

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: P636900

Luminaire Tested: GWS-SA4B-760-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636900
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-SA4B-760-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14890.4 lumens
Efficiency: N/A
Efficacy: 157.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

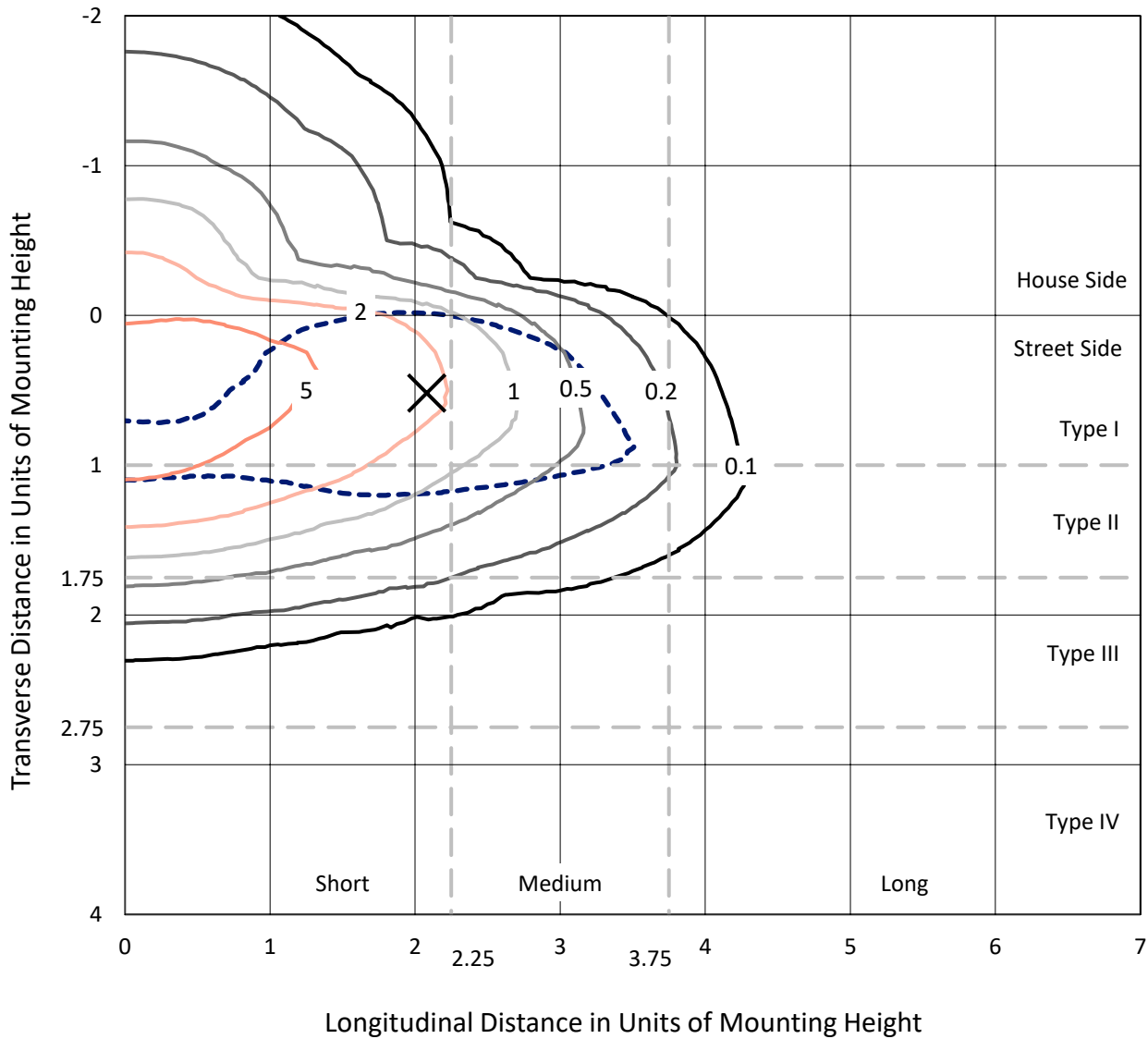
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

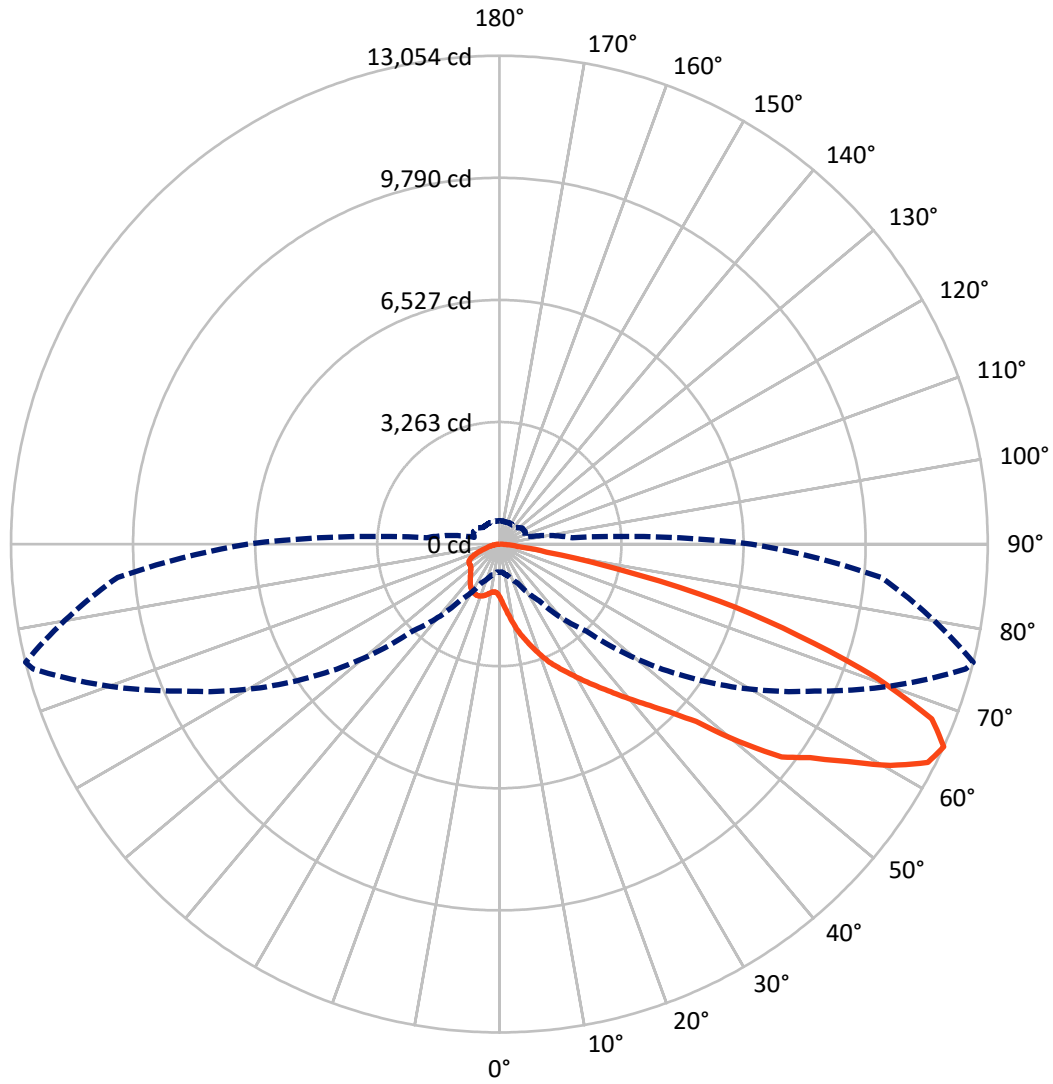
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.2 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	2488.9	0.0	2488.9
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	12401.5	0.0	12401.5
	% Fixture	83.3	0.0	83.3
Total	Lumens	14890.4	0.0	14890.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.5	1.1
10°-20°	638.1	4.3
20°-30°	1243.5	8.4
30°-40°	2079.7	14.0
40°-50°	2977.8	20.0
50°-60°	3525.3	23.7
60°-70°	2931.3	19.7
70°-80°	1199.6	8.1
80°-90°	127.7	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°	14890.4	100.0
0°-180°	14890.4	100.0

Coefficient of Utilization



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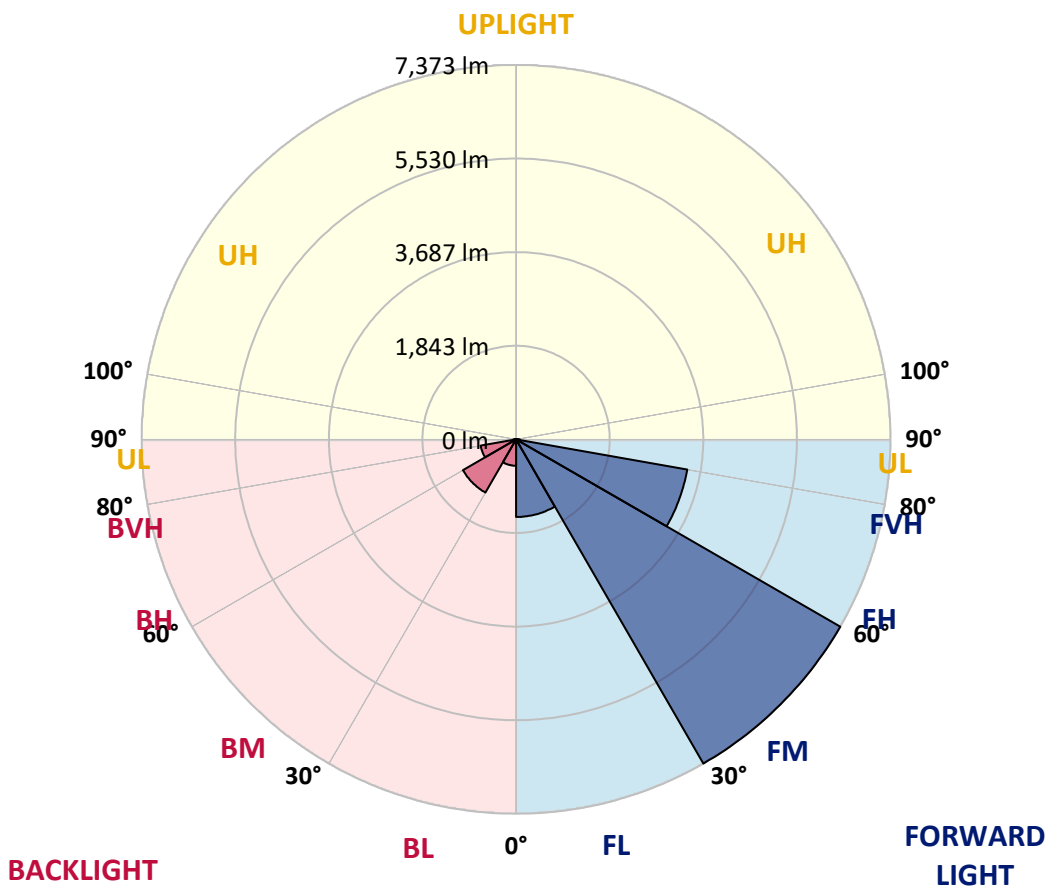
CATALOG NUMBER: GWS-SA4B-760-U-T2R-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1528.4	10.3			
FM (30°-60°)	7373.2	49.5			
FH (60°-80°)	3423.7	23.0			G2/5000
FVH (80°-90°)	76.2	0.5			G1/100
BL (0°-30°)	520.7	3.5	B2/1000		
BM (30°-60°)	1209.6	8.1	B2/2500		
BH (60°-80°)	707.1	4.7	B2/1000		G2/1000
BVH (80°-90°)	51.5	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°	1410.1	1410.1	1410.1	1410.1	1410.1	1410.1	1410.1	1410.1	1410.1	1410.1	1410.1
2.5°	1976.4	1983.7	1959.6	1951.3	1894.7	1818.3	1754.5	1658.2	1569.2	1555.6	1476.0
5°	2510.3	2478.9	2451.7	2433.9	2355.3	2268.5	2133.4	1952.3	1762.8	1739.8	1568.1
7.5°	2827.5	2822.2	2788.7	2778.3	2717.5	2630.7	2491.4	2266.4	1991.1	1953.4	1692.7
10°	3081.8	3078.7	3061.9	3071.4	3015.9	2931.1	2796.1	2563.7	2241.2	2203.6	1831.9
12.5°	3303.8	3309.0	3305.9	3340.4	3312.1	3246.2	3105.9	2850.5	2491.4	2450.6	2001.5
15°	3466.0	3470.2	3485.9	3561.3	3577.0	3563.4	3421.0	3132.1	2738.5	2679.9	2176.3
17.5°	3512.1	3520.5	3558.1	3679.6	3764.4	3820.9	3715.2	3418.9	2981.3	2917.5	2354.3
20°	3573.8	3583.3	3620.9	3747.6	3872.2	4000.9	3982.1	3709.9	3226.3	3174.0	2534.3
22.5°	3859.6	3852.3	3835.5	3896.3	3985.2	4145.4	4192.5	3989.4	3479.6	3429.4	2733.2
25°	4410.3	4396.6	4289.9	4234.4	4205.1	4302.4	4386.2	4243.8	3726.7	3651.3	2918.5
27.5°	5017.4	5010.1	4874.0	4742.1	4562.0	4520.2	4569.4	4465.7	3966.4	3890.0	3079.7
30°	5592.1	5570.1	5427.8	5262.4	5021.6	4841.5	4769.3	4683.5	4229.2	4149.6	3268.2
32.5°	6106.1	6077.8	5910.3	5727.1	5474.9	5262.4	5046.7	4914.8	4526.4	4434.3	3460.8
35°	6528.0	6499.7	6328.0	6133.3	5855.9	5698.9	5403.7	5166.1	4829.0	4735.8	3687.9
37.5°	6854.6	6828.4	6649.4	6457.8	6216.0	6091.4	5835.0	5448.7	5177.6	5080.2	3928.7
40°	7037.8	7018.9	6875.5	6723.7	6520.6	6412.8	6297.7	5805.7	5568.0	5470.7	4212.4
42.5°	7093.2	7080.7	6980.2	6901.7	6764.5	6682.9	6748.8	6225.4	5984.7	5899.9	4531.7
45°	6954.0	6954.0	6924.7	6964.5	6970.8	6969.7	7201.1	6699.6	6496.6	6403.4	4981.8
47.5°	6598.1	6621.1	6664.1	6859.8	7066.0	7238.8	7729.7	7331.9	7155.0	7078.6	5619.3
50°	5947.0	6009.8	6156.3	6538.4	6977.1	7416.7	8230.1	8266.7	8435.3	8300.2	6557.3
52.5°	4993.3	4983.9	5357.6	5902.0	6570.9	7424.0	8505.4	9091.6	9544.9	9451.7	7254.5
55°	3968.5	3952.8	4301.4	5052.0	5948.0	7143.5	8670.8	9469.5	10160.4	10076.7	7881.5
57.5°	3038.9	3019.0	3328.9	4006.2	5068.7	6547.9	8639.4	9919.7	11007.3	10964.4	8733.6
60°	2091.5	2067.5	2357.4	2949.9	4028.2	5637.1	8291.9	10151.0	11998.6	12013.3	9645.4
62.5°	1256.2	1242.6	1453.0	1912.5	2897.6	4508.7	7478.5	10010.7	12787.9	12853.9	10231.6
65°	757.9	748.5	872.0	1141.0	1838.2	3290.2	6224.4	9293.7	12902.1	13053.8	10245.2
67.5°	551.7	552.7	588.3	695.1	1071.9	2125.0	4670.9	8008.2	12307.5	12464.5	9599.3
70°	479.4	481.5	500.4	524.5	648.0	1216.4	3036.8	6321.7	10549.8	10671.3	8051.1
72.5°	426.1	426.1	438.6	451.2	506.7	741.1	1626.8	4418.6	8326.4	8358.9	6144.8
75°	374.8	371.6	377.9	384.2	439.7	518.2	791.4	3078.7	6150.1	6074.7	3971.6
77.5°	298.3	295.2	296.2	302.5	352.8	370.6	400.9	1923.0	3466.0	3271.3	1754.5
80°	212.5	210.4	221.9	237.6	260.7	227.2	251.2	930.6	1374.5	1279.2	680.4
82.5°	126.7	130.9	148.6	161.2	180.1	142.4	162.3	310.9	486.8	474.2	276.4
85°	17.8	18.8	53.4	61.8	77.5	55.5	85.8	140.3	194.7	208.3	97.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.3	25.1	55.5	56.5	24.1
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°	1410.1	1410.1	1410.1	1410.1	1410.1	1410.1	1410.1	1410.1	1410.1	1410.1	1410.1
2.5°	1435.2	1386.0	1315.9	1257.2	1208.0	1168.3	1134.8	1109.6	1102.3	1091.8	1091.8
5°	1487.5	1398.6	1272.9	1184.0	1132.7	1102.3	1081.4	1070.9	1065.7	1059.4	1056.2
7.5°	1559.8	1435.2	1265.6	1175.6	1135.8	1117.0	1103.3	1097.1	1092.9	1086.6	1086.6
10°	1659.2	1489.6	1288.6	1204.9	1173.5	1154.6	1138.9	1128.5	1119.1	1109.6	1107.5
12.5°	1767.0	1560.8	1330.5	1244.7	1211.2	1188.1	1166.2	1150.5	1138.9	1127.4	1124.3
15°	1886.4	1634.1	1375.5	1283.4	1241.5	1210.1	1184.0	1159.9	1144.2	1127.4	1125.3
17.5°	2003.6	1708.4	1413.2	1309.6	1256.2	1217.5	1179.8	1148.4	1128.5	1109.6	1104.4
20°	2143.9	1782.7	1439.4	1316.9	1253.0	1201.7	1156.7	1117.0	1095.0	1073.0	1069.8
22.5°	2272.6	1851.8	1451.9	1306.4	1229.0	1168.3	1115.9	1073.0	1048.9	1026.9	1022.7
25°	2397.2	1912.5	1446.7	1281.3	1192.3	1122.2	1067.8	1024.8	1001.8	978.8	972.5
27.5°	2517.6	1953.4	1425.8	1242.6	1146.3	1070.9	1018.6	979.8	959.9	940.0	931.7
30°	2635.9	1991.1	1393.3	1192.3	1087.6	1017.5	974.6	947.4	927.5	906.5	900.3
32.5°	2755.2	2018.3	1344.1	1133.7	1028.0	970.4	944.2	924.3	903.4	882.5	876.2
35°	2875.6	2029.8	1284.4	1066.7	977.7	940.0	930.6	907.6	879.3	854.2	845.8
37.5°	3019.0	2040.3	1210.1	1000.8	933.8	925.4	923.3	888.7	855.3	820.7	811.3
40°	3191.8	2053.9	1133.7	941.1	898.2	920.2	911.8	864.7	797.7	764.2	753.7
42.5°	3403.2	2079.0	1054.1	886.7	872.0	900.3	890.8	806.1	761.0	742.2	737.0
45°	3714.1	2171.1	974.6	843.7	852.1	872.0	857.3	771.5	753.7	741.1	734.9
47.5°	4267.9	2312.4	905.5	811.3	836.4	846.9	790.3	762.1	748.5	731.7	724.4
50°	4843.6	2374.2	850.0	791.4	818.6	823.8	753.7	749.5	740.1	722.3	715.0
52.5°	5233.1	2365.8	816.5	784.1	804.0	784.1	737.0	735.9	729.6	708.7	700.3
55°	5672.7	2380.5	801.9	786.2	797.7	717.1	716.0	719.2	716.0	693.0	688.8
57.5°	6266.3	2425.5	794.5	793.5	793.5	684.6	696.1	700.3	694.0	683.6	680.4
60°	6836.8	2428.6	780.9	801.9	790.3	664.7	673.1	677.3	670.0	667.9	666.8
62.5°	7051.4	2277.9	750.6	795.6	777.8	642.7	649.0	651.1	643.8	649.0	648.0
65°	6732.1	1957.6	700.3	765.2	739.1	622.9	618.7	623.9	611.3	625.0	626.0
67.5°	5977.3	1555.6	623.9	707.6	684.6	600.9	592.5	592.5	571.6	592.5	591.5
70°	4819.6	1099.2	511.9	615.5	625.0	574.7	570.5	546.4	512.9	544.3	541.2
72.5°	3653.4	789.3	403.0	486.8	538.1	538.1	539.1	498.3	459.6	474.2	461.6
75°	2314.5	555.9	322.4	372.7	421.9	472.1	496.2	420.8	386.3	380.0	373.7
77.5°	1042.6	365.3	251.2	285.8	299.4	372.7	453.3	362.2	315.1	301.5	297.3
80°	436.5	227.2	179.0	202.0	184.2	313.0	399.9	281.6	231.3	212.5	198.9
82.5°	191.6	135.0	114.1	108.9	115.2	232.4	298.3	187.4	144.5	195.8	197.8
85°	80.6	71.2	58.6	53.4	47.1	89.0	140.3	73.3	90.0	51.3	41.9
87.5°	18.8	20.9	15.7	10.5	6.3	1.0	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)