

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: P676701

Luminaire Tested: **CCW-SA-2A-735-U-T4W-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676701  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2A-735-U-T4W-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/  
T4W distribution lens and House Side Shield  
Light Source: (32) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

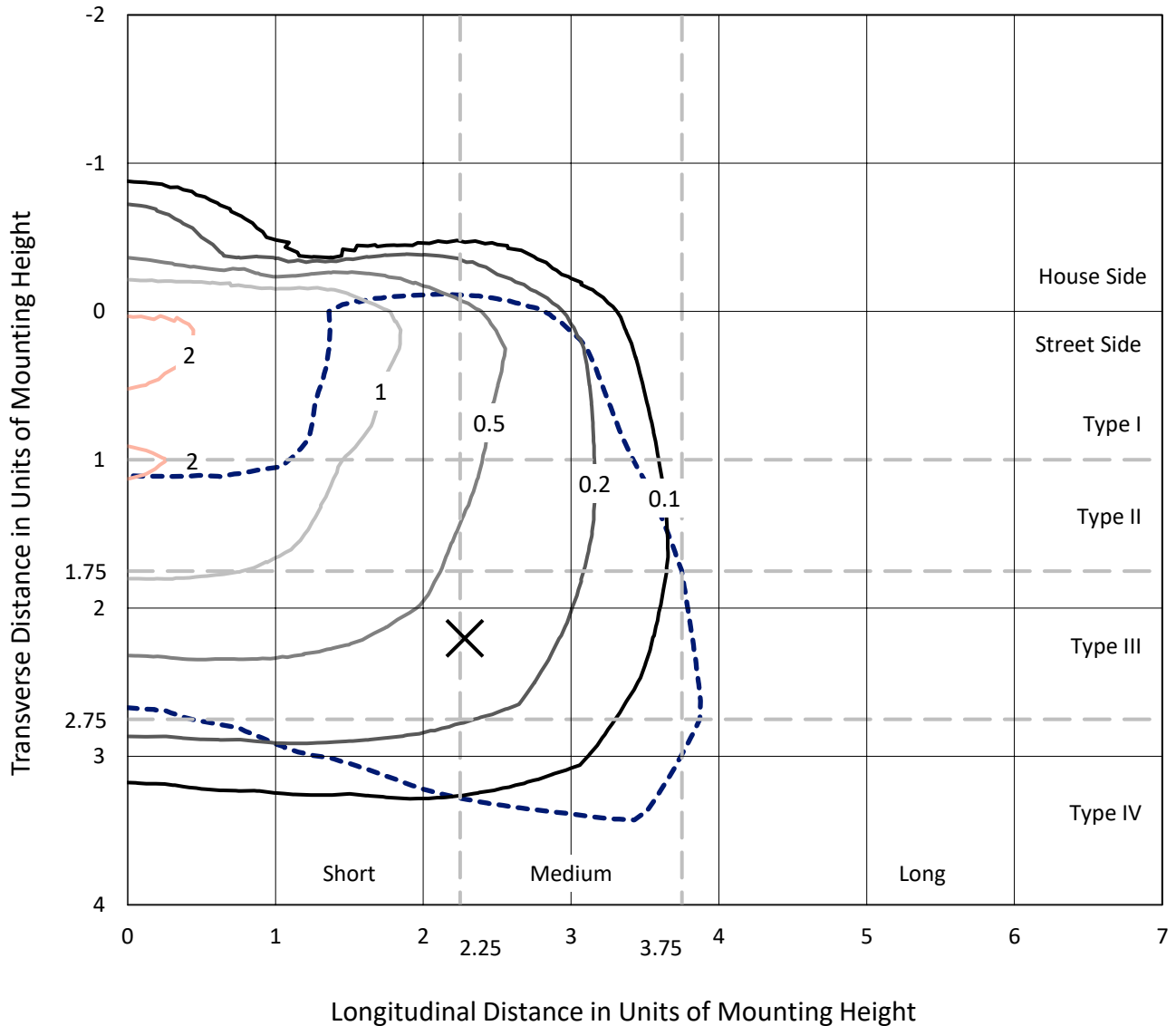
Lumens per Lamp: N/A  
Luminaire Lumens: 3893.6 lumens  
Efficiency: N/A  
Efficacy: 107.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 36.2  
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

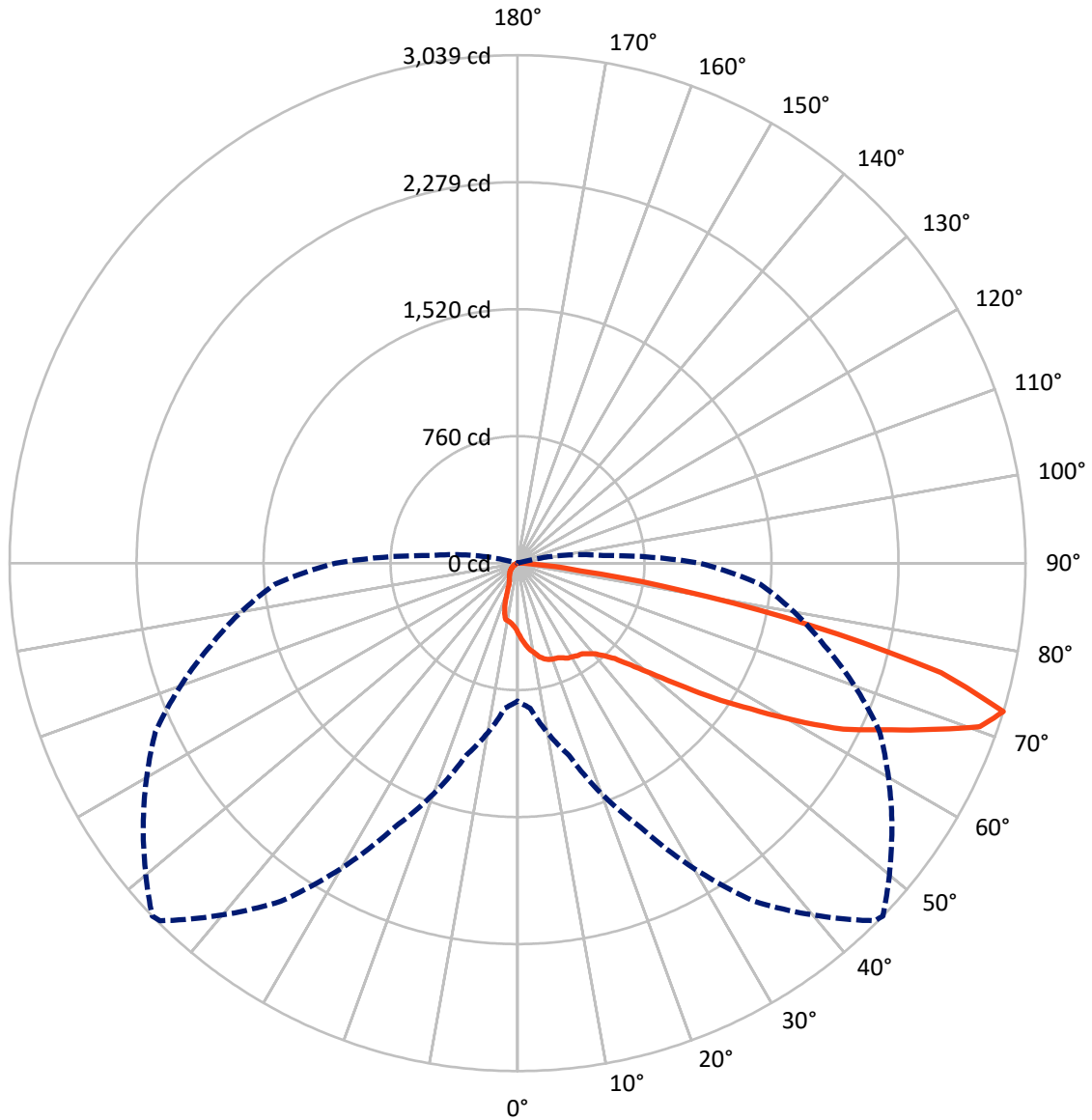
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.7 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
<b>House Side</b>	Lumens	419.2	0.0	419.2
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	3474.4	0.0	3474.4
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	3893.6	0.0	3893.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.7	1.1
10°-20°	125.7	3.2
20°-30°	196.9	5.1
30°-40°	275.7	7.1
40°-50°	454.6	11.7
50°-60°	817.1	21.0
60°-70°	1184.3	30.4
70°-80°	739.1	19.0
80°-90°	58.6	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°	3893.6	100.0
0°-180°	3893.6	100.0



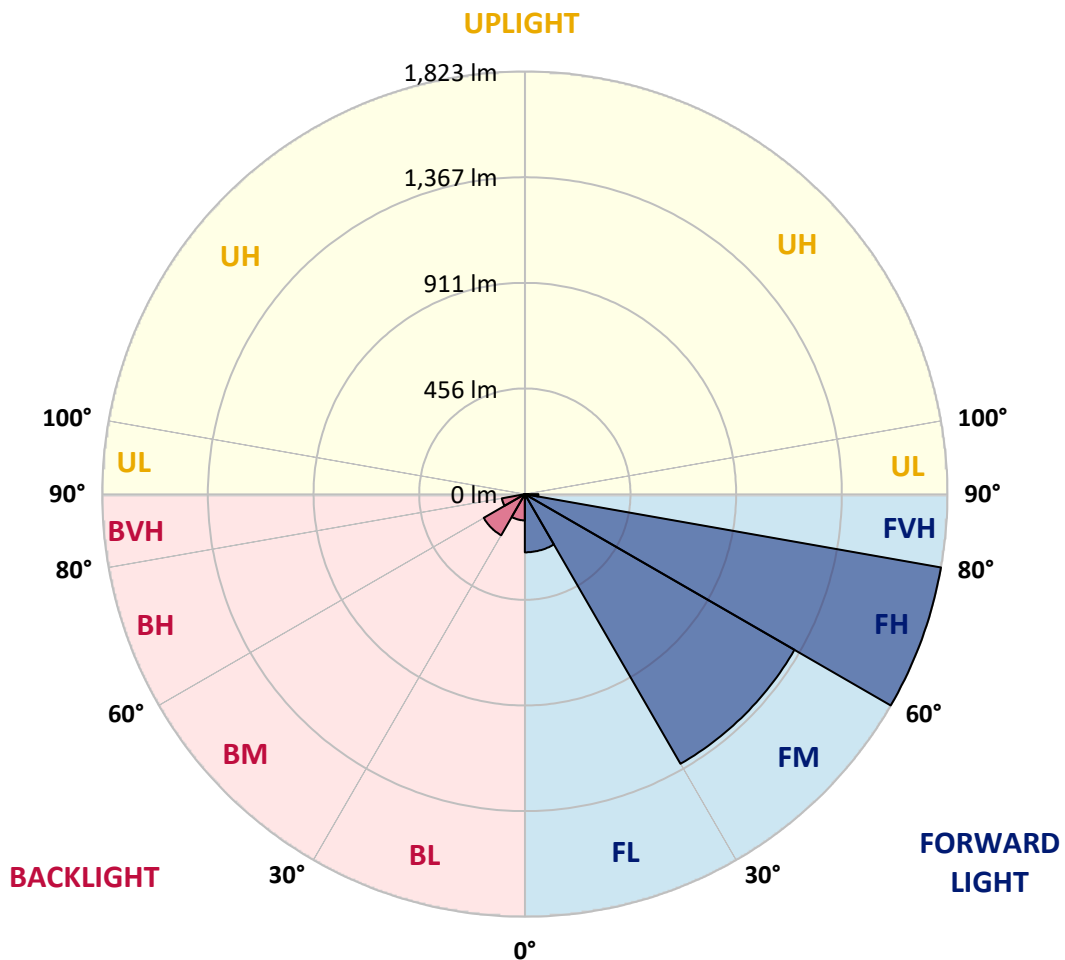
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	251.0	6.4			
FM (30°-60°)	1342.6	34.5			
FH (60°-80°)	1822.6	46.8			G2/5000
FVH (80°-90°)	58.3	1.5			G1/100
BL (0°-30°)	113.3	2.9	B1/500		
BM (30°-60°)	204.8	5.3	B0/220		
BH (60°-80°)	100.8	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: B1-U0-G2**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	416.1	416.1	416.1	416.1	416.1	416.1	416.1	416.1	416.1	416.1	416.1
2.5°	465.8	463.8	466.8	465.8	453.9	455.9	454.9	446.9	433.0	425.1	420.1
5°	519.4	524.4	520.4	511.5	504.5	490.6	488.6	475.7	453.9	440.0	425.1
7.5°	575.0	575.0	567.1	553.2	538.3	523.4	521.4	499.6	480.7	456.8	436.0
10°	616.7	611.8	605.8	590.9	574.0	554.2	544.2	528.4	507.5	478.7	451.9
12.5°	653.5	645.5	635.6	613.8	593.9	572.1	574.0	548.2	534.3	508.5	468.8
15°	674.3	667.4	658.5	638.6	607.8	597.9	593.9	578.0	553.2	527.4	489.6
17.5°	679.3	674.3	662.4	636.6	619.7	607.8	606.8	587.9	577.0	555.2	513.5
20°	669.4	660.4	651.5	634.6	618.7	614.8	611.8	611.8	597.9	569.1	528.4
22.5°	652.5	642.6	637.6	627.7	614.8	613.8	615.8	613.8	602.8	584.0	544.2
25°	639.6	634.6	626.7	623.7	615.8	630.7	627.7	624.7	621.7	599.9	569.1
27.5°	643.6	642.6	636.6	624.7	618.7	634.6	643.6	644.6	643.6	621.7	591.9
30°	645.5	640.6	634.6	631.6	633.6	649.5	649.5	671.4	662.4	640.6	614.8
32.5°	668.4	665.4	645.5	638.6	639.6	658.5	659.5	681.3	678.3	663.4	634.6
35°	717.1	697.2	668.4	648.5	648.5	673.4	665.4	697.2	705.1	681.3	648.5
37.5°	789.6	774.7	723.0	678.3	661.4	679.3	687.3	705.1	729.0	708.1	676.3
40°	933.6	930.6	857.1	760.8	694.2	710.1	713.1	740.9	756.8	728.0	719.0
42.5°	1144.1	1129.2	1060.7	908.7	753.8	746.8	757.8	775.7	813.4	789.6	767.7
45°	1349.7	1342.7	1274.2	1104.4	862.1	820.3	814.4	846.2	901.8	876.0	859.1
47.5°	1498.7	1484.8	1446.0	1303.0	1021.0	906.7	910.7	942.5	1013.0	993.2	998.1
50°	1612.9	1605.9	1565.2	1486.7	1221.6	1042.8	1034.9	1066.6	1162.0	1174.9	1188.8
52.5°	1738.0	1750.9	1696.3	1629.8	1458.9	1225.5	1207.7	1218.6	1341.7	1371.5	1410.3
55°	1858.2	1879.0	1824.4	1815.5	1707.2	1428.1	1425.2	1399.3	1558.3	1562.2	1583.1
57.5°	1936.6	1929.7	1925.7	1974.4	1955.5	1660.5	1645.6	1619.8	1763.8	1738.0	1800.6
60°	1942.6	1962.5	2029.0	2149.2	2182.9	1933.7	1911.8	1841.3	1941.6	1880.0	1999.2
62.5°	1987.3	2003.2	2126.3	2292.2	2335.9	2174.0	2188.9	2010.1	2093.6	2044.9	2219.7
65°	1874.1	1923.7	2171.0	2403.4	2536.5	2417.3	2402.4	2227.6	2249.5	2203.8	2437.2
67.5°	1771.8	1790.6	2048.9	2437.2	2695.4	2661.6	2655.7	2420.3	2410.4	2326.0	2498.8
70°	1440.1	1462.9	1718.1	2264.4	2749.0	2946.7	2932.8	2690.4	2519.6	2259.4	2182.9
72.5°	825.3	871.0	1190.8	1744.0	2470.0	3026.1	3039.0	2734.1	2390.5	1899.9	1457.9
75°	270.1	283.0	494.6	988.2	1847.3	2639.8	2617.0	2349.8	1928.7	1254.3	658.5
77.5°	91.4	93.4	146.0	357.5	1023.9	1783.7	1796.6	1679.4	1184.8	521.4	181.7
80°	46.7	49.7	71.5	134.1	421.1	971.3	992.2	957.4	496.6	153.9	43.7
82.5°	21.8	22.8	41.7	74.5	192.7	381.4	381.4	419.1	175.8	86.4	17.9
85°	7.9	7.9	21.8	42.7	81.4	127.1	128.1	129.1	92.4	64.6	7.9
87.5°	3.0	3.0	10.9	17.9	29.8	38.7	38.7	30.8	46.7	42.7	3.0
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°	416.1	416.1	416.1	416.1	416.1	416.1	416.1	416.1	416.1	416.1	416.1
2.5°	418.1	412.2	407.2	400.2	391.3	386.3	387.3	381.4	381.4	378.4	377.4
5°	418.1	412.2	399.2	387.3	379.4	369.5	364.5	360.5	360.5	358.5	359.5
7.5°	421.1	412.2	394.3	378.4	365.5	355.5	347.6	346.6	344.6	339.7	343.6
10°	439.0	426.1	396.3	374.4	359.5	348.6	334.7	330.7	324.8	315.8	316.8
12.5°	453.9	437.0	410.2	380.4	361.5	343.6	311.8	277.1	262.2	246.3	247.3
15°	475.7	451.9	415.1	388.3	361.5	303.9	246.3	201.6	177.8	165.9	165.9
17.5°	487.6	467.8	429.0	393.3	332.7	247.3	174.8	136.1	132.1	134.1	134.1
20°	512.5	485.7	444.9	397.3	285.0	175.8	128.1	124.1	126.1	130.1	129.1
22.5°	528.4	501.5	456.8	379.4	220.5	126.1	120.2	118.2	120.2	125.1	125.1
25°	541.3	524.4	475.7	335.7	155.9	114.2	112.2	114.2	116.2	118.2	121.2
27.5°	573.0	544.2	488.6	279.1	112.2	106.3	108.3	109.2	109.2	112.2	113.2
30°	593.9	571.1	498.6	215.5	99.3	98.3	100.3	101.3	102.3	105.3	106.3
32.5°	613.8	605.8	485.7	146.0	93.4	91.4	90.4	91.4	95.3	98.3	97.3
35°	642.6	637.6	466.8	101.3	87.4	83.4	81.4	82.4	85.4	88.4	87.4
37.5°	677.3	682.3	421.1	88.4	81.4	76.5	72.5	72.5	73.5	76.5	77.5
40°	718.0	731.0	367.5	82.4	77.5	71.5	67.5	62.6	61.6	60.6	61.6
42.5°	792.5	807.4	306.9	78.5	71.5	64.6	58.6	52.6	47.7	44.7	44.7
45°	896.8	884.9	227.4	74.5	68.5	58.6	49.7	42.7	35.8	32.8	32.8
47.5°	1040.8	1000.1	155.9	70.5	63.6	51.6	41.7	32.8	26.8	23.8	23.8
50°	1240.4	1106.4	101.3	66.5	60.6	44.7	33.8	23.8	19.9	18.9	19.9
52.5°	1429.1	1214.6	80.4	61.6	54.6	38.7	25.8	19.9	17.9	16.9	16.9
55°	1602.9	1269.2	71.5	56.6	49.7	31.8	21.8	16.9	15.9	14.9	14.9
57.5°	1749.9	1288.1	61.6	49.7	39.7	24.8	17.9	14.9	12.9	11.9	11.9
60°	1877.1	1293.1	47.7	39.7	28.8	18.9	14.9	12.9	10.9	8.9	8.9
62.5°	1978.4	1258.3	33.8	27.8	19.9	14.9	12.9	8.9	6.0	4.0	3.0
65°	2058.8	1188.8	22.8	18.9	12.9	10.9	7.9	4.0	1.0	0.0	0.0
67.5°	1964.5	1030.9	17.9	13.9	8.9	7.0	4.0	1.0	0.0	0.0	0.0
70°	1602.0	799.5	12.9	8.9	6.0	2.0	1.0	0.0	0.0	0.0	0.0
72.5°	1090.5	515.4	9.9	6.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0
75°	489.6	184.7	7.0	4.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	119.2	43.7	5.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	31.8	10.9	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	11.9	4.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	1.0	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)