391.7	8225.0	8125.7	8205.9	7569.5	7276.7	7173.6	5510.1
45°	8455.4	8455.4	8419.7	8468.1	8475.7	8474.5	8755.8	8146.1	7899.2	7785.9	6057.4
47.5°	8022.6	8050.6	8102.8	8340.8	8591.6	8801.6	9398.5	8914.9	8699.8	8606.8	6832.5
50°	7230.9	7307.3	7485.5	7950.1	8483.4	9018.0	10007.0	10051.5	10256.4	10092.2	7973.0
52.5°	6071.4	6059.9	6514.3	7176.2	7989.5	9026.9	10341.7	11054.5	11605.6	11492.3	8820.7
55°	4825.3	4806.2	5230.0	6142.7	7232.2	8685.8	10542.8	11514.0	12354.0	12252.2	9583.1
57.5°	3695.0	3670.8	4047.6	4871.1	6163.0	7961.5	10504.6	12061.3	13383.8	13331.6	10619.2
60°	2543.1	2513.8	2866.4	3586.8	4897.8	6854.2	10082.0	12342.6	14589.1	14606.9	11727.8
62.5°	1527.4	1510.8	1766.7	2325.5	3523.2	5482.1	9093.1	12172.0	15548.8	15629.0	12440.6
65°	921.5	910.1	1060.3	1387.4	2235.1	4000.5	7568.2	11300.1	15687.6	15872.1	12457.1
67.5°	670.8	672.1	715.3	845.2	1303.4	2583.8	5679.3	9737.1	14964.6	15155.5	11671.8
70°	583.0	585.5	608.4	637.7	787.9	1479.0	3692.5	7686.6	12827.5	12975.2	9789.3
72.5°	518.0	518.0	533.3	548.6	616.0	901.2	1978.0	5372.6	10124.1	10163.5	7471.5
75°	455.7	451.9	459.5	467.1	534.6	630.0	962.3	3743.4	7477.8	7386.2	4829.1
77.5°	362.8	358.9	360.2	367.8	428.9	450.6	487.5	2338.2	4214.3	3977.6	2133.3
80°	258.4	255.8	269.8	288.9	316.9	276.2	305.5	1131.5	1671.2	1555.4	827.3
82.5°	154.0	159.1	180.7	196.0	218.9	173.1	197.3	378.0	591.9	576.6	336.0
85°	21.6	22.9	64.9	75.1	94.2	67.5	104.4	170.6	236.7	253.3	118.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	8.9	30.5	67.5	68.7	29.3
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°	1714.5	1714.5	1714.5	1714.5	1714.5	1714.5	1714.5	1714.5	1714.5	1714.5	1714.5
2.5°	1745.0	1685.2	1599.9	1528.7	1468.8	1420.5	1379.7	1349.2	1340.3	1327.6	1327.6
5°	1808.7	1700.5	1547.8	1439.6	1377.2	1340.3	1314.8	1302.1	1295.7	1288.1	1284.3
7.5°	1896.5	1745.0	1538.8	1429.4	1381.0	1358.1	1341.6	1333.9	1328.8	1321.2	1321.2
10°	2017.4	1811.2	1566.8	1465.0	1426.8	1403.9	1384.8	1372.1	1360.7	1349.2	1346.6
12.5°	2148.5	1897.8	1617.8	1513.4	1472.7	1444.7	1417.9	1398.8	1384.8	1370.8	1367.0
15°	2293.6	1986.9	1672.5	1560.5	1509.6	1471.4	1439.6	1410.3	1391.2	1370.8	1368.3
17.5°	2436.2	2077.3	1718.3	1592.3	1527.4	1480.3	1434.5	1396.3	1372.1	1349.2	1342.8
20°	2606.7	2167.6	1750.1	1601.2	1523.6	1461.2	1406.5	1358.1	1331.4	1304.6	1300.8
22.5°	2763.3	2251.6	1765.4	1588.5	1494.3	1420.5	1356.8	1304.6	1275.4	1248.6	1243.6
25°	2914.8	2325.5	1759.0	1557.9	1449.7	1364.5	1298.3	1246.1	1218.1	1190.1	1182.5
27.5°	3061.1	2375.1	1733.6	1510.8	1393.7	1302.1	1238.5	1191.4	1167.2	1143.0	1132.8
30°	3205.0	2420.9	1694.1	1449.7	1322.5	1237.2	1185.0	1151.9	1127.7	1102.3	1094.6
32.5°	3350.1	2454.0	1634.3	1378.5	1249.9	1179.9	1148.1	1123.9	1098.4	1073.0	1065.4
35°	3496.5	2468.0	1561.8	1297.0	1188.8	1143.0	1131.5	1103.5	1069.2	1038.6	1028.4
37.5°	3670.8	2480.7	1471.4	1216.8	1135.4	1125.2	1122.6	1080.6	1039.9	997.9	986.4
40°	3880.8	2497.3	1378.5	1144.3	1092.1	1118.8	1108.6	1051.4	969.9	929.2	916.4
42.5°	4138.0	2527.8	1281.7	1078.1	1060.3	1094.6	1083.2	980.1	925.3	902.4	896.1
45°	4516.0	2639.8	1185.0	1025.9	1036.1	1060.3	1042.4	938.1	916.4	901.2	893.5
47.5°	5189.3	2811.7	1101.0	986.4	1017.0	1029.7	961.0	926.6	910.1	889.7	880.8
50°	5889.4	2886.8	1033.5	962.3	995.3	1001.7	916.4	911.3	899.9	878.2	869.3
52.5°	6362.9	2876.6	992.8	953.3	977.5	953.3	896.1	894.8	887.2	861.7	851.5
55°	6897.4	2894.4	975.0	955.9	969.9	871.9	870.6	874.4	870.6	842.6	837.5
57.5°	7619.1	2949.1	966.1	964.8	964.8	832.4	846.4	851.5	843.9	831.2	827.3
60°	8312.8	2953.0	949.5	975.0	961.0	808.2	818.4	823.5	814.6	812.1	810.8
62.5°	8573.8	2769.7	912.6	967.3	945.7	781.5	789.2	791.7	782.8	789.2	787.9
65°	8185.5	2380.2	851.5	930.4	898.6	757.3	752.2	758.6	743.3	759.9	761.1
67.5°	7267.8	1891.4	758.6	860.4	832.4	730.6	720.4	720.4	695.0	720.4	719.1
70°	5860.1	1336.5	622.4	748.4	759.9	698.8	693.7	664.4	623.7	661.9	658.1
72.5°	4442.2	959.7	490.0	591.9	654.2	654.2	655.5	605.9	558.8	576.6	561.3
75°	2814.2	675.9	392.0	453.1	512.9	574.0	603.3	511.7	469.7	462.0	454.4
77.5°	1267.7	444.2	305.5	347.5	364.0	453.1	551.1	440.4	383.1	366.6	361.5
80°	530.8	276.2	217.7	245.7	224.0	380.6	486.2	342.4	281.3	258.4	241.8
82.5°	232.9	164.2	138.7	132.4	140.0	282.6	362.8	227.8	175.6	238.0	240.6
85°	98.0	86.6	71.3	64.9	57.3	108.2	170.6	89.1	109.5	62.4	50.9
87.5°	22.9	25.5	19.1	12.7	7.6	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)