

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: INVUE

Report Number: P675168

Luminaire Tested: **CCW-SA-1C-830-U-T4FT**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675168
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-830-U-T4FT
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @615mA w/
T4FT distribution lens
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3590.4 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

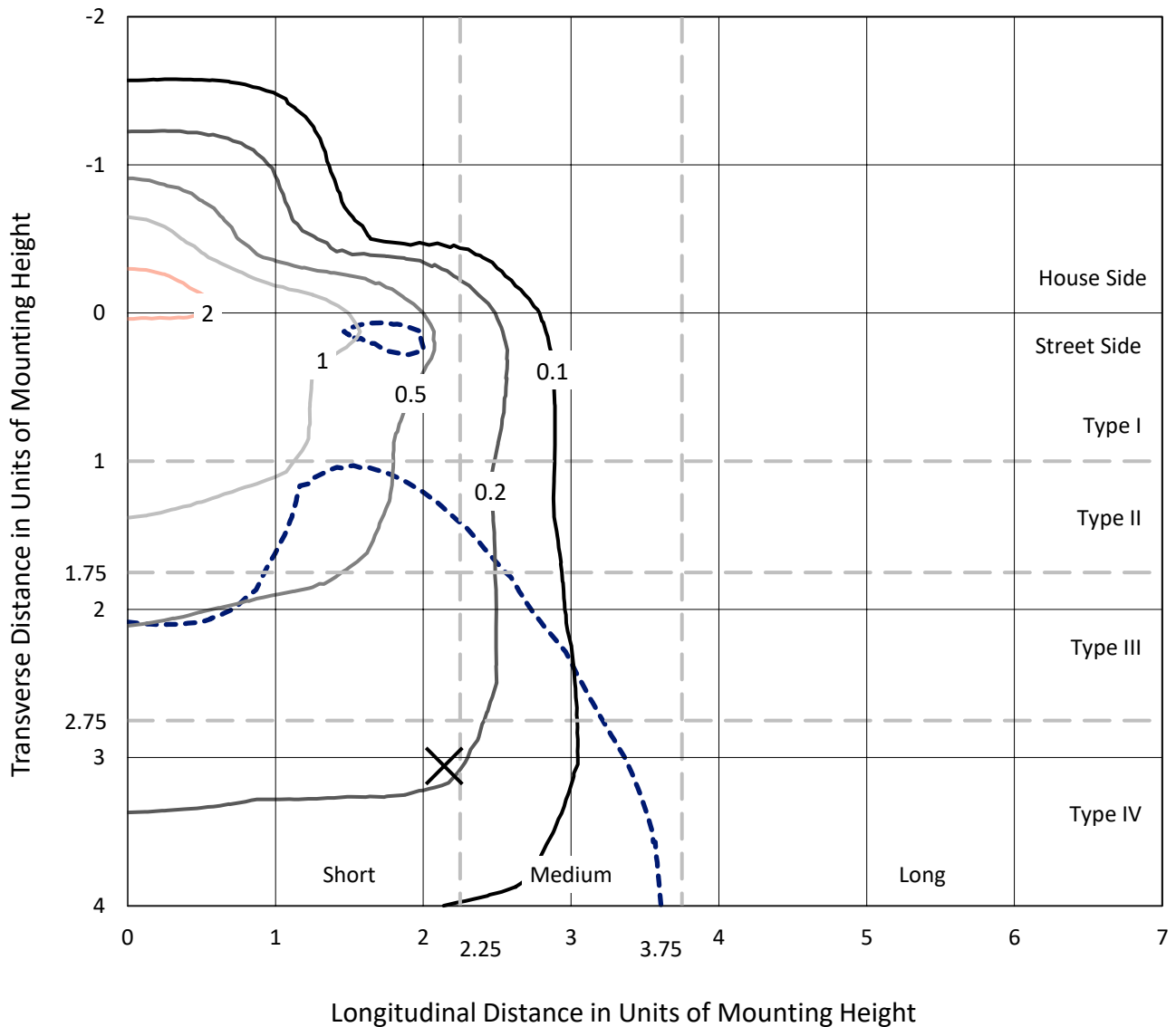
Input Watts (W): 32
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

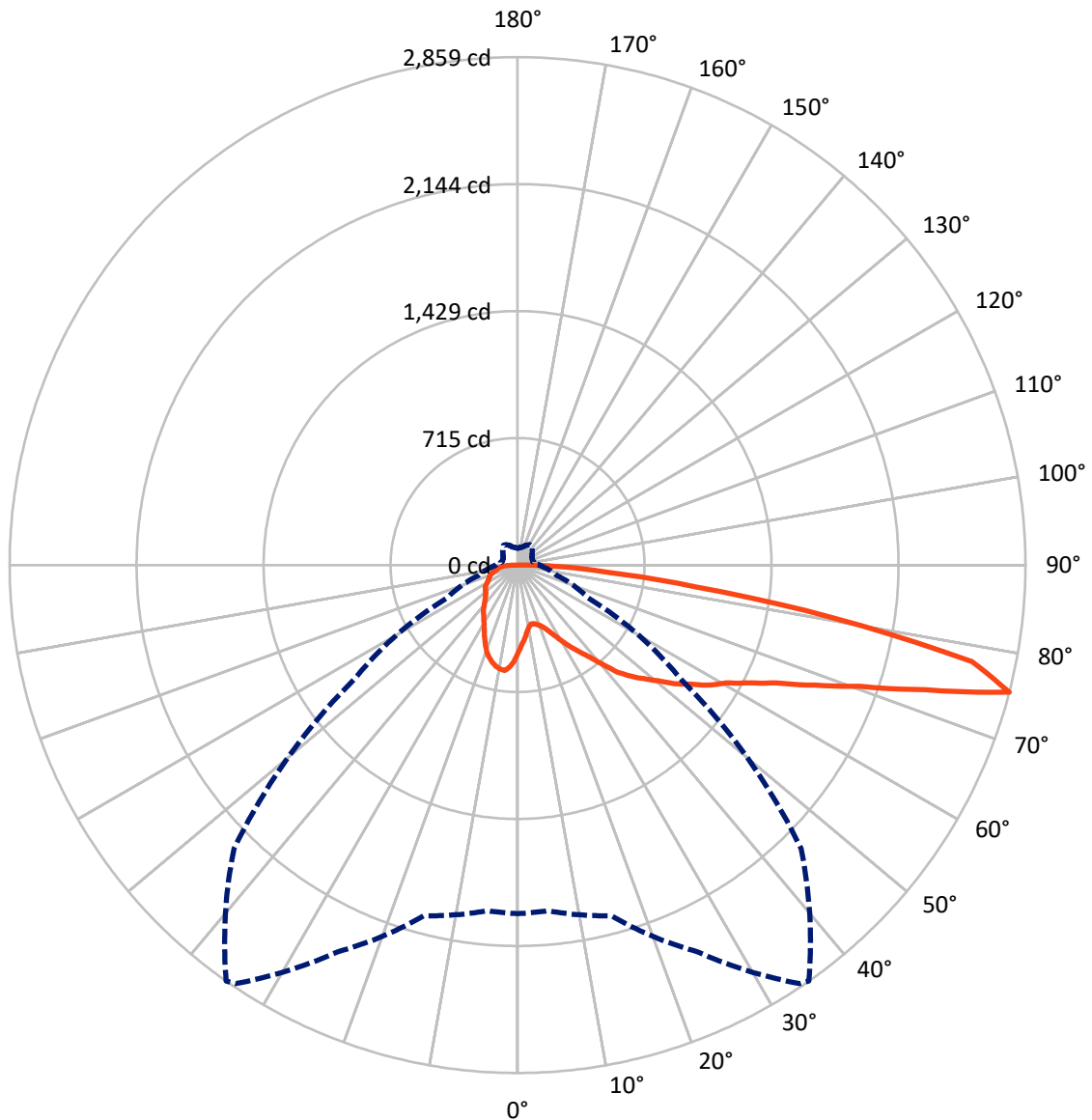
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	825.2	0.0	825.2
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	2765.2	0.0	2765.2
	% Fixture	77.0	0.0	77.0
Total	Lumens	3590.4	0.0	3590.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.9	1.3
10°-20°	136.0	3.8
20°-30°	225.7	6.3
30°-40°	334.6	9.3
40°-50°	482.5	13.4
50°-60°	663.5	18.5
60°-70°	819.5	22.8
70°-80°	749.7	20.9
80°-90°	132.0	3.7
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°	3590.4	100.0
0°-180°	3590.4	100.0



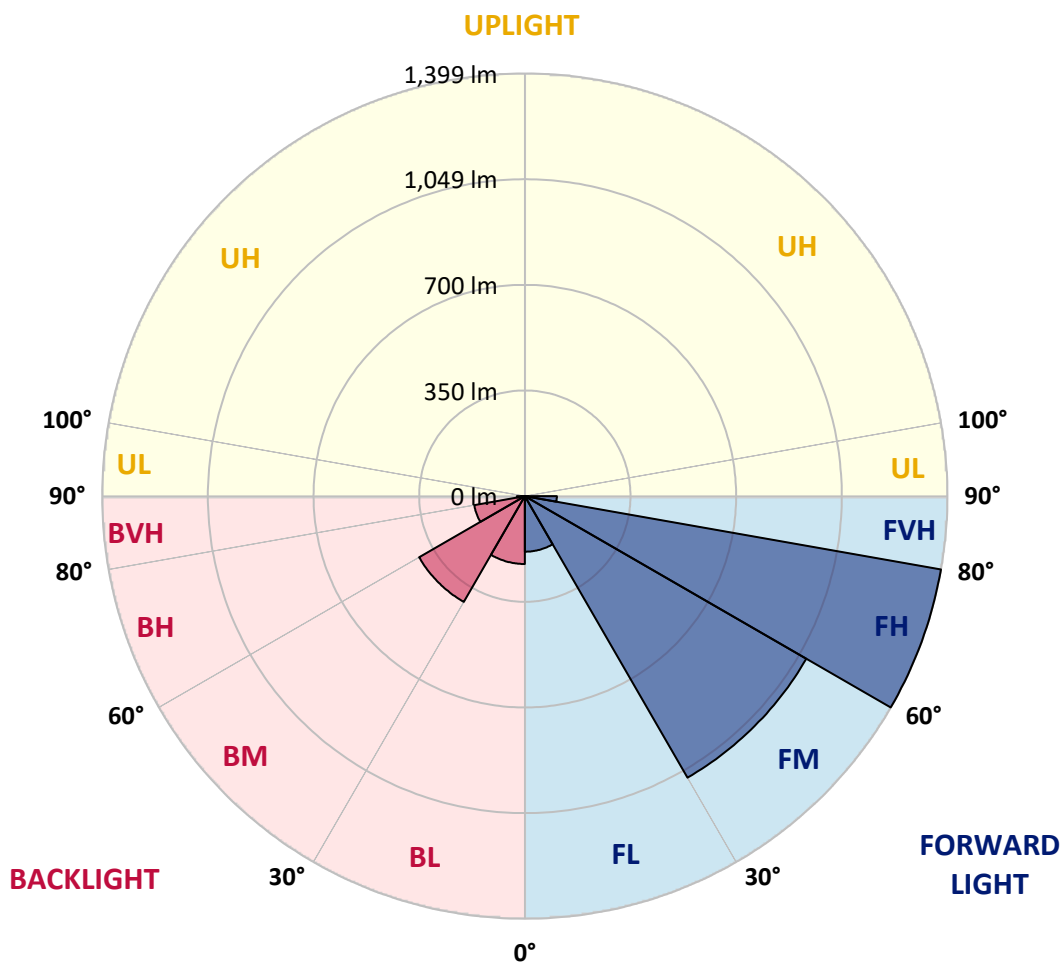
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	184.0	5.1			
FM (30°-60°)	1076.2	30.0			
FH (60°-80°)	1399.1	39.0			G1/1800
FVH (80°-90°)	105.9	3.0			G2/225
BL (0°-30°)	224.6	6.3	B1/500		
BM (30°-60°)	404.3	11.3	B1/1000		
BH (60°-80°)	170.2	4.7	B1/500		G1/500
BVH (80°-90°)	26.1	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9
2.5°	445.6	441.7	445.6	448.3	448.3	448.3	452.2	464.1	472.1	477.4	486.6
5°	399.3	400.7	403.3	409.9	413.9	416.5	423.1	437.7	449.6	466.8	486.6
7.5°	358.3	361.0	365.0	371.6	380.8	379.5	394.1	413.9	436.4	458.8	487.9
10°	337.2	342.5	343.8	345.1	354.4	354.4	374.2	396.7	424.5	453.6	487.9
12.5°	341.2	341.2	337.2	335.9	341.2	339.8	357.0	383.5	413.9	454.9	493.2
15°	353.1	353.1	345.1	337.2	345.1	342.5	357.0	378.2	413.9	456.2	503.8
17.5°	368.9	370.2	361.0	347.8	350.4	351.7	362.3	382.2	413.9	458.8	518.3
20°	400.7	394.1	379.5	358.3	367.6	363.6	379.5	396.7	421.8	469.4	539.5
22.5°	428.4	428.4	400.7	382.2	383.5	383.5	398.0	412.6	433.7	484.0	555.4
25°	473.4	470.7	436.4	408.6	411.2	412.6	420.5	437.7	453.6	491.9	575.2
27.5°	530.2	523.6	489.3	457.5	446.9	450.9	454.9	468.1	472.1	505.1	599.0
30°	591.1	581.8	552.7	502.5	497.2	498.5	491.9	499.8	494.5	526.3	622.8
32.5°	629.4	629.4	601.7	564.6	550.1	550.1	527.6	532.9	532.9	546.1	665.1
35°	662.5	659.8	641.3	613.6	604.3	599.0	576.5	584.5	571.2	584.5	724.6
37.5°	712.7	704.8	696.9	678.3	659.8	655.9	644.0	649.3	630.7	624.1	792.1
40°	770.9	766.9	759.0	751.1	732.6	731.2	718.0	723.3	703.5	678.3	859.5
42.5°	856.9	845.0	819.8	813.2	817.2	822.5	817.2	807.9	772.2	740.5	932.2
45°	942.8	924.3	876.7	866.1	896.5	892.6	915.0	911.1	852.9	802.6	1008.9
47.5°	998.4	982.5	944.1	937.5	950.7	956.0	1023.5	1011.6	919.0	859.5	1083.0
50°	1038.0	1039.3	989.1	1006.3	1023.5	1023.5	1108.1	1106.8	999.7	929.6	1179.5
52.5°	1096.2	1077.7	1056.5	1072.4	1096.2	1109.4	1213.9	1184.8	1049.9	989.1	1287.9
55°	1126.6	1118.7	1100.2	1127.9	1178.2	1184.8	1295.9	1273.4	1106.8	1059.2	1399.0
57.5°	1138.5	1145.1	1175.5	1187.4	1257.5	1274.7	1369.9	1338.2	1159.7	1146.5	1485.0
60°	1191.4	1182.2	1223.1	1270.7	1338.2	1347.4	1462.5	1393.7	1211.2	1203.3	1512.7
62.5°	1298.5	1274.7	1297.2	1354.1	1447.9	1459.8	1560.3	1467.8	1233.7	1241.7	1511.4
65°	1454.6	1437.4	1404.3	1449.3	1581.5	1598.7	1675.4	1531.2	1227.1	1228.4	1404.3
67.5°	1638.4	1610.6	1576.2	1604.0	1765.3	1805.0	1815.5	1559.0	1180.8	1154.4	1142.5
70°	1799.7	1781.2	1758.7	1806.3	2031.1	2045.6	1990.1	1541.8	1052.6	926.9	761.7
72.5°	1950.4	1941.2	1954.4	2132.9	2390.8	2400.0	2154.1	1433.4	831.7	562.0	354.4
75°	1962.3	1953.1	2044.3	2402.7	2841.7	2858.9	2255.9	1124.0	439.0	228.8	149.4
77.5°	1328.9	1356.7	1527.3	2103.8	2610.3	2614.2	1844.6	522.3	181.2	134.9	104.5
80°	326.6	362.3	575.2	1088.3	1760.0	1803.6	1010.3	175.9	119.0	103.1	78.0
82.5°	119.0	129.6	234.1	491.9	989.1	1006.3	353.1	95.2	86.0	79.3	56.9
85°	56.9	58.2	111.1	242.0	499.8	494.5	126.9	56.9	62.1	54.2	34.4
87.5°	23.8	23.8	48.9	112.4	220.8	214.2	41.0	26.4	35.7	31.7	17.2
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°	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9
2.5°	493.2	495.9	506.4	514.4	522.3	528.9	539.5	539.5	546.1	546.1	546.1
5°	491.9	506.4	523.6	542.2	554.1	566.0	576.5	577.9	581.8	587.1	588.4
7.5°	497.2	511.7	539.5	566.0	580.5	585.8	599.0	595.0	595.0	595.0	599.0
10°	507.8	523.6	562.0	585.8	596.4	597.7	593.7	591.1	583.1	580.5	576.5
12.5°	515.7	543.5	581.8	600.3	596.4	592.4	583.1	569.9	560.7	558.0	558.0
15°	535.5	563.3	599.0	605.6	599.0	577.9	566.0	551.4	543.5	531.6	536.9
17.5°	552.7	584.5	616.2	608.3	595.0	562.0	544.8	523.6	513.1	499.8	499.8
20°	575.2	604.3	632.1	610.9	581.8	546.1	518.3	491.9	477.4	464.1	466.8
22.5°	600.3	626.8	641.3	600.3	562.0	521.0	482.6	457.5	439.0	431.1	433.7
25°	620.2	649.3	646.6	583.1	538.2	489.3	446.9	423.1	419.2	411.2	411.2
27.5°	645.3	675.7	642.6	562.0	498.5	439.0	412.6	403.3	403.3	399.3	402.0
30°	678.3	699.5	633.4	531.6	448.3	394.1	380.8	386.1	395.4	391.4	392.7
32.5°	732.6	729.9	625.5	497.2	395.4	350.4	359.7	370.2	378.2	382.2	384.8
35°	785.5	768.3	616.2	450.9	346.4	329.3	337.2	349.1	363.6	367.6	368.9
37.5°	838.4	807.9	600.3	394.1	316.0	310.7	318.7	325.3	337.2	339.8	342.5
40°	893.9	834.4	572.6	338.5	290.9	290.9	296.2	297.5	304.1	308.1	310.7
42.5°	942.8	859.5	522.3	286.9	264.5	273.7	275.0	272.4	267.1	269.8	271.1
45°	1002.3	887.3	464.1	249.9	244.6	256.5	259.2	248.6	239.3	234.1	231.4
47.5°	1060.5	916.4	413.9	219.5	226.1	244.6	244.6	232.7	216.9	203.6	198.3
50°	1113.4	945.5	372.9	201.0	207.6	235.4	238.0	215.5	198.3	182.5	179.8
52.5°	1202.0	994.4	330.6	186.4	197.0	228.8	227.4	207.6	185.1	167.9	166.6
55°	1280.0	1043.3	275.0	171.9	186.4	219.5	223.5	199.7	169.3	153.4	150.7
57.5°	1336.9	1055.2	219.5	157.4	175.9	208.9	214.2	183.8	158.7	145.5	144.1
60°	1347.4	1008.9	178.5	145.5	161.3	194.4	198.3	174.5	150.7	140.2	137.5
62.5°	1298.5	920.3	152.1	134.9	149.4	179.8	187.8	164.0	142.8	133.6	132.2
65°	1187.4	790.7	133.6	125.6	141.5	169.3	178.5	156.0	136.2	128.3	126.9
67.5°	940.2	606.9	119.0	119.0	130.9	158.7	171.9	150.7	129.6	124.3	123.0
70°	614.9	365.0	108.4	109.8	123.0	149.4	164.0	144.1	121.7	120.3	117.7
72.5°	264.5	167.9	96.5	100.5	111.1	133.6	152.1	134.9	112.4	108.4	104.5
75°	121.7	101.8	87.3	89.9	99.2	117.7	137.5	124.3	104.5	97.9	93.9
77.5°	86.0	74.0	72.7	78.0	84.6	101.8	121.7	116.4	96.5	91.2	88.6
80°	63.5	56.9	60.8	66.1	70.1	93.9	115.0	107.1	88.6	80.7	76.7
82.5°	45.0	42.3	47.6	52.9	56.9	82.0	105.8	93.9	74.0	67.4	60.8
85°	26.4	27.8	33.1	35.7	39.7	60.8	88.6	75.4	56.9	43.6	42.3
87.5°	11.9	11.9	15.9	17.2	19.8	35.7	59.5	47.6	35.7	27.8	26.4
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)