

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P798711

Luminaire Tested: **ARCH1-30-722-U-T3**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798711
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-30-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 950mA LIGHTSQUARE WITH 10 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3933 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

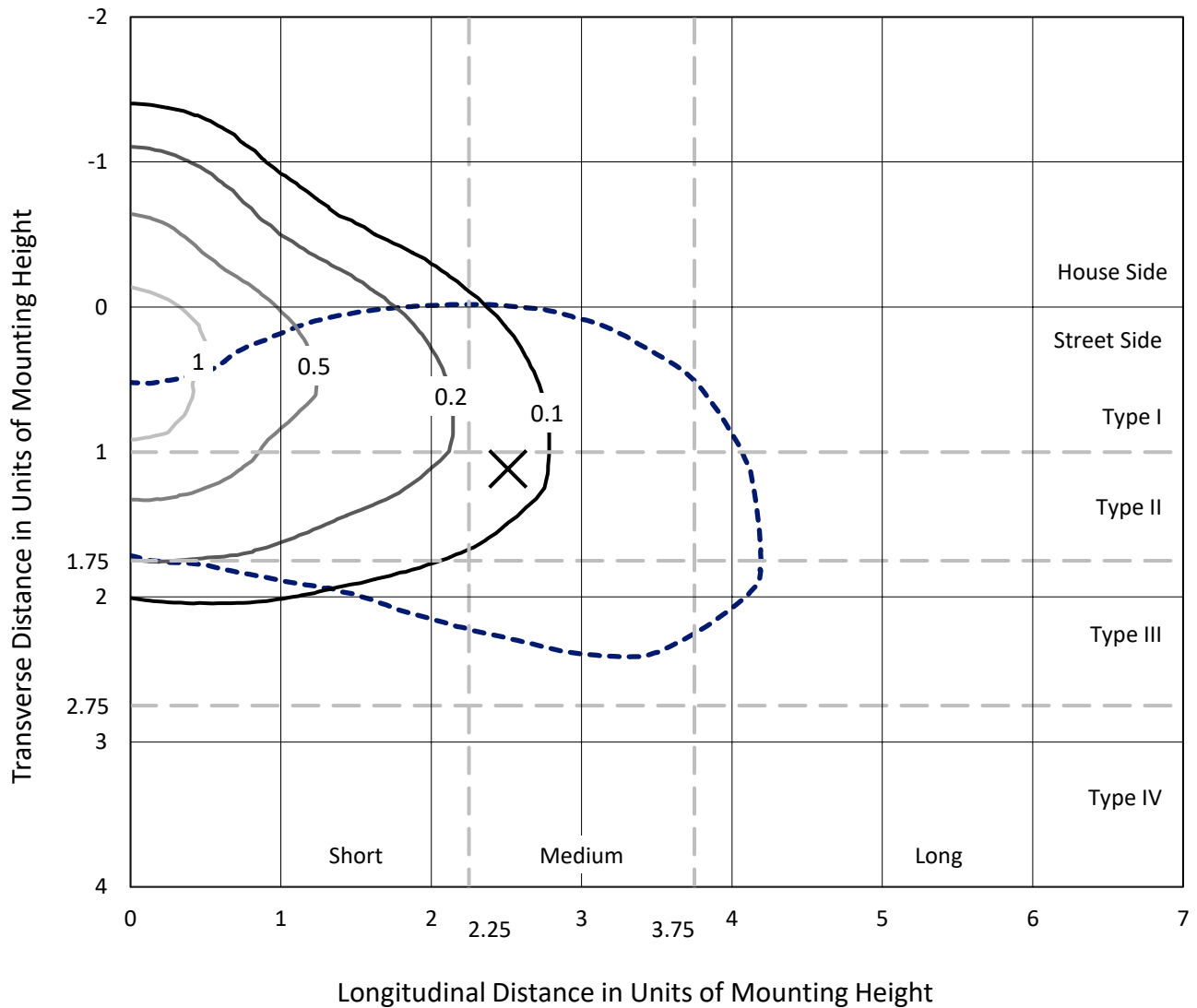
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

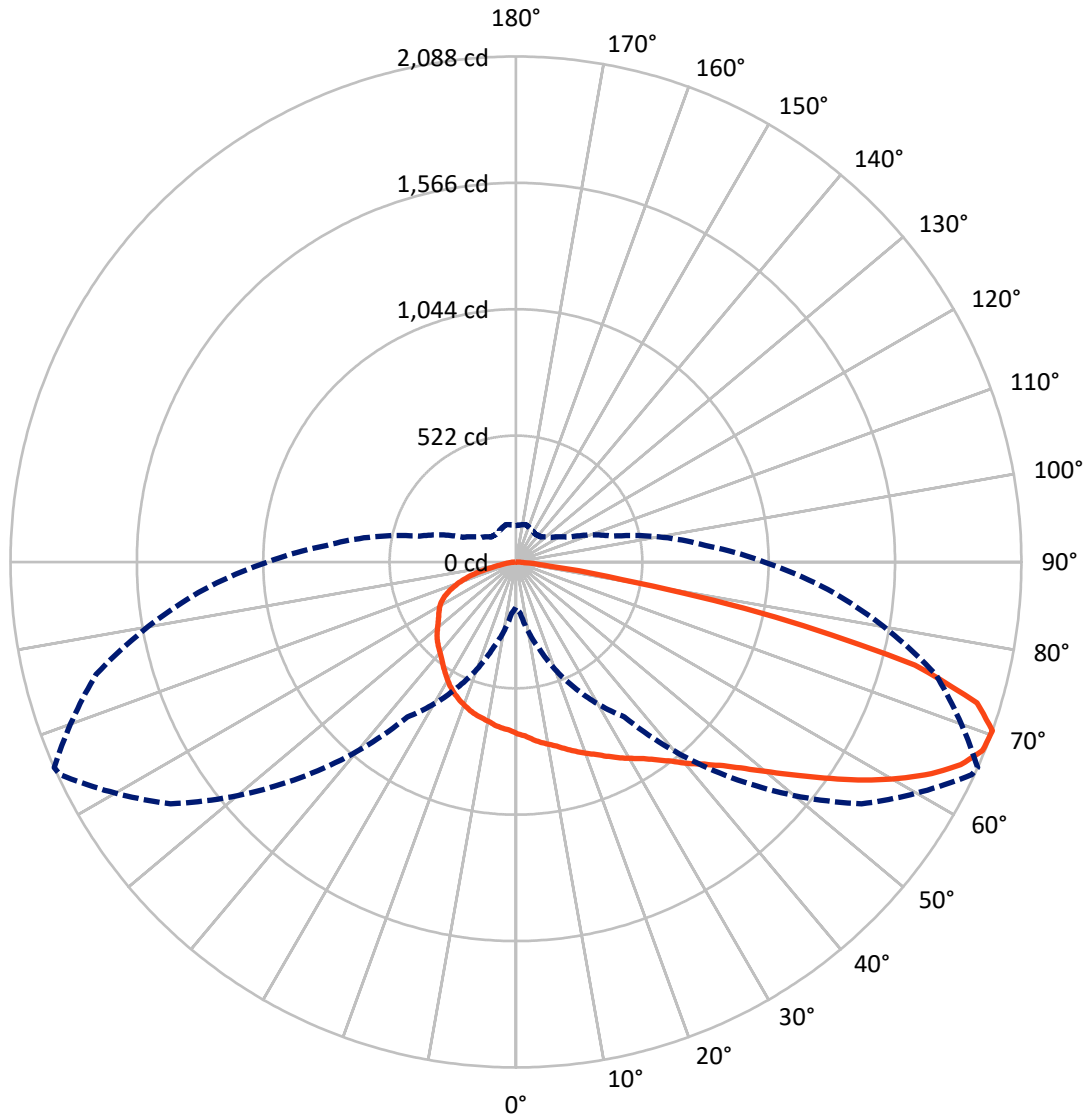
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1042.2	0.0	1042.2
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	2890.8	0.0	2890.8
	% Fixture	73.5	0.0	73.5
Total	Lumens	3933.0	0.0	3933.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.2	1.7
10°-20°	204.6	5.2
20°-30°	343.0	8.7
30°-40°	513.5	13.1
40°-50°	686.6	17.5
50°-60°	801.6	20.4
60°-70°	797.1	20.3
70°-80°	471.9	12.0
80°-90°	46.5	1.2
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°	3933.0	100.0
0°-180°	3933.0	100.0

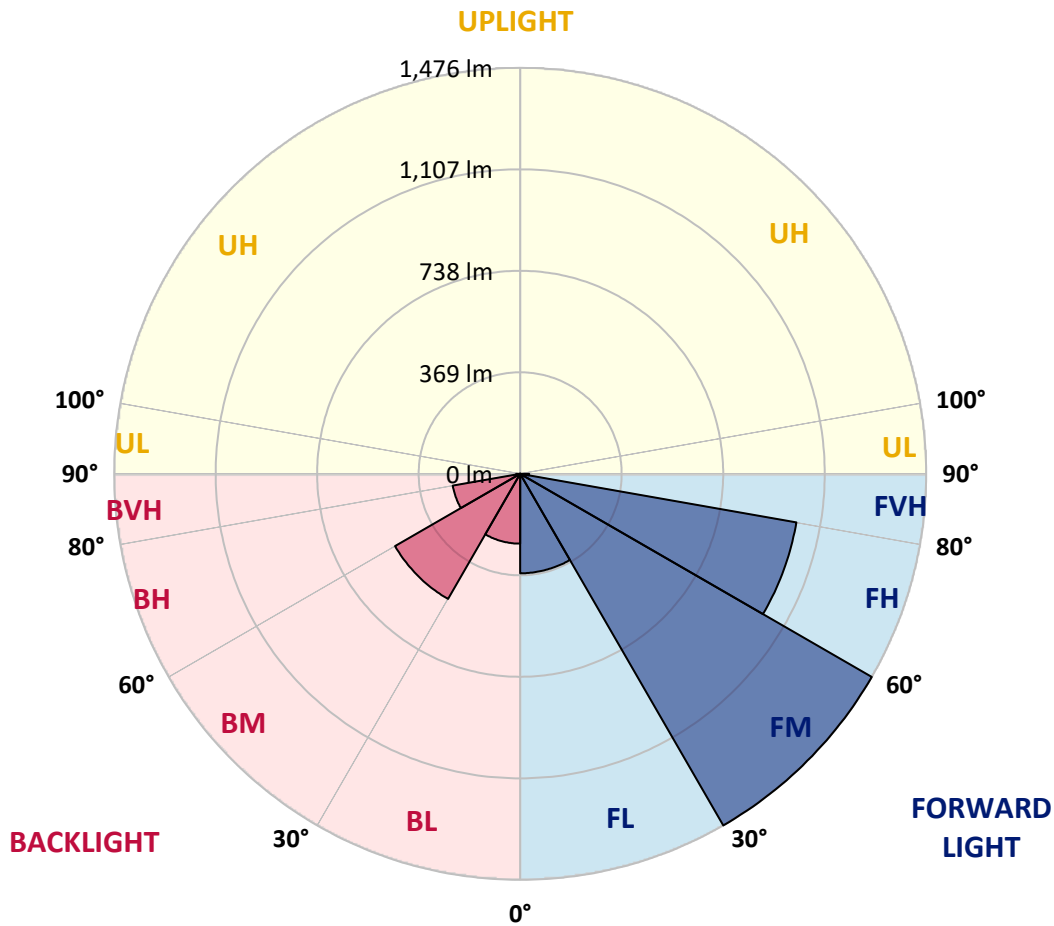


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	361.7	9.2			
FM (30°-60°)	1476.4	37.5			
FH (60°-80°)	1020.0	25.9			G1/1800
FVH (80°-90°)	32.7	0.8			G1/100
BL (0°-30°)	254.0	6.5	B1/500		
BM (30°-60°)	525.4	13.4	B1/1000		
BH (60°-80°)	248.9	6.3	B1/500		G1/500
BVH (80°-90°)	13.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8
2.5°	735.9	734.8	734.2	731.9	726.6	729.0	723.7	720.3	719.7	711.6	706.9
5°	766.1	765.5	764.3	760.8	752.7	753.9	745.2	738.8	737.1	724.3	714.5
7.5°	791.6	790.4	789.8	785.2	776.5	775.9	765.5	756.2	753.3	735.9	720.8
10°	811.3	809.6	810.7	806.1	796.8	795.1	781.7	769.5	766.6	744.6	723.7
12.5°	828.1	827.0	828.7	824.6	817.1	815.4	802.0	786.4	782.9	757.4	730.1
15°	846.7	842.6	846.1	844.4	839.1	838.6	826.4	809.0	804.3	773.6	740.0
17.5°	856.5	854.2	858.3	858.9	856.5	860.6	849.0	828.1	824.1	788.7	748.7
20°	863.5	860.0	864.7	868.1	869.9	878.0	868.7	848.4	843.8	803.2	756.8
22.5°	887.3	879.7	880.3	882.6	883.8	895.4	889.6	869.9	865.2	821.2	766.6
25°	947.0	931.9	922.1	915.1	907.0	916.8	913.4	894.2	890.2	842.6	778.8
27.5°	1039.8	1020.7	1000.9	980.6	948.7	944.7	938.9	921.5	916.8	864.1	791.0
30°	1145.3	1126.2	1103.0	1070.5	1010.8	979.5	966.1	947.0	941.8	883.2	802.6
32.5°	1250.3	1233.5	1210.3	1170.8	1085.6	1021.8	993.4	973.7	968.5	904.1	816.5
35°	1332.1	1321.6	1306.6	1257.3	1159.8	1071.7	1032.8	1009.1	1003.3	937.1	842.0
37.5°	1398.2	1390.6	1377.9	1326.3	1213.8	1121.6	1078.1	1050.8	1044.4	973.1	869.3
40°	1495.6	1475.9	1465.4	1390.6	1260.7	1166.8	1129.1	1100.7	1093.7	1011.4	891.3
42.5°	1578.5	1564.0	1551.3	1448.0	1305.4	1205.6	1177.2	1151.1	1141.9	1049.1	915.1
45°	1592.4	1598.2	1591.9	1476.5	1376.1	1243.9	1225.9	1209.1	1200.4	1100.1	951.1
47.5°	1593.0	1593.0	1555.3	1492.7	1463.7	1286.8	1278.1	1283.9	1274.7	1165.1	994.0
50°	1551.3	1558.8	1539.1	1496.8	1486.9	1329.7	1341.9	1373.2	1364.0	1234.1	1040.4
52.5°	1464.9	1489.8	1489.2	1490.4	1453.3	1366.3	1409.2	1480.5	1464.9	1311.8	1089.7
55°	1312.3	1362.2	1406.9	1445.2	1424.3	1388.3	1491.5	1594.8	1578.5	1398.8	1139.5
57.5°	1181.9	1213.8	1269.4	1377.9	1390.1	1407.5	1568.7	1714.2	1699.7	1495.0	1191.7
60°	1032.8	1076.9	1132.6	1286.8	1348.3	1432.4	1653.3	1830.8	1816.9	1592.4	1242.2
62.5°	803.8	860.6	971.9	1147.1	1287.4	1448.0	1720.0	1933.4	1927.1	1684.7	1287.4
65°	560.2	610.7	766.6	975.4	1190.6	1441.1	1773.4	2025.1	2019.3	1760.0	1319.3
67.5°	327.1	385.6	561.9	785.2	1019.5	1393.0	1790.8	2079.0	2079.0	1805.9	1328.0
70°	186.7	214.0	370.6	572.4	781.7	1260.2	1742.1	2078.4	2088.3	1795.4	1292.1
72.5°	130.5	142.7	249.4	385.1	530.0	1019.5	1614.5	1978.1	1991.4	1696.8	1169.1
75°	101.5	110.2	175.7	262.7	334.0	692.4	1335.5	1667.8	1703.2	1446.3	945.3
77.5°	77.1	83.5	102.6	164.1	214.0	397.8	881.5	1093.7	1096.0	885.5	506.8
80°	56.3	62.6	68.4	100.3	113.7	186.2	332.9	457.0	444.2	428.6	274.3
82.5°	33.6	40.0	41.8	54.5	55.7	79.4	116.6	147.3	141.5	188.5	128.7
85°	14.5	20.3	21.5	24.9	23.8	32.5	46.4	38.9	34.8	40.0	27.8
87.5°	3.5	5.8	5.8	6.4	5.2	8.1	8.7	6.4	5.8	7.0	7.0
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°	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8
2.5°	705.8	704.0	704.6	694.7	691.8	688.9	687.2	686.0	684.9	686.6	688.4
5°	711.0	706.9	702.3	687.8	682.0	675.6	671.0	666.9	665.2	665.2	666.9
7.5°	715.0	708.1	698.2	679.1	668.6	659.9	652.4	647.2	644.3	644.3	646.0
10°	715.6	705.8	690.1	666.9	653.0	640.2	631.5	625.7	621.7	621.7	622.8
12.5°	719.1	705.8	685.5	657.6	640.2	624.6	614.1	605.4	603.7	603.7	604.9
15°	724.9	708.7	682.6	649.5	628.6	610.7	599.1	589.8	586.3	588.6	589.2
17.5°	730.1	710.4	677.3	639.1	614.1	594.4	581.7	573.5	568.9	574.1	574.1
20°	733.6	710.4	669.8	625.7	598.5	576.4	564.3	554.4	550.9	557.3	557.9
22.5°	738.8	709.8	661.7	612.4	581.7	558.5	546.3	538.7	537.0	544.0	546.3
25°	744.6	711.0	653.0	597.3	563.1	540.5	531.2	527.7	528.9	537.6	540.5
27.5°	751.0	713.3	644.3	580.5	542.8	522.5	517.3	519.0	523.7	534.7	538.2
30°	756.8	713.9	632.1	560.8	519.6	500.5	502.8	510.3	517.3	528.3	532.4
32.5°	764.3	714.5	619.4	539.3	494.7	480.8	491.2	503.4	510.3	520.8	525.4
35°	782.9	724.3	609.5	518.4	471.5	463.9	481.3	497.0	501.0	510.3	514.4
37.5°	804.3	740.6	604.3	497.0	448.9	447.1	469.2	484.8	486.0	491.8	495.8
40°	817.7	747.5	598.5	479.0	428.6	429.7	452.3	464.5	462.2	466.3	469.2
42.5°	831.0	749.8	586.3	463.9	409.4	410.6	428.0	436.7	437.8	446.5	450.6
45°	853.6	756.2	573.0	450.0	392.0	388.0	398.4	410.0	425.1	441.9	446.5
47.5°	883.8	769.5	559.0	433.2	375.2	361.9	365.9	386.2	401.9	417.5	420.4
50°	914.5	782.9	546.3	412.9	358.4	334.0	335.8	354.3	367.1	379.3	381.0
52.5°	944.7	794.5	535.3	393.8	339.3	301.0	307.9	327.1	335.8	341.6	343.3
55°	974.8	804.3	525.4	377.5	317.2	274.9	281.3	299.2	307.9	310.8	312.0
57.5°	1006.2	815.9	517.9	363.6	292.3	251.7	255.7	268.5	276.6	280.1	278.9
60°	1032.3	825.8	513.8	349.1	267.3	230.2	229.1	240.7	252.3	255.7	254.6
62.5°	1052.5	832.2	507.4	330.6	245.3	208.8	203.0	218.0	230.2	232.5	234.3
65°	1063.6	832.8	491.8	306.8	222.7	185.6	181.5	196.6	204.1	206.5	206.5
67.5°	1061.8	823.5	461.0	274.9	201.8	164.7	161.2	170.5	181.5	183.3	181.5
70°	1025.9	785.2	411.7	241.2	176.9	146.1	139.8	149.0	159.5	153.1	150.2
72.5°	923.8	686.0	339.3	204.1	149.0	122.9	120.0	129.3	129.9	131.1	128.2
75°	729.0	510.9	254.0	158.9	120.6	103.2	102.6	100.9	103.2	107.9	104.4
77.5°	382.7	255.2	137.4	97.4	87.6	82.9	78.9	78.3	85.2	88.1	84.7
80°	207.6	143.2	78.9	58.6	53.4	53.9	59.2	58.0	65.5	67.3	64.4
82.5°	90.5	67.9	38.9	35.4	35.4	34.8	36.5	40.6	48.7	48.7	38.9
85°	19.7	16.8	15.1	17.4	19.7	19.7	19.7	19.7	13.9	7.5	5.2
87.5°	6.4	6.4	6.4	7.0	7.5	7.5	6.4	4.6	2.9	0.6	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)