

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: P676786

Luminaire Tested: **CCW-SA-1D-850-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676786
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-850-U-T4W-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
T4W distribution lens and House Side Shield
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

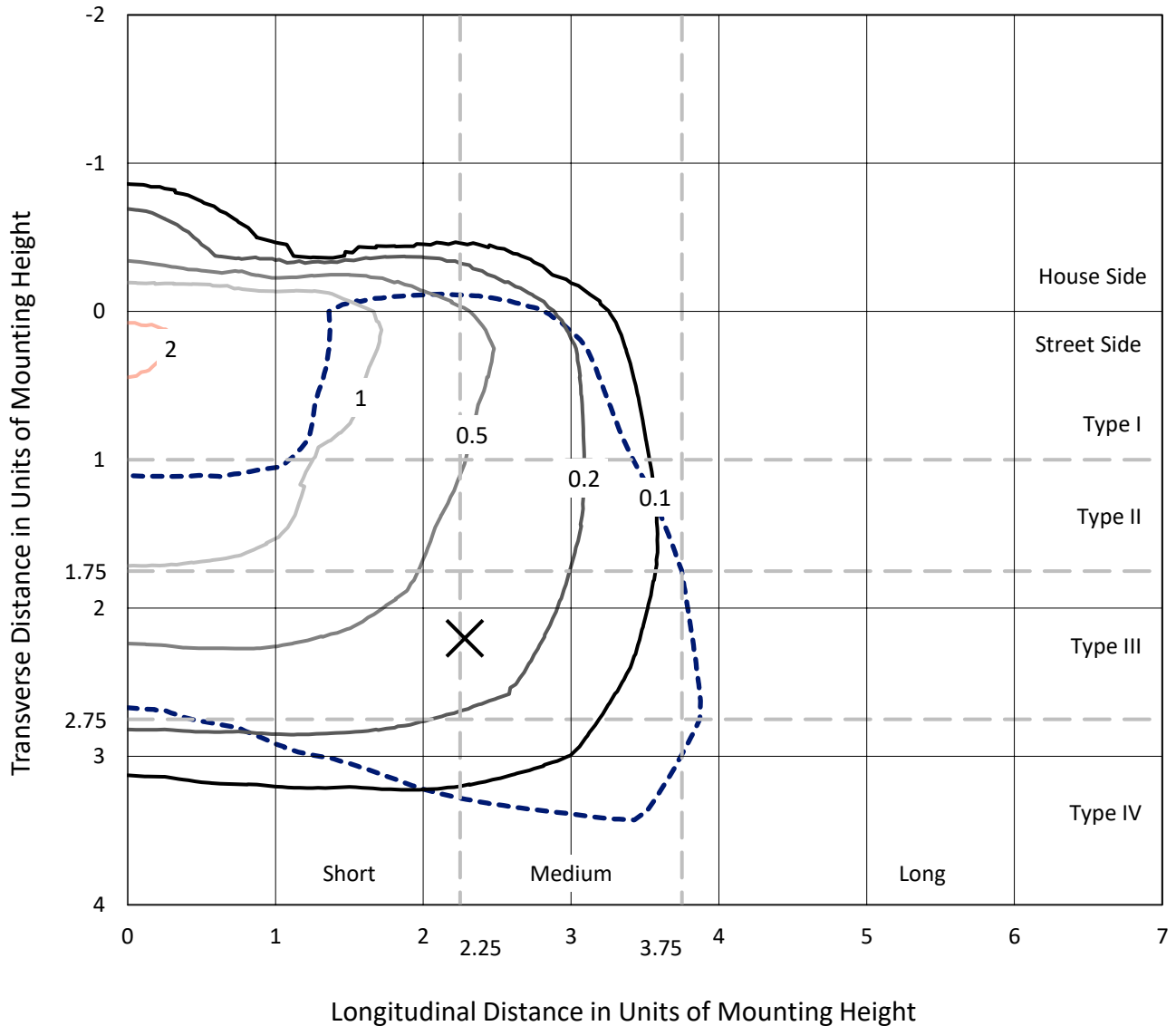
Lumens per Lamp: N/A
Luminaire Lumens: 3511 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G1

Input Watts (W): 44
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

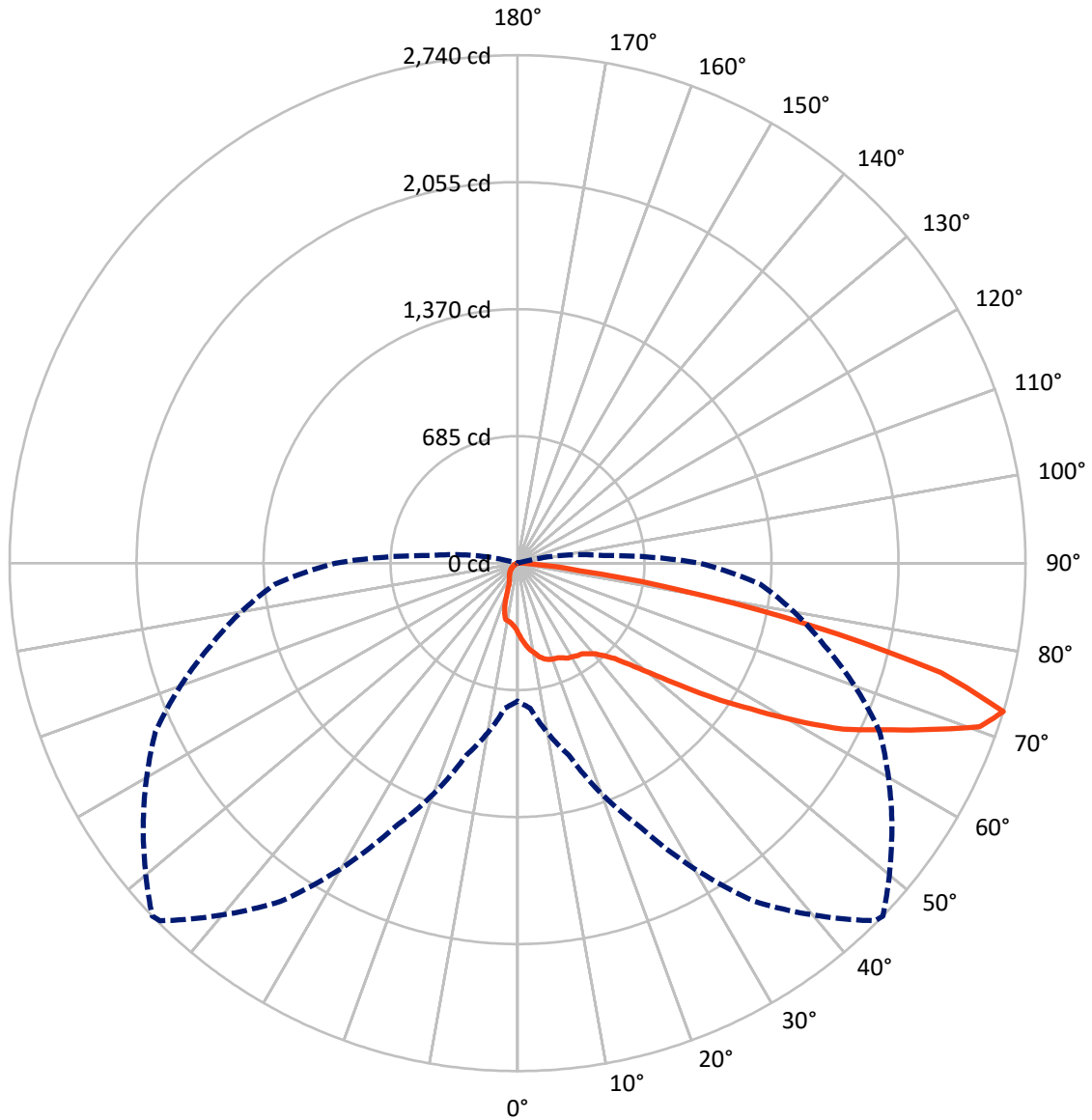
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.4 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	378.0	0.0	378.0
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	3133.0	0.0	3133.0
	% Fixture	89.2	0.0	89.2
Total	Lumens	3511.0	0.0	3511.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.6	1.1
10°-20°	113.4	3.2
20°-30°	177.5	5.1
30°-40°	248.6	7.1
40°-50°	409.9	11.7
50°-60°	736.8	21.0
60°-70°	1067.9	30.4
70°-80°	666.5	19.0
80°-90°	52.8	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°	3511.0	100.0
0°-180°	3511.0	100.0

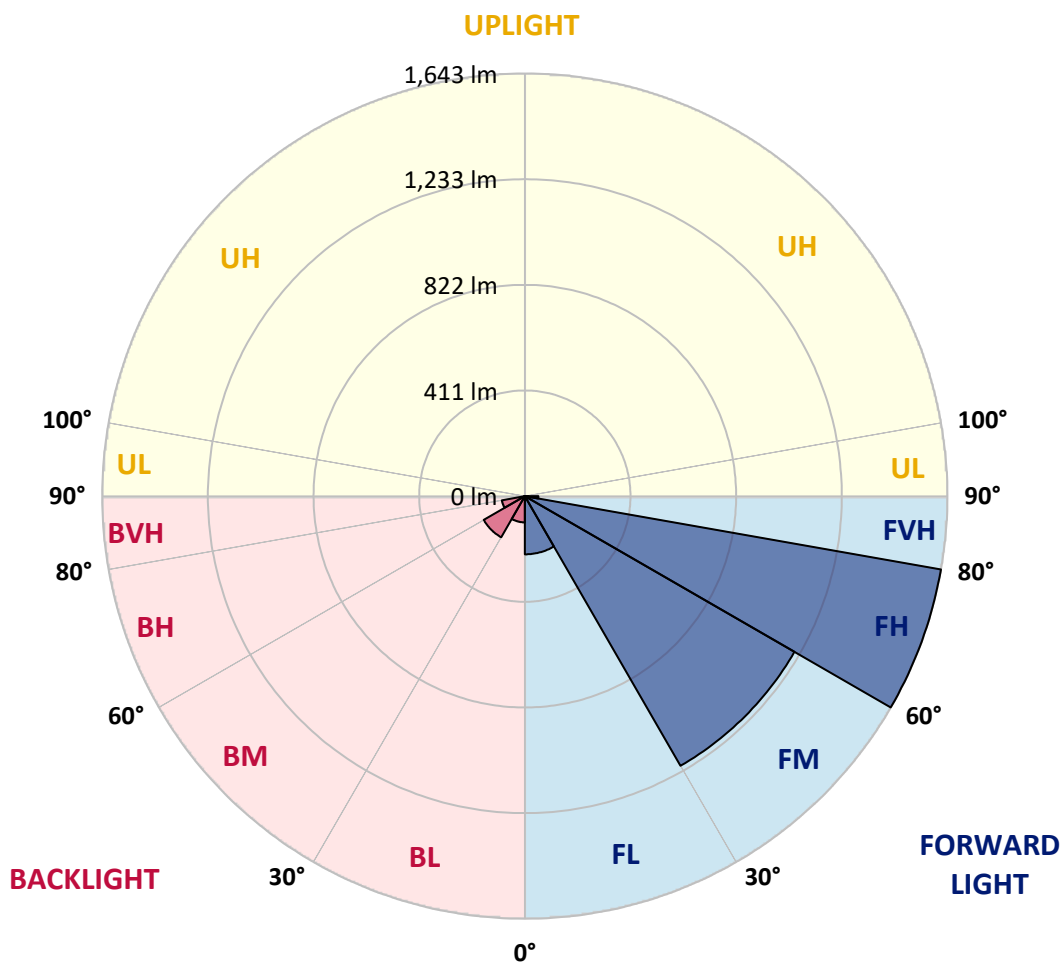


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	226.3	6.4			
FM (30°-60°)	1210.7	34.5			
FH (60°-80°)	1643.5	46.8			G1/1800
FVH (80°-90°)	52.5	1.5			G1/100
BL (0°-30°)	102.2	2.9	B0/110		
BM (30°-60°)	184.7	5.3	B0/220		
BH (60°-80°)	90.9	2.6	B0/110		G0/110
BVH (80°-90°)	0.3	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°	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2
2.5°	420.0	418.2	420.9	420.0	409.3	411.1	410.2	403.0	390.5	383.3	378.8
5°	468.4	472.9	469.3	461.2	454.9	442.4	440.6	429.0	409.3	396.7	383.3
7.5°	518.5	518.5	511.4	498.8	485.4	472.0	470.2	450.5	433.5	412.0	393.2
10°	556.1	551.7	546.3	532.9	517.6	499.7	490.8	476.4	457.6	431.7	407.5
12.5°	589.3	582.1	573.2	553.5	535.5	515.8	517.6	494.4	481.8	458.5	422.7
15°	608.1	601.8	593.8	575.8	548.1	539.1	535.5	521.2	498.8	475.5	441.5
17.5°	612.6	608.1	597.3	574.1	558.8	548.1	547.2	530.2	520.3	500.6	463.0
20°	603.6	595.6	587.5	572.3	557.9	554.4	551.7	551.7	539.1	513.2	476.4
22.5°	588.4	579.4	575.0	566.0	554.4	553.5	555.2	553.5	543.6	526.6	490.8
25°	576.7	572.3	565.1	562.4	555.2	568.7	566.0	563.3	560.6	540.9	513.2
27.5°	580.3	579.4	574.1	563.3	557.9	572.3	580.3	581.2	580.3	560.6	533.8
30°	582.1	577.6	572.3	569.6	571.4	585.7	585.7	605.4	597.3	577.6	554.4
32.5°	602.7	600.0	582.1	575.8	576.7	593.8	594.7	614.4	611.7	598.2	572.3
35°	646.6	628.7	602.7	584.8	584.8	607.2	600.0	628.7	635.9	614.4	584.8
37.5°	712.0	698.5	652.0	611.7	596.4	612.6	619.7	635.9	657.3	638.5	609.9
40°	841.8	839.1	772.9	686.0	626.0	640.3	643.0	668.1	682.4	656.4	648.4
42.5°	1031.7	1018.3	956.5	819.4	679.7	673.5	683.3	699.4	733.5	712.0	692.3
45°	1217.1	1210.8	1149.0	995.9	777.3	739.7	734.4	763.0	813.2	789.9	774.7
47.5°	1351.4	1338.9	1303.9	1175.0	920.6	817.6	821.2	849.9	913.5	895.6	900.0
50°	1454.4	1448.1	1411.4	1340.7	1101.5	940.3	933.2	961.8	1047.8	1059.5	1072.0
52.5°	1567.2	1578.9	1529.6	1469.6	1315.6	1105.1	1089.0	1098.9	1209.9	1236.8	1271.7
55°	1675.6	1694.4	1645.2	1637.1	1539.5	1287.8	1285.1	1261.8	1405.1	1408.7	1427.5
57.5°	1746.3	1740.1	1736.5	1780.4	1763.4	1497.4	1483.9	1460.7	1590.5	1567.2	1623.7
60°	1751.7	1769.6	1829.6	1938.0	1968.4	1743.7	1724.0	1660.4	1750.8	1695.3	1802.8
62.5°	1792.0	1806.4	1917.4	2067.0	2106.4	1960.4	1973.8	1812.6	1887.8	1844.0	2001.6
65°	1689.9	1734.7	1957.7	2167.3	2287.3	2179.8	2166.4	2008.8	2028.5	1987.3	2197.7
67.5°	1597.7	1614.7	1847.5	2197.7	2430.6	2400.1	2394.7	2182.5	2173.5	2097.4	2253.2
70°	1298.6	1319.2	1549.3	2041.9	2478.9	2657.1	2644.6	2426.1	2272.0	2037.4	1968.4
72.5°	744.2	785.4	1073.8	1572.6	2227.3	2728.8	2740.4	2465.5	2155.6	1713.2	1314.7
75°	243.6	255.2	446.0	891.1	1665.7	2380.4	2359.8	2118.9	1739.2	1131.1	593.8
77.5°	82.4	84.2	131.6	322.4	923.3	1608.4	1620.1	1514.4	1068.4	470.2	163.9
80°	42.1	44.8	64.5	120.9	379.7	875.9	894.7	863.3	447.8	138.8	39.4
82.5°	19.7	20.6	37.6	67.2	173.7	343.9	343.9	377.9	158.5	77.9	16.1
85°	7.2	7.2	19.7	38.5	73.4	114.6	115.5	116.4	83.3	58.2	7.2
87.5°	2.7	2.7	9.9	16.1	26.9	34.9	34.9	27.8	42.1	38.5	2.7
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°	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2
2.5°	377.0	371.7	367.2	360.9	352.9	348.4	349.3	343.9	343.9	341.2	340.3
5°	377.0	371.7	360.0	349.3	342.1	333.1	328.7	325.1	325.1	323.3	324.2
7.5°	379.7	371.7	355.5	341.2	329.6	320.6	313.4	312.6	310.8	306.3	309.9
10°	395.8	384.2	357.3	337.6	324.2	314.3	301.8	298.2	292.8	284.8	285.7
12.5°	409.3	394.0	369.9	343.0	326.0	309.9	281.2	249.9	236.4	222.1	223.0
15°	429.0	407.5	374.3	350.2	326.0	274.0	222.1	181.8	160.3	149.6	149.6
17.5°	439.7	421.8	386.9	354.6	300.0	223.0	157.6	122.7	119.1	120.9	120.9
20°	462.1	437.9	401.2	358.2	257.0	158.5	115.5	111.9	113.7	117.3	116.4
22.5°	476.4	452.3	412.0	342.1	198.8	113.7	108.4	106.6	108.4	112.8	112.8
25°	488.1	472.9	429.0	302.7	140.6	103.0	101.2	103.0	104.8	106.6	109.3
27.5°	516.7	490.8	440.6	251.7	101.2	95.8	97.6	98.5	98.5	101.2	102.1
30°	535.5	514.9	449.6	194.3	89.6	88.7	90.5	91.3	92.2	94.9	95.8
32.5°	553.5	546.3	437.9	131.6	84.2	82.4	81.5	82.4	86.0	88.7	87.8
35°	579.4	575.0	420.9	91.3	78.8	75.2	73.4	74.3	77.0	79.7	78.8
37.5°	610.8	615.3	379.7	79.7	73.4	69.0	65.4	65.4	66.3	69.0	69.9
40°	647.5	659.1	331.4	74.3	69.9	64.5	60.9	56.4	55.5	54.6	55.5
42.5°	714.7	728.1	276.7	70.7	64.5	58.2	52.8	47.5	43.0	40.3	40.3
45°	808.7	797.9	205.1	67.2	61.8	52.8	44.8	38.5	32.2	29.6	29.6
47.5°	938.6	901.8	140.6	63.6	57.3	46.6	37.6	29.6	24.2	21.5	21.5
50°	1118.6	997.7	91.3	60.0	54.6	40.3	30.4	21.5	17.9	17.0	17.9
52.5°	1288.7	1095.3	72.5	55.5	49.3	34.9	23.3	17.9	16.1	15.2	15.2
55°	1445.4	1144.5	64.5	51.0	44.8	28.7	19.7	15.2	14.3	13.4	13.4
57.5°	1578.0	1161.5	55.5	44.8	35.8	22.4	16.1	13.4	11.6	10.7	10.7
60°	1692.6	1166.0	43.0	35.8	26.0	17.0	13.4	11.6	9.9	8.1	8.1
62.5°	1784.0	1134.7	30.4	25.1	17.9	13.4	11.6	8.1	5.4	3.6	2.7
65°	1856.5	1072.0	20.6	17.0	11.6	9.9	7.2	3.6	0.9	0.0	0.0
67.5°	1771.4	929.6	16.1	12.5	8.1	6.3	3.6	0.9	0.0	0.0	0.0
70°	1444.5	720.9	11.6	8.1	5.4	1.8	0.9	0.0	0.0	0.0	0.0
72.5°	983.3	464.8	9.0	5.4	2.7	0.9	0.0	0.0	0.0	0.0	0.0
75°	441.5	166.6	6.3	3.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	107.5	39.4	4.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	28.7	9.9	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.7	3.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	0.9	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)