

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: P676521

Luminaire Tested: **CCW-SA-1D-722-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676521
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-722-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) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

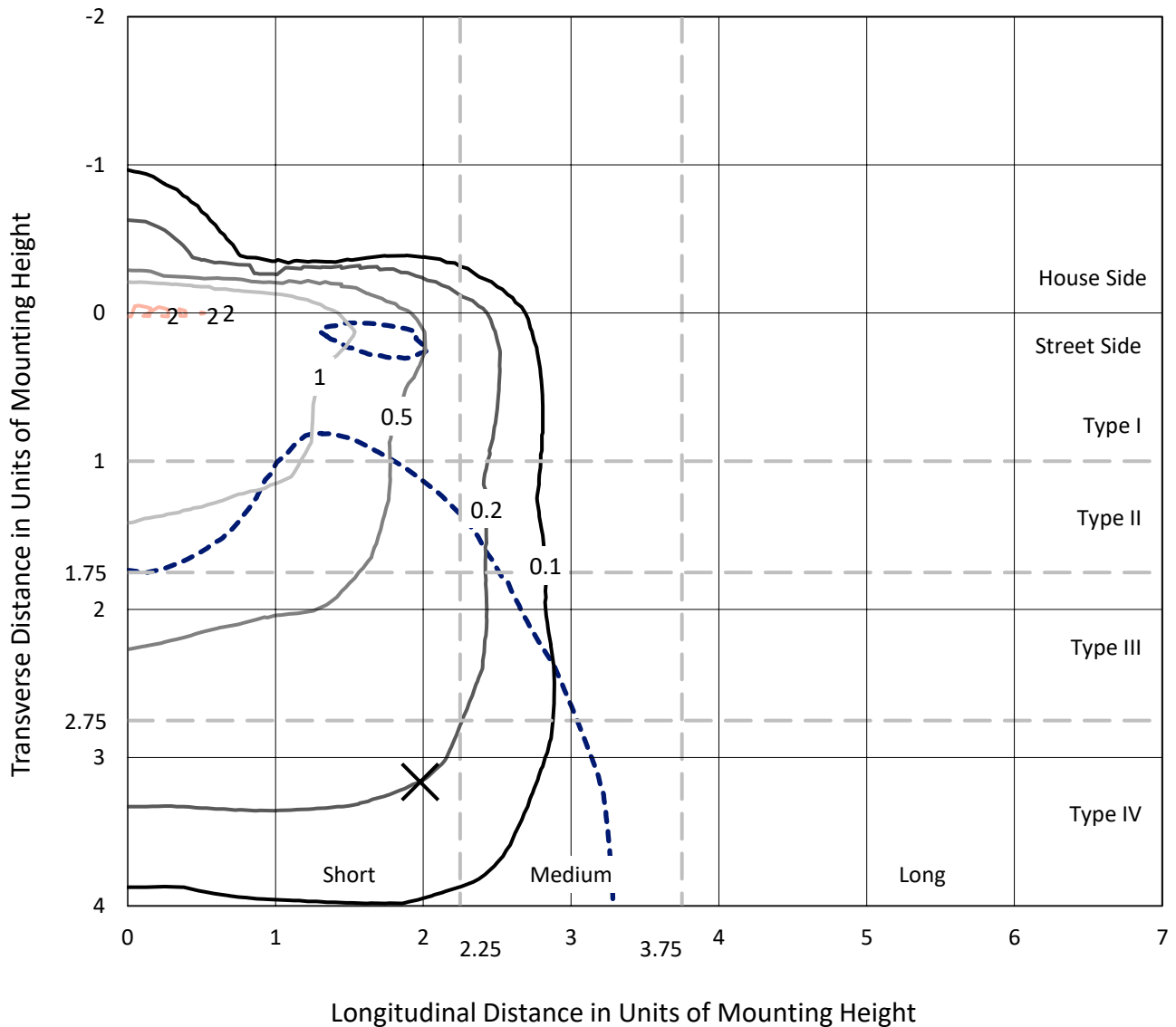
Lumens per Lamp: N/A
Luminaire Lumens: 2949.7 lumens
Efficiency: N/A
Efficacy: 67.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
Input Voltage (V): 120
Input Current (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

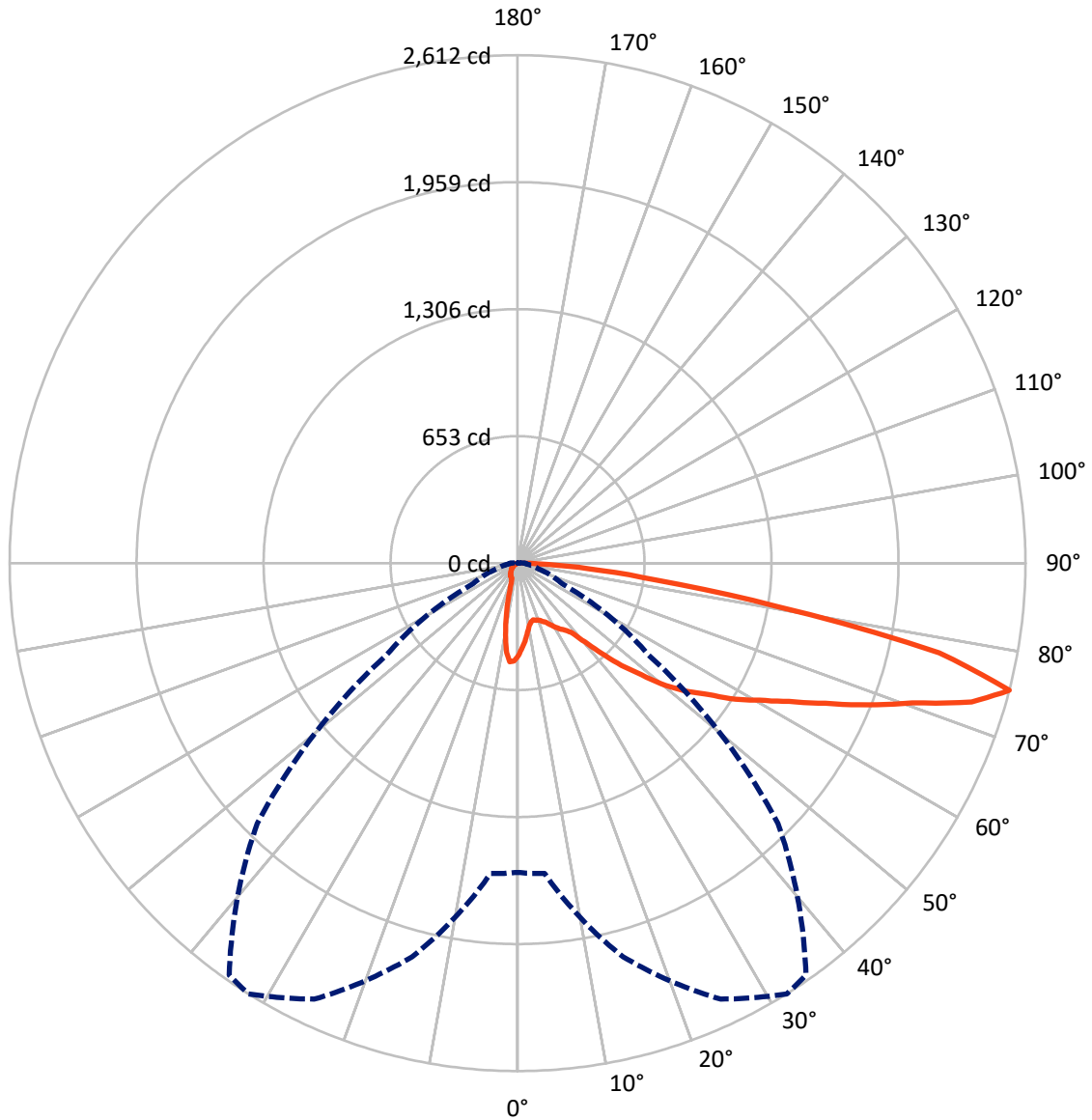
× Max cd
 - - - 1/2 Max cd



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	318.7	0.0	318.7
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	2631.0	0.0	2631.0
	% Fixture	89.2	0.0	89.2
Total	Lumens	2949.7	0.0	2949.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.9	1.4
10°-20°	95.0	3.2
20°-30°	142.3	4.8
30°-40°	218.4	7.4
40°-50°	381.9	12.9
50°-60°	597.0	20.2
60°-70°	771.8	26.2
70°-80°	628.6	21.3
80°-90°	72.8	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°	2949.7	100.0
0°-180°	2949.7	100.0



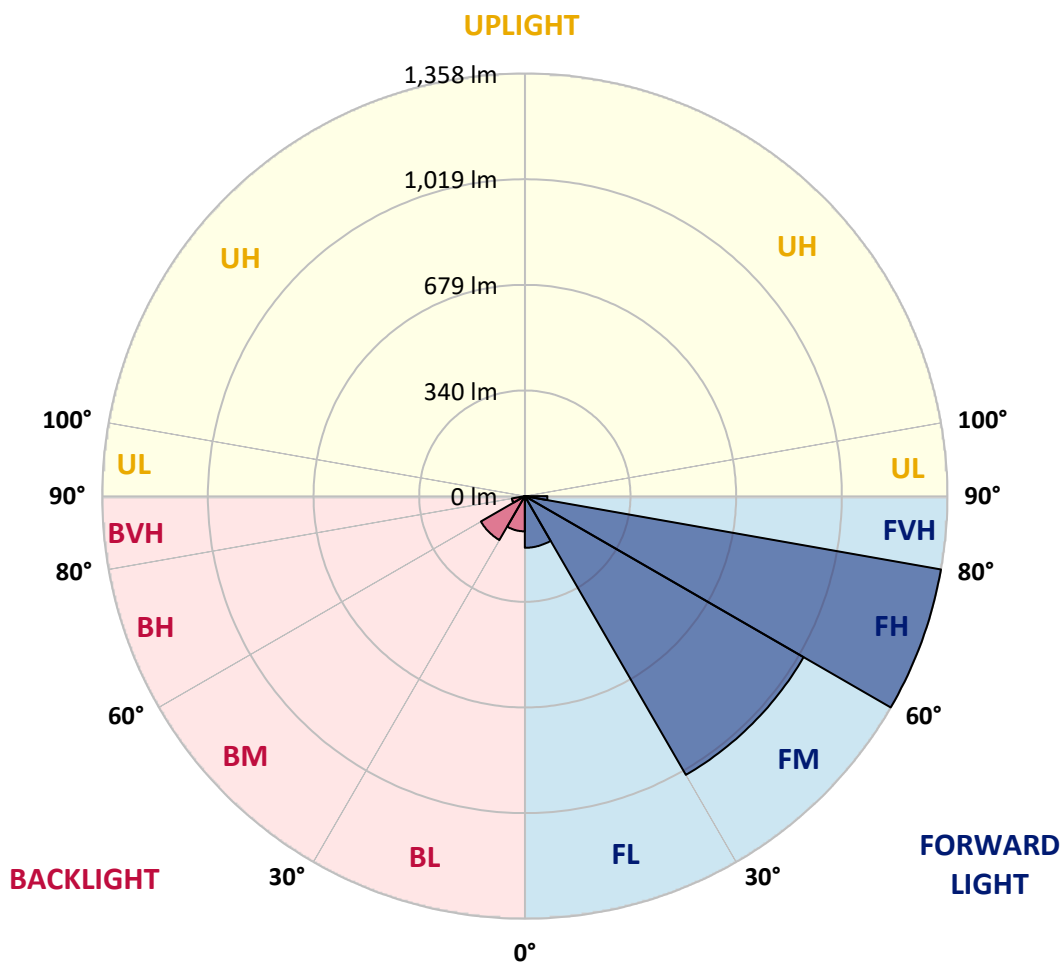
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	166.0	5.6			
FM (30°-60°)	1034.3	35.1			
FH (60°-80°)	1358.1	46.0			G1/1800
FVH (80°-90°)	72.7	2.5			G1/100
BL (0°-30°)	113.2	3.8	B1/500		
BM (30°-60°)	163.0	5.5	B0/220		
BH (60°-80°)	42.4	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°	476.3	476.3	476.3	476.3	476.3	476.3	476.3	476.3	476.3	476.3	476.3
2.5°	427.1	433.2	432.4	436.2	437.0	439.2	444.5	444.5	459.7	470.2	477.0
5°	388.6	384.8	386.3	390.9	402.2	401.4	414.3	421.1	439.2	454.4	470.2
7.5°	341.0	340.2	343.2	353.8	362.1	368.9	382.5	399.9	424.1	446.8	474.8
10°	310.7	309.2	315.3	318.3	328.1	332.6	353.8	381.0	409.8	442.3	474.8
12.5°	303.9	298.6	301.6	300.9	310.0	312.2	332.6	365.9	400.7	440.8	480.8
15°	307.7	303.9	300.9	300.9	303.2	304.7	326.6	356.1	395.4	443.0	494.4
17.5°	319.8	317.5	308.5	299.4	309.2	309.2	322.8	353.8	396.1	449.8	511.1
20°	334.2	331.9	316.0	305.4	312.2	319.8	334.2	359.1	398.4	455.1	536.8
22.5°	350.0	350.0	328.1	316.0	325.1	325.8	351.5	375.7	407.5	468.7	553.4
25°	369.7	368.2	347.0	333.4	336.4	344.7	368.2	393.9	424.1	487.6	584.4
27.5°	395.4	393.1	368.2	354.6	358.3	367.4	393.9	419.6	439.2	495.2	610.9
30°	416.6	414.3	393.9	373.5	381.8	390.1	421.1	443.8	458.1	509.5	641.1
32.5°	421.1	417.3	403.7	394.6	403.7	419.6	443.8	467.2	489.1	545.8	698.6
35°	473.3	459.7	424.1	409.8	423.4	428.7	468.7	510.3	531.5	574.6	762.8
37.5°	573.1	560.2	513.3	473.3	454.4	460.4	512.6	564.0	584.4	628.2	833.1
40°	695.5	674.4	624.5	570.8	532.2	524.7	558.7	634.3	653.9	695.5	925.4
42.5°	835.4	815.0	737.9	674.4	635.0	625.2	630.5	715.9	732.6	757.5	985.8
45°	935.9	925.4	838.4	781.7	750.7	740.1	727.3	805.1	826.3	834.6	1073.5
47.5°	994.1	986.6	938.2	899.6	858.1	846.7	855.0	929.1	914.8	921.6	1157.4
50°	1072.0	1052.4	986.6	998.7	990.4	987.3	1001.7	1034.2	1013.0	993.4	1248.9
52.5°	1134.8	1100.0	1053.9	1083.4	1096.2	1107.5	1158.2	1182.4	1087.9	1057.7	1307.9
55°	1173.3	1140.1	1152.2	1179.4	1193.0	1245.1	1304.9	1286.7	1137.0	1109.1	1386.5
57.5°	1208.1	1210.4	1242.9	1251.2	1320.7	1329.8	1444.7	1385.8	1171.8	1155.9	1417.5
60°	1292.0	1283.7	1310.2	1363.8	1430.4	1481.0	1590.6	1452.3	1189.2	1180.1	1409.2
62.5°	1443.2	1391.8	1400.9	1468.9	1566.4	1621.6	1674.6	1482.5	1184.7	1183.9	1384.2
65°	1635.2	1576.3	1549.1	1612.6	1738.8	1816.7	1769.1	1516.5	1154.4	1175.6	1291.3
67.5°	1794.8	1795.5	1744.9	1780.4	1945.2	1961.8	1858.3	1509.7	1103.8	1109.8	1064.5
70°	1978.5	2003.4	1958.8	2069.9	2152.4	2162.9	1960.3	1453.8	994.9	836.9	611.6
72.5°	2025.3	2038.2	2177.3	2348.2	2441.1	2444.2	2060.9	1267.1	654.7	369.7	189.8
75°	1590.6	1602.7	2095.7	2473.7	2612.0	2585.5	1893.0	822.5	254.8	108.1	45.4
77.5°	887.6	891.3	1301.1	1999.6	2215.9	2109.3	1326.0	320.5	102.8	62.0	21.2
80°	242.7	285.0	482.3	985.8	1353.3	1328.3	631.3	104.3	66.5	48.4	9.8
82.5°	58.2	62.7	155.0	436.2	715.2	746.2	188.2	52.9	46.1	40.1	5.3
85°	21.2	23.4	47.6	212.4	367.4	337.2	56.7	26.5	34.0	31.0	2.3
87.5°	7.6	7.6	15.1	69.6	107.4	80.9	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°	476.3	476.3	476.3	476.3	476.3	476.3	476.3	476.3	476.3	476.3	476.3
2.5°	477.8	477.8	488.4	497.5	500.5	504.3	500.5	508.8	508.0	504.3	505.8
5°	478.6	492.2	501.2	507.3	510.3	509.5	511.1	502.0	496.7	492.9	489.1
7.5°	482.3	495.2	511.8	510.3	502.0	484.6	471.0	446.8	423.4	422.6	418.8
10°	495.2	506.5	516.4	510.3	480.1	427.1	384.1	351.5	322.1	308.5	310.0
12.5°	504.3	525.4	520.9	489.9	427.1	357.6	294.1	246.5	220.0	195.0	195.0
15°	523.2	530.7	529.2	460.4	362.1	279.0	201.9	153.5	125.5	114.2	112.6
17.5°	541.3	549.6	523.9	415.8	297.9	187.5	122.5	95.3	91.5	90.0	90.7
20°	564.0	564.7	519.4	371.2	223.8	118.7	87.7	85.4	86.2	85.4	85.4
22.5°	588.2	593.5	503.5	308.5	148.9	86.2	81.6	82.4	82.4	82.4	84.7
25°	619.9	611.6	478.6	248.7	97.5	79.4	79.4	80.1	80.1	80.1	80.9
27.5°	641.1	629.8	446.8	179.2	76.4	74.8	76.4	76.4	77.9	77.9	77.9
30°	684.9	655.5	406.7	115.7	68.8	71.1	72.6	74.1	74.8	76.4	77.1
32.5°	719.0	678.1	356.8	77.1	62.7	64.3	68.0	71.1	74.1	73.3	73.3
35°	781.0	715.2	310.7	61.2	57.5	57.5	61.2	66.5	71.1	72.6	72.6
37.5°	852.0	745.4	246.5	55.9	52.9	52.9	55.2	61.2	67.3	70.3	68.8
40°	911.0	780.2	182.2	52.2	49.1	49.1	50.7	55.2	62.0	67.3	68.0
42.5°	952.6	805.9	123.2	48.4	46.1	45.4	47.6	49.9	55.2	62.7	64.3
45°	990.4	819.5	76.4	44.6	43.1	43.1	43.1	45.4	49.1	55.9	57.5
47.5°	1057.7	834.6	55.2	41.6	39.3	40.1	40.8	41.6	44.6	46.1	46.9
50°	1114.4	846.0	45.4	38.6	37.0	37.8	37.8	37.8	39.3	37.0	37.0
52.5°	1157.4	834.6	38.6	35.5	34.0	34.8	34.0	34.0	32.5	29.5	29.5
55°	1189.2	814.2	31.0	32.5	32.5	32.5	31.0	28.7	25.7	23.4	23.4
57.5°	1197.5	779.4	24.2	27.2	29.5	29.5	26.5	23.4	19.7	17.4	16.6
60°	1184.7	703.8	18.1	19.7	22.7	23.4	21.2	17.4	13.6	11.3	11.3
62.5°	1138.5	644.1	14.4	12.9	16.6	17.4	15.1	11.3	7.6	5.3	4.5
65°	1050.8	551.9	10.6	9.1	11.3	12.1	9.8	5.3	2.3	0.8	0.0
67.5°	842.9	415.8	6.8	6.0	7.6	7.6	4.5	1.5	0.0	0.0	0.0
70°	466.5	233.6	4.5	3.0	3.8	2.3	0.8	0.0	0.0	0.0	0.0
72.5°	134.6	66.5	2.3	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	36.3	15.9	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	15.9	6.0	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)