

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: P636515

Luminaire Tested: GWS-SA3F-830-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636515
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-SA3F-830-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19805.5 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

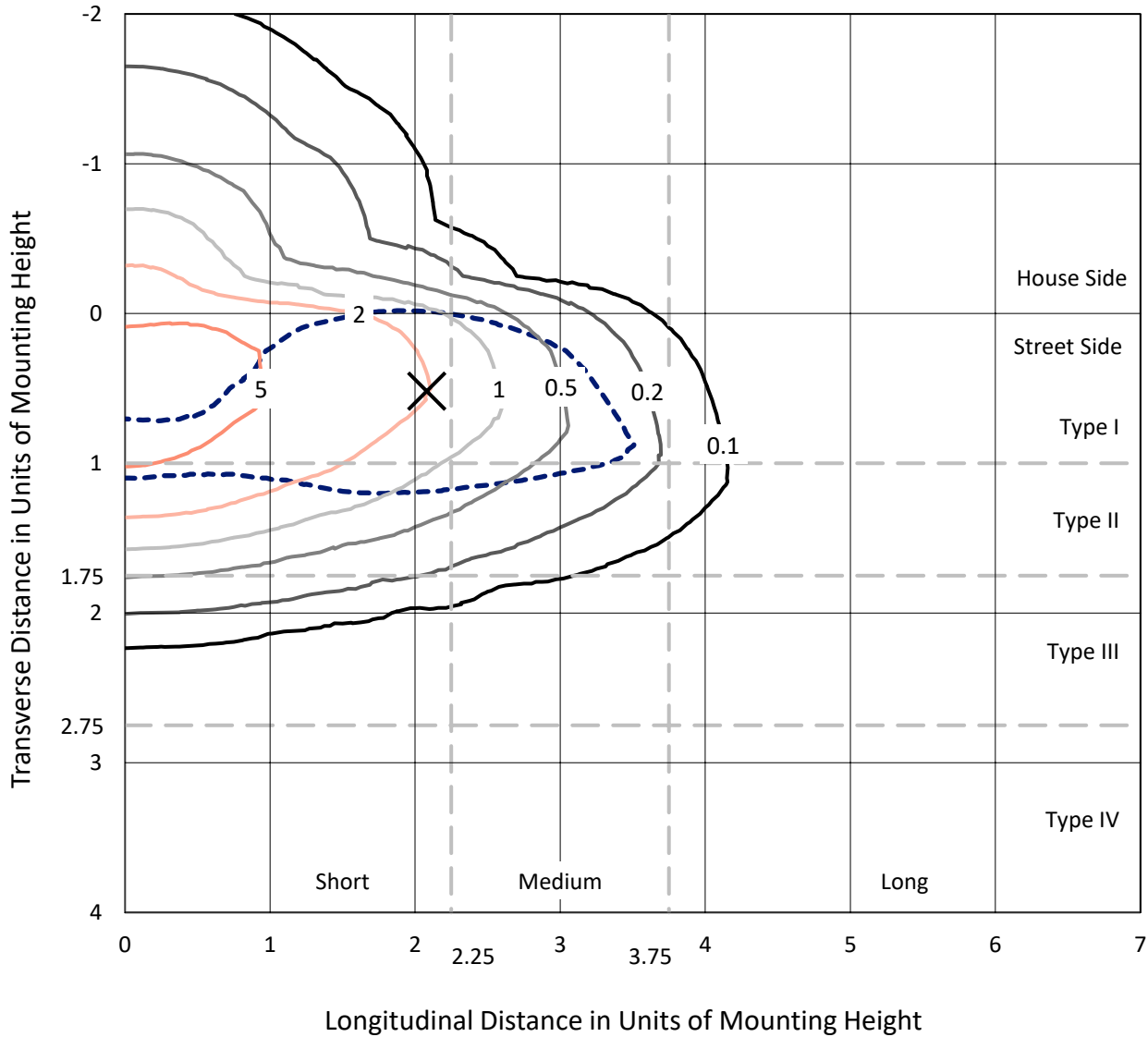
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

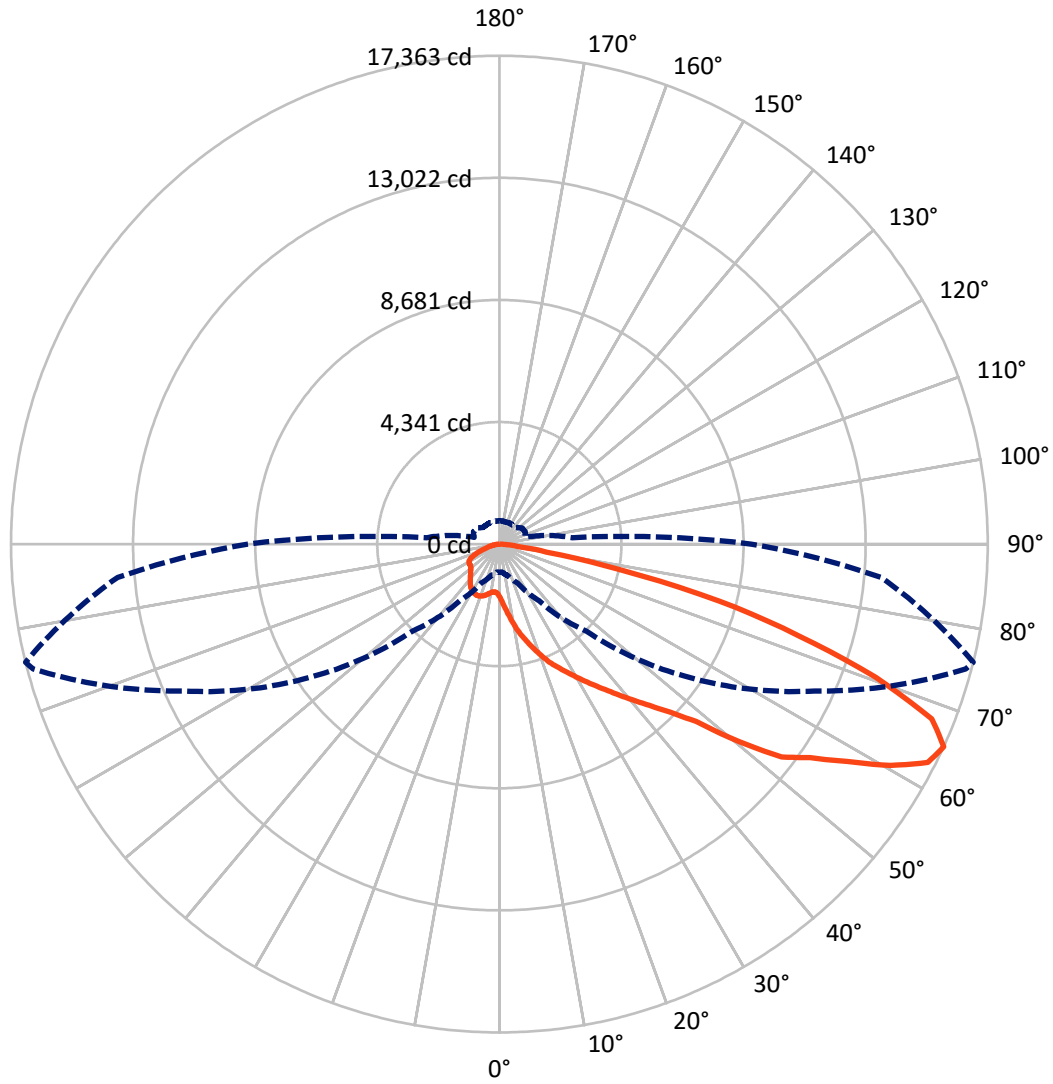
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	3310.5	0.0	3310.5
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	16495.0	0.0	16495.0
	% Fixture	83.3	0.0	83.3
Total	Lumens	19805.5	0.0	19805.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.8	1.1
10°-20°	848.7	4.3
20°-30°	1654.0	8.4
30°-40°	2766.2	14.0
40°-50°	3960.7	20.0
50°-60°	4688.9	23.7
60°-70°	3898.8	19.7
70°-80°	1595.5	8.1
80°-90°	169.9	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°	19805.5	100.0
0°-180°	19805.5	100.0

Coefficient of Utilization



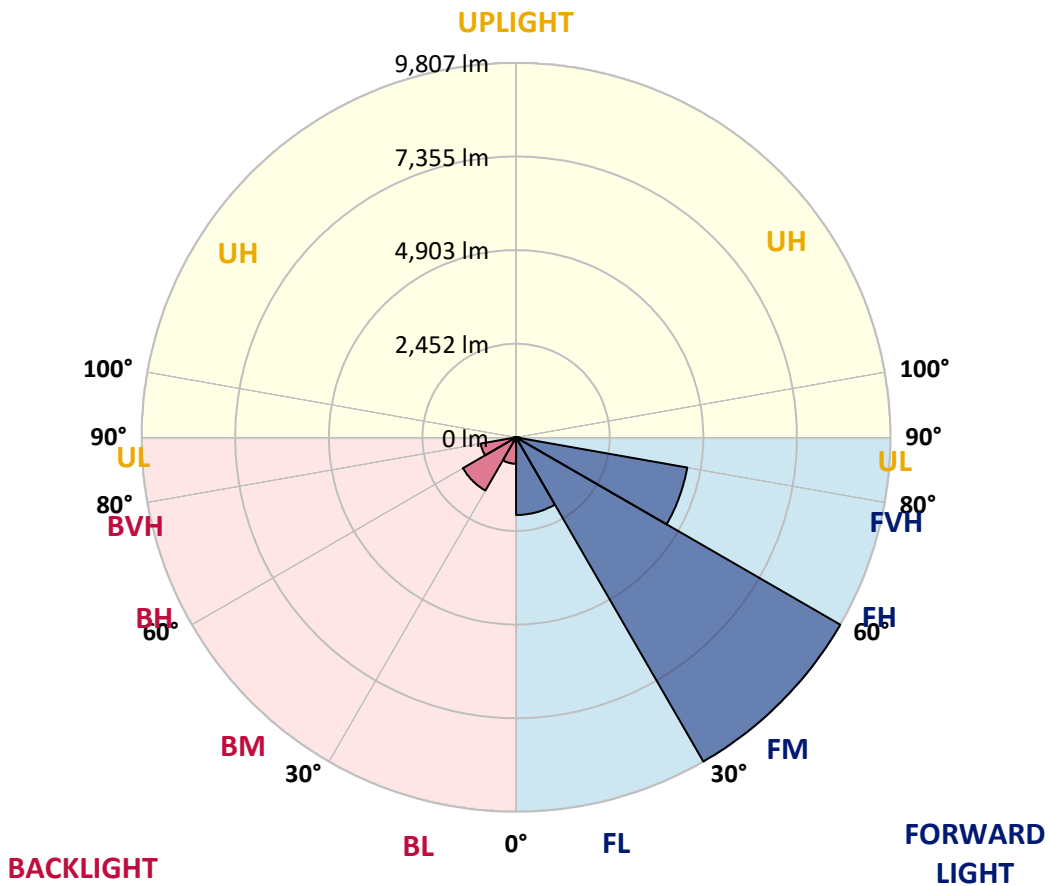
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2033.0	10.3			
FM (30°-60°)	9806.9	49.5			
FH (60°-80°)	4553.8	23.0			G2/5000
FVH (80°-90°)	101.3	0.5			G2/225
BL (0°-30°)	692.6	3.5	B2/1000		
BM (30°-60°)	1608.8	8.1	B2/2500		
BH (60°-80°)	940.6	4.7	B2/1000		G2/1000
BVH (80°-90°)	68.6	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°	1875.5	1875.5	1875.5	1875.5	1875.5	1875.5	1875.5	1875.5	1875.5	1875.5	1875.5
2.5°	2628.8	2638.5	2606.5	2595.4	2520.2	2418.5	2333.6	2205.5	2087.1	2069.0	1963.2
5°	3338.9	3297.1	3260.9	3237.2	3132.8	3017.2	2837.6	2596.7	2344.7	2314.1	2085.8
7.5°	3760.8	3753.8	3709.2	3695.3	3614.6	3499.0	3313.8	3014.5	2648.3	2598.1	2251.4
10°	4099.1	4094.9	4072.7	4085.2	4011.4	3898.6	3719.0	3409.9	2981.0	2930.9	2436.6
12.5°	4394.3	4401.2	4397.1	4443.0	4405.4	4317.7	4131.1	3791.4	3313.8	3259.5	2662.2
15°	4610.1	4615.7	4636.6	4736.8	4757.7	4739.6	4550.2	4165.9	3642.4	3564.4	2894.7
17.5°	4671.4	4682.5	4732.6	4894.1	5006.9	5082.1	4941.5	4547.4	3965.4	3880.5	3131.4
20°	4753.5	4766.0	4816.2	4984.6	5150.3	5321.6	5296.5	4934.5	4291.3	4221.6	3370.9
22.5°	5133.6	5123.9	5101.6	5182.4	5300.7	5513.7	5576.4	5306.3	4628.2	4561.4	3635.4
25°	5866.0	5847.9	5705.9	5632.1	5593.1	5722.6	5834.0	5644.6	4956.8	4856.5	3881.9
27.5°	6673.6	6663.8	6482.8	6307.4	6067.9	6012.2	6077.6	5939.8	5275.6	5174.0	4096.3
30°	7438.0	7408.7	7219.4	6999.4	6679.1	6439.7	6343.6	6229.4	5625.1	5519.3	4346.9
32.5°	8121.6	8084.0	7861.3	7617.6	7282.0	6999.4	6712.6	6537.1	6020.6	5898.0	4603.1
35°	8682.8	8645.2	8416.8	8157.8	7788.9	7580.0	7187.4	6871.3	6423.0	6299.0	4905.3
37.5°	9117.2	9082.4	8844.3	8589.5	8267.8	8102.1	7761.0	7247.2	6886.6	6757.1	5225.5
40°	9360.8	9335.8	9145.0	8943.1	8673.0	8529.6	8376.4	7722.0	7406.0	7276.5	5602.9
42.5°	9434.6	9417.9	9284.3	9179.8	8997.4	8888.8	8976.5	8280.4	7960.1	7847.3	6027.5
45°	9249.4	9249.4	9210.5	9263.4	9271.7	9270.3	9578.0	8911.1	8641.0	8517.1	6626.2
47.5°	8776.0	8806.7	8863.8	9124.1	9398.4	9628.2	10281.2	9752.1	9516.8	9415.1	7474.2
50°	7910.0	7993.5	8188.5	8696.7	9280.1	9864.9	10946.7	10995.5	11219.6	11040.0	8721.7
52.5°	6641.6	6629.0	7126.1	7850.1	8739.8	9874.6	11312.9	12092.6	12695.5	12571.6	9649.0
55°	5278.4	5257.5	5721.2	6719.5	7911.4	9501.5	11532.9	12595.3	13514.2	13402.8	10483.1
57.5°	4042.0	4015.6	4427.7	5328.6	6741.8	8709.2	11491.1	13194.0	14640.7	14583.6	11616.5
60°	2781.9	2749.9	3135.6	3923.7	5357.8	7497.9	11028.9	13501.7	15959.2	15978.7	12829.2
62.5°	1670.8	1652.7	1932.6	2543.8	3854.0	5996.9	9947.0	13315.1	17009.1	17096.8	13608.9
65°	1008.1	995.5	1159.8	1517.7	2445.0	4376.2	8279.0	12361.4	17160.8	17362.7	13627.0
67.5°	733.8	735.2	782.5	924.5	1425.8	2826.5	6212.7	10651.5	16370.0	16578.8	12767.9
70°	637.7	640.5	665.5	697.6	861.9	1617.9	4039.2	8408.5	14032.2	14193.7	10708.6
72.5°	566.7	566.7	583.4	600.1	673.9	985.8	2163.7	5877.1	11074.8	11118.0	8173.1
75°	498.5	494.3	502.6	511.0	584.8	689.2	1052.6	4094.9	8180.1	8079.9	5282.6
77.5°	396.8	392.6	394.0	402.4	469.2	492.9	533.3	2557.8	4610.1	4351.1	2333.6
80°	282.6	279.9	295.2	316.1	346.7	302.1	334.2	1237.8	1828.2	1701.5	905.0
82.5°	168.5	174.0	197.7	214.4	239.5	189.4	215.8	413.5	647.4	630.7	367.6
85°	23.7	25.1	71.0	82.1	103.0	73.8	114.2	186.6	259.0	277.1	129.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	9.7	33.4	73.8	75.2	32.0
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°	1875.5	1875.5	1875.5	1875.5	1875.5	1875.5	1875.5	1875.5	1875.5	1875.5	1875.5
2.5°	1908.9	1843.5	1750.2	1672.2	1606.8	1553.9	1509.3	1475.9	1466.2	1452.2	1452.2
5°	1978.5	1860.2	1693.1	1574.8	1506.5	1466.2	1438.3	1424.4	1417.4	1409.1	1404.9
7.5°	2074.6	1908.9	1683.4	1563.6	1510.7	1485.6	1467.5	1459.2	1453.6	1445.3	1445.3
10°	2206.9	1981.3	1714.0	1602.6	1560.8	1535.8	1514.9	1501.0	1488.4	1475.9	1473.1
12.5°	2350.3	2076.0	1769.7	1655.5	1611.0	1580.3	1551.1	1530.2	1514.9	1499.6	1495.4
15°	2509.0	2173.5	1829.6	1707.0	1651.3	1609.6	1574.8	1542.7	1521.8	1499.6	1496.8
17.5°	2665.0	2272.3	1879.7	1741.8	1670.8	1619.3	1569.2	1527.4	1501.0	1475.9	1468.9
20°	2851.6	2371.2	1914.5	1751.6	1666.7	1598.4	1538.6	1485.6	1456.4	1427.2	1423.0
22.5°	3022.8	2463.1	1931.2	1737.7	1634.6	1553.9	1484.3	1427.2	1395.1	1365.9	1360.3
25°	3188.5	2543.8	1924.2	1704.2	1585.9	1492.6	1420.2	1363.1	1332.5	1301.9	1293.5
27.5°	3348.6	2598.1	1896.4	1652.7	1524.6	1424.4	1354.8	1303.2	1276.8	1250.3	1239.2
30°	3506.0	2648.3	1853.2	1585.9	1446.7	1353.4	1296.3	1260.1	1233.6	1205.8	1197.4
32.5°	3664.7	2684.5	1787.8	1507.9	1367.3	1290.7	1255.9	1229.5	1201.6	1173.8	1165.4
35°	3824.8	2699.8	1708.4	1418.8	1300.5	1250.3	1237.8	1207.2	1169.6	1136.2	1125.0
37.5°	4015.6	2713.7	1609.6	1331.1	1242.0	1230.8	1228.1	1182.1	1137.6	1091.6	1079.1
40°	4245.3	2731.8	1507.9	1251.7	1194.6	1223.9	1212.7	1150.1	1061.0	1016.4	1002.5
42.5°	4526.6	2765.2	1402.1	1179.3	1159.8	1197.4	1184.9	1072.1	1012.2	987.2	980.2
45°	4940.1	2887.8	1296.3	1122.2	1133.4	1159.8	1140.3	1026.2	1002.5	985.8	977.4
47.5°	5676.6	3075.7	1204.4	1079.1	1112.5	1126.4	1051.2	1013.6	995.5	973.3	963.5
50°	6442.4	3157.9	1130.6	1052.6	1088.8	1095.8	1002.5	996.9	984.4	960.7	951.0
52.5°	6960.4	3146.7	1086.0	1042.9	1069.3	1042.9	980.2	978.8	970.5	942.6	931.5
55°	7545.2	3166.2	1066.5	1045.7	1061.0	953.8	952.4	956.6	952.4	921.7	916.2
57.5°	8334.7	3226.1	1056.8	1055.4	1055.4	910.6	925.9	931.5	923.1	909.2	905.0
60°	9093.5	3230.3	1038.7	1066.5	1051.2	884.1	895.3	900.9	891.1	888.3	886.9
62.5°	9378.9	3029.8	998.3	1058.2	1034.5	854.9	863.3	866.0	856.3	863.3	861.9
65°	8954.3	2603.7	931.5	1017.8	983.0	828.5	822.9	829.8	813.1	831.2	832.6
67.5°	7950.4	2069.0	829.8	941.2	910.6	799.2	788.1	788.1	760.2	788.1	786.7
70°	6410.4	1462.0	680.9	818.7	831.2	764.4	758.8	726.8	682.3	724.0	719.8
72.5°	4859.3	1049.8	536.1	647.4	715.7	715.7	717.1	662.8	611.2	630.7	614.0
75°	3078.5	739.3	428.8	495.7	561.1	628.0	660.0	559.7	513.8	505.4	497.1
77.5°	1386.8	485.9	334.2	380.1	398.2	495.7	602.9	481.8	419.1	401.0	395.4
80°	580.6	302.1	238.1	268.7	245.1	416.3	531.9	374.5	307.7	282.6	264.5
82.5°	254.8	179.6	151.8	144.8	153.2	309.1	396.8	249.2	192.1	260.4	263.2
85°	107.2	94.7	78.0	71.0	62.7	118.4	186.6	97.5	119.7	68.2	55.7
87.5°	25.1	27.8	20.9	13.9	8.4	1.4	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)