

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: P676696

Luminaire Tested: **CCW-SA-1B-735-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676696
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-735-U-T4W-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
T4W distribution lens and House Side Shield
Light Source: (16) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

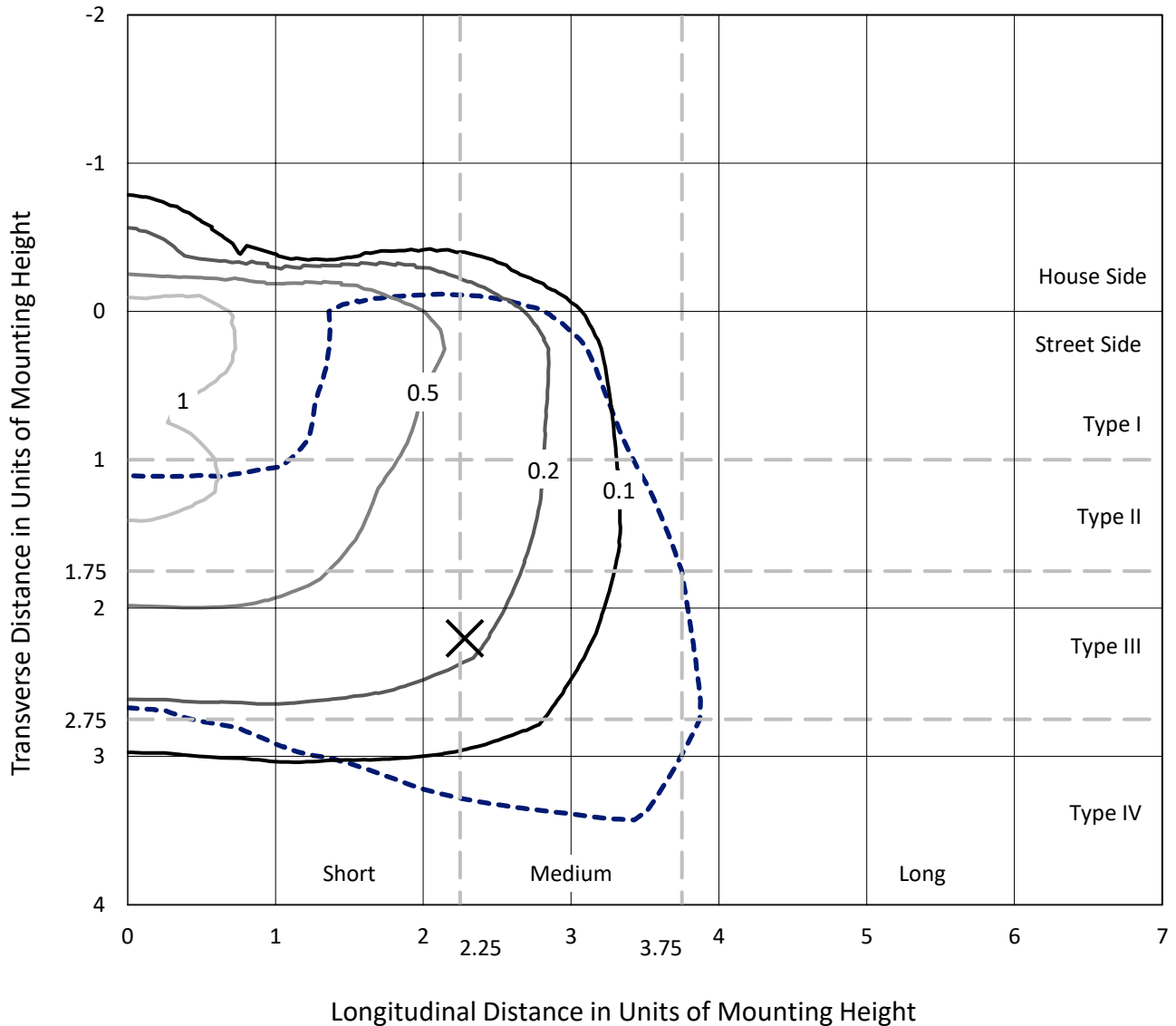
Lumens per Lamp: N/A
Luminaire Lumens: 2457.6 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G1

Input Watts (W): 24
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

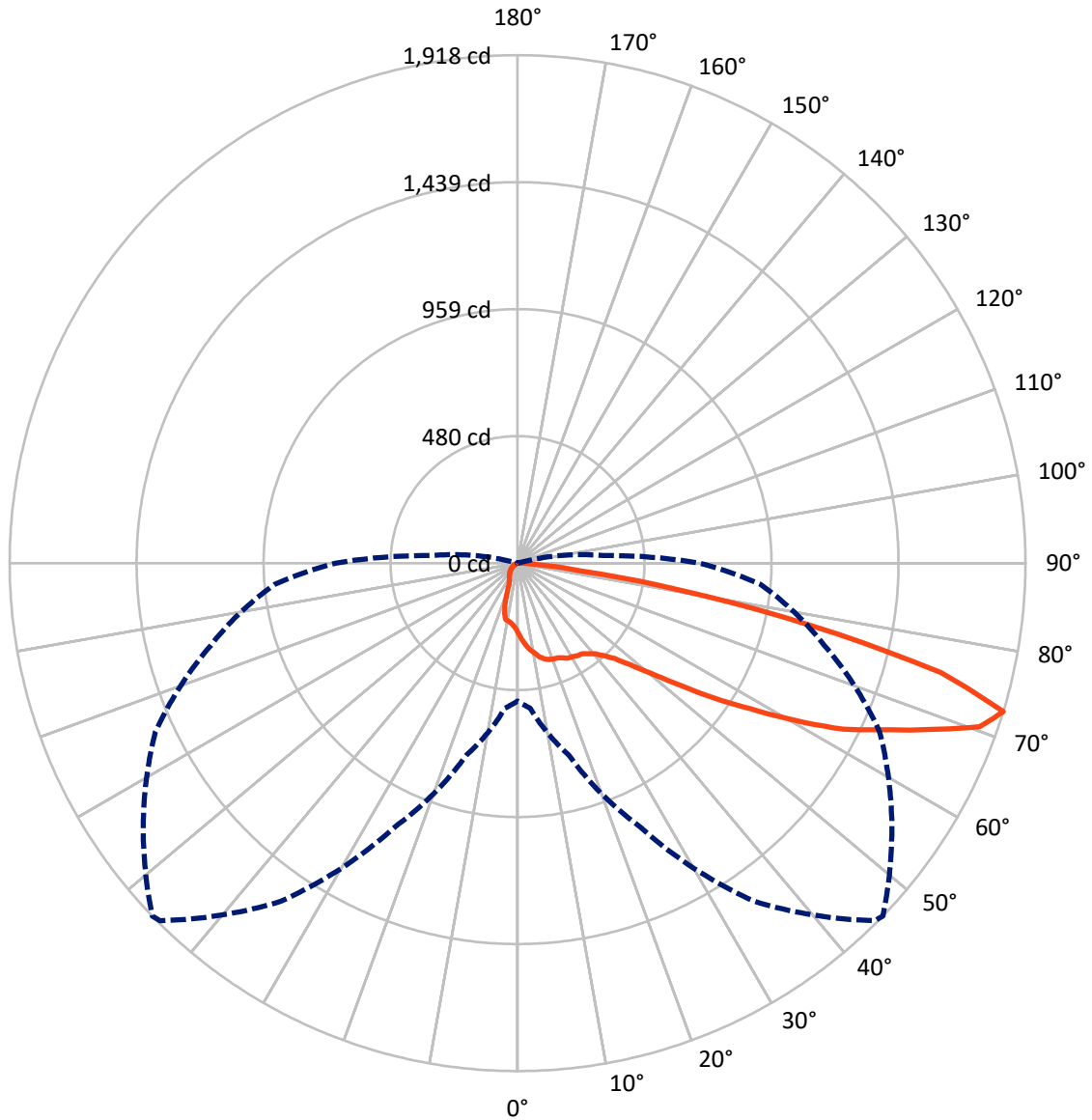
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	264.6	0.0	264.6
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	2193.0	0.0	2193.0
	% Fixture	89.2	0.0	89.2
Total	Lumens	2457.6	0.0	2457.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.3	1.1
10°-20°	79.4	3.2
20°-30°	124.3	5.1
30°-40°	174.0	7.1
40°-50°	286.9	11.7
50°-60°	515.7	21.0
60°-70°	747.5	30.4
70°-80°	466.5	19.0
80°-90°	37.0	1.5
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°	2457.6	100.0
0°-180°	2457.6	100.0



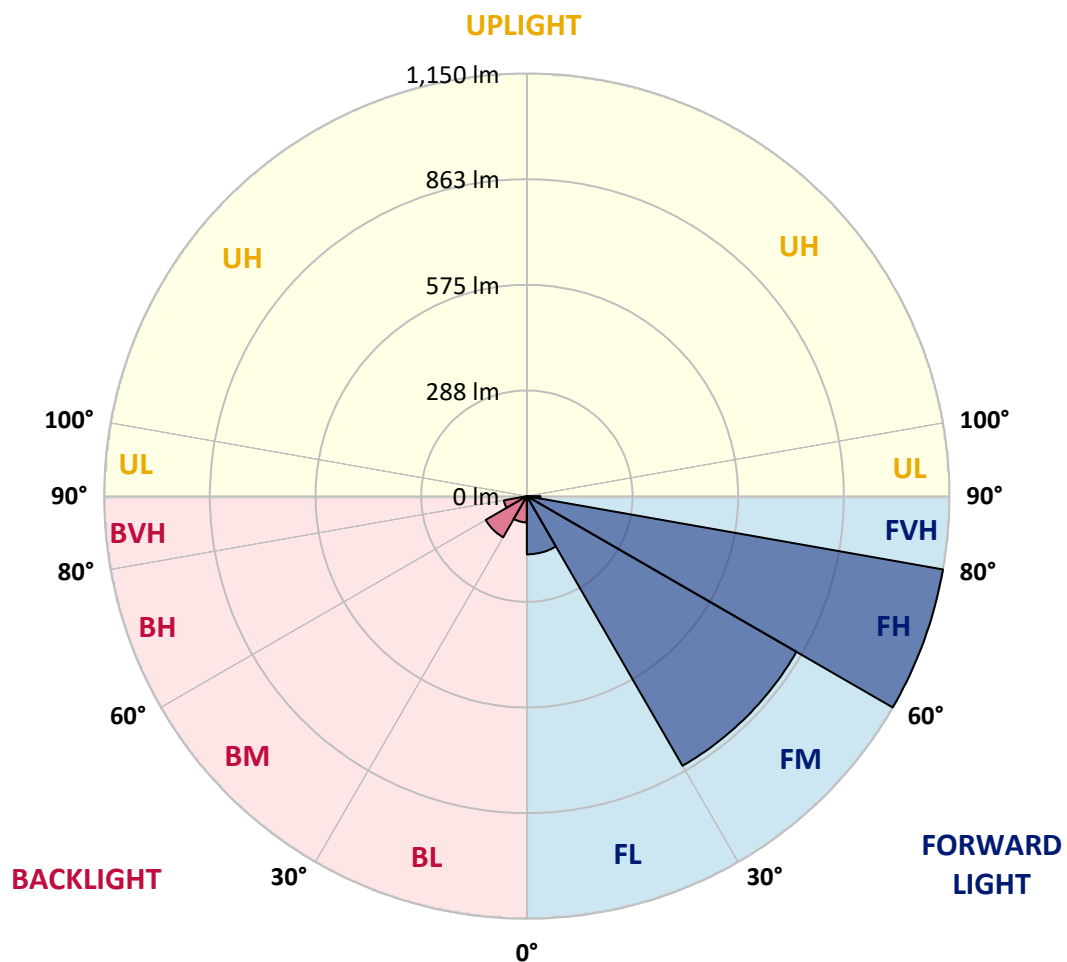
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	158.4	6.4			
FM (30°-60°)	847.4	34.5			
FH (60°-80°)	1150.4	46.8			G1/1800
FVH (80°-90°)	36.8	1.5			G1/100
BL (0°-30°)	71.5	2.9	B0/110		
BM (30°-60°)	129.2	5.3	B0/220		
BH (60°-80°)	63.6	2.6	B0/110		G0/110
BVH (80°-90°)	0.2	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	262.7	262.7	262.7	262.7	262.7	262.7	262.7	262.7	262.7	262.7	262.7
2.5°	294.0	292.7	294.6	294.0	286.5	287.7	287.1	282.1	273.3	268.3	265.2
5°	327.8	331.0	328.5	322.8	318.4	309.7	308.4	300.3	286.5	277.7	268.3
7.5°	363.0	363.0	357.9	349.2	339.8	330.4	329.1	315.3	303.4	288.4	275.2
10°	389.3	386.1	382.4	373.0	362.3	349.8	343.5	333.5	320.3	302.1	285.2
12.5°	412.5	407.5	401.2	387.4	374.9	361.1	362.3	346.0	337.3	321.0	295.9
15°	425.6	421.2	415.6	403.1	383.6	377.4	374.9	364.8	349.2	332.9	309.0
17.5°	428.8	425.6	418.1	401.8	391.2	383.6	383.0	371.1	364.2	350.4	324.1
20°	422.5	416.9	411.2	400.6	390.5	388.0	386.1	386.1	377.4	359.2	333.5
22.5°	411.8	405.6	402.4	396.2	388.0	387.4	388.7	387.4	380.5	368.6	343.5
25°	403.7	400.6	395.5	393.7	388.7	398.1	396.2	394.3	392.4	378.6	359.2
27.5°	406.2	405.6	401.8	394.3	390.5	400.6	406.2	406.8	406.2	392.4	373.6
30°	407.5	404.3	400.6	398.7	399.9	410.0	410.0	423.8	418.1	404.3	388.0
32.5°	421.9	420.0	407.5	403.1	403.7	415.6	416.2	430.0	428.1	418.7	400.6
35°	452.6	440.1	421.9	409.3	409.3	425.0	420.0	440.1	445.1	430.0	409.3
37.5°	498.4	489.0	456.4	428.1	417.5	428.8	433.8	445.1	460.1	447.0	426.9
40°	589.2	587.4	541.0	480.2	438.2	448.2	450.1	467.6	477.7	459.5	453.8
42.5°	722.1	712.7	669.5	573.6	475.8	471.4	478.3	489.6	513.4	498.4	484.6
45°	851.9	847.5	804.3	697.1	544.1	517.8	514.0	534.1	569.2	552.9	542.2
47.5°	945.9	937.2	912.7	822.4	644.4	572.3	574.8	594.9	639.4	626.9	630.0
50°	1018.0	1013.6	987.9	938.4	771.0	658.2	653.2	673.2	733.4	741.6	750.4
52.5°	1097.0	1105.2	1070.7	1028.7	920.9	773.5	762.3	769.2	846.9	865.7	890.1
55°	1172.9	1186.0	1151.5	1145.9	1077.6	901.4	899.5	883.2	983.5	986.1	999.2
57.5°	1222.4	1218.0	1215.5	1246.2	1234.3	1048.1	1038.7	1022.4	1113.3	1097.0	1136.5
60°	1226.1	1238.7	1280.7	1356.5	1377.8	1220.5	1206.7	1162.2	1225.5	1186.6	1261.9
62.5°	1254.3	1264.4	1342.1	1446.8	1474.4	1372.2	1381.6	1268.8	1321.4	1290.7	1401.0
65°	1182.9	1214.2	1370.3	1517.0	1601.0	1525.8	1516.4	1406.0	1419.8	1391.0	1538.3
67.5°	1118.3	1130.2	1293.2	1538.3	1701.3	1680.0	1676.2	1527.7	1521.4	1468.1	1577.2
70°	908.9	923.4	1084.5	1429.2	1735.1	1859.9	1851.1	1698.2	1590.3	1426.1	1377.8
72.5°	520.9	549.8	751.6	1100.8	1559.0	1910.0	1918.2	1725.7	1508.9	1199.2	920.2
75°	170.5	178.7	312.2	623.7	1166.0	1666.2	1651.8	1483.2	1217.4	791.7	415.6
77.5°	57.7	58.9	92.1	225.7	646.3	1125.8	1134.0	1060.0	747.8	329.1	114.7
80°	29.5	31.3	45.1	84.6	265.8	613.1	626.2	604.3	313.4	97.2	27.6
82.5°	13.8	14.4	26.3	47.0	121.6	240.7	240.7	264.5	111.0	54.5	11.3
85°	5.0	5.0	13.8	27.0	51.4	80.2	80.9	81.5	58.3	40.7	5.0
87.5°	1.9	1.9	6.9	11.3	18.8	24.4	24.4	19.4	29.5	27.0	1.9
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°	262.7	262.7	262.7	262.7	262.7	262.7	262.7	262.7	262.7	262.7	262.7
2.5°	263.9	260.1	257.0	252.6	247.0	243.8	244.5	240.7	240.7	238.8	238.2
5°	263.9	260.1	252.0	244.5	239.5	233.2	230.1	227.6	227.6	226.3	226.9
7.5°	265.8	260.1	248.9	238.8	230.7	224.4	219.4	218.8	217.5	214.4	216.9
10°	277.1	268.9	250.1	236.3	226.9	220.0	211.3	208.7	205.0	199.3	200.0
12.5°	286.5	275.8	258.9	240.1	228.2	216.9	196.8	174.9	165.5	155.5	156.1
15°	300.3	285.2	262.0	245.1	228.2	191.8	155.5	127.3	112.2	104.7	104.7
17.5°	307.8	295.3	270.8	248.2	210.0	156.1	110.3	85.9	83.4	84.6	84.6
20°	323.5	306.5	280.8	250.7	179.9	111.0	80.9	78.4	79.6	82.1	81.5
22.5°	333.5	316.6	288.4	239.5	139.2	79.6	75.9	74.6	75.9	79.0	79.0
25°	341.6	331.0	300.3	211.9	98.4	72.1	70.8	72.1	73.3	74.6	76.5
27.5°	361.7	343.5	308.4	176.1	70.8	67.1	68.3	69.0	69.0	70.8	71.5
30°	374.9	360.4	314.7	136.0	62.7	62.1	63.3	63.9	64.6	66.4	67.1
32.5°	387.4	382.4	306.5	92.1	58.9	57.7	57.0	57.7	60.2	62.1	61.4
35°	405.6	402.4	294.6	63.9	55.2	52.7	51.4	52.0	53.9	55.8	55.2
37.5°	427.5	430.7	265.8	55.8	51.4	48.3	45.8	45.8	46.4	48.3	48.9
40°	453.2	461.4	231.9	52.0	48.9	45.1	42.6	39.5	38.9	38.2	38.9
42.5°	500.2	509.6	193.7	49.5	45.1	40.7	37.0	33.2	30.1	28.2	28.2
45°	566.1	558.5	143.6	47.0	43.3	37.0	31.3	27.0	22.6	20.7	20.7
47.5°	656.9	631.2	98.4	44.5	40.1	32.6	26.3	20.7	16.9	15.0	15.0
50°	782.9	698.3	63.9	42.0	38.2	28.2	21.3	15.0	12.5	11.9	12.5
52.5°	902.1	766.6	50.8	38.9	34.5	24.4	16.3	12.5	11.3	10.7	10.7
55°	1011.8	801.1	45.1	35.7	31.3	20.1	13.8	10.7	10.0	9.4	9.4
57.5°	1104.5	813.0	38.9	31.3	25.1	15.7	11.3	9.4	8.1	7.5	7.5
60°	1184.8	816.2	30.1	25.1	18.2	11.9	9.4	8.1	6.9	5.6	5.6
62.5°	1248.7	794.2	21.3	17.6	12.5	9.4	8.1	5.6	3.8	2.5	1.9
65°	1299.5	750.4	14.4	11.9	8.1	6.9	5.0	2.5	0.6	0.0	0.0
67.5°	1239.9	650.7	11.3	8.8	5.6	4.4	2.5	0.6	0.0	0.0	0.0
70°	1011.1	504.6	8.1	5.6	3.8	1.3	0.6	0.0	0.0	0.0	0.0
72.5°	688.3	325.3	6.3	3.8	1.9	0.6	0.0	0.0	0.0	0.0	0.0
75°	309.0	116.6	4.4	2.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	75.2	27.6	3.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	20.1	6.9	1.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.5	2.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	0.6	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)