

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: P676543

Luminaire Tested: **CCW-SA-1D-730-U-T4FT-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676543  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1D-730-U-T4FT-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/  
T4FT distribution lens and House Side Shield  
Light Source: (16) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

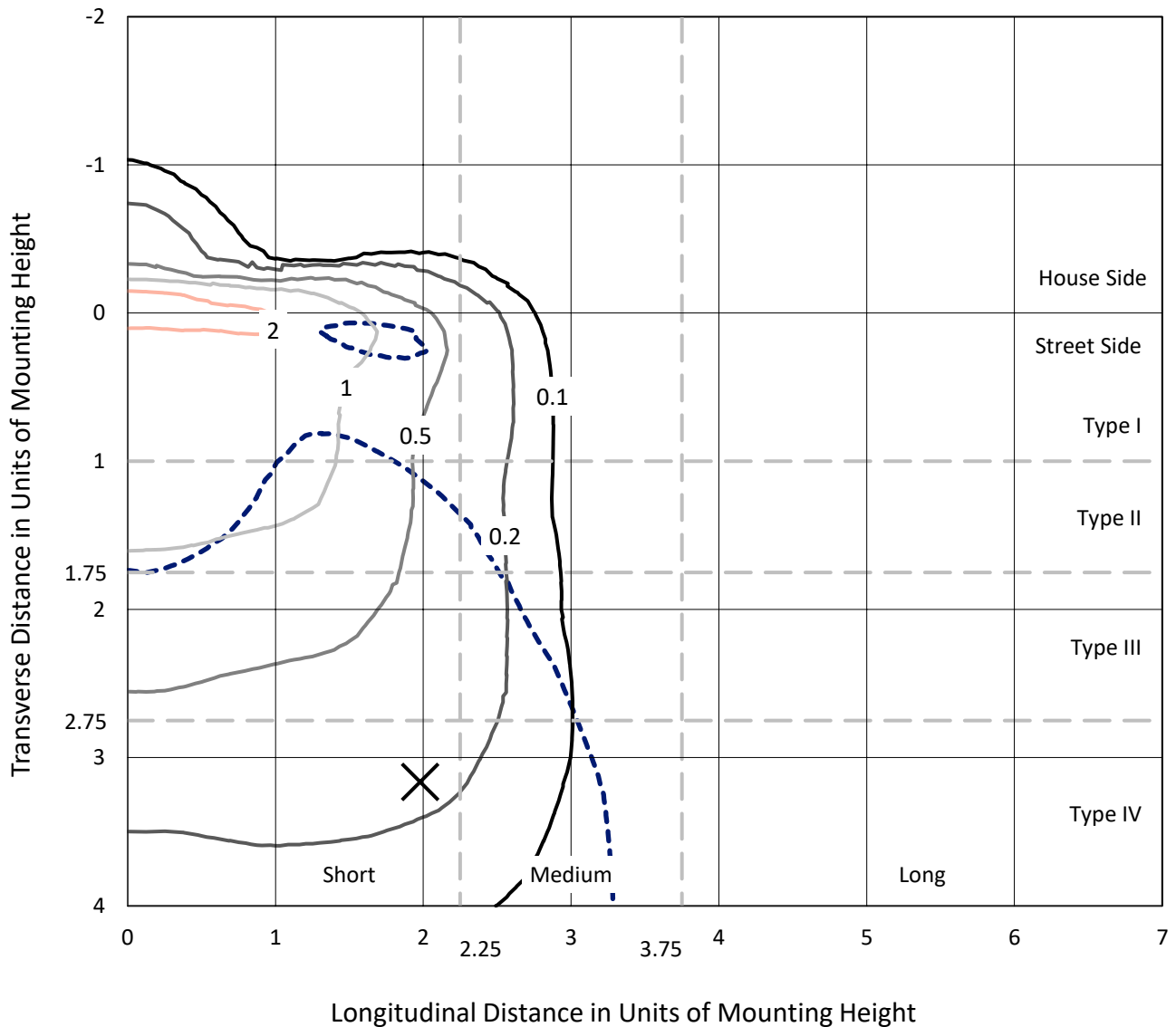
Lumens per Lamp: N/A  
Luminaire Lumens: 3646.5 lumens  
Efficiency: N/A  
Efficacy: 82.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

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

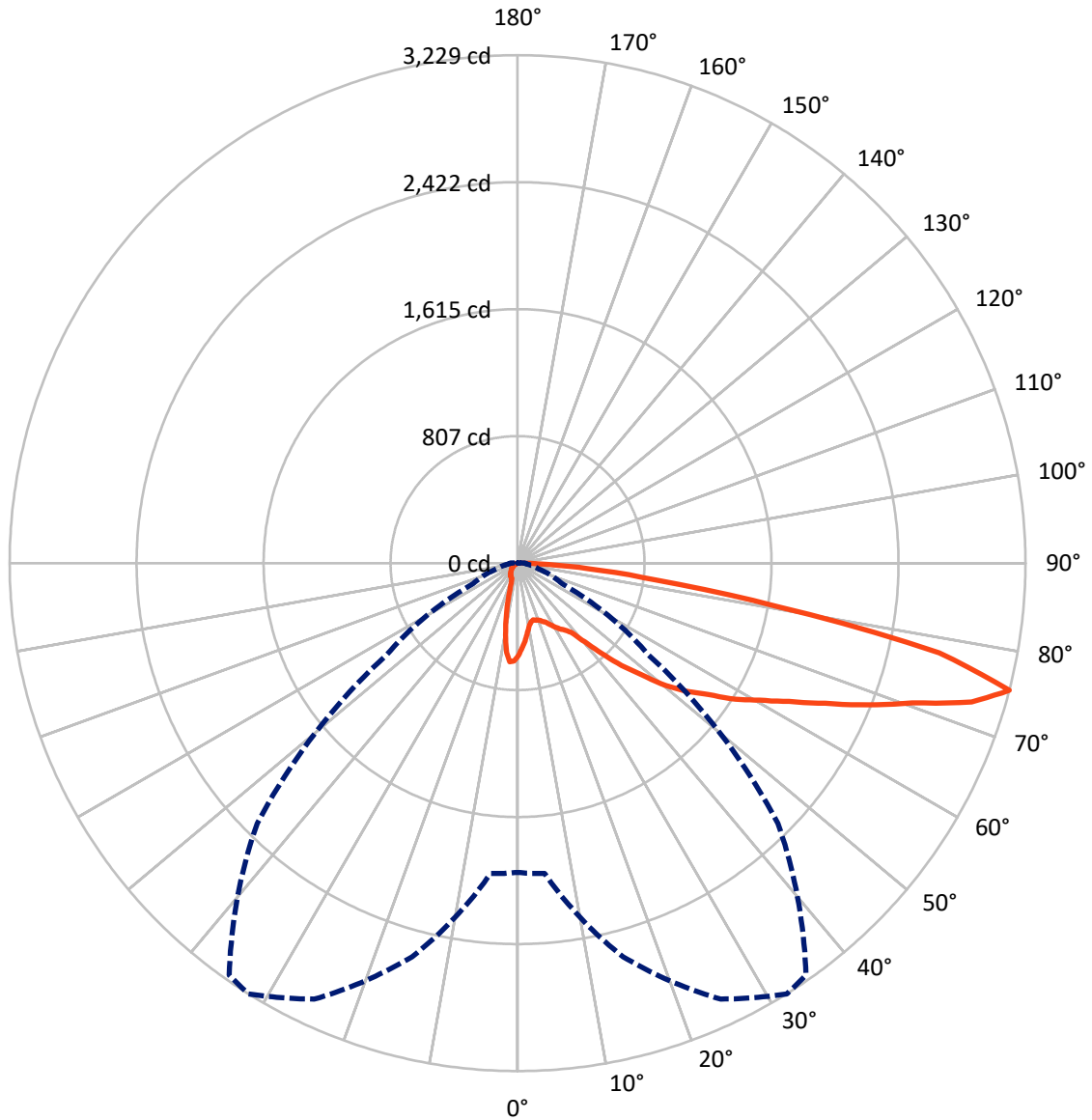
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.6 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
<b>House Side</b>	Lumens	393.9	0.0	393.9
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	3252.5	0.0	3252.5
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	3646.5	0.0	3646.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.7	1.4
10°-20°	117.5	3.2
20°-30°	175.9	4.8
30°-40°	270.0	7.4
40°-50°	472.1	12.9
50°-60°	738.0	20.2
60°-70°	954.1	26.2
70°-80°	777.1	21.3
80°-90°	90.0	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°	3646.5	100.0
0°-180°	3646.5	100.0



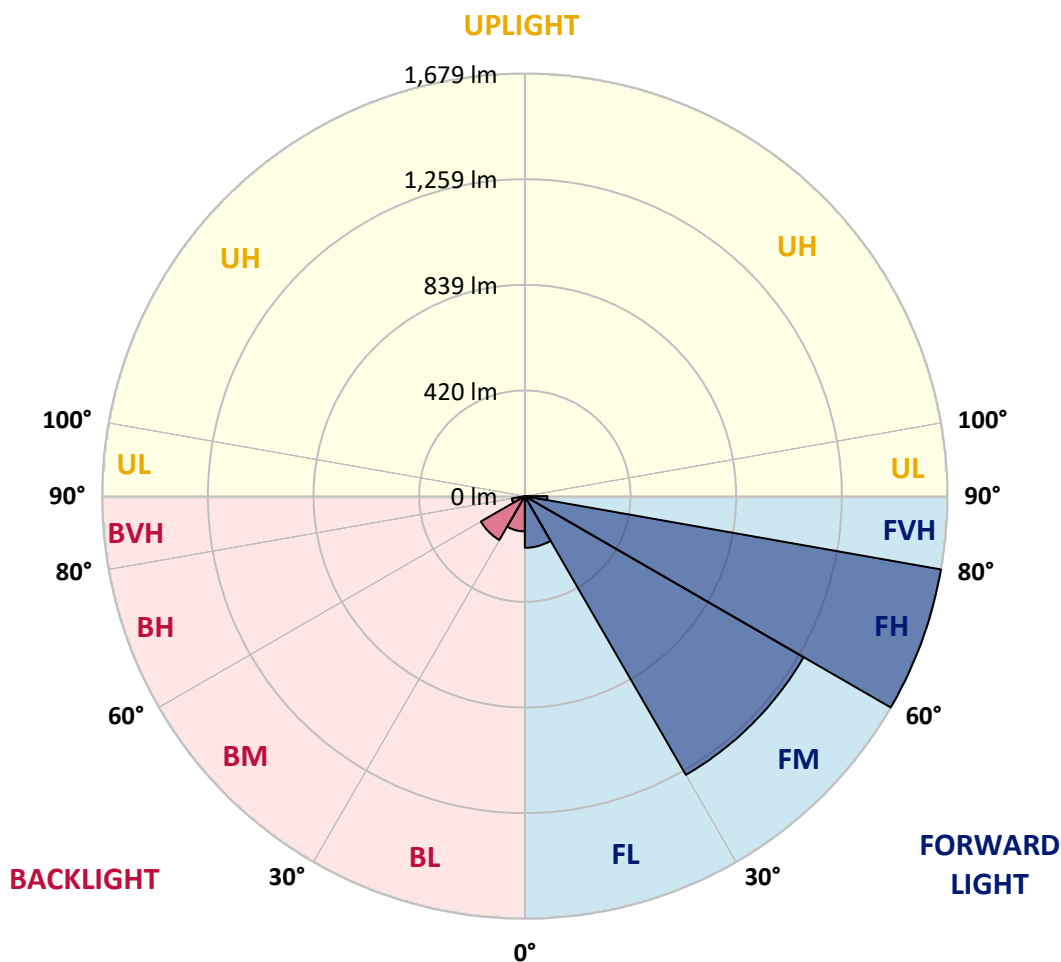
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	205.2	5.6			
FM (30°-60°)	1278.6	35.1			
FH (60°-80°)	1678.9	46.0			G1/1800
FVH (80°-90°)	89.9	2.5			G1/100
BL (0°-30°)	139.9	3.8	B1/500		
BM (30°-60°)	201.5	5.5	B0/220		
BH (60°-80°)	52.4	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: B1-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8
2.5°	528.0	535.5	534.6	539.3	540.2	543.0	549.5	549.5	568.2	581.3	589.7
5°	480.4	475.7	477.6	483.2	497.2	496.3	512.2	520.6	543.0	561.7	581.3
7.5°	421.5	420.6	424.3	437.4	447.7	456.1	472.9	494.4	524.3	552.3	586.9
10°	384.1	382.2	389.7	393.5	405.6	411.2	437.4	471.0	506.5	546.7	586.9
12.5°	375.7	369.2	372.9	372.0	383.2	386.0	411.2	452.3	495.3	544.9	594.4
15°	380.4	375.7	372.0	372.0	374.8	376.6	403.7	440.2	488.8	547.7	611.2
17.5°	395.3	392.5	381.3	370.1	382.2	382.2	399.1	437.4	489.7	556.1	631.8
20°	413.1	410.3	390.7	377.6	386.0	395.3	413.1	443.9	492.5	562.6	663.6
22.5°	432.7	432.7	405.6	390.7	401.9	402.8	434.6	464.5	503.7	579.4	684.1
25°	457.0	455.1	429.0	412.2	415.9	426.2	455.1	486.9	524.3	602.8	722.4
27.5°	488.8	486.0	455.1	438.3	443.0	454.2	486.9	518.7	543.0	612.2	755.1
30°	515.0	512.2	486.9	461.7	472.0	482.2	520.6	548.6	566.4	629.9	792.5
32.5°	520.6	515.9	499.1	487.9	499.1	518.7	548.6	577.6	604.7	674.8	863.6
35°	585.1	568.2	524.3	506.5	523.4	529.9	579.4	630.8	657.0	710.3	943.0
37.5°	708.4	692.5	634.6	585.1	561.7	569.2	633.7	697.2	722.4	776.6	1029.9
40°	859.8	833.7	772.0	705.6	658.0	648.6	690.7	784.1	808.4	859.8	1143.9
42.5°	1032.7	1007.5	912.2	833.7	785.1	772.9	779.4	885.1	905.6	936.5	1218.7
45°	1157.0	1143.9	1036.5	966.4	928.0	915.0	899.1	995.3	1021.5	1031.8	1327.1
47.5°	1229.0	1219.6	1159.8	1112.2	1060.8	1046.7	1057.0	1148.6	1130.9	1139.3	1430.9
50°	1325.3	1301.0	1219.6	1234.6	1224.3	1220.6	1238.3	1278.5	1252.4	1228.1	1543.9
52.5°	1402.8	1359.8	1302.8	1339.3	1355.2	1369.2	1431.8	1461.7	1344.9	1307.5	1616.8
55°	1450.5	1409.4	1424.3	1458.0	1474.8	1539.3	1613.1	1590.7	1405.6	1371.0	1714.0
57.5°	1493.5	1496.3	1536.5	1546.7	1632.7	1643.9	1786.0	1713.1	1448.6	1429.0	1752.4
60°	1597.2	1586.9	1619.6	1686.0	1768.2	1830.9	1966.4	1795.3	1470.1	1458.9	1742.1
62.5°	1784.1	1720.6	1731.8	1815.9	1936.5	2004.7	2070.1	1832.7	1464.5	1463.6	1711.2
65°	2021.5	1948.6	1915.0	1993.5	2149.6	2245.8	2186.9	1874.8	1427.1	1453.3	1596.3
67.5°	2218.7	2219.7	2157.0	2201.0	2404.7	2425.3	2297.2	1866.4	1364.5	1372.0	1315.9
70°	2445.8	2476.7	2421.5	2558.9	2660.8	2673.9	2423.4	1797.2	1229.9	1034.6	756.1
72.5°	2503.8	2519.7	2691.6	2902.8	3017.8	3021.5	2547.7	1566.4	809.4	457.0	234.6
75°	1966.4	1981.3	2590.7	3058.0	3229.0	3196.3	2340.2	1016.8	315.0	133.6	56.1
77.5°	1097.2	1101.9	1608.4	2472.0	2739.3	2607.5	1639.3	396.3	127.1	76.6	26.2
80°	300.0	352.3	596.3	1218.7	1672.9	1642.1	780.4	129.0	82.2	59.8	12.1
82.5°	72.0	77.6	191.6	539.3	884.1	922.4	232.7	65.4	57.0	49.5	6.5
85°	26.2	29.0	58.9	262.6	454.2	416.8	70.1	32.7	42.1	38.3	2.8
87.5°	9.3	9.3	18.7	86.0	132.7	100.0	23.4	11.2	21.5	23.4	0.9
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°	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8
2.5°	590.7	590.7	603.7	615.0	618.7	623.4	618.7	629.0	628.0	623.4	625.2
5°	591.6	608.4	619.6	627.1	630.8	629.9	631.8	620.6	614.0	609.4	604.7
7.5°	596.3	612.2	632.7	630.8	620.6	599.1	582.3	552.3	523.4	522.4	517.8
10°	612.2	626.2	638.3	630.8	593.5	528.0	474.8	434.6	398.1	381.3	383.2
12.5°	623.4	649.5	643.9	605.6	528.0	442.1	363.6	304.7	272.0	241.1	241.1
15°	646.7	656.1	654.2	569.2	447.7	344.9	249.5	189.7	155.1	141.1	139.3
17.5°	669.2	679.4	647.7	514.0	368.2	231.8	151.4	117.8	113.1	111.2	112.2
20°	697.2	698.1	642.1	458.9	276.6	146.7	108.4	105.6	106.5	105.6	105.6
22.5°	727.1	733.7	622.4	381.3	184.1	106.5	100.9	101.9	101.9	101.9	104.7
25°	766.4	756.1	591.6	307.5	120.6	98.1	98.1	99.1	99.1	99.1	100.0
27.5°	792.5	778.5	552.3	221.5	94.4	92.5	94.4	94.4	96.3	96.3	96.3
30°	846.7	810.3	502.8	143.0	85.0	87.9	89.7	91.6	92.5	94.4	95.3
32.5°	888.8	838.3	441.1	95.3	77.6	79.4	84.1	87.9	91.6	90.7	90.7
35°	965.4	884.1	384.1	75.7	71.0	71.0	75.7	82.2	87.9	89.7	89.7
37.5°	1053.3	921.5	304.7	69.2	65.4	65.4	68.2	75.7	83.2	86.9	85.0
40°	1126.2	964.5	225.2	64.5	60.7	60.7	62.6	68.2	76.6	83.2	84.1
42.5°	1177.6	996.3	152.3	59.8	57.0	56.1	58.9	61.7	68.2	77.6	79.4
45°	1224.3	1013.1	94.4	55.1	53.3	53.3	53.3	56.1	60.7	69.2	71.0
47.5°	1307.5	1031.8	68.2	51.4	48.6	49.5	50.5	51.4	55.1	57.0	57.9
50°	1377.6	1045.8	56.1	47.7	45.8	46.7	46.7	46.7	48.6	45.8	45.8
52.5°	1430.9	1031.8	47.7	43.9	42.1	43.0	42.1	42.1	40.2	36.4	36.4
55°	1470.1	1006.6	38.3	40.2	40.2	40.2	38.3	35.5	31.8	29.0	29.0
57.5°	1480.4	963.6	29.9	33.6	36.4	36.4	32.7	29.0	24.3	21.5	20.6
60°	1464.5	870.1	22.4	24.3	28.0	29.0	26.2	21.5	16.8	14.0	14.0
62.5°	1407.5	796.3	17.8	15.9	20.6	21.5	18.7	14.0	9.3	6.5	5.6
65°	1299.1	682.3	13.1	11.2	14.0	15.0	12.1	6.5	2.8	0.9	0.0
67.5°	1042.1	514.0	8.4	7.5	9.3	9.3	5.6	1.9	0.0	0.0	0.0
70°	576.6	288.8	5.6	3.7	4.7	2.8	0.9	0.0	0.0	0.0	0.0
72.5°	166.4	82.2	2.8	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	44.9	19.6	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	19.6	7.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	8.4	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	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)