

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: P676641

Luminaire Tested: **CCW-SA-1C-850-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676641
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-850-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) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

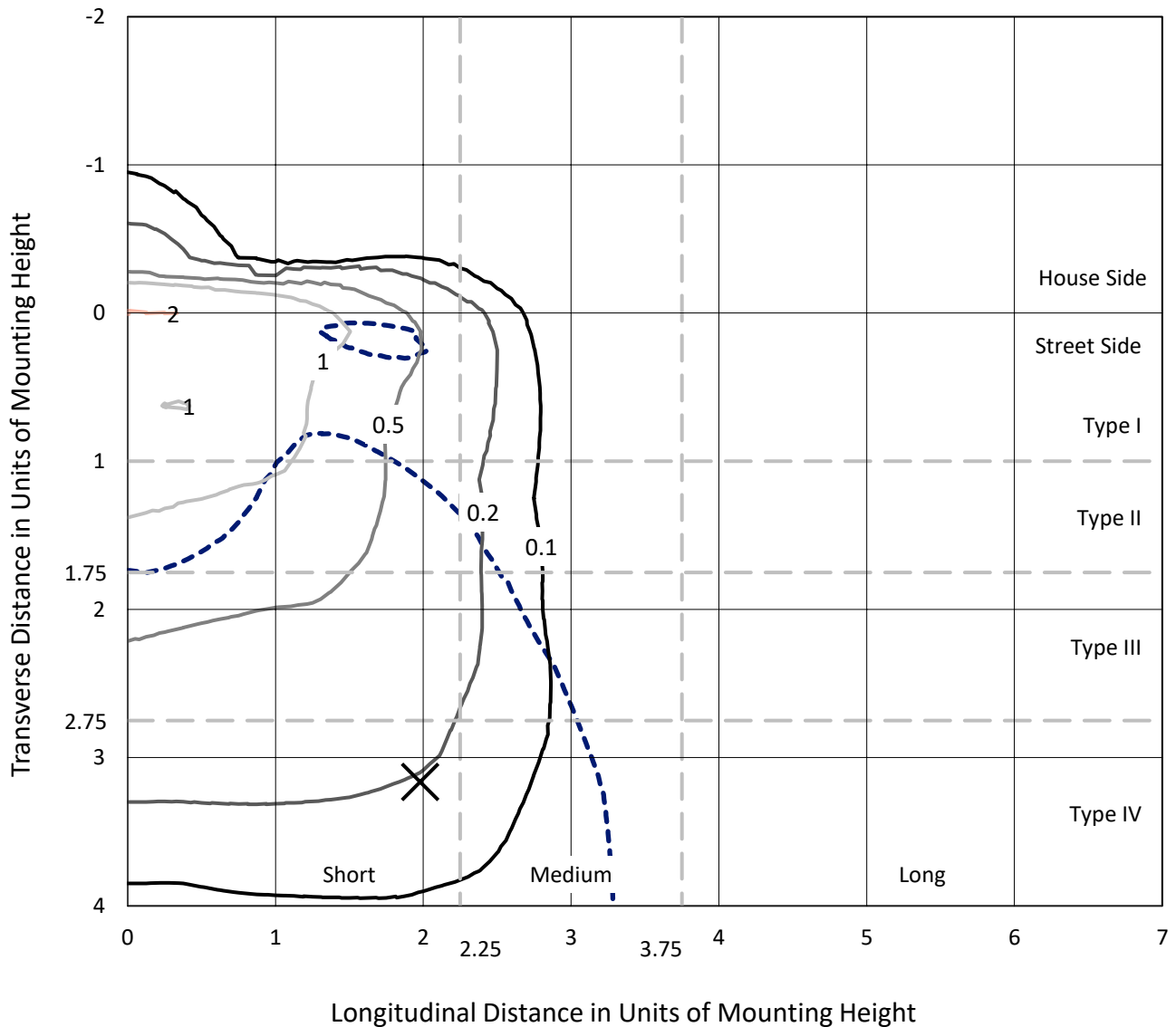
Lumens per Lamp: N/A
Luminaire Lumens: 2832.9 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 32
Input Voltage (V): 120
Input Current (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

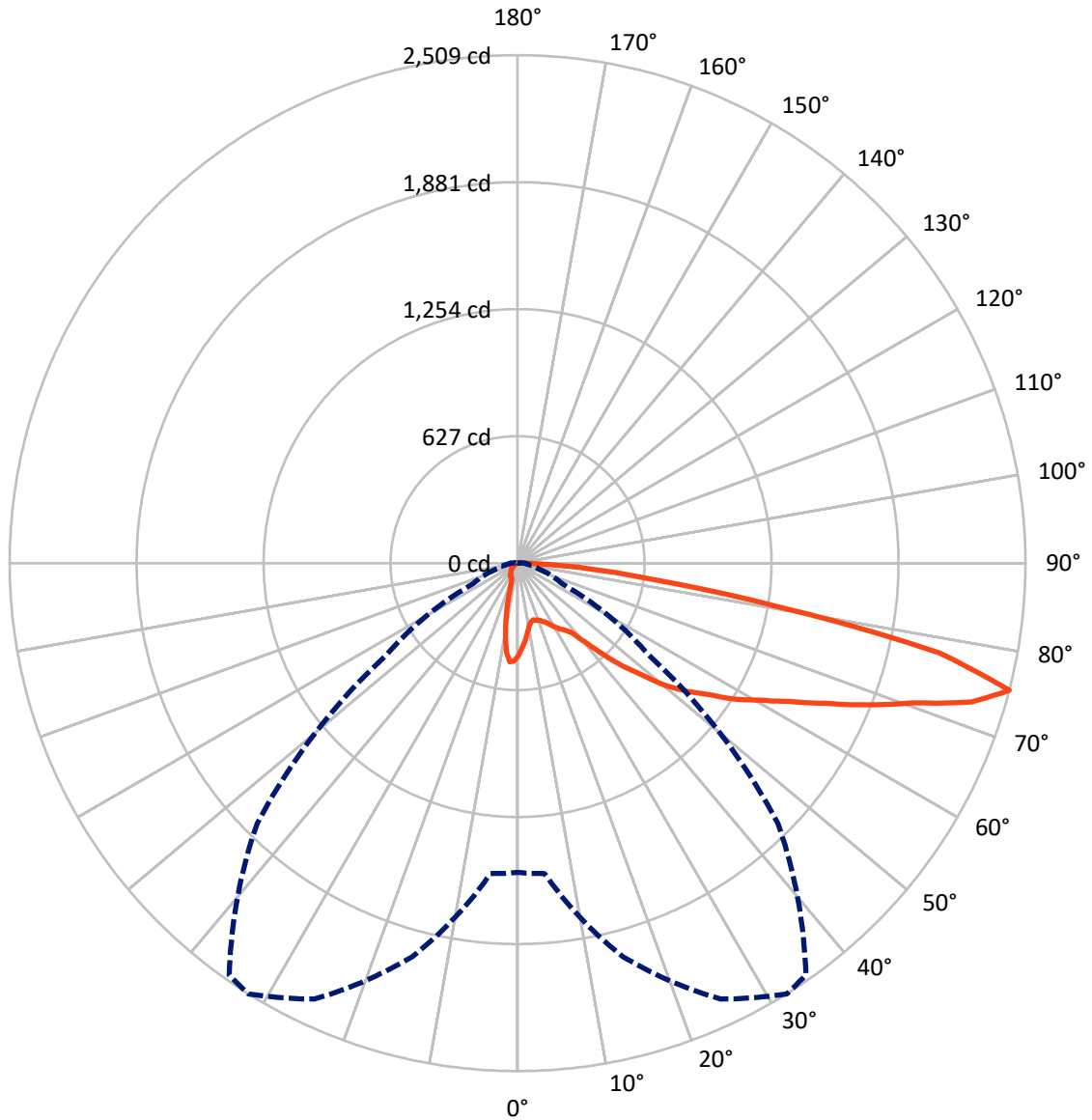
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2 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	306.0	0.0	306.0
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	2526.8	0.0	2526.8
	% Fixture	89.2	0.0	89.2
Total	Lumens	2832.9	0.0	2832.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.2	1.4
10°-20°	91.3	3.2
20°-30°	136.6	4.8
30°-40°	209.7	7.4
40°-50°	366.8	12.9
50°-60°	573.4	20.2
60°-70°	741.3	26.2
70°-80°	603.7	21.3
80°-90°	69.9	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°	2832.9	100.0
0°-180°	2832.9	100.0



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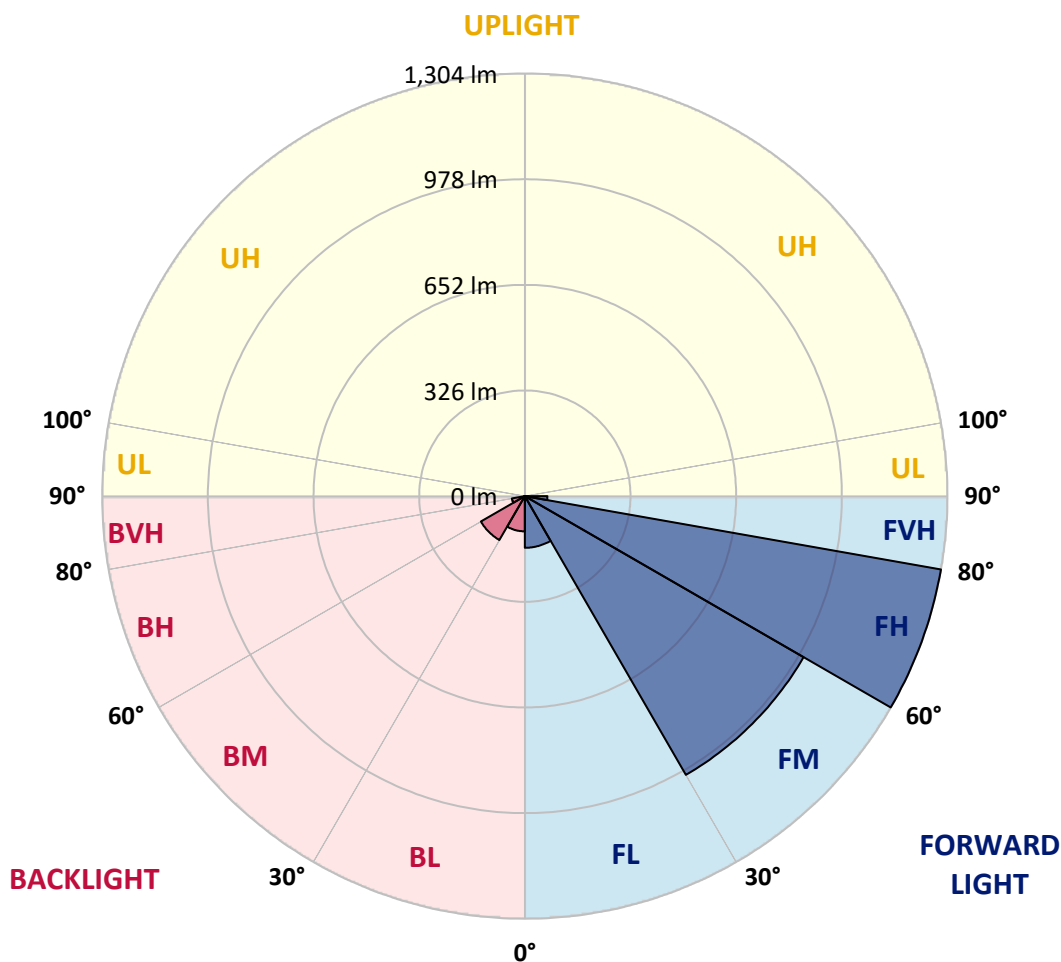
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	159.4	5.6			
FM (30°-60°)	993.3	35.1			
FH (60°-80°)	1304.3	46.0			G1/1800
FVH (80°-90°)	69.8	2.5			G1/100
BL (0°-30°)	108.7	3.8	B0/110		
BM (30°-60°)	156.6	5.5	B0/220		
BH (60°-80°)	40.7	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°	457.4	457.4	457.4	457.4	457.4	457.4	457.4	457.4	457.4	457.4	457.4
2.5°	410.2	416.0	415.3	418.9	419.7	421.8	426.9	426.9	441.4	451.6	458.1
5°	373.2	369.6	371.0	375.4	386.3	385.5	397.9	404.4	421.8	436.4	451.6
7.5°	327.5	326.7	329.6	339.8	347.8	354.3	367.4	384.1	407.3	429.1	456.0
10°	298.4	297.0	302.8	305.7	315.1	319.5	339.8	365.9	393.5	424.7	456.0
12.5°	291.9	286.8	289.7	289.0	297.7	299.9	319.5	351.4	384.8	423.3	461.8
15°	295.5	291.9	289.0	289.0	291.2	292.6	313.7	342.0	379.7	425.5	474.8
17.5°	307.1	304.9	296.2	287.5	297.0	297.0	310.0	339.8	380.5	432.0	490.8
20°	320.9	318.7	303.5	293.3	299.9	307.1	320.9	344.9	382.6	437.1	515.5
22.5°	336.2	336.2	315.1	303.5	312.2	312.9	337.6	360.9	391.4	450.2	531.5
25°	355.0	353.6	333.3	320.2	323.1	331.1	353.6	378.3	407.3	468.3	561.2
27.5°	379.7	377.6	353.6	340.5	344.2	352.9	378.3	403.0	421.8	475.6	586.7
30°	400.1	397.9	378.3	358.7	366.7	374.7	404.4	426.2	440.0	489.4	615.7
32.5°	404.4	400.8	387.7	379.0	387.7	403.0	426.2	448.7	469.8	524.2	670.9
35°	454.5	441.4	407.3	393.5	406.6	411.7	450.2	490.1	510.4	551.8	732.6
37.5°	550.4	538.0	493.0	454.5	436.4	442.2	492.3	541.6	561.2	603.4	800.1
40°	668.0	647.7	599.7	548.2	511.2	503.9	536.6	609.2	628.0	668.0	888.7
42.5°	802.3	782.7	708.6	647.7	609.9	600.5	605.5	687.6	703.6	727.5	946.8
45°	898.9	888.7	805.2	750.8	721.0	710.8	698.5	773.3	793.6	801.6	1031.0
47.5°	954.8	947.5	901.0	864.0	824.1	813.2	821.2	892.3	878.5	885.1	1111.6
50°	1029.6	1010.7	947.5	959.1	951.1	948.2	962.0	993.3	972.9	954.1	1199.5
52.5°	1089.8	1056.4	1012.1	1040.5	1052.8	1063.7	1112.3	1135.6	1044.8	1015.8	1256.1
55°	1126.9	1094.9	1106.5	1132.7	1145.7	1195.8	1253.2	1235.8	1092.0	1065.1	1331.6
57.5°	1160.3	1162.4	1193.7	1201.6	1268.4	1277.2	1387.5	1330.9	1125.4	1110.2	1361.4
60°	1240.8	1232.9	1258.3	1309.8	1373.7	1422.4	1527.6	1394.8	1142.1	1133.4	1353.4
62.5°	1386.1	1336.7	1345.4	1410.7	1504.4	1557.4	1608.2	1423.8	1137.7	1137.0	1329.4
65°	1570.5	1513.8	1487.7	1548.7	1670.0	1744.7	1699.0	1456.5	1108.7	1129.0	1240.1
67.5°	1723.7	1724.4	1675.8	1709.9	1868.2	1884.1	1784.7	1450.0	1060.1	1065.9	1022.3
70°	1900.1	1924.1	1881.2	1988.0	2067.1	2077.3	1882.7	1396.2	955.5	803.8	587.4
72.5°	1945.1	1957.5	2091.1	2255.2	2344.5	2347.4	1979.3	1216.9	628.8	355.0	182.2
75°	1527.6	1539.3	2012.7	2375.7	2508.6	2483.1	1818.1	790.0	244.7	103.8	43.6
77.5°	852.4	856.0	1249.6	1920.4	2128.1	2025.7	1273.5	307.9	98.7	59.5	20.3
80°	233.1	273.7	463.2	946.8	1299.7	1275.7	606.3	100.2	63.9	46.5	9.4
82.5°	55.9	60.3	148.8	418.9	686.9	716.6	180.8	50.8	44.3	38.5	5.1
85°	20.3	22.5	45.7	204.0	352.9	323.8	54.5	25.4	32.7	29.8	2.2
87.5°	7.3	7.3	14.5	66.8	103.1	77.7	18.2	8.7	16.7	18.2	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°	457.4	457.4	457.4	457.4	457.4	457.4	457.4	457.4	457.4	457.4	457.4
2.5°	458.9	458.9	469.0	477.8	480.7	484.3	480.7	488.6	487.9	484.3	485.7
5°	459.6	472.7	481.4	487.2	490.1	489.4	490.8	482.1	477.0	473.4	469.8
7.5°	463.2	475.6	491.5	490.1	482.1	465.4	452.3	429.1	406.6	405.9	402.2
10°	475.6	486.5	495.9	490.1	461.1	410.2	368.8	337.6	309.3	296.2	297.7
12.5°	484.3	504.6	500.3	470.5	410.2	343.4	282.4	236.7	211.3	187.3	187.3
15°	502.4	509.7	508.2	442.2	347.8	267.9	193.9	147.4	120.5	109.6	108.2
17.5°	519.9	527.9	503.2	399.3	286.1	180.1	117.6	91.5	87.9	86.4	87.1
20°	541.6	542.4	498.8	356.5	214.9	114.0	84.2	82.0	82.8	82.0	82.0
22.5°	564.9	570.0	483.6	296.2	143.0	82.8	78.4	79.1	79.1	79.1	81.3
25°	595.4	587.4	459.6	238.9	93.7	76.2	76.2	77.0	77.0	77.0	77.7
27.5°	615.7	604.8	429.1	172.1	73.3	71.9	73.3	73.3	74.8	74.8	74.8
30°	657.8	629.5	390.6	111.1	66.1	68.3	69.7	71.2	71.9	73.3	74.1
32.5°	690.5	651.3	342.7	74.1	60.3	61.7	65.3	68.3	71.2	70.4	70.4
35°	750.0	686.9	298.4	58.8	55.2	55.2	58.8	63.9	68.3	69.7	69.7
37.5°	818.3	715.9	236.7	53.7	50.8	50.8	53.0	58.8	64.6	67.5	66.1
40°	874.9	749.3	175.0	50.1	47.2	47.2	48.6	53.0	59.5	64.6	65.3
42.5°	914.8	774.0	118.3	46.5	44.3	43.6	45.7	47.9	53.0	60.3	61.7
45°	951.1	787.1	73.3	42.8	41.4	41.4	41.4	43.6	47.2	53.7	55.2
47.5°	1015.8	801.6	53.0	39.9	37.8	38.5	39.2	39.9	42.8	44.3	45.0
50°	1070.2	812.5	43.6	37.0	35.6	36.3	36.3	36.3	37.8	35.6	35.6
52.5°	1111.6	801.6	37.0	34.1	32.7	33.4	32.7	32.7	31.2	28.3	28.3
55°	1142.1	782.0	29.8	31.2	31.2	31.2	29.8	27.6	24.7	22.5	22.5
57.5°	1150.1	748.6	23.2	26.1	28.3	28.3	25.4	22.5	18.9	16.7	16.0
60°	1137.7	676.0	17.4	18.9	21.8	22.5	20.3	16.7	13.1	10.9	10.9
62.5°	1093.5	618.6	13.8	12.3	16.0	16.7	14.5	10.9	7.3	5.1	4.4
65°	1009.2	530.0	10.2	8.7	10.9	11.6	9.4	5.1	2.2	0.7	0.0
67.5°	809.6	399.3	6.5	5.8	7.3	7.3	4.4	1.5	0.0	0.0	0.0
70°	448.0	224.4	4.4	2.9	3.6	2.2	0.7	0.0	0.0	0.0	0.0
72.5°	129.2	63.9	2.2	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	34.9	15.2	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	15.2	5.8	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.6	0.7	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°	0.7	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)