

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: P633930

Luminaire Tested: GWS-SA2F-760-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633930
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-SA2F-760-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16689 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

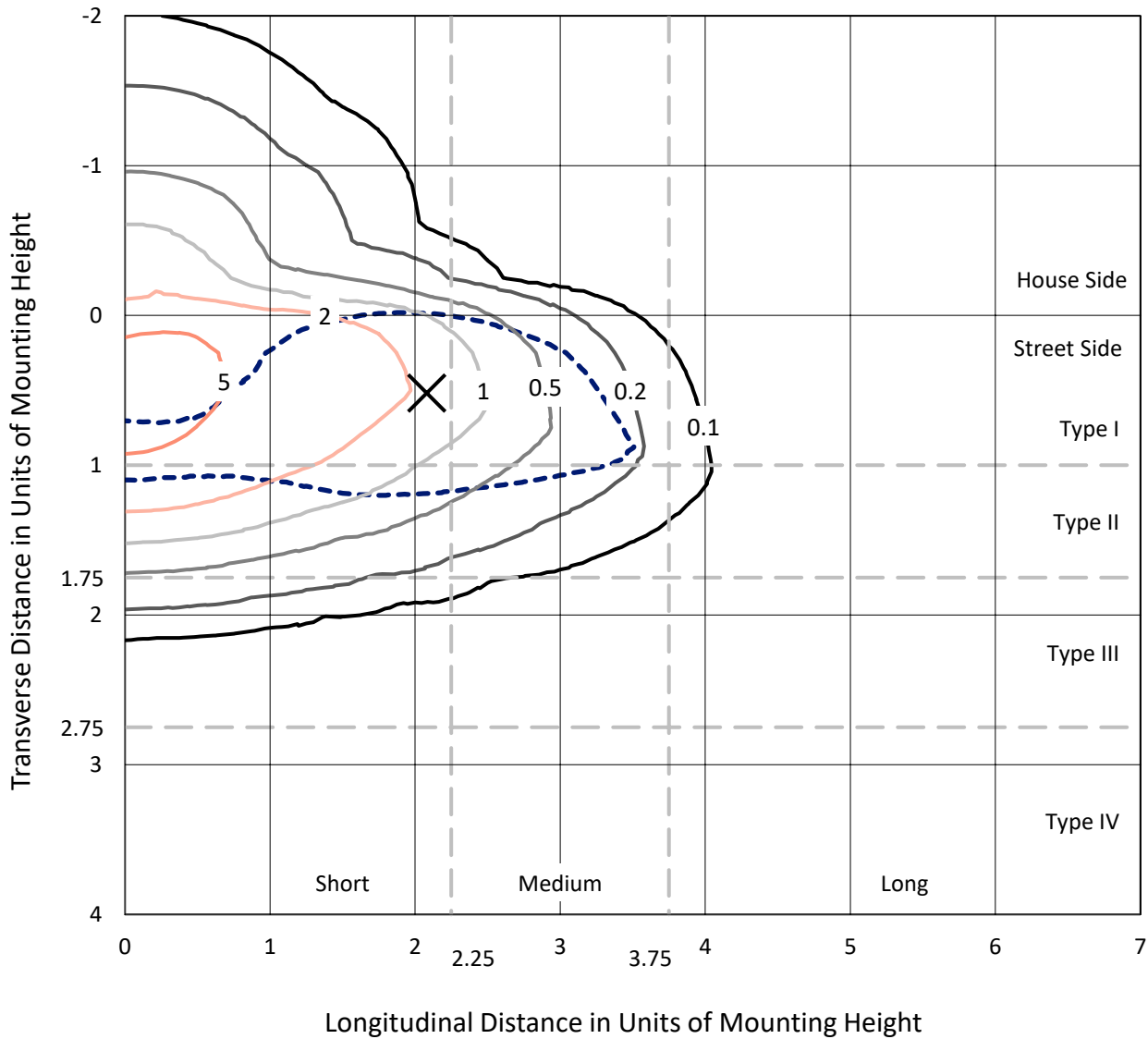
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

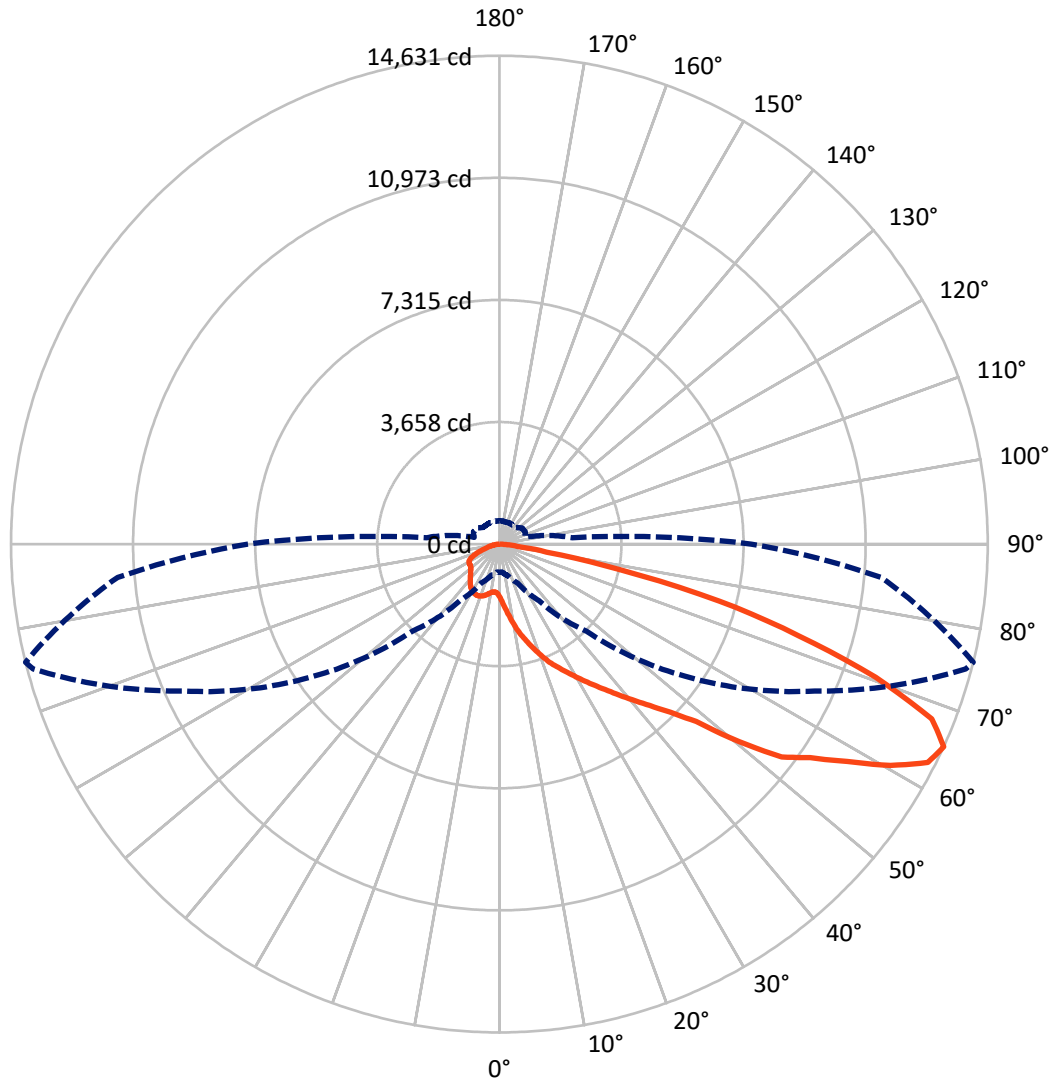
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	2789.6	0.0	2789.6
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	13899.4	0.0	13899.4
	% Fixture	83.3	0.0	83.3
Total	Lumens	16689.0	0.0	16689.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.8	1.1
10°-20°	715.2	4.3
20°-30°	1393.7	8.4
30°-40°	2330.9	14.0
40°-50°	3337.4	20.0
50°-60°	3951.1	23.7
60°-70°	3285.3	19.7
70°-80°	1344.4	8.1
80°-90°	143.1	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°	16689.0	100.0
0°-180°	16689.0	100.0

Coefficient of Utilization



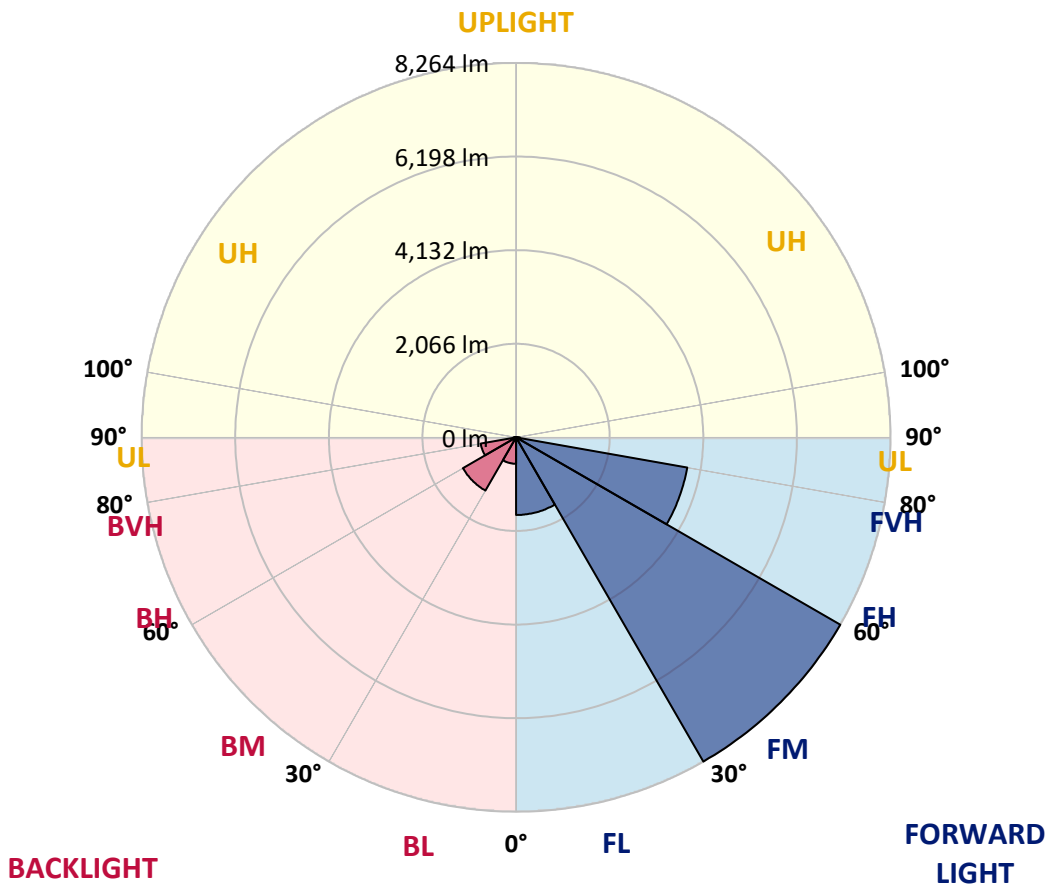
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1713.1	10.3			
FM (30°-60°)	8263.8	49.5			
FH (60°-80°)	3837.2	23.0			G2/5000
FVH (80°-90°)	85.4	0.5			G1/100
BL (0°-30°)	583.6	3.5	B2/1000		
BM (30°-60°)	1355.7	8.1	B2/2500		
BH (60°-80°)	792.6	4.7	B2/1000		G2/1000
BVH (80°-90°)	57.8	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°	1580.4	1580.4	1580.4	1580.4	1580.4	1580.4	1580.4	1580.4	1580.4	1580.4	1580.4
2.5°	2215.1	2223.3	2196.4	2187.0	2123.6	2038.0	1966.4	1858.5	1758.7	1743.5	1654.3
5°	2813.5	2778.3	2747.8	2727.8	2639.8	2542.5	2391.1	2188.1	1975.8	1950.0	1757.5
7.5°	3169.0	3163.1	3125.6	3113.8	3045.8	2948.4	2792.4	2540.1	2231.5	2189.3	1897.2
10°	3454.1	3450.6	3431.8	3442.4	3380.2	3285.1	3133.8	2873.3	2512.0	2469.7	2053.2
12.5°	3702.8	3708.7	3705.2	3743.9	3712.2	3638.3	3481.1	3194.8	2792.4	2746.6	2243.3
15°	3884.7	3889.4	3907.0	3991.4	4009.0	3993.8	3834.2	3510.4	3069.3	3003.6	2439.2
17.5°	3936.3	3945.7	3987.9	4124.0	4219.1	4282.4	4163.9	3831.9	3341.5	3269.9	2638.7
20°	4005.5	4016.1	4058.3	4200.3	4339.9	4484.2	4463.1	4158.0	3616.0	3557.3	2840.5
22.5°	4325.8	4317.6	4298.8	4366.9	4466.6	4646.1	4698.9	4471.3	3899.9	3843.6	3063.4
25°	4943.0	4927.7	4808.0	4745.9	4713.0	4822.1	4916.0	4756.4	4176.8	4092.3	3271.1
27.5°	5623.5	5615.2	5462.7	5314.9	5113.1	5066.2	5121.3	5005.1	4445.5	4359.8	3451.7
30°	6267.6	6242.9	6083.4	5898.0	5628.1	5426.3	5345.4	5249.2	4740.0	4650.8	3662.9
32.5°	6843.6	6812.0	6624.2	6418.9	6136.2	5898.0	5656.3	5508.5	5073.2	4969.9	3878.8
35°	7316.5	7284.8	7092.4	6874.2	6563.2	6387.2	6056.4	5790.1	5412.3	5307.8	4133.4
37.5°	7682.5	7653.2	7452.6	7237.9	6966.8	6827.2	6539.8	6106.8	5803.0	5693.9	4403.3
40°	7887.9	7866.7	7706.0	7535.9	7308.3	7187.4	7058.4	6506.9	6240.6	6131.5	4721.2
42.5°	7950.0	7936.0	7823.3	7735.3	7581.6	7490.1	7564.0	6977.4	6707.6	6612.5	5079.1
45°	7794.0	7794.0	7761.1	7805.7	7812.8	7811.6	8070.9	7508.9	7281.3	7176.9	5583.6
47.5°	7395.1	7420.9	7469.0	7688.4	7919.5	8113.1	8663.4	8217.5	8019.3	7933.6	6298.1
50°	6665.3	6735.7	6900.0	7328.2	7819.8	8312.6	9224.2	9265.3	9454.2	9302.8	7349.3
52.5°	5596.5	5585.9	6004.8	6614.9	7364.6	8320.8	9532.8	10189.8	10697.8	10593.4	8130.7
55°	4447.8	4430.2	4820.9	5662.2	6666.5	8006.4	9718.1	10613.3	11387.7	11293.8	8833.5
57.5°	3406.0	3383.7	3731.0	4490.1	5680.9	7338.8	9682.9	11117.8	12336.9	12288.8	9788.5
60°	2344.2	2317.2	2642.2	3306.3	4514.7	6318.0	9293.4	11377.1	13448.0	13464.4	10810.5
62.5°	1407.9	1392.7	1628.5	2143.6	3247.6	5053.2	8381.8	11219.9	14332.6	14406.5	11467.5
65°	849.4	838.9	977.3	1278.9	2060.3	3687.6	6976.2	10416.2	14460.5	14630.6	11482.7
67.5°	618.3	619.5	659.4	779.0	1201.4	2381.7	5235.1	8975.5	13794.1	13970.1	10758.8
70°	537.4	539.7	560.8	587.8	726.3	1363.3	3403.6	7085.3	11824.2	11960.3	9023.6
72.5°	477.5	477.5	491.6	505.7	567.9	830.7	1823.3	4952.3	9332.1	9368.5	6887.1
75°	420.0	416.5	423.5	430.6	492.8	580.8	887.0	3450.6	6892.9	6808.5	4451.4
77.5°	334.4	330.9	332.0	339.1	395.4	415.3	449.4	2155.3	3884.7	3666.5	1966.4
80°	238.2	235.8	248.7	266.3	292.1	254.6	281.6	1043.0	1540.5	1433.7	762.6
82.5°	142.0	146.7	166.6	180.7	201.8	159.6	181.9	348.5	545.6	531.5	309.7
85°	19.9	21.1	59.8	69.2	86.8	62.2	96.2	157.2	218.2	233.5	109.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	8.2	28.2	62.2	63.4	27.0
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°	1580.4	1580.4	1580.4	1580.4	1580.4	1580.4	1580.4	1580.4	1580.4	1580.4	1580.4
2.5°	1608.5	1553.4	1474.8	1409.1	1353.9	1309.4	1271.8	1243.7	1235.4	1223.7	1223.7
5°	1667.2	1567.5	1426.7	1327.0	1269.5	1235.4	1212.0	1200.2	1194.4	1187.3	1183.8
7.5°	1748.2	1608.5	1418.5	1317.6	1273.0	1251.9	1236.6	1229.6	1224.9	1217.8	1217.8
10°	1859.6	1669.6	1444.3	1350.4	1315.2	1294.1	1276.5	1264.8	1254.2	1243.7	1241.3
12.5°	1980.5	1749.3	1491.2	1395.0	1357.5	1331.7	1307.0	1289.4	1276.5	1263.6	1260.1
15°	2114.2	1831.5	1541.7	1438.4	1391.5	1356.3	1327.0	1300.0	1282.4	1263.6	1261.3
17.5°	2245.6	1914.8	1583.9	1467.8	1407.9	1364.5	1322.3	1287.1	1264.8	1243.7	1237.8
20°	2402.8	1998.1	1613.2	1476.0	1404.4	1346.9	1296.5	1251.9	1227.2	1202.6	1199.1
22.5°	2547.2	2075.5	1627.3	1464.2	1377.4	1309.4	1250.7	1202.6	1175.6	1151.0	1146.3
25°	2686.8	2143.6	1621.5	1436.1	1336.3	1257.7	1196.7	1148.6	1122.8	1097.0	1090.0
27.5°	2821.7	2189.3	1598.0	1392.7	1284.7	1200.2	1141.6	1098.2	1075.9	1053.6	1044.2
30°	2954.3	2231.5	1561.6	1336.3	1219.0	1140.4	1092.3	1061.8	1039.5	1016.0	1009.0
32.5°	3088.0	2262.1	1506.5	1270.6	1152.1	1087.6	1058.3	1036.0	1012.5	989.1	982.0
35°	3223.0	2275.0	1439.6	1195.6	1095.8	1053.6	1043.0	1017.2	985.5	957.4	948.0
37.5°	3383.7	2286.7	1356.3	1121.6	1046.6	1037.2	1034.8	996.1	958.6	919.8	909.3
40°	3577.3	2301.9	1270.6	1054.8	1006.7	1031.3	1021.9	969.1	894.0	856.5	844.8
42.5°	3814.3	2330.1	1181.5	993.8	977.3	1009.0	998.4	903.4	853.0	831.8	826.0
45°	4162.7	2433.3	1092.3	945.7	955.0	977.3	960.9	864.7	844.8	830.7	823.6
47.5°	4783.4	2591.7	1014.9	909.3	937.4	949.2	885.8	854.1	838.9	820.1	811.9
50°	5428.7	2661.0	952.7	887.0	917.5	923.4	844.8	840.1	829.5	809.6	801.3
52.5°	5865.1	2651.6	915.1	878.8	901.1	878.8	826.0	824.8	817.8	794.3	784.9
55°	6357.9	2668.0	898.7	881.1	894.0	803.7	802.5	806.0	802.5	776.7	772.0
57.5°	7023.2	2718.5	890.5	889.3	889.3	767.3	780.2	784.9	777.9	766.1	762.6
60°	7662.6	2722.0	875.3	898.7	885.8	745.0	754.4	759.1	750.9	748.5	747.4
62.5°	7903.1	2553.0	841.2	891.7	871.7	720.4	727.4	729.8	721.6	727.4	726.3
65°	7545.3	2194.0	784.9	857.7	828.3	698.1	693.4	699.3	685.2	700.4	701.6
67.5°	6699.3	1743.5	699.3	793.1	767.3	673.5	664.1	664.1	640.6	664.1	662.9
70°	5401.7	1231.9	573.7	689.9	700.4	644.1	639.4	612.4	574.9	610.1	606.6
72.5°	4094.7	884.6	451.7	545.6	603.1	603.1	604.2	558.5	515.1	531.5	517.4
75°	2594.1	623.0	361.4	417.7	472.8	529.1	556.1	471.7	432.9	425.9	418.9
77.5°	1168.6	409.5	281.6	320.3	335.6	417.7	508.0	405.9	353.2	337.9	333.2
80°	489.3	254.6	200.6	226.4	206.5	350.8	448.2	315.6	259.3	238.2	222.9
82.5°	214.7	151.4	127.9	122.0	129.1	260.5	334.4	210.0	161.9	219.4	221.7
85°	90.3	79.8	65.7	59.8	52.8	99.7	157.2	82.1	100.9	57.5	46.9
87.5°	21.1	23.5	17.6	11.7	7.0	1.2	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)