

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: P676601

Luminaire Tested: **CCW-SA-2A-827-U-T4FT-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676601  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2A-827-U-T4FT-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/  
T4FT distribution lens and House Side Shield  
Light Source: (32) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

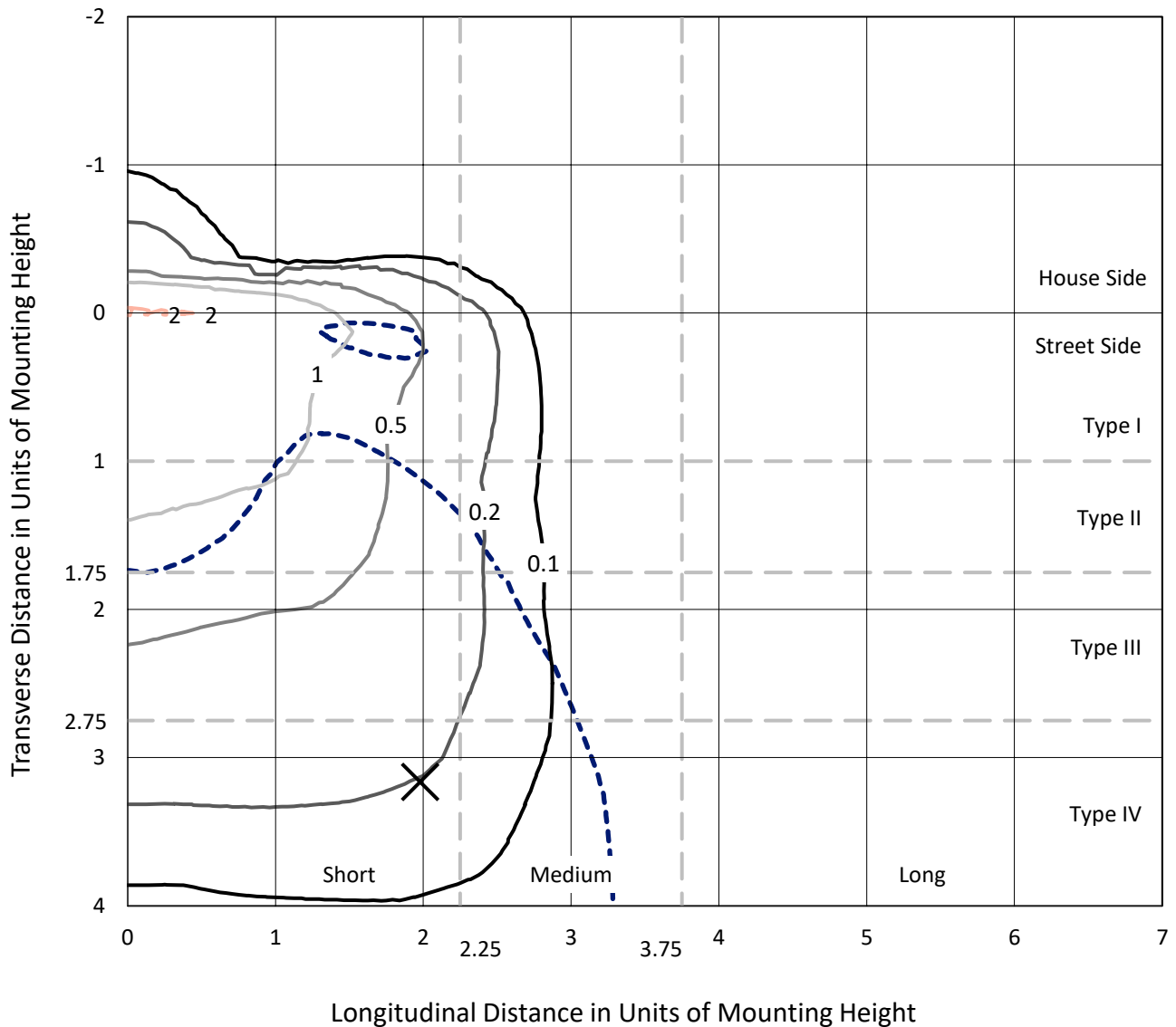
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2888.1 lumens  
Efficiency: N/A  
Efficacy: 79.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - 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

REPORT NUMBER: P676601  
 CATALOG NUMBER: CCW-SA-2A-827-U-T4FT-HSS

### Iso-Footcandle Lines of Horizontal Illumination

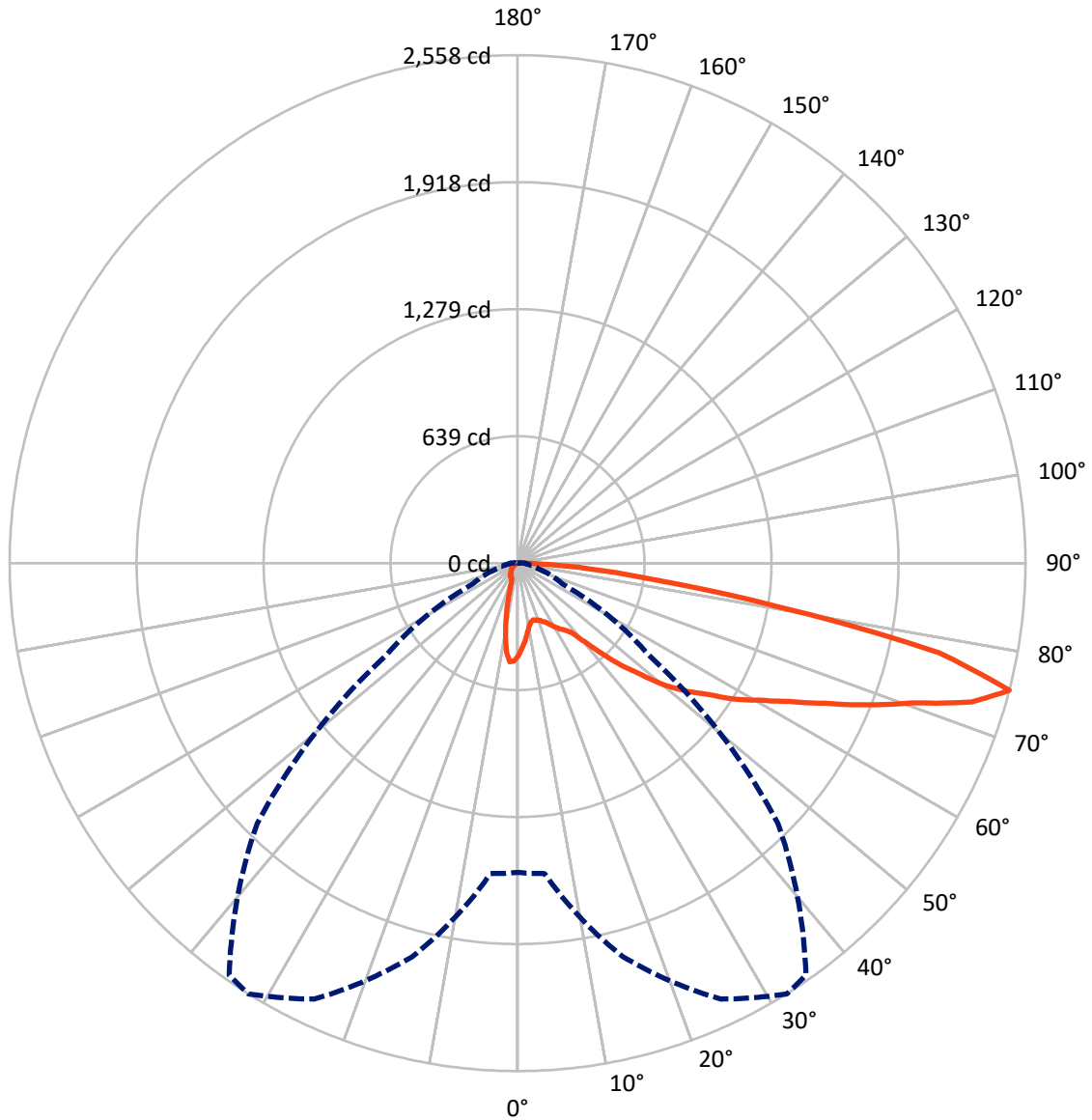
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.1 fc  
 Type IV - Short - N/A

REPORT NUMBER: P676601  
CATALOG NUMBER: CCW-SA-2A-827-U-T4FT-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P676601  
 CATALOG NUMBER: CCW-SA-2A-827-U-T4FT-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	312.0	0.0	312.0
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	2576.1	0.0	2576.1
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	2888.1	0.0	2888.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.0	1.4
10°-20°	93.0	3.2
20°-30°	139.3	4.8
30°-40°	213.8	7.4
40°-50°	374.0	12.9
50°-60°	584.5	20.2
60°-70°	755.7	26.2
70°-80°	615.5	21.3
80°-90°	71.2	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°	2888.1	100.0
0°-180°	2888.1	100.0



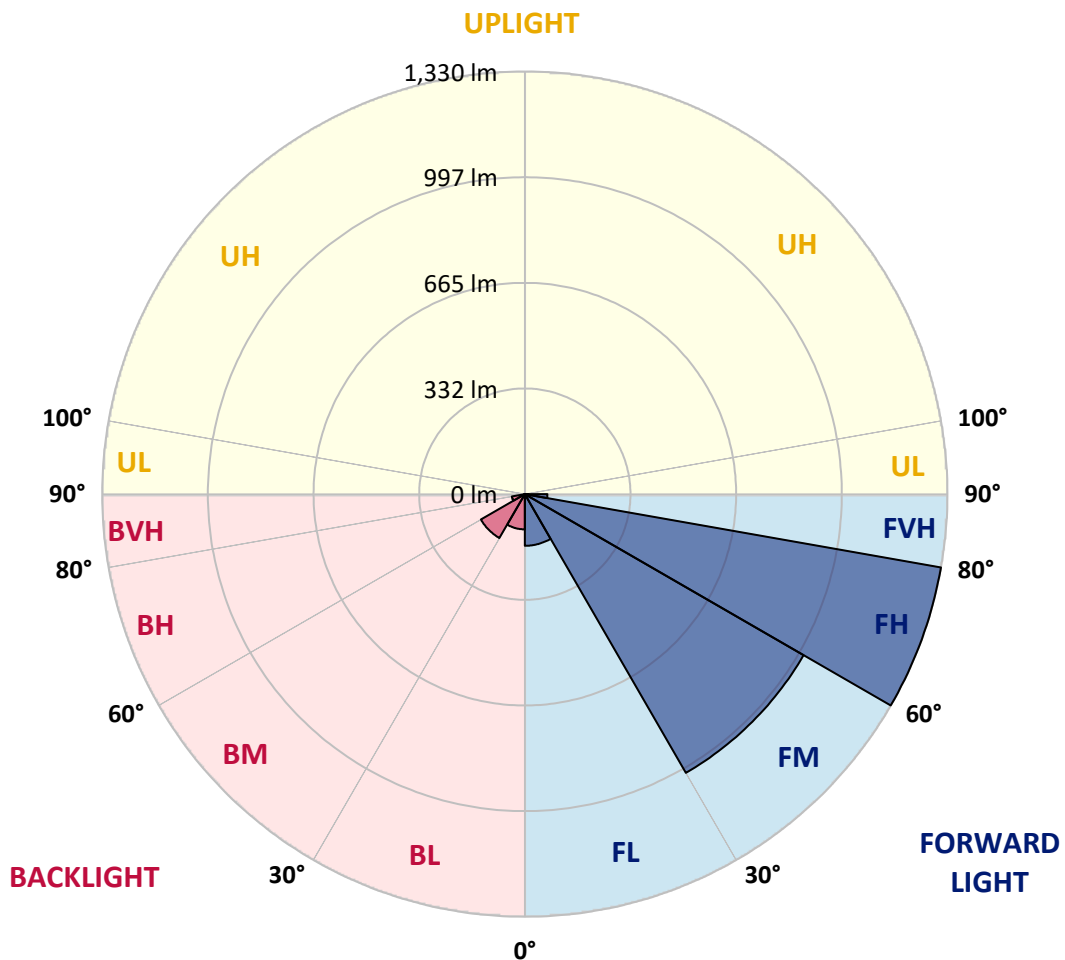
REPORT NUMBER: P676601  
 CATALOG NUMBER: CCW-SA-2A-827-U-T4FT-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	162.5	5.6			
FM (30°-60°)	1012.7	35.1			
FH (60°-80°)	1329.7	46.0			G1/1800
FVH (80°-90°)	71.2	2.5			G1/100
BL (0°-30°)	110.8	3.8	B1/500		
BM (30°-60°)	159.6	5.5	B0/220		
BH (60°-80°)	41.5	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





REPORT NUMBER: P676601

CATALOG NUMBER: CCW-SA-2A-827-U-T4FT-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3
2.5°	418.2	424.2	423.4	427.1	427.9	430.1	435.3	435.3	450.1	460.4	467.1
5°	380.5	376.8	378.3	382.7	393.8	393.1	405.6	412.3	430.1	444.9	460.4
7.5°	333.8	333.1	336.1	346.4	354.6	361.2	374.6	391.6	415.3	437.5	464.9
10°	304.2	302.8	308.7	311.6	321.3	325.7	346.4	373.1	401.2	433.0	464.9
12.5°	297.6	292.4	295.4	294.6	303.5	305.7	325.7	358.3	392.3	431.6	470.8
15°	301.3	297.6	294.6	294.6	296.8	298.3	319.8	348.6	387.1	433.8	484.1
17.5°	313.1	310.9	302.0	293.1	302.8	302.8	316.1	346.4	387.9	440.4	500.4
20°	327.2	325.0	309.4	299.1	305.7	313.1	327.2	351.6	390.1	445.6	525.6
22.5°	342.7	342.7	321.3	309.4	318.3	319.0	344.2	367.9	399.0	458.9	541.8
25°	362.0	360.5	339.8	326.4	329.4	337.5	360.5	385.7	415.3	477.4	572.2
27.5°	387.1	384.9	360.5	347.2	350.9	359.8	385.7	410.8	430.1	484.8	598.1
30°	407.9	405.6	385.7	365.7	373.8	382.0	412.3	434.5	448.6	498.9	627.7
32.5°	412.3	408.6	395.3	386.4	395.3	410.8	434.5	457.5	478.9	534.4	684.0
35°	463.4	450.1	415.3	401.2	414.5	419.7	458.9	499.7	520.4	562.6	746.9
37.5°	561.1	548.5	502.6	463.4	444.9	450.8	501.9	552.2	572.2	615.1	815.7
40°	681.0	660.3	611.4	558.9	521.1	513.7	547.0	621.1	640.3	681.0	906.0
42.5°	818.0	798.0	722.5	660.3	621.8	612.2	617.3	701.0	717.3	741.7	965.3
45°	916.4	906.0	820.9	765.4	735.0	724.7	712.1	788.3	809.1	817.2	1051.1
47.5°	973.4	966.0	918.6	880.9	840.2	829.1	837.2	909.7	895.7	902.3	1133.3
50°	1049.6	1030.4	966.0	977.8	969.7	966.7	980.8	1012.6	991.9	972.7	1222.9
52.5°	1111.1	1077.0	1031.9	1060.7	1073.3	1084.4	1134.0	1157.7	1065.2	1035.6	1280.6
55°	1148.8	1116.3	1128.1	1154.8	1168.1	1219.2	1277.6	1259.9	1113.3	1085.9	1357.6
57.5°	1182.9	1185.1	1216.9	1225.1	1293.2	1302.1	1414.6	1356.8	1147.4	1131.8	1387.9
60°	1265.0	1256.9	1282.8	1335.4	1400.5	1450.1	1557.4	1422.0	1164.4	1155.5	1379.8
62.5°	1413.1	1362.8	1371.6	1438.3	1533.8	1587.8	1639.6	1451.6	1159.9	1159.2	1355.4
65°	1601.1	1543.4	1516.7	1578.9	1702.5	1778.8	1732.1	1484.9	1130.3	1151.1	1264.3
67.5°	1757.3	1758.0	1708.4	1743.2	1904.6	1920.9	1819.5	1478.2	1080.7	1086.7	1042.2
70°	1937.2	1961.6	1917.9	2026.7	2107.4	2117.8	1919.4	1423.5	974.1	819.4	598.8
72.5°	1983.1	1995.7	2131.9	2299.1	2390.2	2393.2	2017.9	1240.6	641.0	362.0	185.8
75°	1557.4	1569.3	2051.9	2422.0	2557.5	2531.6	1853.5	805.4	249.5	105.9	44.4
77.5°	869.0	872.7	1273.9	1957.9	2169.6	2065.2	1298.4	313.9	100.7	60.7	20.7
80°	237.6	279.1	472.3	965.3	1325.0	1300.6	618.1	102.2	65.1	47.4	9.6
82.5°	57.0	61.4	151.7	427.1	700.3	730.6	184.3	51.8	45.2	39.2	5.2
85°	20.7	22.9	46.6	208.0	359.8	330.1	55.5	25.9	33.3	30.3	2.2
87.5°	7.4	7.4	14.8	68.1	105.1	79.2	18.5	8.9	17.0	18.5	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



REPORT NUMBER: P676601

CATALOG NUMBER: CCW-SA-2A-827-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3
2.5°	467.8	467.8	478.2	487.1	490.0	493.7	490.0	498.2	497.4	493.7	495.2
5°	468.6	481.9	490.8	496.7	499.7	498.9	500.4	491.5	486.3	482.6	478.9
7.5°	472.3	484.8	501.1	499.7	491.5	474.5	461.2	437.5	414.5	413.8	410.1
10°	484.8	496.0	505.6	499.7	470.0	418.2	376.0	344.2	315.3	302.0	303.5
12.5°	493.7	514.5	510.0	479.7	418.2	350.1	287.9	241.3	215.4	191.0	191.0
15°	512.2	519.6	518.2	450.8	354.6	273.1	197.6	150.3	122.9	111.8	110.3
17.5°	530.0	538.1	513.0	407.1	291.6	183.6	119.9	93.3	89.6	88.1	88.8
20°	552.2	552.9	508.5	363.5	219.1	116.2	85.9	83.6	84.4	83.6	83.6
22.5°	575.9	581.1	493.0	302.0	145.8	84.4	79.9	80.7	80.7	80.7	82.9
25°	607.0	598.8	468.6	243.5	95.5	77.7	77.7	78.5	78.5	78.5	79.2
27.5°	627.7	616.6	437.5	175.4	74.8	73.3	74.8	74.8	76.2	76.2	76.2
30°	670.6	641.8	398.2	113.3	67.4	69.6	71.1	72.5	73.3	74.8	75.5
32.5°	704.0	664.0	349.4	75.5	61.4	62.9	66.6	69.6	72.5	71.8	71.8
35°	764.7	700.3	304.2	60.0	56.3	56.3	60.0	65.1	69.6	71.1	71.1
37.5°	834.2	729.9	241.3	54.8	51.8	51.8	54.0	60.0	65.9	68.8	67.4
40°	892.0	763.9	178.4	51.1	48.1	48.1	49.6	54.0	60.7	65.9	66.6
42.5°	932.7	789.1	120.7	47.4	45.2	44.4	46.6	48.9	54.0	61.4	62.9
45°	969.7	802.4	74.8	43.7	42.2	42.2	42.2	44.4	48.1	54.8	56.3
47.5°	1035.6	817.2	54.0	40.7	38.5	39.2	40.0	40.7	43.7	45.2	45.9
50°	1091.1	828.3	44.4	37.8	36.3	37.0	37.0	37.0	38.5	36.3	36.3
52.5°	1133.3	817.2	37.8	34.8	33.3	34.1	33.3	33.3	31.8	28.9	28.9
55°	1164.4	797.2	30.3	31.8	31.8	31.8	30.3	28.1	25.2	22.9	22.9
57.5°	1172.5	763.2	23.7	26.6	28.9	28.9	25.9	22.9	19.2	17.0	16.3
60°	1159.9	689.2	17.8	19.2	22.2	22.9	20.7	17.0	13.3	11.1	11.1
62.5°	1114.8	630.7	14.1	12.6	16.3	17.0	14.8	11.1	7.4	5.2	4.4
65°	1028.9	540.4	10.4	8.9	11.1	11.8	9.6	5.2	2.2	0.7	0.0
67.5°	825.4	407.1	6.7	5.9	7.4	7.4	4.4	1.5	0.0	0.0	0.0
70°	456.7	228.7	4.4	3.0	3.7	2.2	0.7	0.0	0.0	0.0	0.0
72.5°	131.8	65.1	2.2	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	35.5	15.5	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	15.5	5.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.7	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)