

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: P636570

Luminaire Tested: GWS-SA4B-722-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636570
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-722-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10871.5 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

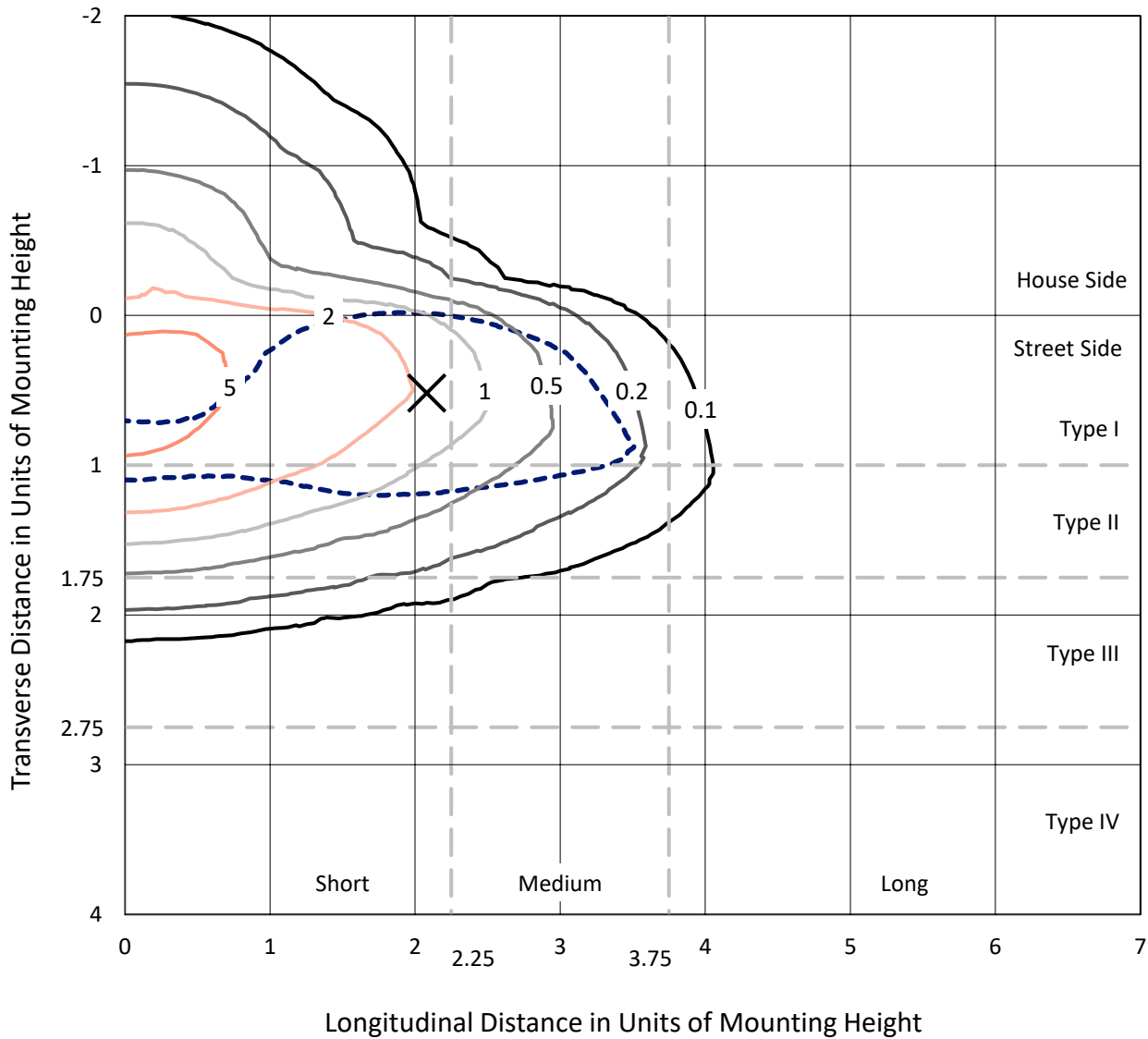
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

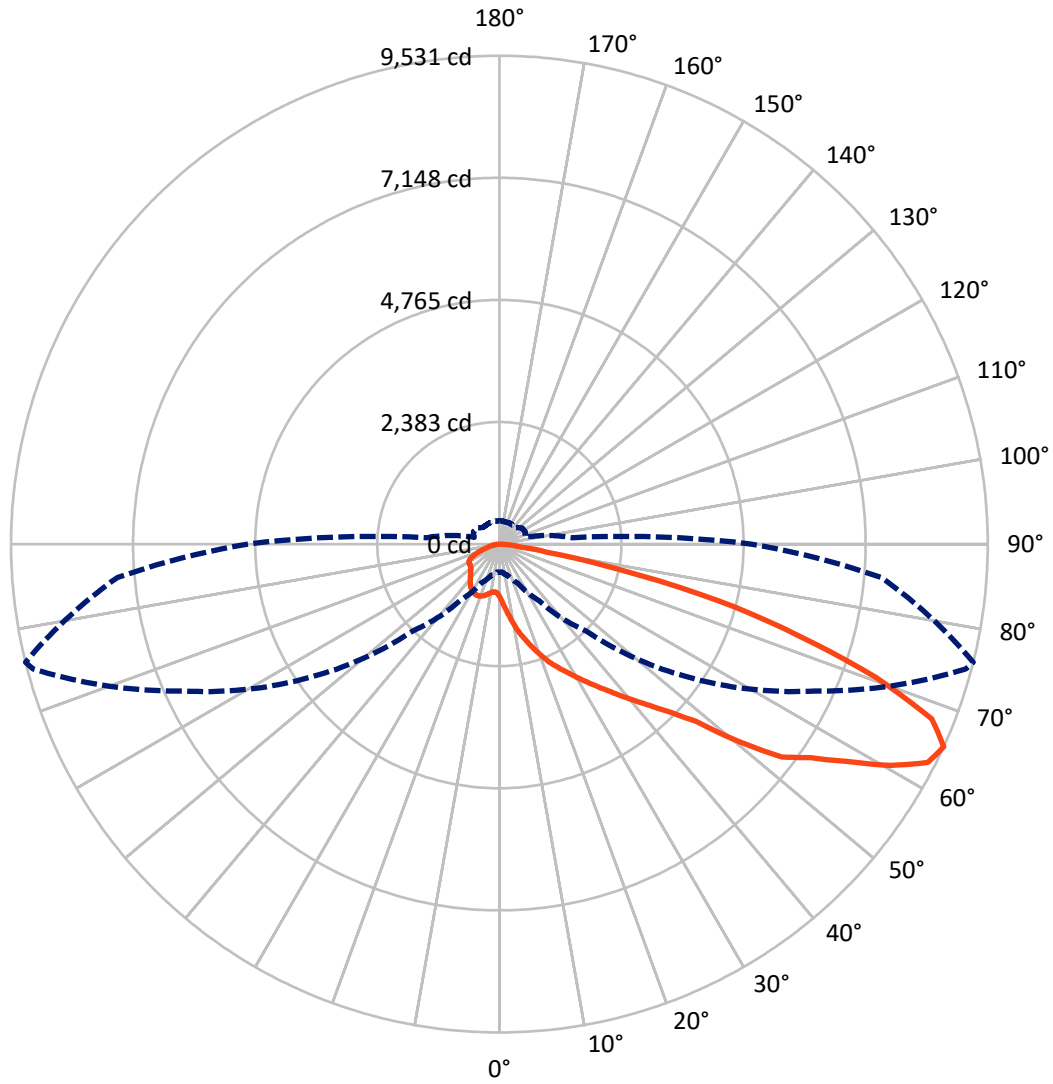
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.7 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	1817.2	0.0	1817.2
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	9054.3	0.0	9054.3
	% Fixture	83.3	0.0	83.3
Total	Lumens	10871.5	0.0	10871.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.3	1.1
10°-20°	465.9	4.3
20°-30°	907.9	8.4
30°-40°	1518.4	14.0
40°-50°	2174.1	20.0
50°-60°	2573.8	23.7
60°-70°	2140.1	19.7
70°-80°	875.8	8.1
80°-90°	93.2	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°	10871.5	100.0
0°-180°	10871.5	100.0

Coefficient of Utilization



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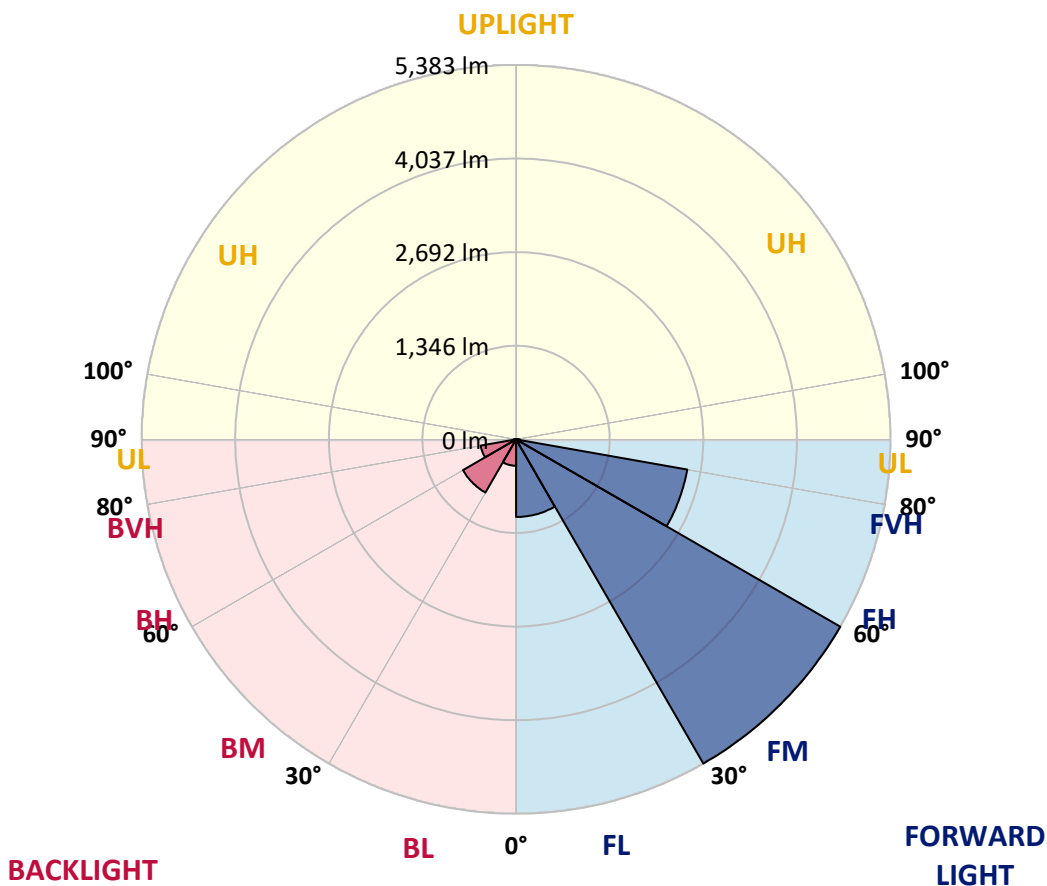
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1115.9	10.3			
FM (30°-60°)	5383.2	49.5			
FH (60°-80°)	2499.6	23.0			G2/5000
FVH (80°-90°)	55.6	0.5			G1/100
BL (0°-30°)	380.2	3.5	B1/500		
BM (30°-60°)	883.1	8.1	B1/1000		
BH (60°-80°)	516.3	4.7	B2/1000		G2/1000
BVH (80°-90°)	37.6	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°	1029.5	1029.5	1029.5	1029.5	1029.5	1029.5	1029.5	1029.5	1029.5	1029.5	1029.5
2.5°	1443.0	1448.3	1430.7	1424.6	1383.4	1327.6	1280.9	1210.6	1145.7	1135.7	1077.6
5°	1832.8	1809.8	1790.0	1777.0	1719.6	1656.2	1557.6	1425.4	1287.1	1270.2	1144.9
7.5°	2064.3	2060.5	2036.1	2028.4	1984.1	1920.6	1819.0	1654.7	1453.7	1426.2	1235.8
10°	2250.1	2247.8	2235.5	2242.4	2201.9	2140.0	2041.4	1871.7	1636.3	1608.8	1337.5
12.5°	2412.1	2415.9	2413.6	2438.8	2418.2	2370.0	2267.6	2081.1	1819.0	1789.2	1461.3
15°	2530.5	2533.6	2545.1	2600.1	2611.6	2601.6	2497.7	2286.7	1999.4	1956.6	1588.9
17.5°	2564.2	2570.3	2597.8	2686.5	2748.4	2789.6	2712.4	2496.2	2176.7	2130.1	1718.9
20°	2609.3	2616.1	2643.7	2736.1	2827.1	2921.1	2907.3	2708.6	2355.5	2317.3	1850.3
22.5°	2817.9	2812.6	2800.3	2844.7	2909.6	3026.6	3061.0	2912.7	2540.5	2503.8	1995.5
25°	3219.9	3210.0	3132.0	3091.5	3070.1	3141.2	3202.4	3098.4	2720.9	2665.8	2130.8
27.5°	3663.2	3657.9	3558.5	3462.2	3330.8	3300.2	3336.1	3260.4	2895.9	2840.1	2248.5
30°	4082.8	4066.8	3962.8	3842.1	3666.3	3534.8	3482.1	3419.4	3087.7	3029.6	2386.1
32.5°	4458.1	4437.4	4315.1	4181.4	3997.2	3842.1	3684.6	3588.3	3304.8	3237.5	2526.7
35°	4766.1	4745.4	4620.1	4477.9	4275.4	4160.8	3945.2	3771.7	3525.6	3457.6	2692.6
37.5°	5004.5	4985.4	4854.7	4714.9	4538.3	4447.4	4260.1	3978.1	3780.1	3709.1	2868.4
40°	5138.3	5124.5	5019.8	4909.0	4760.7	4682.0	4597.9	4238.7	4065.2	3994.1	3075.5
42.5°	5178.8	5169.6	5096.2	5038.9	4938.8	4879.2	4927.3	4545.2	4369.4	4307.5	3308.6
45°	5077.1	5077.1	5055.7	5084.8	5089.4	5088.6	5257.5	4891.4	4743.1	4675.1	3637.2
47.5°	4817.3	4834.1	4865.4	5008.4	5158.9	5285.0	5643.5	5353.0	5223.9	5168.1	4102.7
50°	4341.9	4387.8	4494.8	4773.7	5094.0	5415.0	6008.8	6035.6	6158.6	6060.0	4787.5
52.5°	3645.6	3638.8	3911.6	4309.0	4797.4	5420.3	6209.8	6637.8	6968.7	6900.7	5296.5
55°	2897.4	2885.9	3140.4	3688.4	4342.7	5215.5	6330.6	6913.7	7418.1	7357.0	5754.3
57.5°	2218.7	2204.2	2430.4	2924.9	3700.7	4780.6	6307.6	7242.4	8036.4	8005.1	6376.4
60°	1527.0	1509.5	1721.2	2153.8	2941.0	4115.7	6053.9	7411.3	8760.2	8770.9	7042.1
62.5°	917.1	907.2	1060.8	1396.3	2115.5	3291.8	5460.0	7308.9	9336.5	9384.6	7470.1
65°	553.3	546.5	636.6	833.1	1342.1	2402.1	4544.4	6785.3	9419.8	9530.6	7480.0
67.5°	402.8	403.5	429.5	507.5	782.6	1551.5	3410.2	5846.8	8985.7	9100.3	7008.5
70°	350.0	351.6	365.3	382.9	473.1	888.1	2217.2	4615.5	7702.5	7791.1	5878.1
72.5°	311.1	311.1	320.2	329.4	369.9	541.1	1187.7	3226.0	6079.1	6102.8	4486.3
75°	273.6	271.3	275.9	280.5	321.0	378.3	577.8	2247.8	4490.2	4435.1	2899.7
77.5°	217.8	215.5	216.3	220.9	257.6	270.6	292.7	1404.0	2530.5	2388.4	1280.9
80°	155.1	153.6	162.0	173.5	190.3	165.8	183.4	679.4	1003.5	934.0	496.8
82.5°	92.5	95.5	108.5	117.7	131.5	103.9	118.5	227.0	355.4	346.2	201.8
85°	13.0	13.8	39.0	45.1	56.6	40.5	62.7	102.4	142.2	152.1	71.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.3	18.3	40.5	41.3	17.6
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°	1029.5	1029.5	1029.5	1029.5	1029.5	1029.5	1029.5	1029.5	1029.5	1029.5	1029.5
2.5°	1047.8	1011.9	960.7	917.9	882.0	852.9	828.5	810.1	804.8	797.1	797.1
5°	1086.0	1021.1	929.4	864.4	827.0	804.8	789.5	781.9	778.0	773.5	771.2
7.5°	1138.8	1047.8	924.0	858.3	829.2	815.5	805.6	801.0	797.9	793.3	793.3
10°	1211.4	1087.6	940.8	879.7	856.8	843.0	831.5	823.9	817.0	810.1	808.6
12.5°	1290.1	1139.5	971.4	908.7	884.3	867.5	851.4	839.9	831.5	823.1	820.8
15°	1377.2	1193.0	1004.3	937.0	906.4	883.5	864.4	846.8	835.4	823.1	821.6
17.5°	1462.8	1247.3	1031.8	956.1	917.1	888.9	861.3	838.4	823.9	810.1	806.3
20°	1565.3	1301.6	1050.9	961.5	914.8	877.4	844.5	815.5	799.4	783.4	781.1
22.5°	1659.3	1352.0	1060.1	953.8	897.3	852.9	814.7	783.4	765.8	749.8	746.7
25°	1750.2	1396.3	1056.2	935.5	870.5	819.3	779.6	748.2	731.4	714.6	710.0
27.5°	1838.1	1426.2	1041.0	907.2	836.9	781.9	743.6	715.4	700.8	686.3	680.2
30°	1924.5	1453.7	1017.3	870.5	794.1	742.9	711.5	691.7	677.2	661.9	657.3
32.5°	2011.6	1473.5	981.3	827.7	750.5	708.5	689.4	674.9	659.6	644.3	639.7
35°	2099.5	1481.9	937.8	778.8	713.8	686.3	679.4	662.6	642.0	623.7	617.5
37.5°	2204.2	1489.6	883.5	730.7	681.7	675.6	674.1	648.9	624.4	599.2	592.3
40°	2330.3	1499.5	827.7	687.1	655.8	671.8	665.7	631.3	582.4	557.9	550.3
42.5°	2484.7	1517.9	769.6	647.3	636.6	657.3	650.4	588.5	555.6	541.9	538.1
45°	2711.7	1585.1	711.5	616.0	622.1	636.6	625.9	563.3	550.3	541.1	536.5
47.5°	3116.0	1688.3	661.1	592.3	610.7	618.3	577.0	556.4	546.5	534.2	528.9
50°	3536.3	1733.4	620.6	577.8	597.7	601.5	550.3	547.2	540.3	527.4	522.0
52.5°	3820.7	1727.3	596.1	572.4	587.0	572.4	538.1	537.3	532.7	517.4	511.3
55°	4141.7	1738.0	585.4	574.0	582.4	523.5	522.8	525.1	522.8	506.0	502.9
57.5°	4575.0	1770.8	580.1	579.3	579.3	499.8	508.2	511.3	506.7	499.1	496.8
60°	4991.5	1773.1	570.2	585.4	577.0	485.3	491.4	494.5	489.1	487.6	486.8
62.5°	5148.2	1663.1	548.0	580.9	567.9	469.3	473.9	475.4	470.0	473.9	473.1
65°	4915.1	1429.2	511.3	558.7	539.6	454.7	451.7	455.5	446.3	456.3	457.0
67.5°	4364.1	1135.7	455.5	516.7	499.8	438.7	432.6	432.6	417.3	432.6	431.8
70°	3518.8	802.5	373.7	449.4	456.3	419.6	416.5	399.0	374.5	397.4	395.1
72.5°	2667.4	576.3	294.2	355.4	392.8	392.8	393.6	363.8	335.5	346.2	337.0
75°	1689.8	405.8	235.4	272.1	308.0	344.7	362.3	307.2	282.0	277.4	272.8
77.5°	761.2	266.7	183.4	208.6	218.6	272.1	330.9	264.4	230.0	220.1	217.1
80°	318.7	165.8	130.7	147.5	134.5	228.5	292.0	205.6	168.9	155.1	145.2
82.5°	139.9	98.6	83.3	79.5	84.1	169.7	217.8	136.8	105.5	142.9	144.4
85°	58.8	52.0	42.8	39.0	34.4	65.0	102.4	53.5	65.7	37.4	30.6
87.5°	13.8	15.3	11.5	7.6	4.6	0.8	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)