

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: P676620

Luminaire Tested: **CCW-SA-1D-835-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676620
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-835-U-T4FT-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
T4FT distribution lens and House Side Shield
Light Source: (16) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

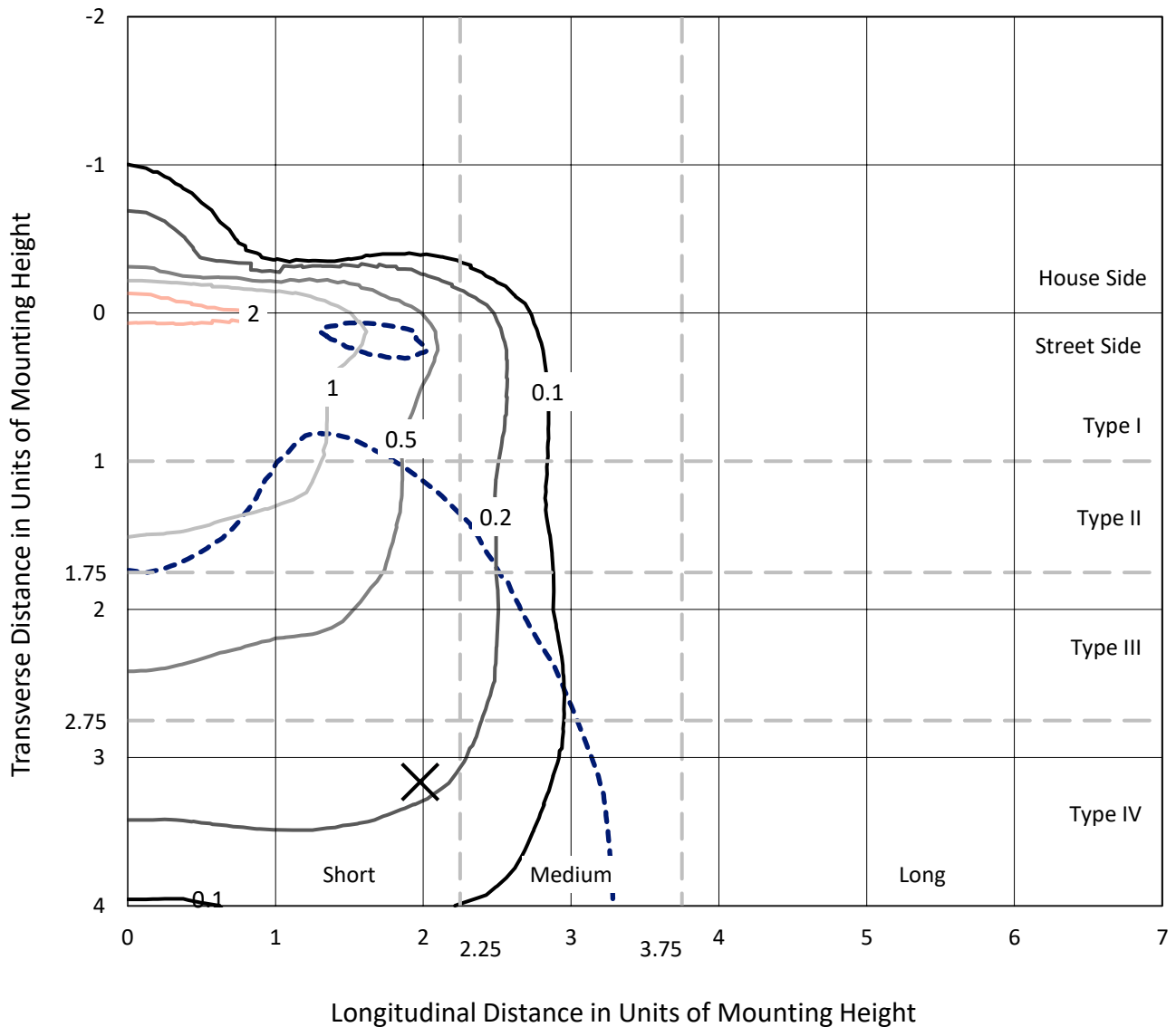
Lumens per Lamp: N/A
Luminaire Lumens: 3299.7 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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

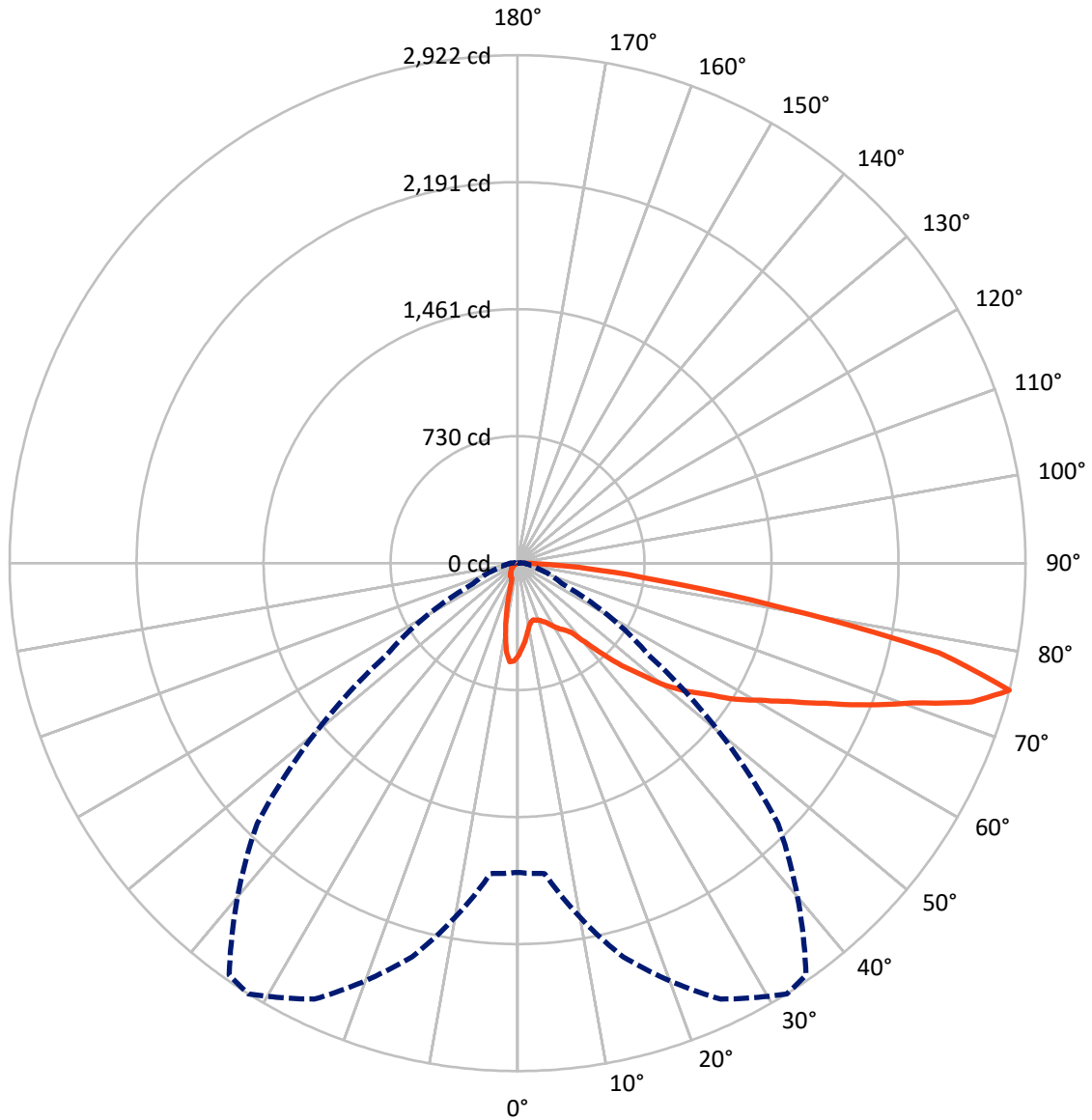
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.4 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	356.5	0.0	356.5
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	2943.2	0.0	2943.2
	% Fixture	89.2	0.0	89.2
Total	Lumens	3299.7	0.0	3299.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.8	1.4
10°-20°	106.3	3.2
20°-30°	159.2	4.8
30°-40°	244.3	7.4
40°-50°	427.2	12.9
50°-60°	667.8	20.2
60°-70°	863.4	26.2
70°-80°	703.2	21.3
80°-90°	81.4	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°	3299.7	100.0
0°-180°	3299.7	100.0



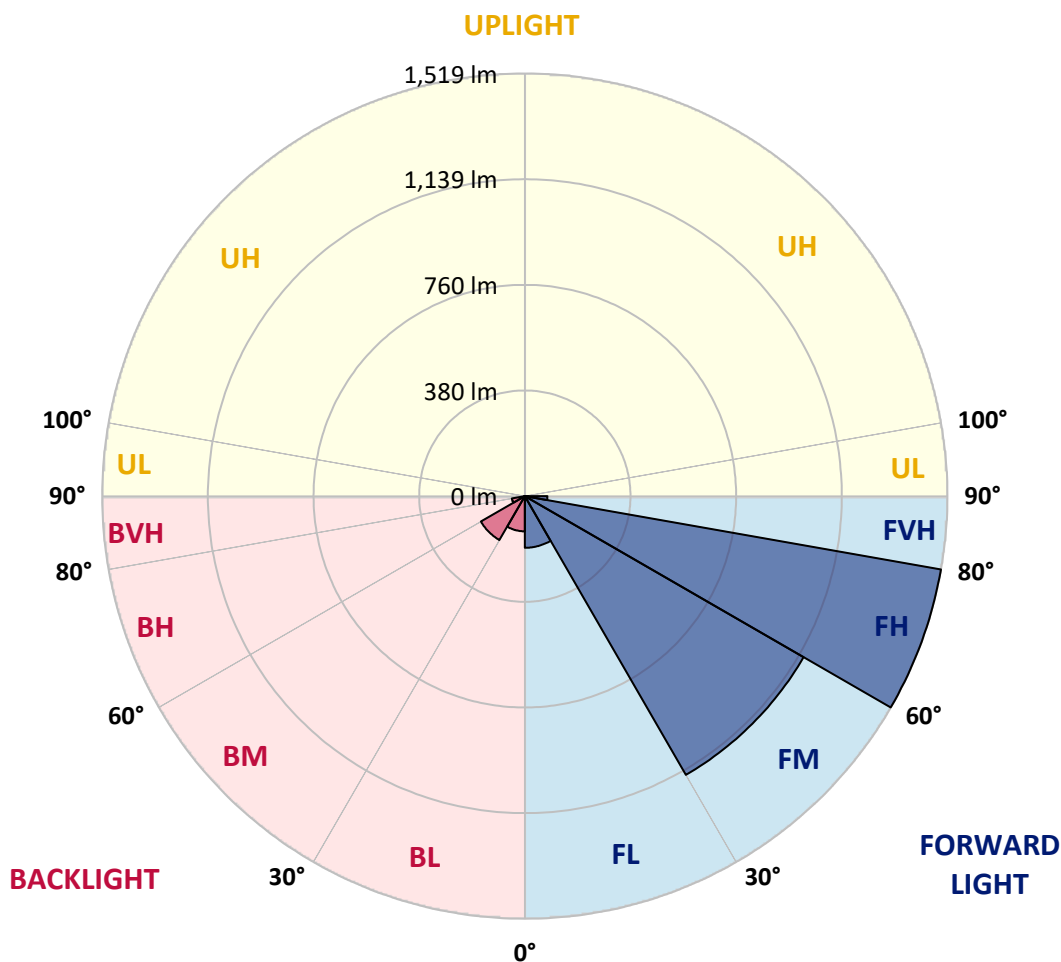
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	185.7	5.6			
FM (30°-60°)	1157.0	35.1			
FH (60°-80°)	1519.2	46.0			G1/1800
FVH (80°-90°)	81.3	2.5			G1/100
BL (0°-30°)	126.6	3.8	B1/500		
BM (30°-60°)	182.4	5.5	B0/220		
BH (60°-80°)	47.4	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°	532.8	532.8	532.8	532.8	532.8	532.8	532.8	532.8	532.8	532.8	532.8
2.5°	477.8	484.6	483.7	488.0	488.8	491.4	497.3	497.3	514.2	526.0	533.6
5°	434.7	430.5	432.2	437.2	449.9	449.1	463.4	471.1	491.4	508.3	526.0
7.5°	381.4	380.6	384.0	395.8	405.1	412.7	427.9	447.4	474.4	499.8	531.1
10°	347.6	345.9	352.7	356.0	367.0	372.1	395.8	426.2	458.4	494.7	531.1
12.5°	340.0	334.1	337.4	336.6	346.7	349.3	372.1	409.3	448.2	493.0	537.9
15°	344.2	340.0	336.6	336.6	339.1	340.8	365.3	398.3	442.3	495.6	553.1
17.5°	357.7	355.2	345.0	334.9	345.9	345.9	361.1	395.8	443.2	503.2	571.7
20°	373.8	371.3	353.5	341.7	349.3	357.7	373.8	401.7	445.7	509.1	600.5
22.5°	391.6	391.6	367.0	353.5	363.7	364.5	393.3	420.3	455.8	524.3	619.1
25°	413.6	411.9	388.2	373.0	376.3	385.6	411.9	440.6	474.4	545.5	653.7
27.5°	442.3	439.8	411.9	396.6	400.9	411.0	440.6	469.4	491.4	553.9	683.3
30°	466.0	463.4	440.6	417.8	427.1	436.4	471.1	496.4	512.5	570.0	717.2
32.5°	471.1	466.8	451.6	441.5	451.6	469.4	496.4	522.6	547.2	610.6	781.4
35°	529.4	514.2	474.4	458.4	473.6	479.5	524.3	570.9	594.5	642.7	853.3
37.5°	641.0	626.7	574.2	529.4	508.3	515.0	573.4	630.9	653.7	702.8	932.0
40°	778.1	754.4	698.6	638.5	595.4	586.9	625.0	709.6	731.5	778.1	1035.1
42.5°	934.5	911.7	825.4	754.4	710.4	699.4	705.3	800.9	819.5	847.4	1102.8
45°	1047.0	1035.1	937.9	874.5	839.8	827.9	813.6	900.7	924.4	933.7	1200.9
47.5°	1112.1	1103.7	1049.5	1006.4	959.9	947.2	956.5	1039.4	1023.3	1030.9	1294.8
50°	1199.2	1177.2	1103.7	1117.2	1107.9	1104.5	1120.6	1156.9	1133.3	1111.3	1397.1
52.5°	1269.4	1230.5	1178.9	1211.9	1226.3	1239.0	1295.6	1322.7	1217.0	1183.1	1463.1
55°	1312.5	1275.3	1288.9	1319.3	1334.5	1392.9	1459.7	1439.4	1271.9	1240.7	1551.0
57.5°	1351.4	1354.0	1390.3	1399.6	1477.5	1487.6	1616.2	1550.2	1310.8	1293.1	1585.7
60°	1445.3	1436.0	1465.6	1525.7	1600.1	1656.7	1779.4	1624.6	1330.3	1320.2	1576.4
62.5°	1614.5	1557.0	1567.1	1643.2	1752.3	1814.0	1873.2	1658.4	1325.2	1324.4	1548.5
65°	1829.3	1763.3	1732.9	1803.9	1945.1	2032.2	1979.0	1696.5	1291.4	1315.1	1444.5
67.5°	2007.7	2008.6	1951.9	1991.6	2176.0	2194.6	2078.8	1688.9	1234.7	1241.5	1190.8
70°	2213.2	2241.1	2191.2	2315.6	2407.7	2419.6	2192.9	1626.3	1113.0	936.2	684.2
72.5°	2265.7	2280.0	2435.6	2626.8	2730.8	2734.2	2305.4	1417.4	732.4	413.6	212.3
75°	1779.4	1792.9	2344.3	2767.2	2921.9	2892.3	2117.7	920.1	285.0	120.9	50.7
77.5°	992.9	997.1	1455.5	2236.9	2478.8	2359.5	1483.4	358.6	115.0	69.3	23.7
80°	271.5	318.8	539.6	1102.8	1513.8	1485.9	706.2	116.7	74.4	54.1	11.0
82.5°	65.1	70.2	173.4	488.0	800.0	834.7	210.6	59.2	51.6	44.8	5.9
85°	23.7	26.2	53.3	237.6	411.0	377.2	63.4	29.6	38.1	34.7	2.5
87.5°	8.5	8.5	16.9	77.8	120.1	90.5	21.1	10.1	19.5	21.1	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°	532.8	532.8	532.8	532.8	532.8	532.8	532.8	532.8	532.8	532.8	532.8
2.5°	534.5	534.5	546.3	556.5	559.9	564.1	559.9	569.2	568.3	564.1	565.8
5°	535.3	550.6	560.7	567.5	570.9	570.0	571.7	561.6	555.6	551.4	547.2
7.5°	539.6	553.9	572.5	570.9	561.6	542.1	526.9	499.8	473.6	472.8	468.5
10°	553.9	566.6	577.6	570.9	537.0	477.8	429.6	393.3	360.3	345.0	346.7
12.5°	564.1	587.8	582.7	548.0	477.8	400.0	329.0	275.7	246.1	218.2	218.2
15°	585.2	593.7	592.0	515.0	405.1	312.1	225.8	171.7	140.4	127.7	126.0
17.5°	605.5	614.8	586.1	465.1	333.2	209.7	137.0	106.6	102.3	100.6	101.5
20°	630.9	631.7	581.0	415.2	250.3	132.8	98.1	95.6	96.4	95.6	95.6
22.5°	658.0	663.9	563.2	345.0	166.6	96.4	91.3	92.2	92.2	92.2	94.7
25°	693.5	684.2	535.3	278.2	109.1	88.8	88.8	89.6	89.6	89.6	90.5
27.5°	717.2	704.5	499.8	200.4	85.4	83.7	85.4	85.4	87.1	87.1	87.1
30°	766.2	733.2	455.0	129.4	77.0	79.5	81.2	82.9	83.7	85.4	86.3
32.5°	804.3	758.6	399.2	86.3	70.2	71.9	76.1	79.5	82.9	82.0	82.0
35°	873.6	800.0	347.6	68.5	64.3	64.3	68.5	74.4	79.5	81.2	81.2
37.5°	953.1	833.9	275.7	62.6	59.2	59.2	61.7	68.5	75.3	78.7	77.0
40°	1019.1	872.8	203.8	58.4	55.0	55.0	56.7	61.7	69.3	75.3	76.1
42.5°	1065.6	901.5	137.9	54.1	51.6	50.7	53.3	55.8	61.7	70.2	71.9
45°	1107.9	916.7	85.4	49.9	48.2	48.2	48.2	50.7	55.0	62.6	64.3
47.5°	1183.1	933.7	61.7	46.5	44.0	44.8	45.7	46.5	49.9	51.6	52.4
50°	1246.6	946.3	50.7	43.1	41.4	42.3	42.3	42.3	44.0	41.4	41.4
52.5°	1294.8	933.7	43.1	39.7	38.1	38.9	38.1	38.1	36.4	33.0	33.0
55°	1330.3	910.8	34.7	36.4	36.4	36.4	34.7	32.1	28.8	26.2	26.2
57.5°	1339.6	871.9	27.1	30.4	33.0	33.0	29.6	26.2	22.0	19.5	18.6
60°	1325.2	787.4	20.3	22.0	25.4	26.2	23.7	19.5	15.2	12.7	12.7
62.5°	1273.6	720.5	16.1	14.4	18.6	19.5	16.9	12.7	8.5	5.9	5.1
65°	1175.5	617.4	11.8	10.1	12.7	13.5	11.0	5.9	2.5	0.8	0.0
67.5°	943.0	465.1	7.6	6.8	8.5	8.5	5.1	1.7	0.0	0.0	0.0
70°	521.8	261.3	5.1	3.4	4.2	2.5	0.8	0.0	0.0	0.0	0.0
72.5°	150.5	74.4	2.5	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	40.6	17.8	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	17.8	6.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	7.6	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.7	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)