

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: P676542

Luminaire Tested: **CCW-SA-1C-730-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676542
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-730-U-T4FT-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
T4FT distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

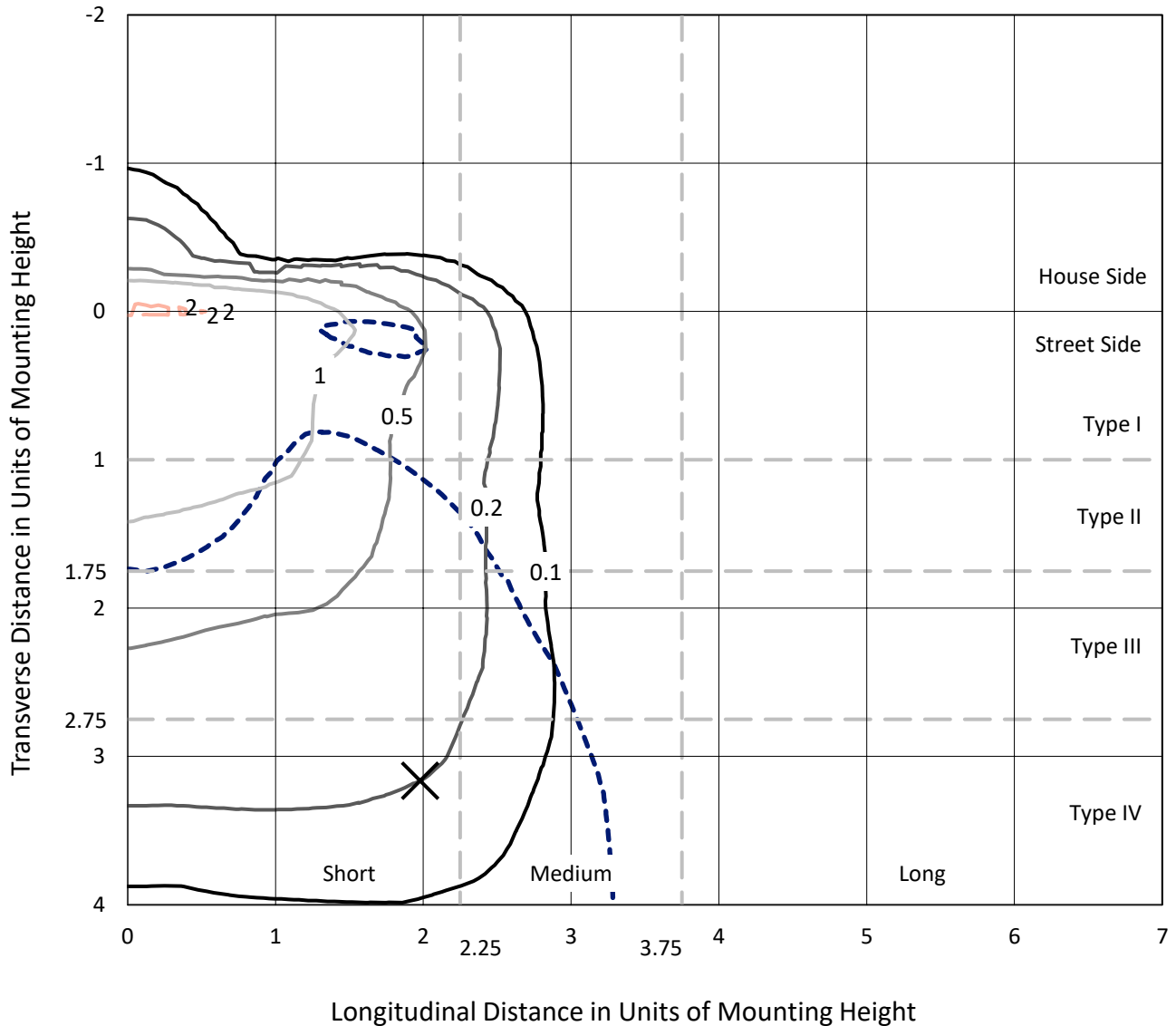
Lumens per Lamp: N/A
Luminaire Lumens: 2956.2 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 32
Input Voltage (V): 120
Input Current (A_{in}): 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

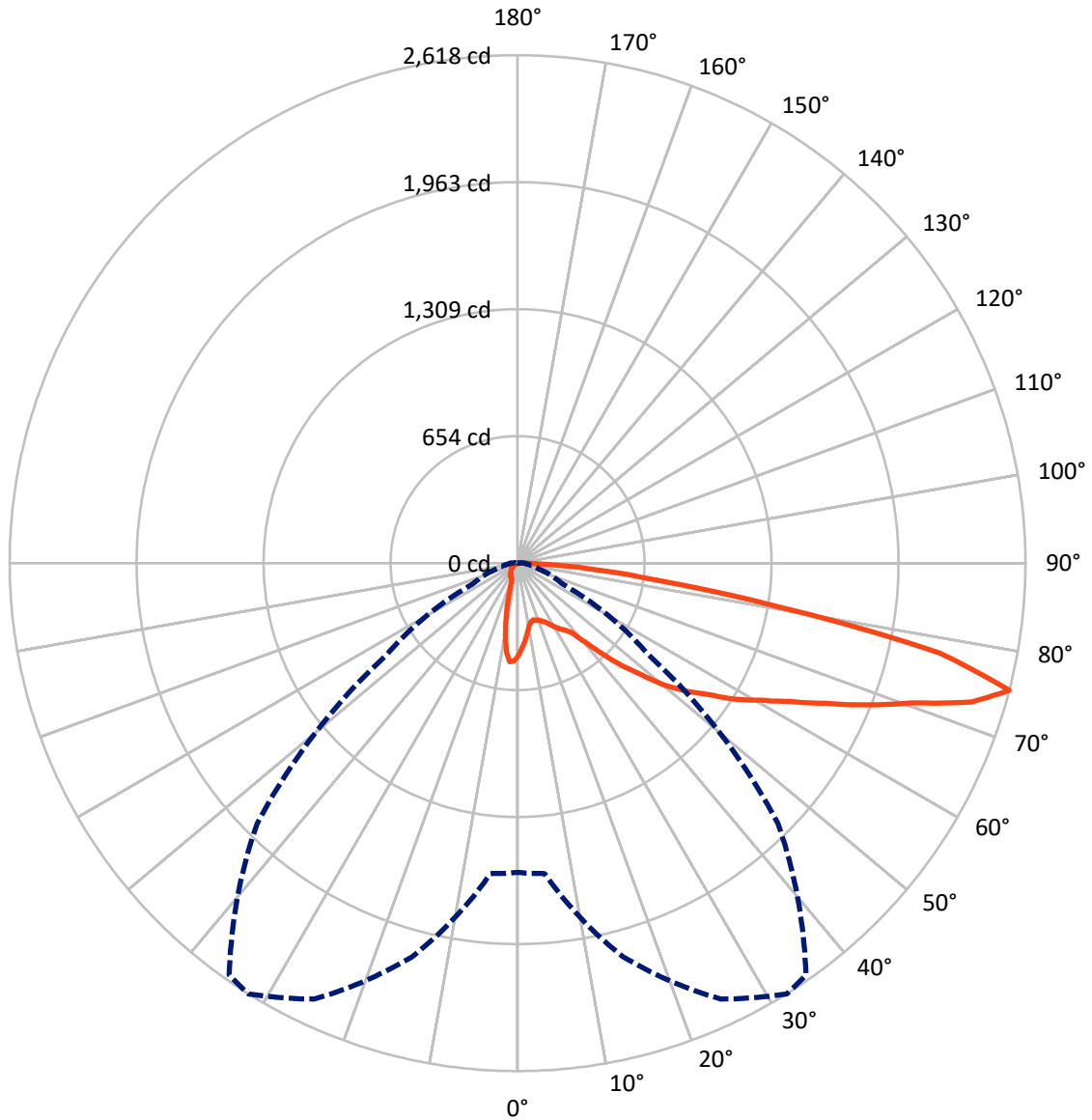
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	319.4	0.0	319.4
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	2636.9	0.0	2636.9
	% Fixture	89.2	0.0	89.2
Total	Lumens	2956.2	0.0	2956.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.0	1.4
10°-20°	95.2	3.2
20°-30°	142.6	4.8
30°-40°	218.9	7.4
40°-50°	382.8	12.9
50°-60°	598.3	20.2
60°-70°	773.5	26.2
70°-80°	630.0	21.3
80°-90°	72.9	2.5
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°	2956.2	100.0
0°-180°	2956.2	100.0



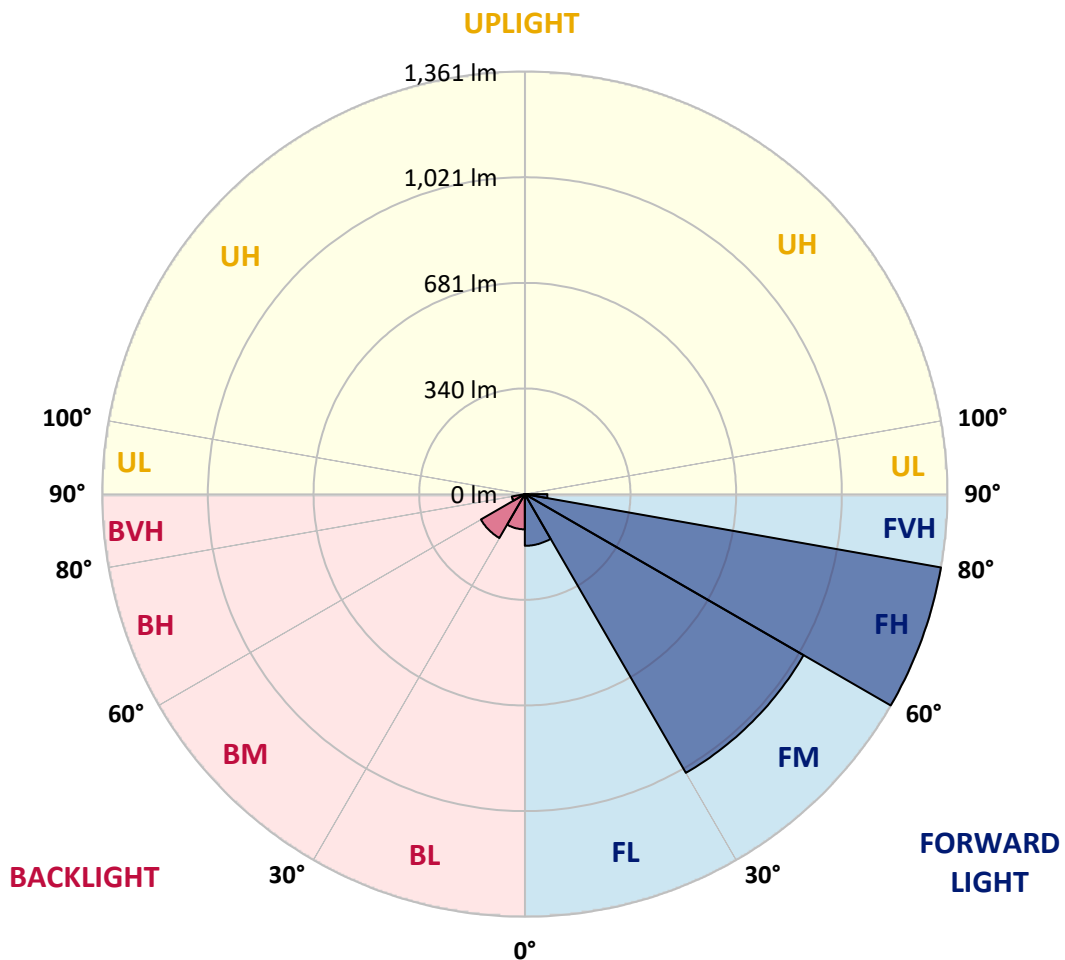
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	166.3	5.6			
FM (30°-60°)	1036.6	35.1			
FH (60°-80°)	1361.1	46.0			G1/1800
FVH (80°-90°)	72.9	2.5			G1/100
BL (0°-30°)	113.4	3.8	B1/500		
BM (30°-60°)	163.4	5.5	B0/220		
BH (60°-80°)	42.5	1.4	B0/110		G0/110
BVH (80°-90°)	0.1	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	477.3	477.3	477.3	477.3	477.3	477.3	477.3	477.3	477.3	477.3	477.3
2.5°	428.1	434.2	433.4	437.2	437.9	440.2	445.5	445.5	460.7	471.3	478.1
5°	389.5	385.7	387.2	391.7	403.1	402.3	415.2	422.0	440.2	455.4	471.3
7.5°	341.7	341.0	344.0	354.6	362.9	369.8	383.4	400.8	425.1	447.8	475.8
10°	311.4	309.9	316.0	319.0	328.8	333.4	354.6	381.9	410.7	443.2	475.8
12.5°	304.6	299.3	302.3	301.6	310.7	312.9	333.4	366.7	401.6	441.7	481.9
15°	308.4	304.6	301.6	301.6	303.8	305.3	327.3	356.9	396.3	444.0	495.5
17.5°	320.5	318.2	309.1	300.0	309.9	309.9	323.5	354.6	397.0	450.8	512.2
20°	334.9	332.6	316.7	306.1	312.9	320.5	334.9	359.9	399.3	456.1	538.0
22.5°	350.8	350.8	328.8	316.7	325.8	326.6	352.3	376.6	408.4	469.8	554.6
25°	370.5	369.0	347.8	334.1	337.2	345.5	369.0	394.8	425.1	488.7	585.7
27.5°	396.3	394.0	369.0	355.4	359.1	368.2	394.8	420.5	440.2	496.3	612.2
30°	417.5	415.2	394.8	374.3	382.6	391.0	422.0	444.8	459.2	510.7	642.5
32.5°	422.0	418.2	404.6	395.5	404.6	420.5	444.8	468.2	490.2	547.0	700.1
35°	474.3	460.7	425.1	410.7	424.3	429.6	469.8	511.4	532.7	575.8	764.5
37.5°	574.3	561.4	514.5	474.3	455.4	461.4	513.7	565.2	585.7	629.6	835.0
40°	697.1	675.9	625.8	572.1	533.4	525.8	559.9	635.7	655.4	697.1	927.4
42.5°	837.2	816.8	739.5	675.9	636.5	626.6	631.9	717.5	734.2	759.2	988.0
45°	938.0	927.4	840.3	783.4	752.4	741.8	728.9	806.9	828.2	836.5	1075.9
47.5°	996.4	988.8	940.3	901.6	860.0	848.6	856.9	931.2	916.8	923.6	1160.0
50°	1074.4	1054.7	988.8	1000.9	992.6	989.5	1003.9	1036.5	1015.3	995.6	1251.7
52.5°	1137.3	1102.4	1056.2	1085.8	1098.6	1110.0	1160.8	1185.0	1090.3	1060.0	1310.8
55°	1175.9	1142.6	1154.7	1182.0	1195.6	1247.9	1307.8	1289.6	1139.6	1111.5	1389.6
57.5°	1210.8	1213.1	1245.6	1254.0	1323.7	1332.8	1447.9	1388.8	1174.4	1158.5	1420.7
60°	1294.9	1286.6	1313.1	1366.9	1433.5	1484.3	1594.2	1455.5	1191.8	1182.7	1412.3
62.5°	1446.4	1394.9	1404.0	1472.2	1569.9	1625.2	1678.3	1485.8	1187.3	1186.5	1387.3
65°	1638.9	1579.8	1552.5	1616.1	1742.7	1820.7	1773.0	1519.9	1157.0	1178.2	1294.1
67.5°	1798.7	1799.5	1748.7	1784.3	1949.5	1966.2	1862.4	1513.1	1106.2	1112.3	1066.8
70°	1982.9	2007.9	1963.2	2074.5	2157.1	2167.7	1964.7	1457.0	997.1	838.8	613.0
72.5°	2029.8	2042.7	2182.1	2353.4	2446.6	2449.6	2065.5	1269.9	656.2	370.5	190.2
75°	1594.2	1606.3	2100.3	2479.1	2617.8	2591.3	1897.2	824.4	255.3	108.3	45.5
77.5°	889.5	893.3	1304.0	2004.1	2220.8	2113.9	1329.0	321.3	103.0	62.1	21.2
80°	243.2	285.6	483.4	988.0	1356.3	1331.3	632.7	104.6	66.7	48.5	9.8
82.5°	58.3	62.9	155.3	437.2	716.8	747.8	188.7	53.0	46.2	40.2	5.3
85°	21.2	23.5	47.7	212.9	368.2	337.9	56.8	26.5	34.1	31.1	2.3
87.5°	7.6	7.6	15.2	69.7	107.6	81.1	18.9	9.1	17.4	18.9	0.8
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°	477.3	477.3	477.3	477.3	477.3	477.3	477.3	477.3	477.3	477.3	477.3
2.5°	478.9	478.9	489.5	498.6	501.6	505.4	501.6	509.9	509.2	505.4	506.9
5°	479.6	493.3	502.3	508.4	511.4	510.7	512.2	503.1	497.8	494.0	490.2
7.5°	483.4	496.3	513.0	511.4	503.1	485.7	472.0	447.8	424.3	423.5	419.8
10°	496.3	507.6	517.5	511.4	481.1	428.1	384.9	352.3	322.8	309.1	310.7
12.5°	505.4	526.6	522.0	491.0	428.1	358.4	294.7	247.0	220.5	195.5	195.5
15°	524.3	531.9	530.4	461.4	362.9	279.6	202.3	153.8	125.8	114.4	112.9
17.5°	542.5	550.8	525.1	416.7	298.5	187.9	122.7	95.5	91.7	90.2	90.9
20°	565.2	566.0	520.5	372.0	224.3	119.0	87.9	85.6	86.4	85.6	85.6
22.5°	589.5	594.8	504.6	309.1	149.3	86.4	81.8	82.6	82.6	82.6	84.9
25°	621.3	613.0	479.6	249.3	97.7	79.6	79.6	80.3	80.3	80.3	81.1
27.5°	642.5	631.2	447.8	179.6	76.5	75.0	76.5	76.5	78.0	78.0	78.0
30°	686.5	656.9	407.6	115.9	68.9	71.2	72.7	74.3	75.0	76.5	77.3
32.5°	720.6	679.6	357.6	77.3	62.9	64.4	68.2	71.2	74.3	73.5	73.5
35°	782.7	716.8	311.4	61.4	57.6	57.6	61.4	66.7	71.2	72.7	72.7
37.5°	853.9	747.1	247.0	56.1	53.0	53.0	55.3	61.4	67.4	70.5	68.9
40°	913.0	781.9	182.6	52.3	49.2	49.2	50.8	55.3	62.1	67.4	68.2
42.5°	954.7	807.7	123.5	48.5	46.2	45.5	47.7	50.0	55.3	62.9	64.4
45°	992.6	821.3	76.5	44.7	43.2	43.2	43.2	45.5	49.2	56.1	57.6
47.5°	1060.0	836.5	55.3	41.7	39.4	40.2	40.9	41.7	44.7	46.2	47.0
50°	1116.8	847.9	45.5	38.6	37.1	37.9	37.9	37.9	39.4	37.1	37.1
52.5°	1160.0	836.5	38.6	35.6	34.1	34.9	34.1	34.1	32.6	29.5	29.5
55°	1191.8	816.0	31.1	32.6	32.6	32.6	31.1	28.8	25.8	23.5	23.5
57.5°	1200.2	781.2	24.2	27.3	29.5	29.5	26.5	23.5	19.7	17.4	16.7
60°	1187.3	705.4	18.2	19.7	22.7	23.5	21.2	17.4	13.6	11.4	11.4
62.5°	1141.1	645.5	14.4	12.9	16.7	17.4	15.2	11.4	7.6	5.3	4.5
65°	1053.2	553.1	10.6	9.1	11.4	12.1	9.8	5.3	2.3	0.8	0.0
67.5°	844.8	416.7	6.8	6.1	7.6	7.6	4.5	1.5	0.0	0.0	0.0
70°	467.5	234.1	4.5	3.0	3.8	2.3	0.8	0.0	0.0	0.0	0.0
72.5°	134.9	66.7	2.3	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	36.4	15.9	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	15.9	6.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.0	0.0	0.0	0.0	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)