

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: P676778

Luminaire Tested: **CCW-SA-2A-840-U-T4W-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676778  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2A-840-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) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

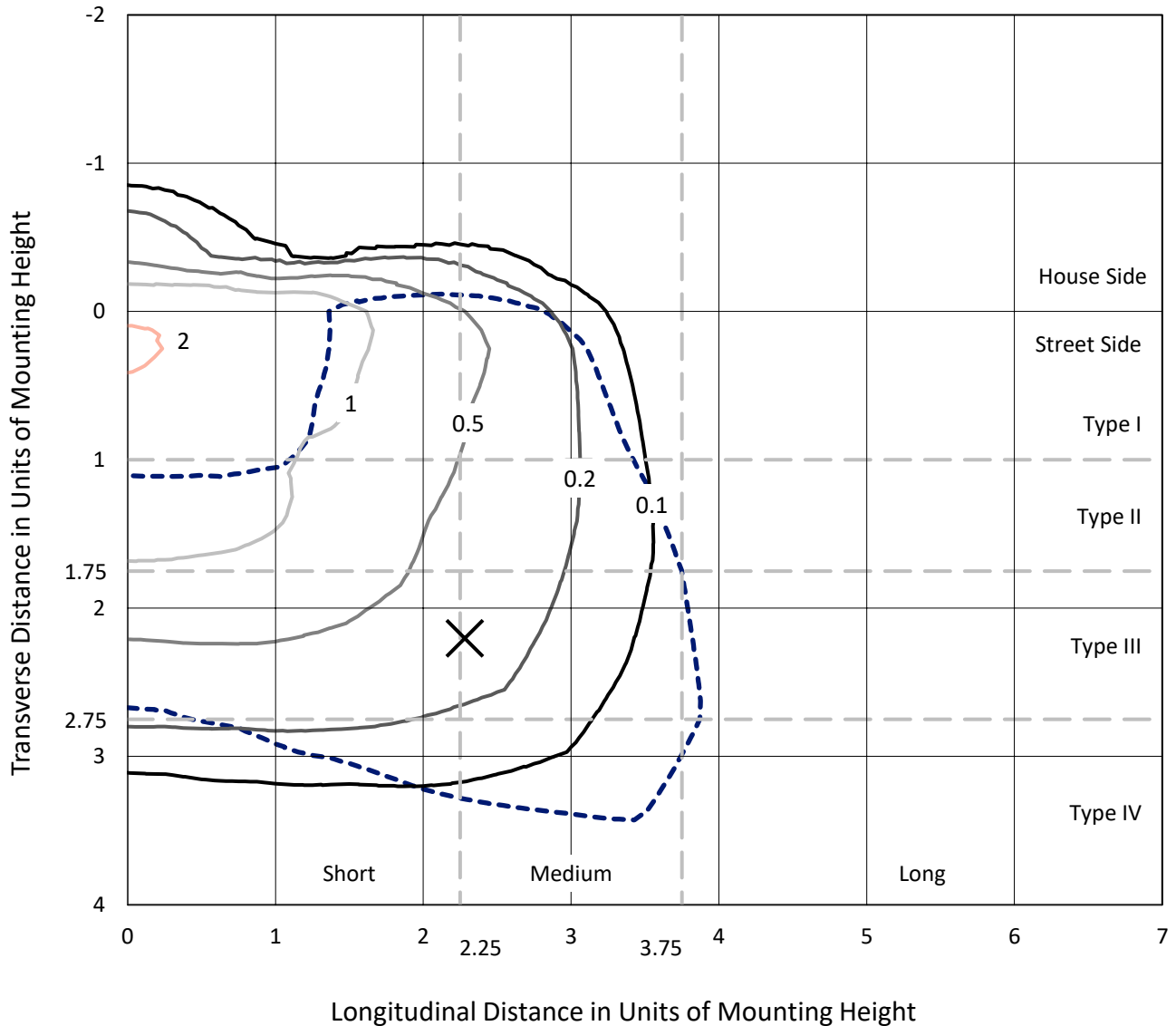
Lumens per Lamp: N/A  
Luminaire Lumens: 3365.8 lumens  
Efficiency: N/A  
Efficacy: 93.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B0 - U0 - G1

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

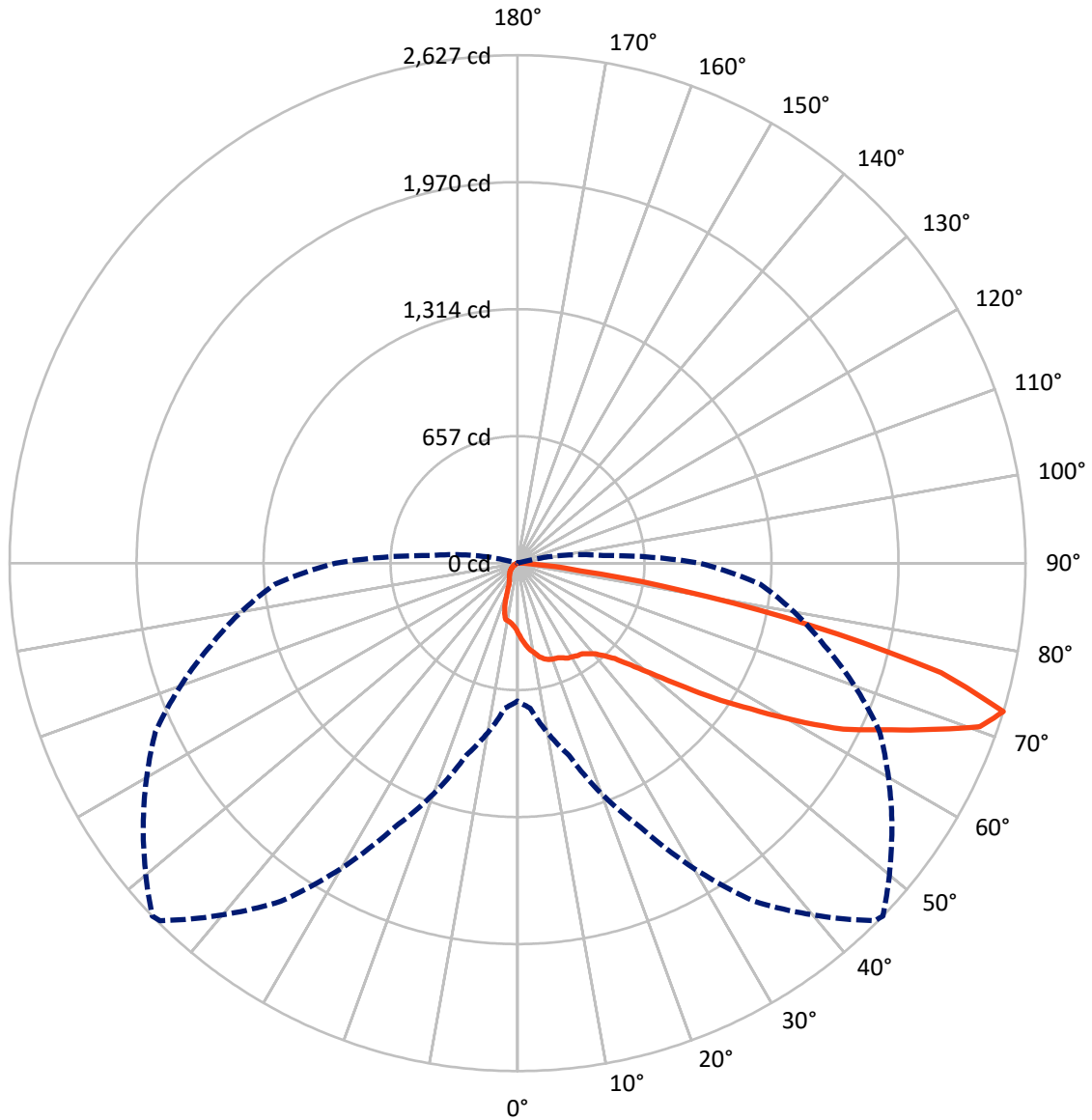
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.3 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	362.4	0.0	362.4
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	3003.4	0.0	3003.4
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	3365.8	0.0	3365.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.0	1.1
10°-20°	108.7	3.2
20°-30°	170.2	5.1
30°-40°	238.3	7.1
40°-50°	393.0	11.7
50°-60°	706.3	21.0
60°-70°	1023.7	30.4
70°-80°	638.9	19.0
80°-90°	50.6	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°	3365.8	100.0
0°-180°	3365.8	100.0

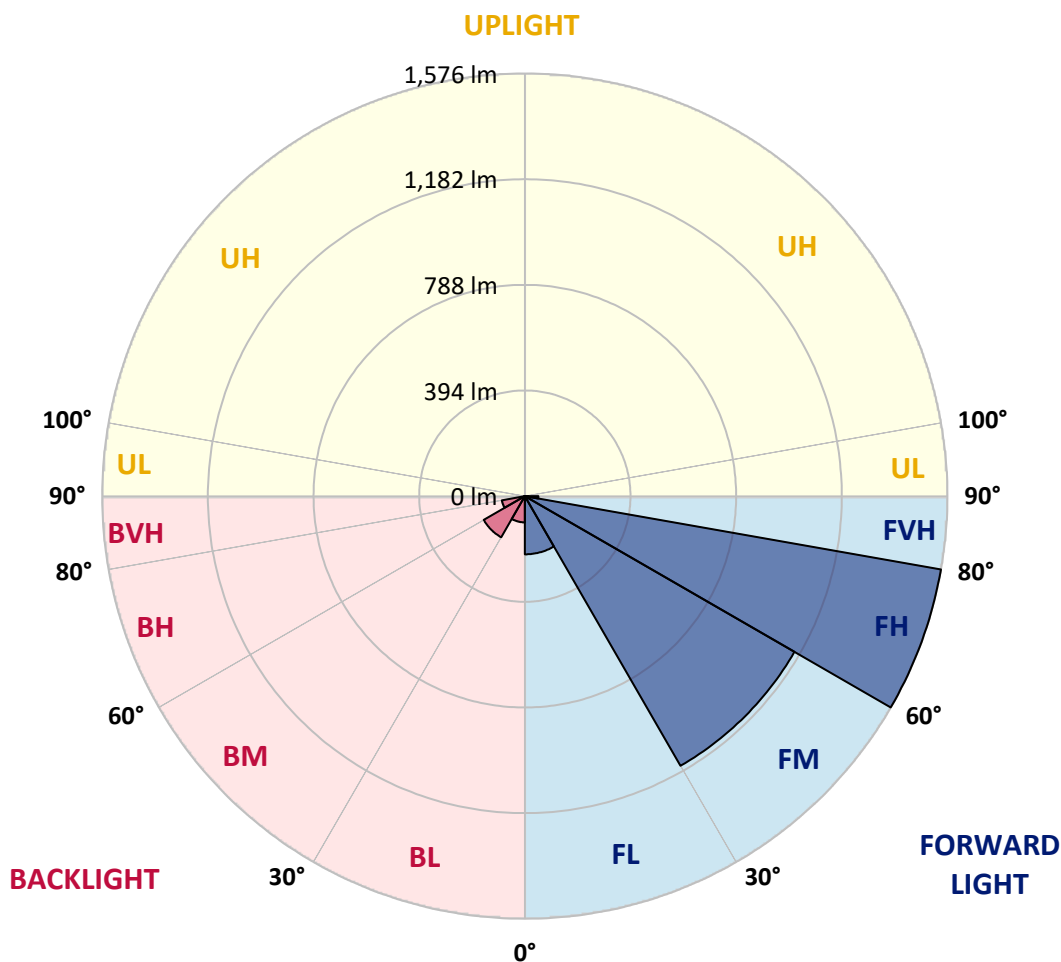


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	216.9	6.4			
FM (30°-60°)	1160.6	34.5			
FH (60°-80°)	1575.5	46.8			G1/1800
FVH (80°-90°)	50.4	1.5			G1/100
BL (0°-30°)	97.9	2.9	B0/110		
BM (30°-60°)	177.0	5.3	B0/220		
BH (60°-80°)	87.1	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°	359.7	359.7	359.7	359.7	359.7	359.7	359.7	359.7	359.7	359.7	359.7
2.5°	402.6	400.9	403.5	402.6	392.3	394.1	393.2	386.3	374.3	367.4	363.2
5°	449.0	453.3	449.9	442.1	436.1	424.1	422.4	411.2	392.3	380.3	367.4
7.5°	497.1	497.1	490.2	478.2	465.3	452.4	450.7	431.8	415.5	394.9	376.9
10°	533.1	528.8	523.7	510.8	496.2	479.1	470.5	456.7	438.7	413.8	390.6
12.5°	564.9	558.0	549.5	530.6	513.4	494.5	496.2	473.9	461.9	439.6	405.2
15°	582.9	576.9	569.2	552.0	525.4	516.8	513.4	499.7	478.2	455.9	423.3
17.5°	587.2	582.9	572.6	550.3	535.7	525.4	524.6	508.2	498.8	479.9	443.9
20°	578.6	570.9	563.2	548.6	534.9	531.4	528.8	528.8	516.8	491.9	456.7
22.5°	564.0	555.5	551.2	542.6	531.4	530.6	532.3	530.6	521.1	504.8	470.5
25°	552.9	548.6	541.7	539.2	532.3	545.2	542.6	540.0	537.4	518.5	491.9
27.5°	556.3	555.5	550.3	540.0	534.9	548.6	556.3	557.2	556.3	537.4	511.7
30°	558.0	553.7	548.6	546.0	547.7	561.5	561.5	580.4	572.6	553.7	531.4
32.5°	577.8	575.2	558.0	552.0	552.9	569.2	570.1	588.9	586.4	573.5	548.6
35°	619.9	602.7	577.8	560.6	560.6	582.1	575.2	602.7	609.6	588.9	560.6
37.5°	682.5	669.6	625.0	586.4	571.8	587.2	594.1	609.6	630.2	612.1	584.7
40°	807.0	804.4	740.9	657.6	600.1	613.8	616.4	640.5	654.2	629.3	621.6
42.5°	989.0	976.1	916.9	785.5	651.6	645.6	655.1	670.5	703.1	682.5	663.6
45°	1166.7	1160.7	1101.5	954.7	745.2	709.1	704.0	731.5	779.5	757.2	742.6
47.5°	1295.5	1283.5	1250.0	1126.4	882.6	783.8	787.3	814.7	875.7	858.5	862.8
50°	1394.2	1388.2	1353.0	1285.2	1056.0	901.4	894.6	922.1	1004.5	1015.6	1027.7
52.5°	1502.4	1513.6	1466.4	1408.8	1261.2	1059.4	1044.0	1053.4	1159.9	1185.6	1219.1
55°	1606.3	1624.3	1577.1	1569.4	1475.8	1234.6	1232.0	1209.7	1347.0	1350.5	1368.5
57.5°	1674.1	1668.1	1664.7	1706.7	1690.4	1435.4	1422.6	1400.2	1524.7	1502.4	1556.5
60°	1679.3	1696.4	1754.0	1857.8	1887.0	1671.5	1652.7	1591.7	1678.4	1625.2	1728.2
62.5°	1717.9	1731.6	1838.1	1981.5	2019.2	1879.3	1892.2	1737.6	1809.8	1767.7	1918.8
65°	1620.0	1663.0	1876.7	2077.6	2192.7	2089.6	2076.8	1925.7	1944.6	1905.1	2106.8
67.5°	1531.6	1547.9	1771.1	2106.8	2330.0	2300.8	2295.7	2092.2	2083.6	2010.7	2160.0
70°	1244.9	1264.6	1485.2	1957.4	2376.4	2547.2	2535.2	2325.7	2178.1	1953.1	1887.0
72.5°	713.4	752.9	1029.4	1507.6	2135.1	2615.9	2627.1	2363.5	2066.5	1642.4	1260.3
75°	233.5	244.7	427.5	854.2	1596.9	2282.0	2262.2	2031.3	1667.2	1084.3	569.2
77.5°	79.0	80.7	126.2	309.1	885.1	1541.9	1553.1	1451.8	1024.2	450.7	157.1
80°	40.4	42.9	61.8	115.9	364.0	839.6	857.7	827.6	429.3	133.1	37.8
82.5°	18.9	19.7	36.1	64.4	166.6	329.7	329.7	362.3	152.0	74.7	15.5
85°	6.9	6.9	18.9	36.9	70.4	109.9	110.7	111.6	79.8	55.8	6.9
87.5°	2.6	2.6	9.4	15.5	25.8	33.5	33.5	26.6	40.4	36.9	2.6
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°	359.7	359.7	359.7	359.7	359.7	359.7	359.7	359.7	359.7	359.7	359.7
2.5°	361.4	356.3	352.0	346.0	338.3	334.0	334.8	329.7	329.7	327.1	326.2
5°	361.4	356.3	345.1	334.8	328.0	319.4	315.1	311.6	311.6	309.9	310.8
7.5°	364.0	356.3	340.8	327.1	315.9	307.4	300.5	299.6	297.9	293.6	297.0
10°	379.5	368.3	342.6	323.7	310.8	301.3	289.3	285.9	280.7	273.0	273.9
12.5°	392.3	377.7	354.6	328.8	312.5	297.0	269.6	239.5	226.6	212.9	213.8
15°	411.2	390.6	358.9	335.7	312.5	262.7	212.9	174.3	153.7	143.4	143.4
17.5°	421.5	404.4	370.9	340.0	287.6	213.8	151.1	117.6	114.2	115.9	115.9
20°	443.0	419.8	384.6	343.4	246.4	152.0	110.7	107.3	109.0	112.5	111.6
22.5°	456.7	433.6	394.9	328.0	190.6	109.0	103.9	102.2	103.9	108.2	108.2
25°	467.9	453.3	411.2	290.2	134.8	98.7	97.0	98.7	100.4	102.2	104.7
27.5°	495.4	470.5	422.4	241.2	97.0	91.9	93.6	94.4	94.4	97.0	97.9
30°	513.4	493.6	431.0	186.3	85.9	85.0	86.7	87.6	88.4	91.0	91.9
32.5°	530.6	523.7	419.8	126.2	80.7	79.0	78.1	79.0	82.4	85.0	84.1
35°	555.5	551.2	403.5	87.6	75.5	72.1	70.4	71.3	73.8	76.4	75.5
37.5°	585.5	589.8	364.0	76.4	70.4	66.1	62.7	62.7	63.5	66.1	67.0
40°	620.7	631.9	317.7	71.3	67.0	61.8	58.4	54.1	53.2	52.4	53.2
42.5°	685.1	698.0	265.3	67.8	61.8	55.8	50.7	45.5	41.2	38.6	38.6
45°	775.2	764.9	196.6	64.4	59.2	50.7	42.9	36.9	30.9	28.3	28.3
47.5°	899.7	864.5	134.8	61.0	54.9	44.6	36.1	28.3	23.2	20.6	20.6
50°	1072.3	956.4	87.6	57.5	52.4	38.6	29.2	20.6	17.2	16.3	17.2
52.5°	1235.4	1050.0	69.5	53.2	47.2	33.5	22.3	17.2	15.5	14.6	14.6
55°	1385.7	1097.2	61.8	48.9	42.9	27.5	18.9	14.6	13.7	12.9	12.9
57.5°	1512.7	1113.5	53.2	42.9	34.3	21.5	15.5	12.9	11.2	10.3	10.3
60°	1622.6	1117.8	41.2	34.3	24.9	16.3	12.9	11.2	9.4	7.7	7.7
62.5°	1710.2	1087.7	29.2	24.0	17.2	12.9	11.2	7.7	5.2	3.4	2.6
65°	1779.7	1027.7	19.7	16.3	11.2	9.4	6.9	3.4	0.9	0.0	0.0
67.5°	1698.2	891.1	15.5	12.0	7.7	6.0	3.4	0.9	0.0	0.0	0.0
70°	1384.8	691.1	11.2	7.7	5.2	1.7	0.9	0.0	0.0	0.0	0.0
72.5°	942.7	445.6	8.6	5.2	2.6	0.9	0.0	0.0	0.0	0.0	0.0
75°	423.3	159.7	6.0	3.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	103.0	37.8	4.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	27.5	9.4	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.3	3.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	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)