

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: P676608

Luminaire Tested: **CCW-SA-1C-830-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676608
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-830-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, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

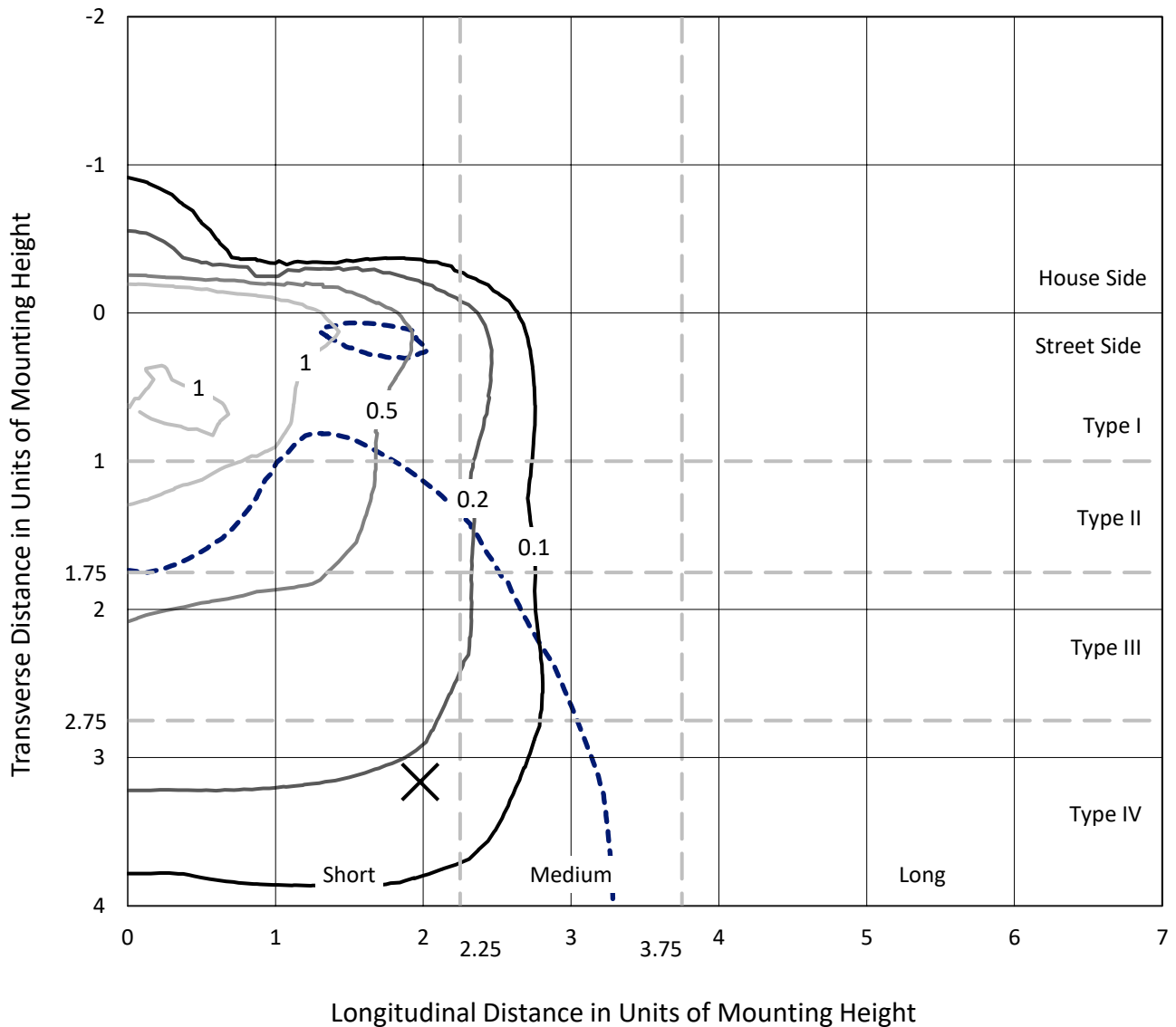
Lumens per Lamp: N/A
Luminaire Lumens: 2579.7 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

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

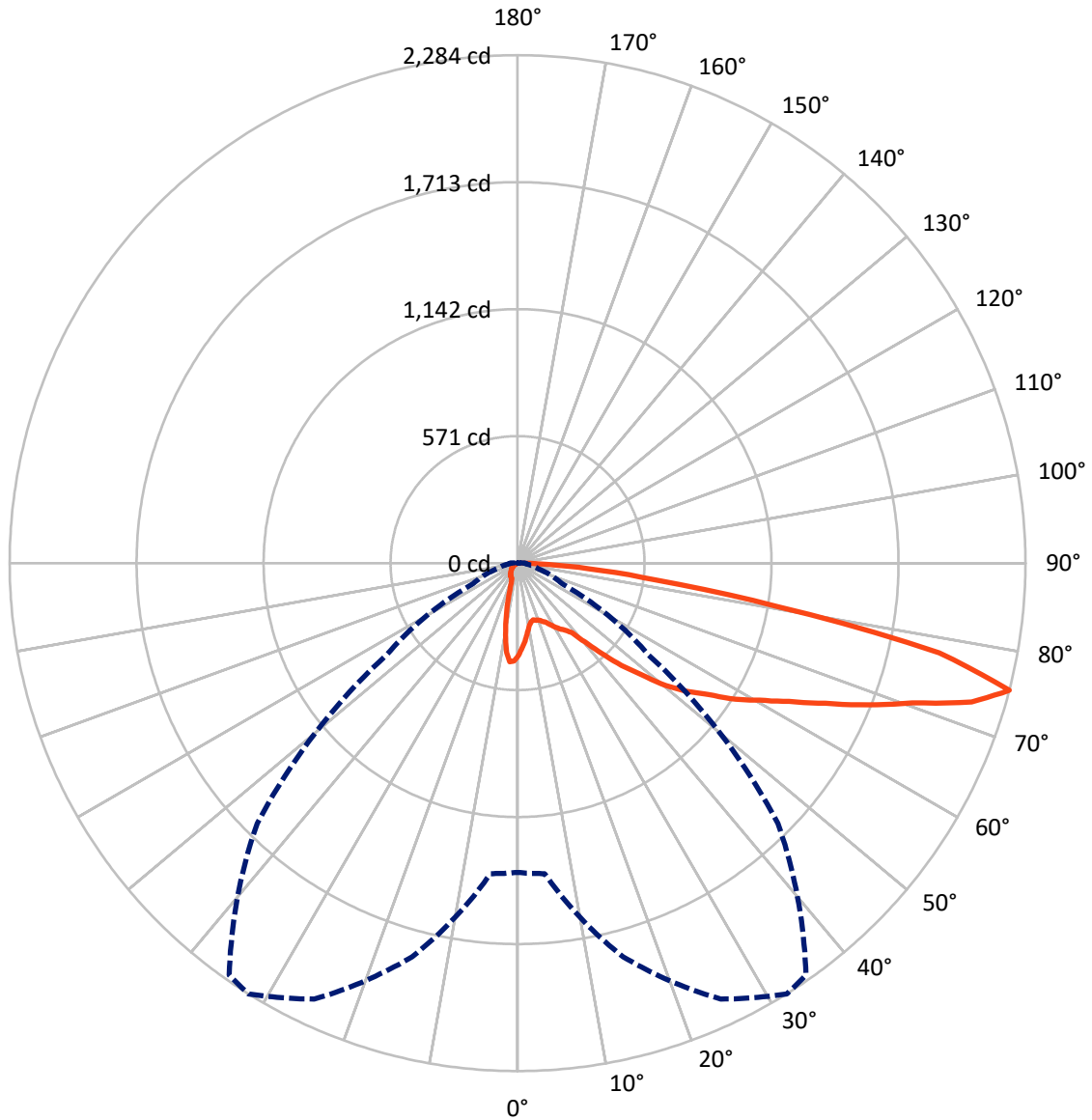
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.9 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	278.7	0.0	278.7
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	2301.0	0.0	2301.0
	% Fixture	89.2	0.0	89.2
Total	Lumens	2579.7	0.0	2579.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.6	1.4
10°-20°	83.1	3.2
20°-30°	124.4	4.8
30°-40°	191.0	7.4
40°-50°	334.0	12.9
50°-60°	522.1	20.2
60°-70°	675.0	26.2
70°-80°	549.8	21.3
80°-90°	63.6	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°	2579.7	100.0
0°-180°	2579.7	100.0



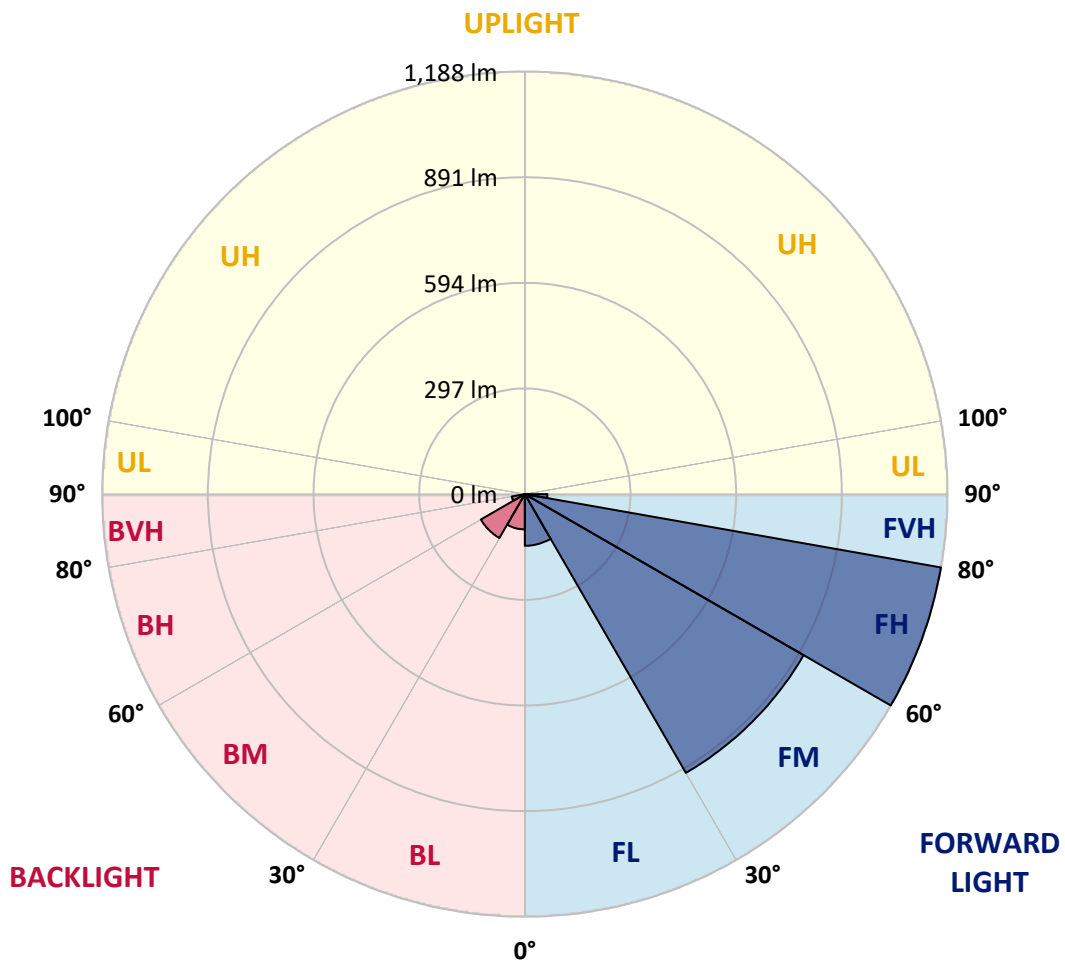
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	145.1	5.6			
FM (30°-60°)	904.5	35.1			
FH (60°-80°)	1187.7	46.0			G1/1800
FVH (80°-90°)	63.6	2.5			G1/100
BL (0°-30°)	99.0	3.8	B0/110		
BM (30°-60°)	142.6	5.5	B0/220		
BH (60°-80°)	37.1	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: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	416.5	416.5	416.5	416.5	416.5	416.5	416.5	416.5	416.5	416.5	416.5
2.5°	373.6	378.8	378.2	381.5	382.2	384.1	388.8	388.8	402.0	411.2	417.2
5°	339.8	336.5	337.9	341.8	351.7	351.1	362.3	368.3	384.1	397.4	411.2
7.5°	298.2	297.5	300.2	309.4	316.7	322.6	334.5	349.8	370.9	390.7	415.2
10°	271.7	270.4	275.7	278.4	286.9	290.9	309.4	333.2	358.4	386.8	415.2
12.5°	265.8	261.2	263.8	263.1	271.1	273.1	290.9	320.0	350.4	385.5	420.5
15°	269.1	265.8	263.1	263.1	265.1	266.4	285.6	311.4	345.8	387.4	432.4
17.5°	279.7	277.7	269.8	261.8	270.4	270.4	282.3	309.4	346.5	393.4	446.9
20°	292.2	290.3	276.4	267.1	273.1	279.7	292.2	314.1	348.4	398.0	469.4
22.5°	306.1	306.1	286.9	276.4	284.3	285.0	307.4	328.6	356.4	409.9	484.0
25°	323.3	322.0	303.5	291.6	294.2	301.5	322.0	344.5	370.9	426.5	511.1
27.5°	345.8	343.8	322.0	310.1	313.4	321.3	344.5	366.9	384.1	433.1	534.2
30°	364.3	362.3	344.5	326.6	333.9	341.2	368.3	388.1	400.7	445.6	560.7
32.5°	368.3	365.0	353.1	345.1	353.1	366.9	388.1	408.6	427.8	477.4	610.9
35°	413.9	402.0	370.9	358.4	370.3	374.9	409.9	446.3	464.8	502.5	667.1
37.5°	501.2	489.9	448.9	413.9	397.4	402.6	448.3	493.2	511.1	549.4	728.6
40°	608.3	589.8	546.1	499.2	465.5	458.8	488.6	554.7	571.9	608.3	809.3
42.5°	730.6	712.7	645.3	589.8	555.4	546.8	551.4	626.1	640.7	662.5	862.2
45°	818.5	809.3	733.2	683.6	656.5	647.3	636.0	704.1	722.7	729.9	938.9
47.5°	869.4	862.8	820.5	786.8	750.4	740.5	747.8	812.6	800.0	806.0	1012.2
50°	937.5	920.3	862.8	873.4	866.1	863.5	876.0	904.5	886.0	868.8	1092.2
52.5°	992.4	962.0	921.7	947.4	958.7	968.6	1012.9	1034.1	951.4	925.0	1143.8
55°	1026.1	997.0	1007.6	1031.4	1043.3	1088.9	1141.2	1125.3	994.4	969.9	1212.6
57.5°	1056.5	1058.5	1087.0	1094.2	1155.1	1163.0	1263.5	1211.9	1024.8	1010.9	1239.7
60°	1129.9	1122.7	1145.8	1192.7	1250.9	1295.2	1391.1	1270.1	1040.0	1032.1	1232.4
62.5°	1262.2	1217.2	1225.1	1284.6	1369.9	1418.2	1464.5	1296.5	1036.0	1035.4	1210.6
65°	1430.1	1378.5	1354.7	1410.3	1520.7	1588.8	1547.1	1326.3	1009.6	1028.1	1129.3
67.5°	1569.6	1570.3	1526.0	1557.0	1701.2	1715.7	1625.1	1320.3	965.3	970.6	930.9
70°	1730.3	1752.1	1713.1	1810.3	1882.3	1891.6	1714.4	1271.4	870.1	731.9	534.9
72.5°	1771.3	1782.5	1904.2	2053.6	2134.9	2137.5	1802.3	1108.1	572.6	323.3	166.0
75°	1391.1	1401.7	1832.8	2163.3	2284.3	2261.2	1655.6	719.3	222.8	94.5	39.7
77.5°	776.2	779.5	1137.9	1748.8	1937.9	1844.7	1159.7	280.3	89.9	54.2	18.5
80°	212.2	249.3	421.8	862.2	1183.5	1161.7	552.1	91.2	58.2	42.3	8.6
82.5°	50.9	54.9	135.5	381.5	625.5	652.6	164.6	46.3	40.3	35.0	4.6
85°	18.5	20.5	41.7	185.8	321.3	294.9	49.6	23.1	29.8	27.1	2.0
87.5°	6.6	6.6	13.2	60.8	93.9	70.7	16.5	7.9	15.2	16.5	0.7
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°	416.5	416.5	416.5	416.5	416.5	416.5	416.5	416.5	416.5	416.5	416.5
2.5°	417.9	417.9	427.1	435.0	437.7	441.0	437.7	445.0	444.3	441.0	442.3
5°	418.5	430.4	438.4	443.6	446.3	445.6	446.9	439.0	434.4	431.1	427.8
7.5°	421.8	433.1	447.6	446.3	439.0	423.8	411.9	390.7	370.3	369.6	366.3
10°	433.1	443.0	451.6	446.3	419.8	373.6	335.9	307.4	281.7	269.8	271.1
12.5°	441.0	459.5	455.5	428.4	373.6	312.7	257.2	215.5	192.4	170.6	170.6
15°	457.5	464.1	462.8	402.6	316.7	244.0	176.5	134.2	109.8	99.8	98.5
17.5°	473.4	480.7	458.2	363.6	260.5	164.0	107.1	83.3	80.0	78.7	79.3
20°	493.2	493.9	454.2	324.6	195.7	103.8	76.7	74.7	75.4	74.7	74.7
22.5°	514.4	519.0	440.3	269.8	130.2	75.4	71.4	72.1	72.1	72.1	74.1
25°	542.2	534.9	418.5	217.5	85.3	69.4	69.4	70.1	70.1	70.1	70.7
27.5°	560.7	550.8	390.7	156.7	66.8	65.5	66.8	66.8	68.1	68.1	68.1
30°	599.0	573.2	355.7	101.2	60.2	62.1	63.5	64.8	65.5	66.8	67.4
32.5°	628.8	593.1	312.1	67.4	54.9	56.2	59.5	62.1	64.8	64.1	64.1
35°	683.0	625.5	271.7	53.6	50.2	50.2	53.6	58.2	62.1	63.5	63.5
37.5°	745.1	651.9	215.5	48.9	46.3	46.3	48.3	53.6	58.8	61.5	60.2
40°	796.7	682.3	159.3	45.6	43.0	43.0	44.3	48.3	54.2	58.8	59.5
42.5°	833.1	704.8	107.8	42.3	40.3	39.7	41.7	43.6	48.3	54.9	56.2
45°	866.1	716.7	66.8	39.0	37.7	37.7	37.7	39.7	43.0	48.9	50.2
47.5°	925.0	729.9	48.3	36.4	34.4	35.0	35.7	36.4	39.0	40.3	41.0
50°	974.6	739.8	39.7	33.7	32.4	33.1	33.1	33.1	34.4	32.4	32.4
52.5°	1012.2	729.9	33.7	31.1	29.8	30.4	29.8	29.8	28.4	25.8	25.8
55°	1040.0	712.1	27.1	28.4	28.4	28.4	27.1	25.1	22.5	20.5	20.5
57.5°	1047.3	681.7	21.2	23.8	25.8	25.8	23.1	20.5	17.2	15.2	14.5
60°	1036.0	615.5	15.9	17.2	19.8	20.5	18.5	15.2	11.9	9.9	9.9
62.5°	995.7	563.3	12.6	11.2	14.5	15.2	13.2	9.9	6.6	4.6	4.0
65°	919.0	482.7	9.3	7.9	9.9	10.6	8.6	4.6	2.0	0.7	0.0
67.5°	737.2	363.6	6.0	5.3	6.6	6.6	4.0	1.3	0.0	0.0	0.0
70°	407.9	204.3	4.0	2.6	3.3	2.0	0.7	0.0	0.0	0.0	0.0
72.5°	117.7	58.2	2.0	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	31.7	13.9	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	13.9	5.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	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)