

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: P676834

Luminaire Tested: **CCW-SA-2A-730-U-SL2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676834
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-730-U-SL2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
SL2 distribution lens and House Side Shield
Light Source: (32) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

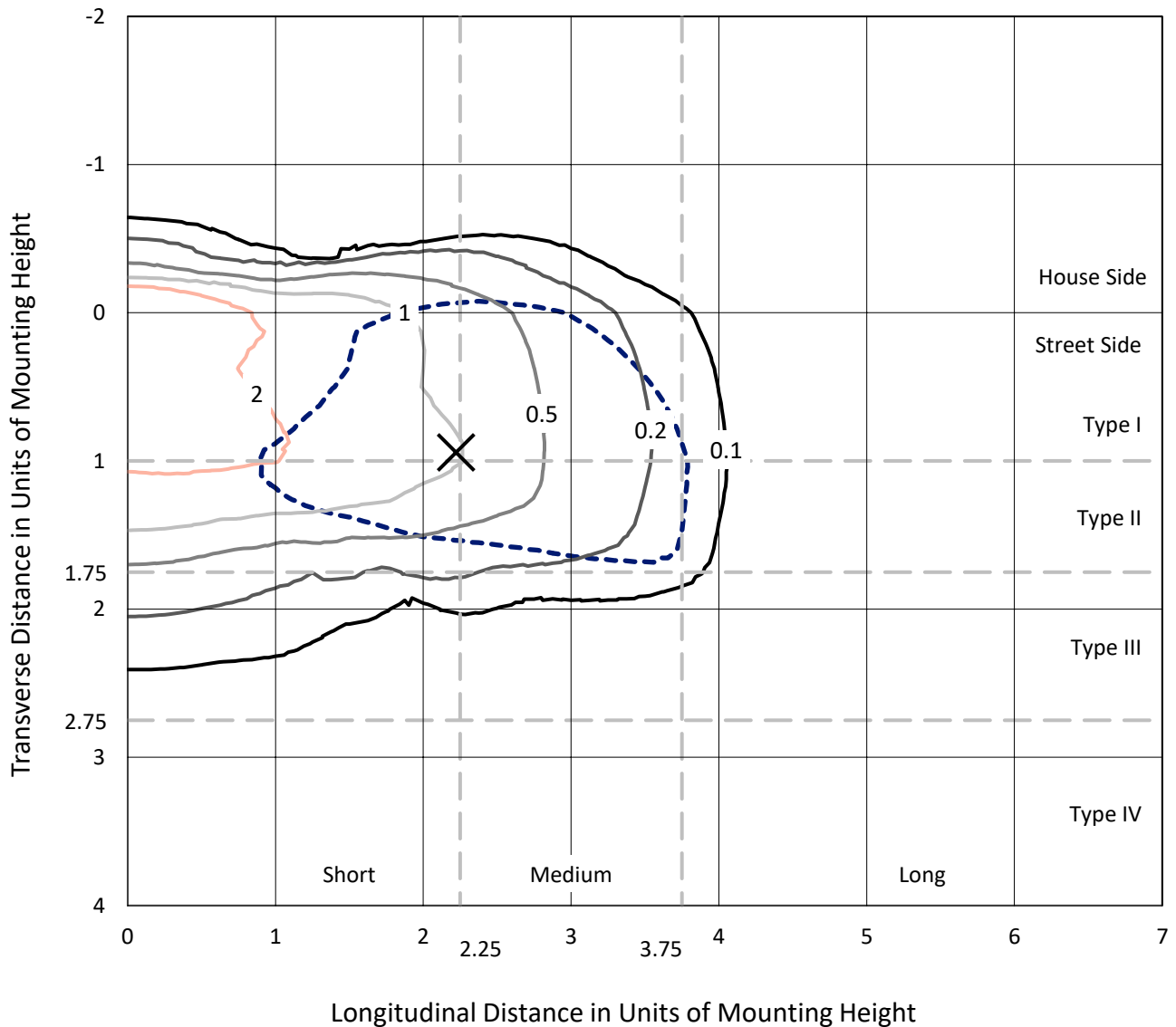
Lumens per Lamp: N/A
Luminaire Lumens: 4006.7 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2
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

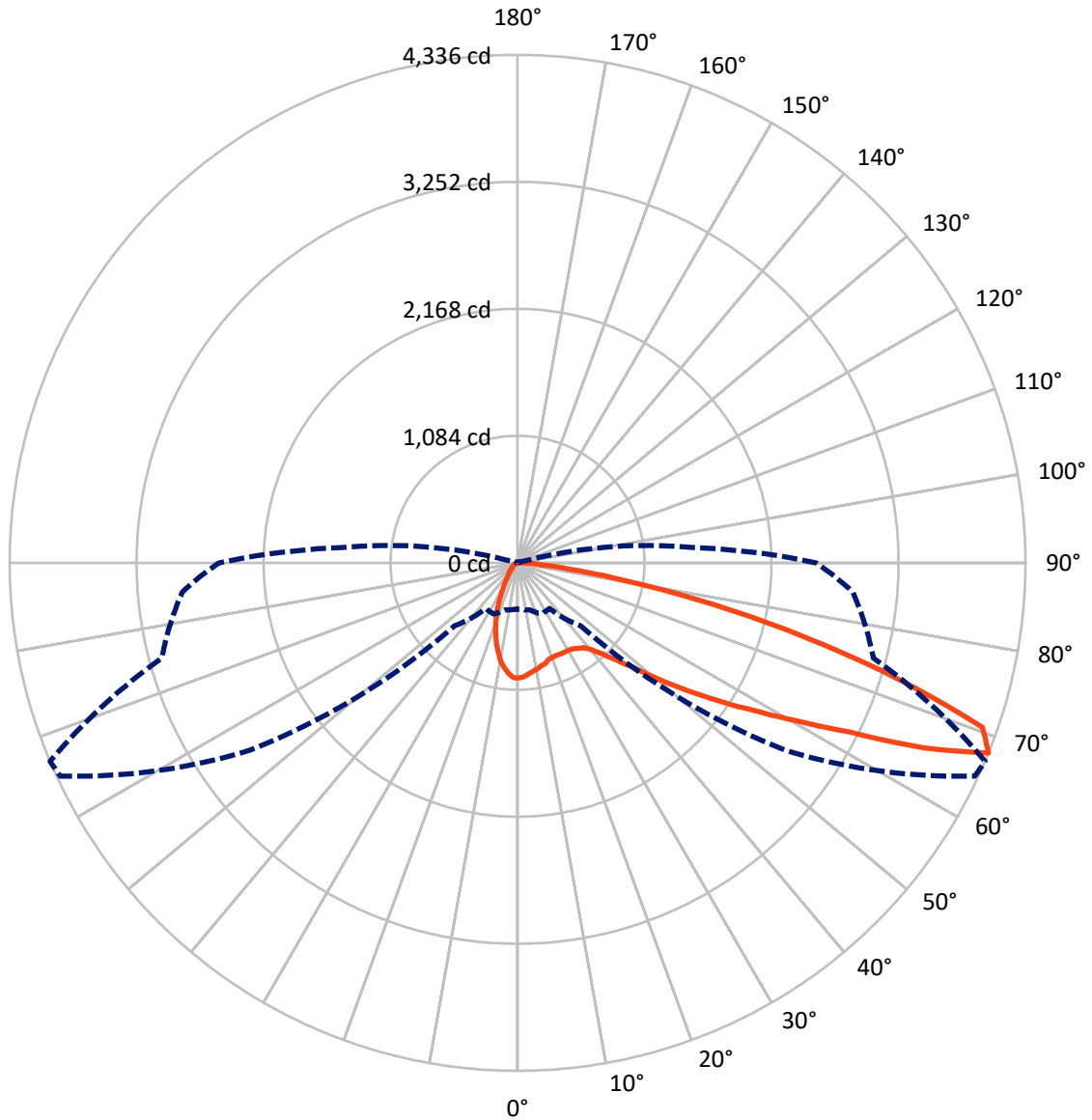
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	504.3	0.0	504.3
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	3502.4	0.0	3502.4
	% Fixture	87.4	0.0	87.4
Total	Lumens	4006.7	0.0	4006.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.8	2.1
10°-20°	183.9	4.6
20°-30°	261.6	6.5
30°-40°	380.9	9.5
40°-50°	589.5	14.7
50°-60°	904.7	22.6
60°-70°	980.6	24.5
70°-80°	553.2	13.8
80°-90°	69.5	1.7
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°	4006.7	100.0
0°-180°	4006.7	100.0

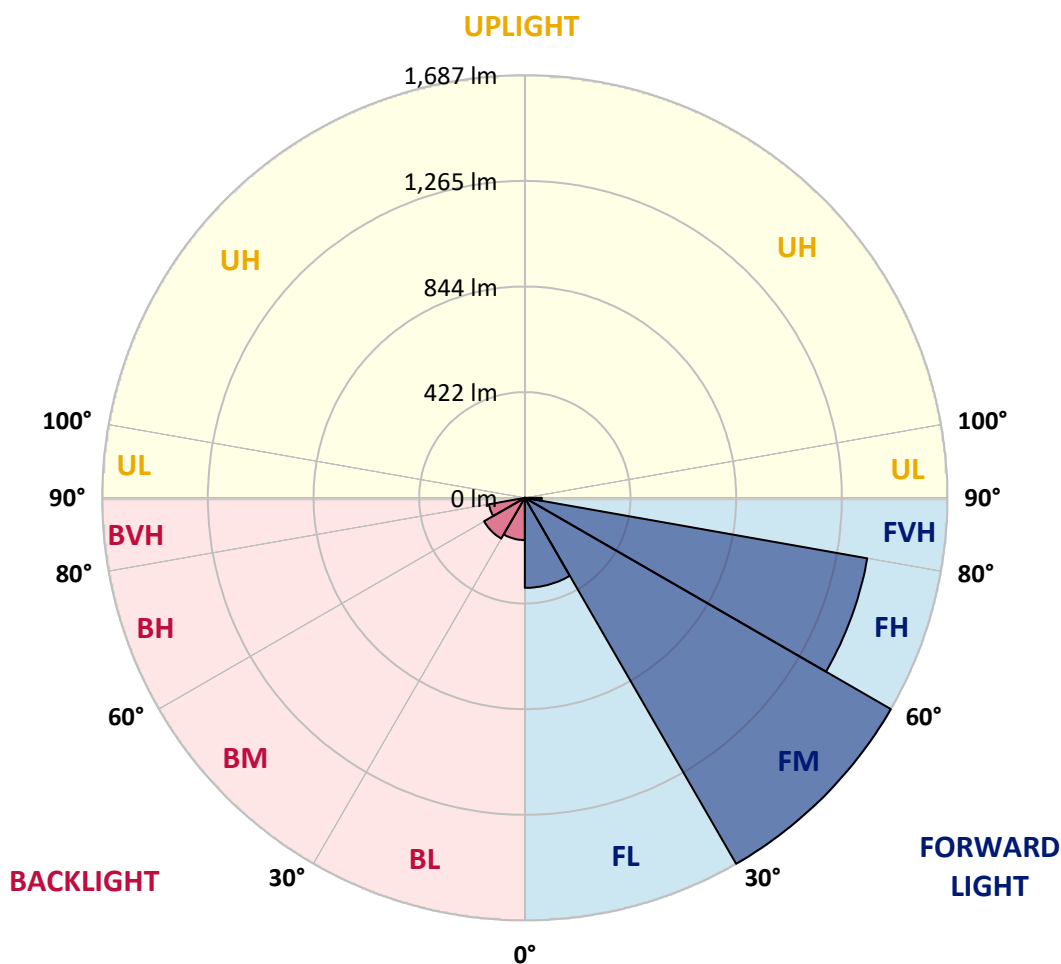


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	359.5	9.0			
FM (30°-60°)	1687.2	42.1			
FH (60°-80°)	1388.2	34.6			G1/1800
FVH (80°-90°)	67.5	1.7			G1/100
BL (0°-30°)	168.8	4.2	B1/500		
BM (30°-60°)	187.8	4.7	B0/220		
BH (60°-80°)	145.7	3.6	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	982.8	982.8	982.8	982.8	982.8	982.8	982.8	982.8	982.8	982.8	982.8
2.5°	940.3	945.1	951.9	961.5	968.3	964.4	967.3	983.7	975.0	982.8	978.9
5°	888.2	893.0	902.6	901.7	909.4	923.9	943.2	964.4	954.8	977.9	986.6
7.5°	834.1	832.2	832.2	852.4	868.8	889.1	899.7	934.5	935.5	955.7	977.0
10°	784.9	790.7	800.3	808.0	823.5	852.4	883.3	910.4	921.0	961.5	967.3
12.5°	754.9	757.8	769.4	776.2	796.4	824.4	857.3	892.0	900.7	942.2	970.2
15°	742.4	749.1	753.0	765.6	776.2	802.2	826.4	866.0	891.1	923.9	958.6
17.5°	752.0	749.1	751.1	754.9	767.5	790.7	816.7	856.3	865.0	920.0	972.1
20°	764.6	765.6	759.8	757.8	754.9	777.1	798.4	849.5	859.2	920.0	980.8
22.5°	798.4	787.8	798.4	782.9	767.5	777.1	797.4	850.5	857.3	919.0	989.5
25°	839.9	841.8	844.7	811.9	789.7	782.9	804.2	853.4	859.2	926.8	993.4
27.5°	898.8	907.5	893.0	876.6	832.2	798.4	803.2	851.5	862.1	922.9	1003.0
30°	977.9	971.2	973.1	935.5	892.0	838.9	825.4	856.3	864.0	927.7	1021.4
32.5°	1046.5	1038.8	1052.3	1038.8	970.2	896.8	851.5	866.0	874.6	939.3	1036.8
35°	1089.0	1098.6	1119.9	1134.3	1076.4	972.1	894.9	892.0	895.9	945.1	1048.4
37.5°	1154.6	1172.0	1189.4	1226.0	1175.8	1064.8	963.5	925.8	919.0	973.1	1054.2
40°	1226.0	1221.2	1272.4	1315.8	1313.9	1195.2	1059.0	985.7	976.0	1017.5	1092.8
42.5°	1285.9	1281.1	1338.0	1409.5	1417.2	1320.7	1168.1	1070.6	1061.9	1086.1	1140.1
45°	1364.1	1368.0	1435.5	1520.5	1548.5	1486.7	1315.8	1192.3	1187.4	1179.7	1229.9
47.5°	1433.6	1454.8	1512.8	1613.2	1714.5	1658.5	1489.6	1369.9	1336.1	1318.7	1368.9
50°	1481.9	1501.2	1571.7	1678.8	1864.2	1899.9	1684.6	1559.1	1560.1	1517.6	1544.6
52.5°	1481.9	1480.9	1537.9	1678.8	1968.4	2151.9	1945.3	1797.6	1805.3	1760.9	1762.8
55°	1339.0	1336.1	1405.6	1555.2	1956.8	2394.2	2340.1	2099.7	2080.4	1994.5	2003.2
57.5°	1078.3	1085.1	1138.2	1317.8	1806.2	2507.1	2810.2	2439.5	2373.9	2196.3	2196.3
60°	786.8	781.0	820.6	946.1	1447.1	2464.6	3196.4	2840.2	2736.9	2363.3	2338.2
62.5°	598.5	597.6	608.2	650.7	918.1	2149.0	3362.4	3349.9	3181.9	2527.4	2491.7
65°	483.7	485.6	500.1	530.0	560.9	1465.5	3274.6	3958.1	3804.6	2771.6	2654.8
67.5°	394.8	399.7	417.0	481.7	475.0	758.8	2789.0	4306.6	4335.6	3144.3	2874.0
70°	304.1	311.8	332.1	423.8	457.6	504.9	1933.7	4132.8	4210.1	3376.0	2741.7
72.5°	206.6	205.6	249.1	343.7	462.4	462.4	1076.4	3328.7	3402.0	3112.4	2381.6
75°	112.0	118.7	165.1	259.7	423.8	447.0	613.0	2435.7	2539.0	2420.2	1842.0
77.5°	60.8	61.8	91.7	169.9	352.4	426.7	409.3	1656.6	1697.2	1459.7	1008.8
80°	31.9	32.8	48.3	111.0	243.3	395.8	340.8	987.6	949.0	559.9	333.1
82.5°	14.5	15.4	24.1	69.5	155.4	311.8	294.4	476.9	440.2	156.4	101.4
85°	5.8	5.8	10.6	41.5	90.7	153.5	252.0	239.4	199.8	47.3	50.2
87.5°	1.9	1.9	2.9	16.4	36.7	91.7	134.2	126.5	86.9	17.4	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°	982.8	982.8	982.8	982.8	982.8	982.8	982.8	982.8	982.8	982.8	982.8
2.5°	975.0	985.7	982.8	980.8	962.5	960.6	958.6	941.3	947.0	932.6	942.2
5°	980.8	986.6	971.2	942.2	916.2	887.2	865.0	849.5	821.5	810.9	809.0
7.5°	975.0	975.0	943.2	896.8	845.7	798.4	738.5	696.0	664.2	640.1	648.7
10°	967.3	955.7	922.9	840.9	748.2	676.7	590.8	528.1	480.8	465.3	455.7
12.5°	967.3	947.0	873.7	761.7	642.0	533.9	431.5	349.5	304.1	277.1	273.2
15°	958.6	928.7	838.0	687.4	538.7	391.9	275.1	204.7	166.0	155.4	151.6
17.5°	960.6	924.8	784.9	599.5	418.0	260.7	168.0	129.4	119.7	114.9	115.8
20°	964.4	924.8	737.6	513.6	301.2	162.2	115.8	109.1	104.3	102.3	103.3
22.5°	977.0	906.5	689.3	425.7	203.7	116.8	102.3	95.6	91.7	88.8	87.9
25°	978.9	903.6	642.9	338.9	140.0	98.5	89.8	82.1	77.2	73.4	72.4
27.5°	976.0	891.1	578.3	252.0	105.2	87.9	76.3	68.5	61.8	58.9	57.9
30°	986.6	867.9	523.2	181.5	88.8	76.3	64.7	56.0	50.2	46.3	46.3
32.5°	987.6	847.6	462.4	129.4	81.1	67.6	55.0	45.4	39.6	37.7	37.7
35°	988.6	829.3	394.8	98.5	72.4	57.9	45.4	37.7	33.8	30.9	30.9
37.5°	991.5	815.8	333.1	83.0	64.7	49.2	37.7	30.9	27.0	26.1	26.1
40°	997.2	797.4	268.4	73.4	56.0	41.5	31.9	26.1	22.2	21.2	20.3
42.5°	1012.7	792.6	214.3	65.6	50.2	34.8	26.1	21.2	18.3	16.4	15.4
45°	1076.4	805.1	166.0	60.8	42.5	29.0	22.2	17.4	13.5	12.6	11.6
47.5°	1180.7	846.6	131.3	54.1	35.7	24.1	18.3	13.5	10.6	9.7	8.7
50°	1339.0	941.3	107.2	48.3	29.9	20.3	14.5	10.6	7.7	6.8	6.8
52.5°	1546.6	1068.7	92.7	42.5	24.1	17.4	11.6	7.7	5.8	4.8	4.8
55°	1758.9	1219.3	86.9	36.7	20.3	14.5	8.7	5.8	3.9	2.9	2.9
57.5°	1953.9	1316.8	84.0	29.9	17.4	10.6	6.8	3.9	1.9	1.0	1.0
60°	2075.6	1388.2	75.3	24.1	13.5	8.7	4.8	1.9	1.0	0.0	0.0
62.5°	2235.8	1460.6	61.8	18.3	9.7	5.8	2.9	1.0	0.0	0.0	0.0
65°	2447.3	1541.7	48.3	14.5	7.7	3.9	1.9	1.0	0.0	0.0	0.0
67.5°	2548.6	1499.2	32.8	10.6	4.8	1.9	1.0	0.0	0.0	0.0	0.0
70°	2345.9	1262.7	23.2	7.7	2.9	1.0	1.0	0.0	0.0	0.0	0.0
72.5°	1972.3	989.5	17.4	4.8	1.9	1.0	0.0	0.0	0.0	0.0	0.0
75°	1453.9	618.8	13.5	3.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	771.3	230.7	9.7	2.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	227.8	67.6	6.8	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	75.3	20.3	3.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	38.6	7.7	1.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.2	2.9	1.9	1.9	1.0	0.0	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)