

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: P676536

Luminaire Tested: **CCW-SA-2B-727-U-T4FT-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676536  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2B-727-U-T4FT-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/  
T4FT distribution lens and House Side Shield  
Light Source: (32) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

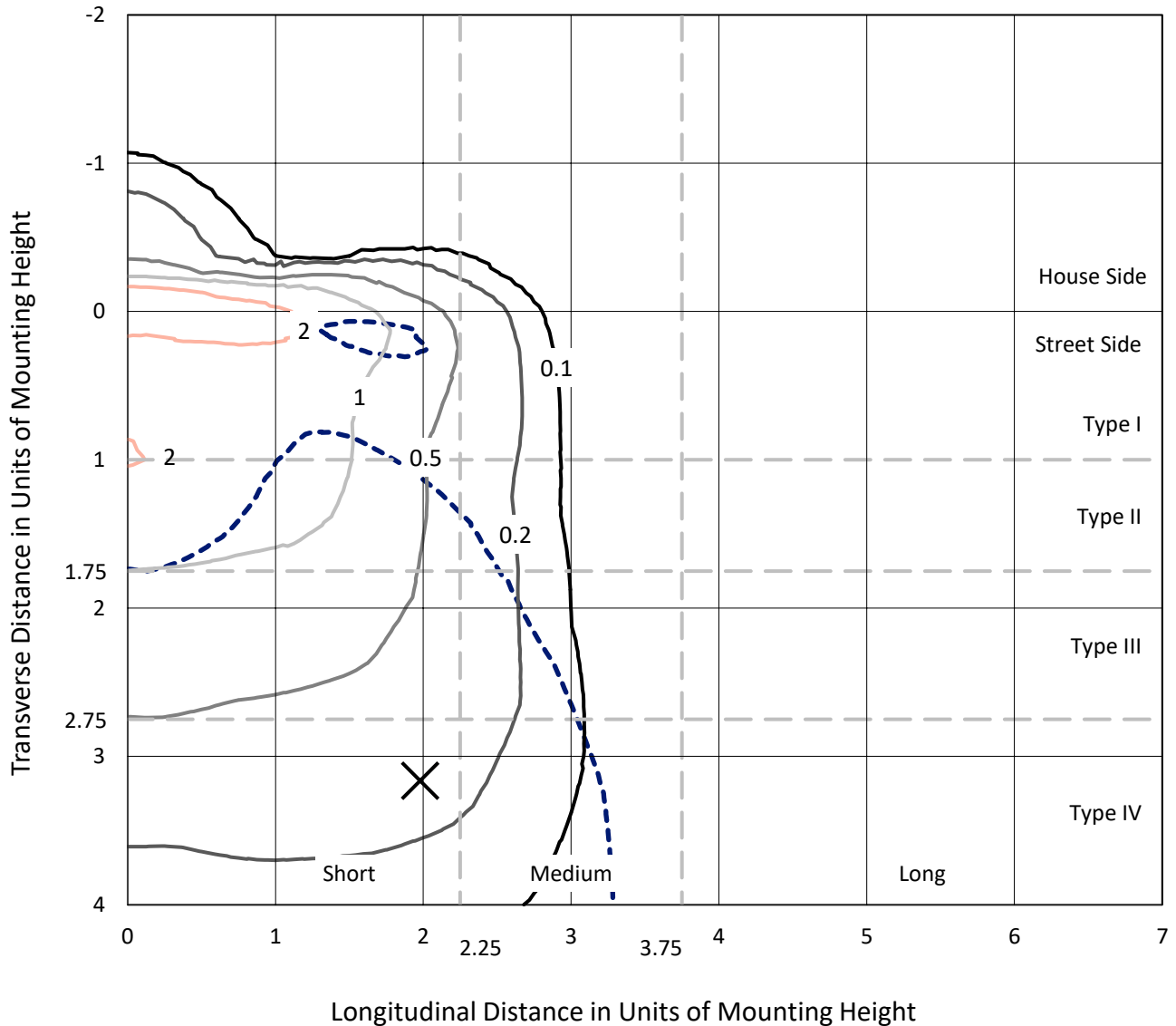
Lumens per Lamp: N/A  
Luminaire Lumens: 4147.2 lumens  
Efficiency: N/A  
Efficacy: 90.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 46  
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

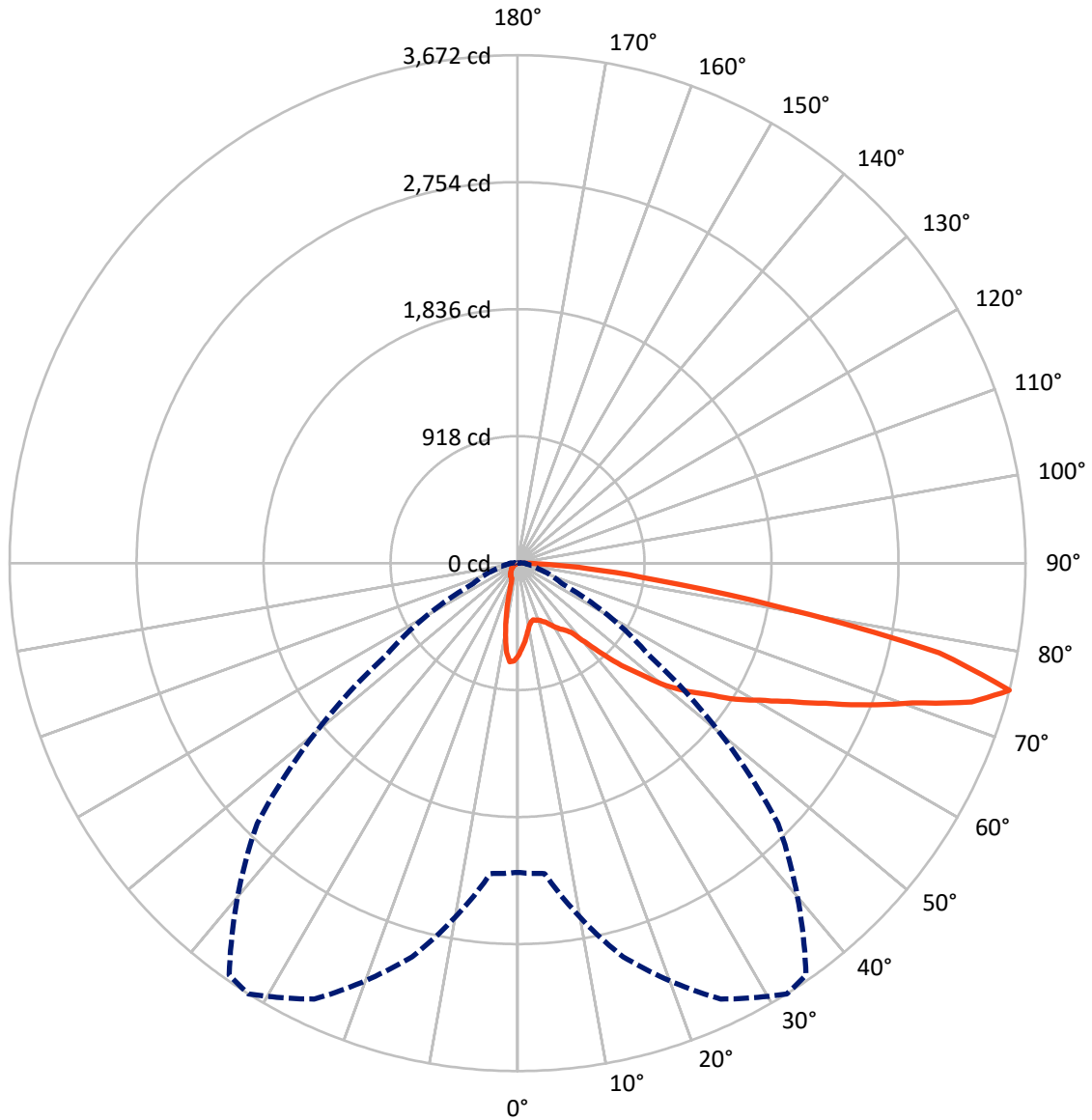
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3 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	448.0	0.0	448.0
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	3699.2	0.0	3699.2
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	4147.2	0.0	4147.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.9	1.4
10°-20°	133.6	3.2
20°-30°	200.0	4.8
30°-40°	307.1	7.4
40°-50°	537.0	12.9
50°-60°	839.4	20.2
60°-70°	1085.2	26.2
70°-80°	883.8	21.3
80°-90°	102.3	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°	4147.2	100.0
0°-180°	4147.2	100.0



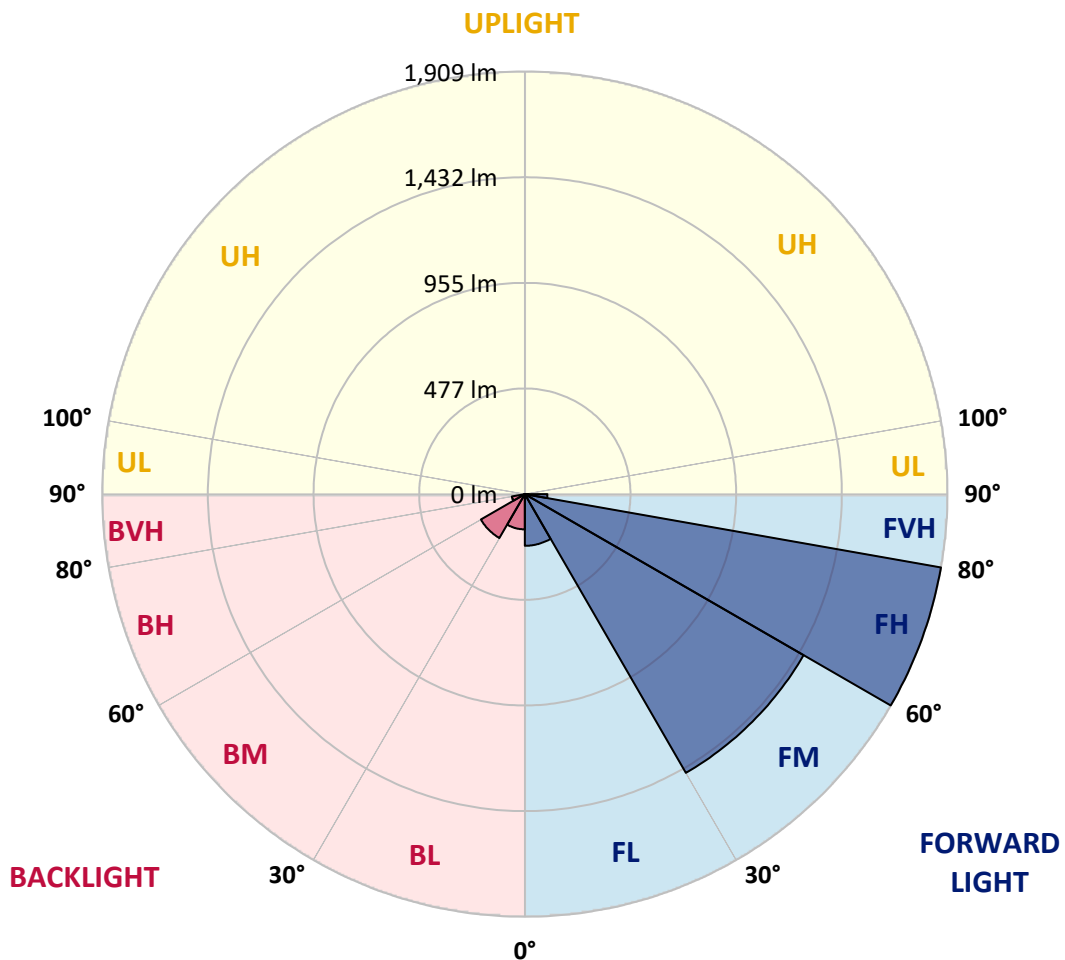
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	233.3	5.6			
FM (30°-60°)	1454.2	35.1			
FH (60°-80°)	1909.4	46.0			G2/5000
FVH (80°-90°)	102.2	2.5			G2/225
BL (0°-30°)	159.2	3.8	B1/500		
BM (30°-60°)	229.2	5.5	B1/1000		
BH (60°-80°)	59.6	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-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	669.6	669.6	669.6	669.6	669.6	669.6	669.6	669.6	669.6	669.6	669.6
2.5°	600.6	609.1	608.0	613.3	614.4	617.6	625.0	625.0	646.3	661.1	670.7
5°	546.3	541.0	543.2	549.5	565.5	564.4	582.5	592.0	617.6	638.8	661.1
7.5°	479.4	478.3	482.6	497.4	509.1	518.7	537.8	562.3	596.3	628.2	667.5
10°	436.9	434.7	443.2	447.5	461.3	467.7	497.4	535.7	576.1	621.8	667.5
12.5°	427.3	419.9	424.1	423.0	435.8	439.0	467.7	514.5	563.4	619.7	676.0
15°	432.6	427.3	423.0	423.0	426.2	428.4	459.2	500.6	555.9	622.9	695.2
17.5°	449.6	446.4	433.7	420.9	434.7	434.7	453.9	497.4	557.0	632.4	718.5
20°	469.8	466.6	444.3	429.4	439.0	449.6	469.8	504.9	560.2	639.9	754.7
22.5°	492.1	492.1	461.3	444.3	457.1	458.1	494.3	528.3	572.9	659.0	778.1
25°	519.8	517.6	487.9	468.8	473.0	484.7	517.6	553.8	596.3	685.6	821.6
27.5°	555.9	552.7	517.6	498.5	503.8	516.6	553.8	589.9	617.6	696.2	858.8
30°	585.7	582.5	553.8	525.1	536.8	548.5	592.0	623.9	644.1	716.4	901.4
32.5°	592.0	586.7	567.6	554.8	567.6	589.9	623.9	656.9	687.7	767.4	982.1
35°	665.4	646.3	596.3	576.1	595.2	602.7	659.0	717.5	747.2	807.8	1072.5
37.5°	805.7	787.6	721.7	665.4	638.8	647.3	720.7	792.9	821.6	883.3	1171.3
40°	977.9	948.1	878.0	802.5	748.3	737.7	785.5	891.8	919.4	977.9	1301.0
42.5°	1174.5	1145.8	1037.4	948.1	892.9	879.0	886.5	1006.6	1030.0	1065.1	1386.1
45°	1315.9	1301.0	1178.8	1099.1	1055.5	1040.6	1022.5	1132.0	1161.8	1173.5	1509.4
47.5°	1397.7	1387.1	1319.1	1264.9	1206.4	1190.5	1202.2	1306.3	1286.1	1295.7	1627.3
50°	1507.2	1479.6	1387.1	1404.1	1392.4	1388.2	1408.4	1454.1	1424.3	1396.7	1756.0
52.5°	1595.5	1546.6	1481.7	1523.2	1541.2	1557.2	1628.4	1662.4	1529.6	1487.0	1838.9
55°	1649.7	1602.9	1619.9	1658.2	1677.3	1750.6	1834.6	1809.1	1598.6	1559.3	1949.4
57.5°	1698.6	1701.7	1747.5	1759.1	1856.9	1869.7	2031.3	1948.3	1647.5	1625.2	1993.0
60°	1816.5	1804.8	1842.1	1917.5	2011.1	2082.3	2236.4	2041.9	1672.0	1659.2	1981.3
62.5°	2029.1	1956.8	1969.6	2065.3	2202.4	2280.0	2354.4	2084.4	1665.6	1664.5	1946.2
65°	2299.1	2216.2	2177.9	2267.2	2444.7	2554.2	2487.2	2132.2	1623.1	1652.9	1815.5
67.5°	2523.4	2524.5	2453.2	2503.2	2734.9	2758.3	2612.7	2122.7	1551.9	1560.4	1496.6
70°	2781.7	2816.8	2754.0	2910.3	3026.2	3041.0	2756.2	2044.0	1398.8	1176.7	859.9
72.5°	2847.6	2865.6	3061.2	3301.4	3432.2	3436.4	2897.5	1781.5	920.5	519.8	266.8
75°	2236.4	2253.4	2946.4	3477.9	3672.4	3635.2	2661.6	1156.5	358.2	152.0	63.8
77.5°	1247.9	1253.2	1829.3	2811.4	3115.4	2965.6	1864.4	450.7	144.6	87.2	29.8
80°	341.2	400.7	678.1	1386.1	1902.6	1867.6	887.5	146.7	93.5	68.0	13.8
82.5°	81.8	88.2	217.9	613.3	1005.5	1049.1	264.7	74.4	64.8	56.3	7.4
85°	29.8	33.0	67.0	298.7	516.6	474.1	79.7	37.2	47.8	43.6	3.2
87.5°	10.6	10.6	21.3	97.8	150.9	113.7	26.6	12.8	24.4	26.6	1.1
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°	669.6	669.6	669.6	669.6	669.6	669.6	669.6	669.6	669.6	669.6	669.6
2.5°	671.8	671.8	686.7	699.4	703.7	709.0	703.7	715.3	714.3	709.0	711.1
5°	672.8	692.0	704.7	713.2	717.5	716.4	718.5	705.8	698.3	693.0	687.7
7.5°	678.1	696.2	719.6	717.5	705.8	681.3	662.2	628.2	595.2	594.2	588.9
10°	696.2	712.2	726.0	717.5	675.0	600.6	540.0	494.3	452.8	433.7	435.8
12.5°	709.0	738.7	732.4	688.8	600.6	502.8	413.5	346.5	309.3	274.2	274.2
15°	735.5	746.2	744.0	647.3	509.1	392.2	283.8	215.8	176.4	160.5	158.4
17.5°	761.1	772.7	736.6	584.6	418.8	263.6	172.2	133.9	128.6	126.5	127.6
20°	792.9	794.0	730.2	521.9	314.6	166.9	123.3	120.1	121.2	120.1	120.1
22.5°	827.0	834.4	707.9	433.7	209.4	121.2	114.8	115.9	115.9	115.9	119.0
25°	871.6	859.9	672.8	349.7	137.1	111.6	111.6	112.7	112.7	112.7	113.7
27.5°	901.4	885.4	628.2	251.9	107.4	105.2	107.4	107.4	109.5	109.5	109.5
30°	963.0	921.6	571.9	162.6	96.7	99.9	102.0	104.2	105.2	107.4	108.4
32.5°	1010.8	953.4	501.7	108.4	88.2	90.3	95.7	99.9	104.2	103.1	103.1
35°	1098.0	1005.5	436.9	86.1	80.8	80.8	86.1	93.5	99.9	102.0	102.0
37.5°	1197.9	1048.0	346.5	78.7	74.4	74.4	77.6	86.1	94.6	98.9	96.7
40°	1280.8	1096.9	256.2	73.3	69.1	69.1	71.2	77.6	87.2	94.6	95.7
42.5°	1339.3	1133.1	173.3	68.0	64.8	63.8	67.0	70.2	77.6	88.2	90.3
45°	1392.4	1152.2	107.4	62.7	60.6	60.6	60.6	63.8	69.1	78.7	80.8
47.5°	1487.0	1173.5	77.6	58.5	55.3	56.3	57.4	58.5	62.7	64.8	65.9
50°	1566.8	1189.4	63.8	54.2	52.1	53.1	53.1	53.1	55.3	52.1	52.1
52.5°	1627.3	1173.5	54.2	50.0	47.8	48.9	47.8	47.8	45.7	41.5	41.5
55°	1672.0	1144.8	43.6	45.7	45.7	45.7	43.6	40.4	36.1	33.0	33.0
57.5°	1683.7	1095.9	34.0	38.3	41.5	41.5	37.2	33.0	27.6	24.4	23.4
60°	1665.6	989.6	25.5	27.6	31.9	33.0	29.8	24.4	19.1	15.9	15.9
62.5°	1600.8	905.6	20.2	18.1	23.4	24.4	21.3	15.9	10.6	7.4	6.4
65°	1477.5	775.9	14.9	12.8	15.9	17.0	13.8	7.4	3.2	1.1	0.0
67.5°	1185.2	584.6	9.6	8.5	10.6	10.6	6.4	2.1	0.0	0.0	0.0
70°	655.8	328.4	6.4	4.3	5.3	3.2	1.1	0.0	0.0	0.0	0.0
72.5°	189.2	93.5	3.2	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	51.0	22.3	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	22.3	8.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	9.6	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	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)