

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: P676535

Luminaire Tested: **CCW-SA-2A-727-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676535
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-727-U-T4FT-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
T4FT distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

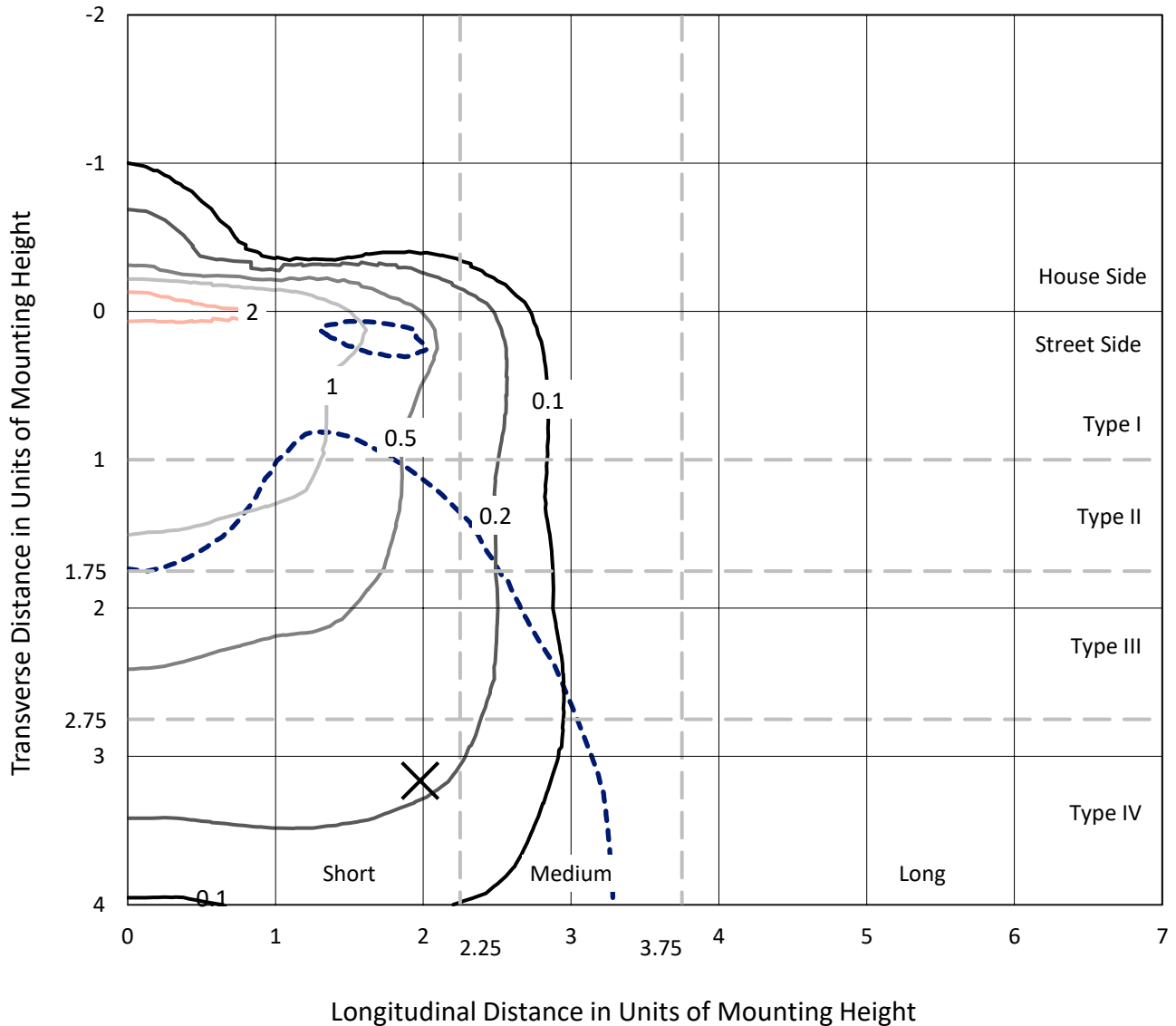
Lumens per Lamp: N/A
Luminaire Lumens: 3285.7 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2
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

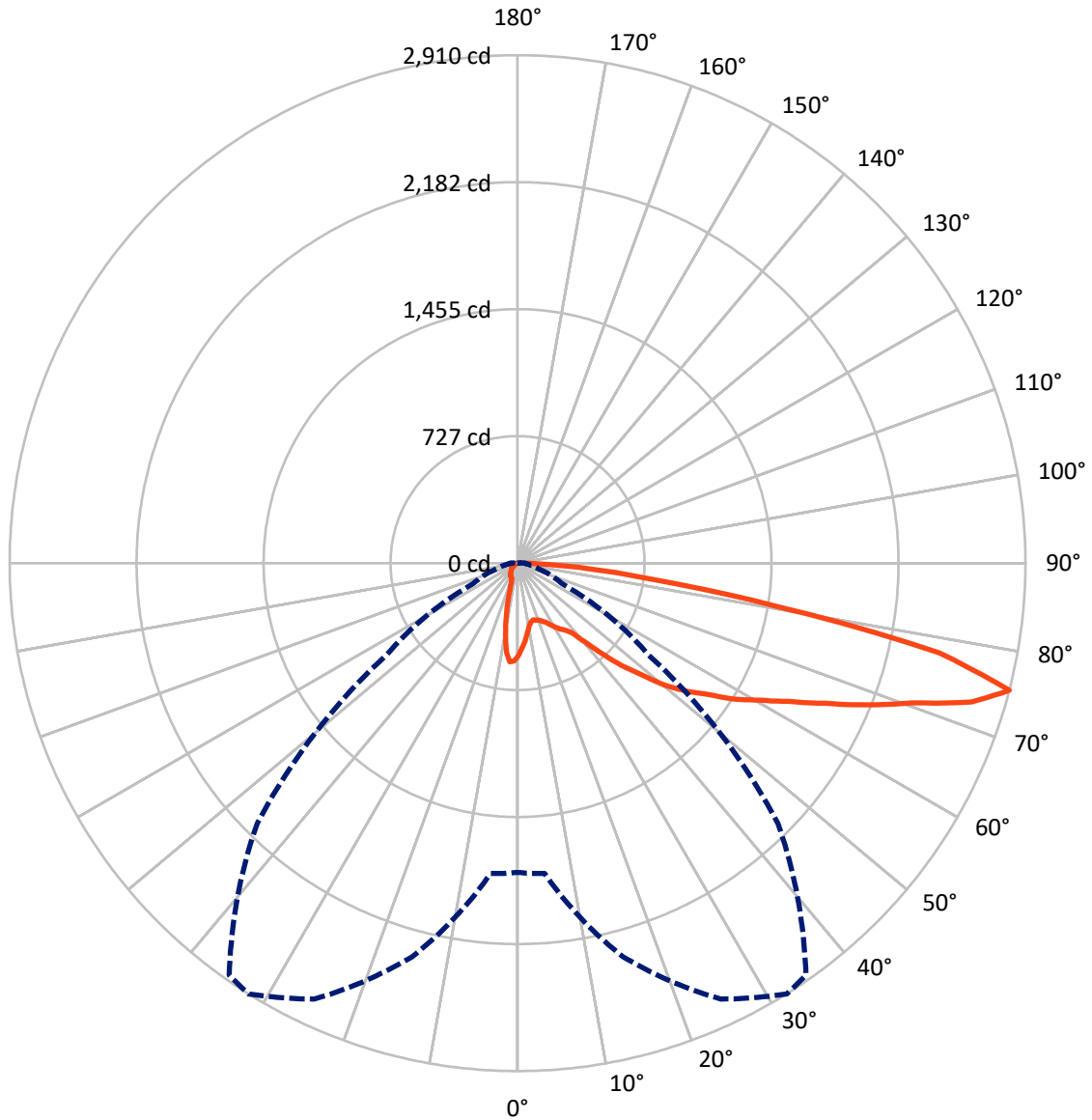
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.4 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	355.0	0.0	355.0
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	2930.8	0.0	2930.8
	% Fixture	89.2	0.0	89.2
Total	Lumens	3285.7	0.0	3285.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.6	1.4
10°-20°	105.8	3.2
20°-30°	158.5	4.8
30°-40°	243.3	7.4
40°-50°	425.4	12.9
50°-60°	665.0	20.2
60°-70°	859.7	26.2
70°-80°	700.2	21.3
80°-90°	81.1	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°	3285.7	100.0
0°-180°	3285.7	100.0



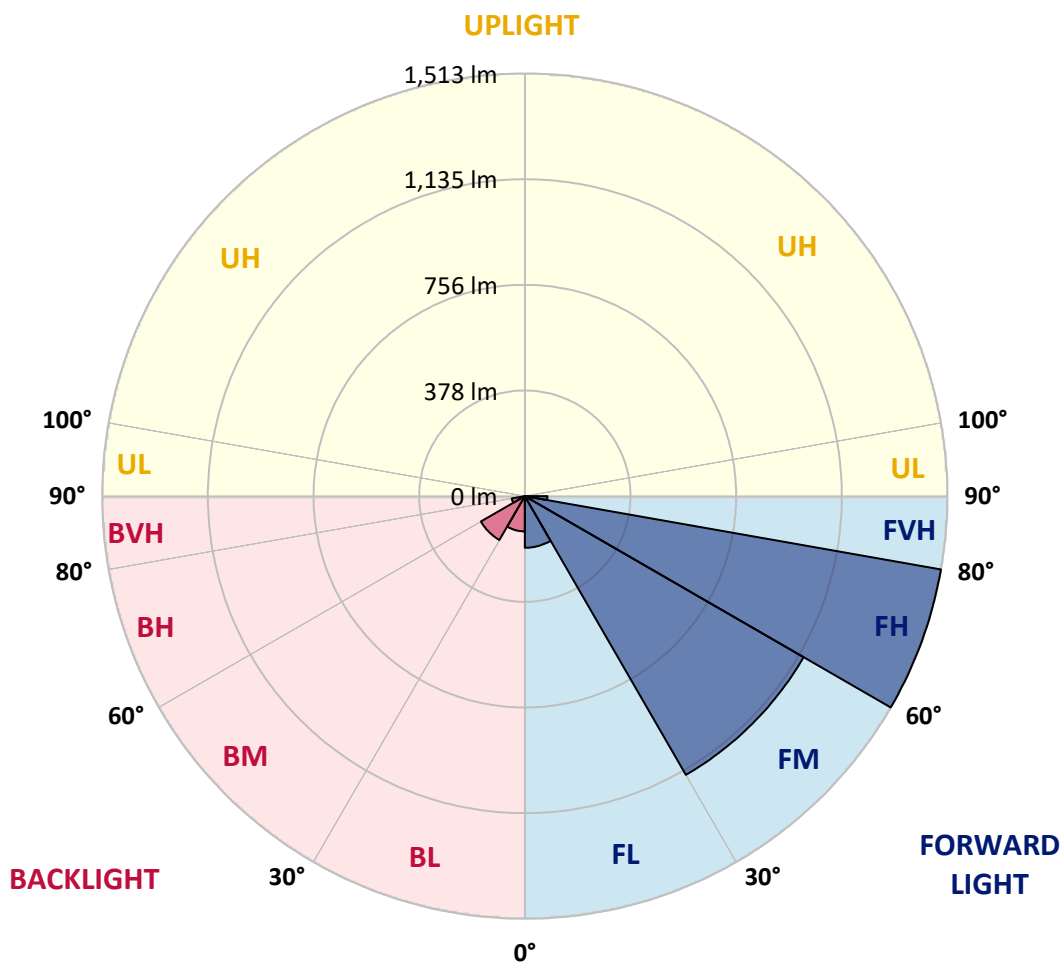
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	184.9	5.6			
FM (30°-60°)	1152.1	35.1			
FH (60°-80°)	1512.8	46.0			G1/1800
FVH (80°-90°)	81.0	2.5			G1/100
BL (0°-30°)	126.1	3.8	B1/500		
BM (30°-60°)	181.6	5.5	B0/220		
BH (60°-80°)	47.2	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°	530.5	530.5	530.5	530.5	530.5	530.5	530.5	530.5	530.5	530.5	530.5
2.5°	475.8	482.5	481.7	485.9	486.8	489.3	495.2	495.2	512.0	523.8	531.4
5°	432.9	428.6	430.3	435.4	448.0	447.2	461.5	469.1	489.3	506.1	523.8
7.5°	379.8	379.0	382.3	394.1	403.4	411.0	426.1	445.5	472.4	497.7	528.9
10°	346.1	344.4	351.2	354.5	365.5	370.5	394.1	424.4	456.4	492.6	528.9
12.5°	338.5	332.6	336.0	335.2	345.3	347.8	370.5	407.6	446.3	491.0	535.6
15°	342.7	338.5	335.2	335.2	337.7	339.4	363.8	396.6	440.4	493.5	550.8
17.5°	356.2	353.7	343.6	333.5	344.4	344.4	359.6	394.1	441.3	501.1	569.3
20°	372.2	369.7	352.0	340.2	347.8	356.2	372.2	400.0	443.8	507.0	597.9
22.5°	389.9	389.9	365.5	352.0	362.1	363.0	391.6	418.5	453.9	522.1	616.4
25°	411.8	410.1	386.5	371.4	374.7	384.0	410.1	438.8	472.4	543.2	651.0
27.5°	440.4	437.9	410.1	395.0	399.2	409.3	438.8	467.4	489.3	551.6	680.4
30°	464.0	461.5	438.8	416.0	425.3	434.5	469.1	494.3	510.3	567.6	714.1
32.5°	469.1	464.9	449.7	439.6	449.7	467.4	494.3	520.4	544.9	608.0	778.1
35°	527.2	512.0	472.4	456.4	471.6	477.5	522.1	568.4	592.0	640.0	849.7
37.5°	638.3	624.0	571.8	527.2	506.1	512.9	571.0	628.2	651.0	699.8	928.0
40°	774.8	751.2	695.6	635.8	592.9	584.4	622.3	706.5	728.4	774.8	1030.8
42.5°	930.6	907.8	821.9	751.2	707.4	696.4	702.3	797.5	816.0	843.8	1098.1
45°	1042.6	1030.8	933.9	870.8	836.2	824.4	810.1	896.9	920.5	929.7	1195.8
47.5°	1107.4	1099.0	1045.1	1002.1	955.8	943.2	952.5	1035.0	1019.0	1026.6	1289.3
50°	1194.1	1172.2	1099.0	1112.5	1103.2	1099.8	1115.8	1152.0	1128.5	1106.6	1391.2
52.5°	1264.0	1225.3	1173.9	1206.8	1221.1	1233.7	1290.1	1317.1	1211.8	1178.1	1456.9
55°	1307.0	1269.9	1283.4	1313.7	1328.9	1387.0	1453.5	1433.3	1266.6	1235.4	1544.5
57.5°	1345.7	1348.3	1384.5	1393.7	1471.2	1481.3	1609.3	1543.6	1305.3	1287.6	1579.0
60°	1439.2	1429.9	1459.4	1519.2	1593.3	1649.7	1771.8	1617.7	1324.7	1314.6	1569.7
62.5°	1607.6	1550.4	1560.5	1636.3	1744.9	1806.4	1865.3	1651.4	1319.6	1318.8	1541.9
65°	1821.5	1755.8	1725.5	1796.3	1936.9	2023.6	1970.6	1689.3	1285.9	1309.5	1438.4
67.5°	1999.2	2000.1	1943.6	1983.2	2166.8	2185.3	2070.0	1681.7	1229.5	1236.3	1185.7
70°	2203.9	2231.7	2182.0	2305.8	2397.6	2409.3	2183.7	1619.4	1108.2	932.2	681.3
72.5°	2256.1	2270.4	2425.3	2615.7	2719.2	2722.6	2295.7	1411.4	729.3	411.8	211.4
75°	1771.8	1785.3	2334.4	2755.5	2909.6	2880.1	2108.7	916.2	283.8	120.4	50.5
77.5°	988.7	992.9	1449.3	2227.4	2468.3	2349.6	1477.1	357.1	114.5	69.1	23.6
80°	270.3	317.5	537.3	1098.1	1507.4	1479.6	703.2	116.2	74.1	53.9	10.9
82.5°	64.8	69.9	172.6	485.9	796.7	831.2	209.7	58.9	51.4	44.6	5.9
85°	23.6	26.1	53.1	236.6	409.3	375.6	63.2	29.5	37.9	34.5	2.5
87.5°	8.4	8.4	16.8	77.5	119.6	90.1	21.1	10.1	19.4	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°	530.5	530.5	530.5	530.5	530.5	530.5	530.5	530.5	530.5	530.5	530.5
2.5°	532.2	532.2	544.0	554.1	557.5	561.7	557.5	566.8	565.9	561.7	563.4
5°	533.1	548.2	558.3	565.1	568.4	567.6	569.3	559.2	553.3	549.1	544.9
7.5°	537.3	551.6	570.1	568.4	559.2	539.8	524.6	497.7	471.6	470.8	466.5
10°	551.6	564.2	575.2	568.4	534.8	475.8	427.8	391.6	358.7	343.6	345.3
12.5°	561.7	585.3	580.2	545.7	475.8	398.3	327.6	274.5	245.1	217.3	217.3
15°	582.8	591.2	589.5	512.9	403.4	310.7	224.8	171.0	139.8	127.2	125.5
17.5°	603.0	612.2	583.6	463.2	331.8	208.8	136.4	106.1	101.9	100.2	101.1
20°	628.2	629.1	578.5	413.5	249.3	132.2	97.7	95.2	96.0	95.2	95.2
22.5°	655.2	661.1	560.9	343.6	165.9	96.0	91.0	91.8	91.8	91.8	94.3
25°	690.5	681.3	533.1	277.1	108.6	88.4	88.4	89.3	89.3	89.3	90.1
27.5°	714.1	701.5	497.7	199.6	85.1	83.4	85.1	85.1	86.7	86.7	86.7
30°	763.0	730.1	453.1	128.8	76.6	79.2	80.8	82.5	83.4	85.1	85.9
32.5°	800.9	755.4	397.5	85.9	69.9	71.6	75.8	79.2	82.5	81.7	81.7
35°	869.9	796.7	346.1	68.2	64.0	64.0	68.2	74.1	79.2	80.8	80.8
37.5°	949.1	830.3	274.5	62.3	58.9	58.9	61.5	68.2	74.9	78.3	76.6
40°	1014.8	869.1	203.0	58.1	54.7	54.7	56.4	61.5	69.1	74.9	75.8
42.5°	1061.1	897.7	137.3	53.9	51.4	50.5	53.1	55.6	61.5	69.9	71.6
45°	1103.2	912.9	85.1	49.7	48.0	48.0	48.0	50.5	54.7	62.3	64.0
47.5°	1178.1	929.7	61.5	46.3	43.8	44.6	45.5	46.3	49.7	51.4	52.2
50°	1241.3	942.3	50.5	42.9	41.3	42.1	42.1	42.1	43.8	41.3	41.3
52.5°	1289.3	929.7	42.9	39.6	37.9	38.7	37.9	37.9	36.2	32.8	32.8
55°	1324.7	907.0	34.5	36.2	36.2	36.2	34.5	32.0	28.6	26.1	26.1
57.5°	1333.9	868.2	26.9	30.3	32.8	32.8	29.5	26.1	21.9	19.4	18.5
60°	1319.6	784.0	20.2	21.9	25.3	26.1	23.6	19.4	15.2	12.6	12.6
62.5°	1268.3	717.5	16.0	14.3	18.5	19.4	16.8	12.6	8.4	5.9	5.1
65°	1170.6	614.8	11.8	10.1	12.6	13.5	10.9	5.9	2.5	0.8	0.0
67.5°	939.0	463.2	7.6	6.7	8.4	8.4	5.1	1.7	0.0	0.0	0.0
70°	519.6	260.2	5.1	3.4	4.2	2.5	0.8	0.0	0.0	0.0	0.0
72.5°	149.9	74.1	2.5	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	40.4	17.7	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	17.7	6.7	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)