

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: P677098

Luminaire Tested: **CCW-SA-1E-722-U-SL4-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677098  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1E-722-U-SL4-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/  
SL4 distribution lens and House Side Shield  
Light Source: (16) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

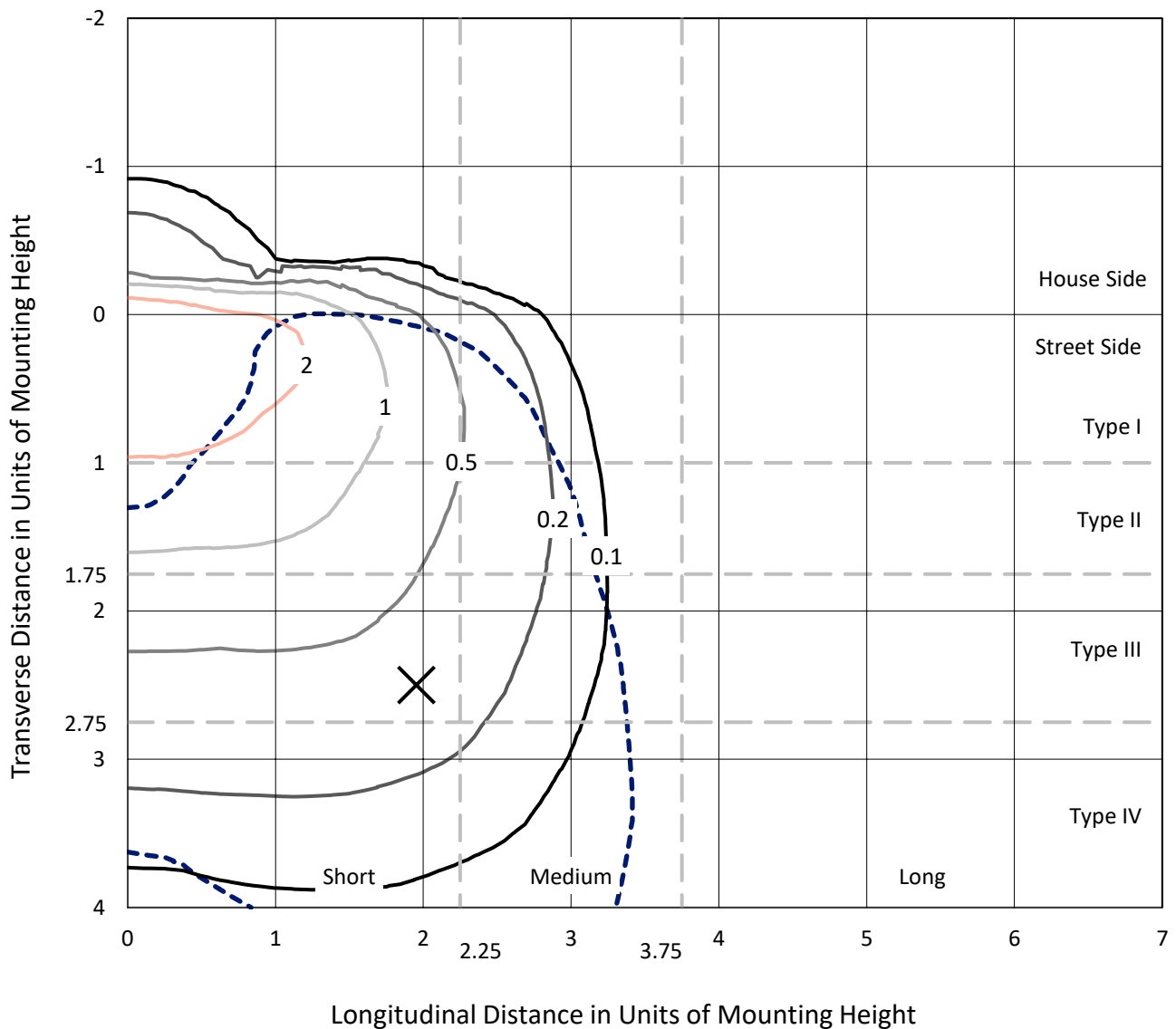
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4160 lumens  
Efficiency: N/A  
Efficacy: 74.2 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): 56.1  
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

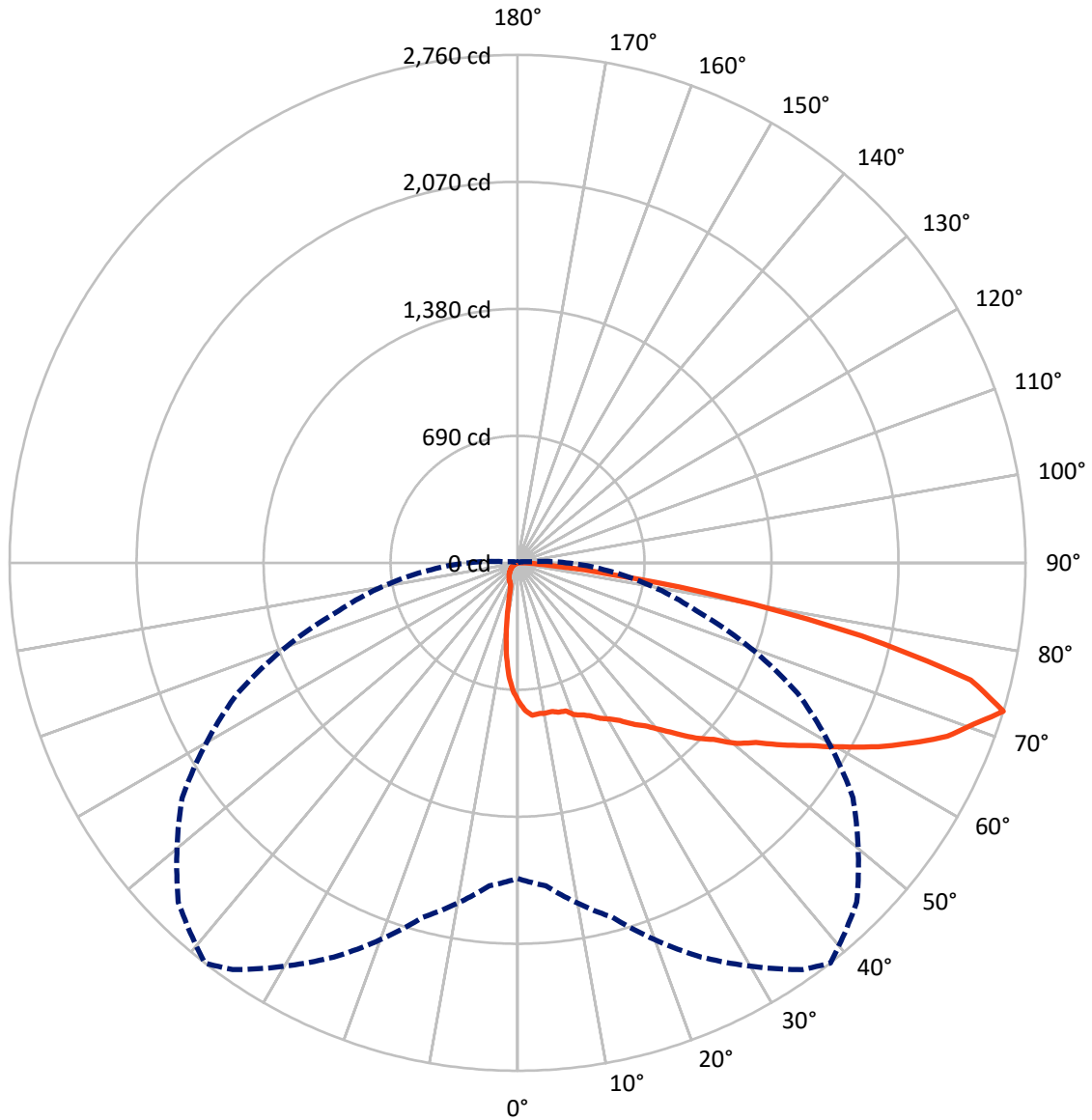
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	348.4	0.0	348.4
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	3811.6	0.0	3811.6
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	4160.0	0.0	4160.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.8	1.6
10°-20°	161.2	3.9
20°-30°	258.5	6.2
30°-40°	390.2	9.4
40°-50°	593.9	14.3
50°-60°	836.1	20.1
60°-70°	1021.3	24.6
70°-80°	741.6	17.8
80°-90°	91.3	2.2
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°	4160.0	100.0
0°-180°	4160.0	100.0

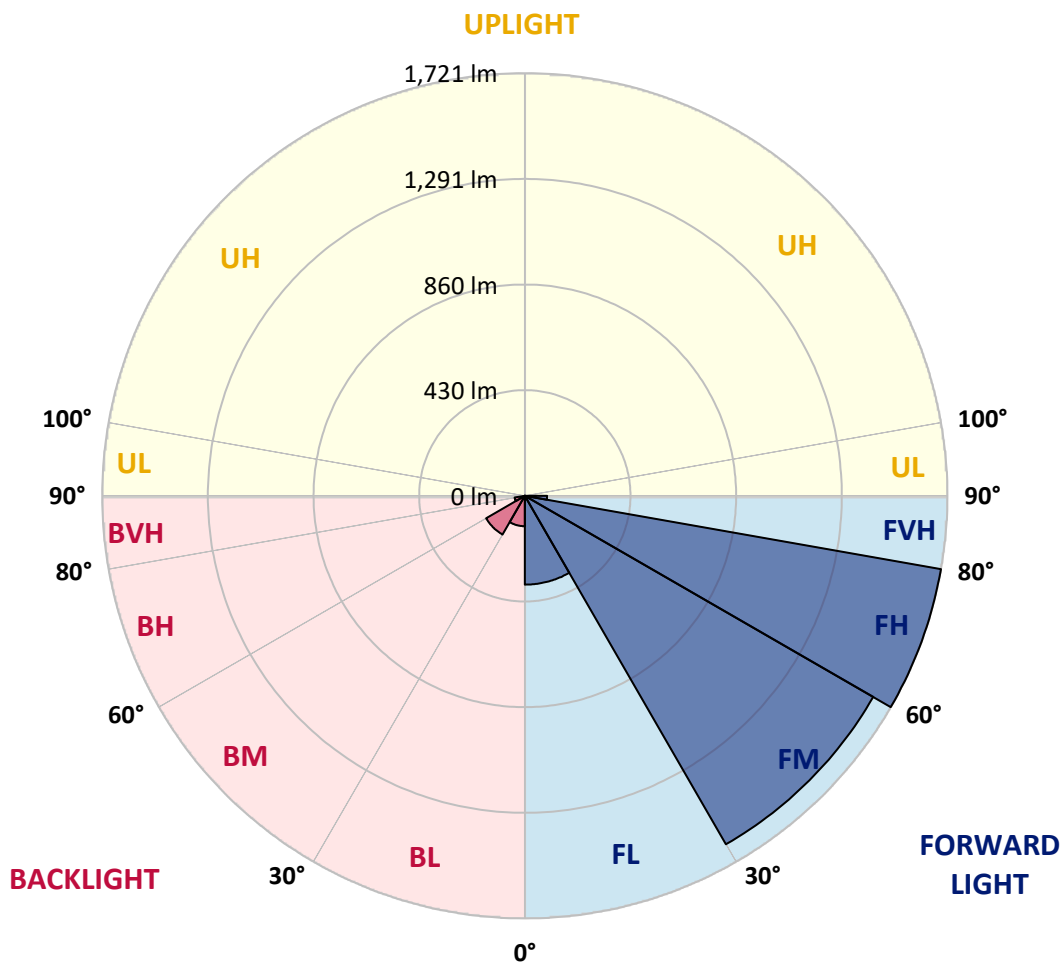


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	361.8	8.7			
FM (30°-60°)	1638.2	39.4			
FH (60°-80°)	1720.7	41.4			G1/1800
FVH (80°-90°)	90.9	2.2			G1/100
BL (0°-30°)	123.7	3.0	B1/500		
BM (30°-60°)	182.0	4.4	B0/220		
BH (60°-80°)	42.3	1.0	B0/110		G0/110
BVH (80°-90°)	0.5	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°	35°	38°	45°	55°	65°	75°	85°
0°	752.3	752.3	752.3	752.3	752.3	752.3	752.3	752.3	752.3	752.3	752.3
2.5°	826.4	826.4	834.3	826.4	823.5	805.0	806.0	796.2	786.4	772.8	760.1
5°	836.2	843.0	847.9	841.1	830.3	832.3	839.1	820.6	794.2	777.7	749.4
7.5°	832.3	846.9	843.0	839.1	832.3	827.4	817.7	809.9	797.2	781.6	748.4
10°	829.4	834.3	835.2	832.3	817.7	831.3	820.6	807.9	792.3	773.8	732.8
12.5°	818.6	818.6	827.4	820.6	822.5	829.4	824.5	821.6	805.0	789.4	753.3
15°	806.9	810.8	824.5	835.2	845.0	842.1	839.1	830.3	815.7	798.1	760.1
17.5°	809.9	811.8	833.3	852.8	847.9	846.0	861.6	843.0	828.4	808.9	766.0
20°	820.6	826.4	850.8	876.2	881.1	881.1	875.2	864.5	844.0	817.7	776.7
22.5°	831.3	833.3	873.3	905.5	910.4	897.7	902.6	871.3	851.8	837.2	787.4
25°	872.3	868.4	911.3	936.7	933.8	921.1	916.2	888.9	881.1	854.7	810.8
27.5°	927.9	911.3	953.3	968.9	953.3	957.2	943.5	914.3	897.7	882.1	821.6
30°	962.1	971.8	994.3	1009.9	983.5	984.5	977.7	945.5	920.1	924.0	857.7
32.5°	1014.8	1021.6	1038.2	1045.0	1024.5	1022.6	1015.7	990.4	971.8	967.9	906.5
35°	1071.4	1084.0	1085.0	1087.0	1068.4	1076.2	1066.5	1030.4	1040.1	1047.0	965.0
37.5°	1127.0	1115.3	1134.8	1143.6	1123.1	1123.1	1126.0	1101.6	1119.2	1139.7	1047.9
40°	1148.4	1153.3	1187.5	1180.6	1205.0	1190.4	1201.1	1195.3	1209.9	1256.7	1165.0
42.5°	1170.9	1176.7	1222.6	1235.3	1264.6	1269.4	1285.0	1286.0	1328.9	1406.0	1277.2
45°	1213.8	1204.1	1266.5	1297.7	1345.5	1359.2	1377.7	1393.3	1460.7	1551.4	1405.1
47.5°	1252.8	1239.2	1310.4	1372.9	1431.4	1434.3	1485.1	1501.7	1581.7	1685.1	1531.9
50°	1307.5	1312.4	1342.6	1449.9	1509.5	1543.6	1578.7	1633.4	1722.2	1832.4	1623.6
52.5°	1364.1	1359.2	1409.9	1515.3	1609.0	1621.7	1700.7	1762.2	1858.8	1941.7	1664.6
55°	1433.4	1439.2	1458.7	1597.3	1716.3	1746.6	1835.4	1899.8	2005.1	1988.5	1678.3
57.5°	1502.6	1496.8	1540.7	1689.0	1851.0	1873.4	1991.5	2029.5	2100.8	2019.8	1644.1
60°	1570.9	1581.7	1600.2	1792.4	1998.3	2031.5	2125.1	2144.7	2160.3	2034.4	1617.8
62.5°	1649.0	1623.6	1681.2	1901.7	2131.0	2200.3	2274.4	2197.4	2183.7	2008.1	1557.3
65°	1688.0	1695.8	1771.0	2026.6	2307.6	2358.3	2368.1	2268.6	2198.3	1949.5	1500.7
67.5°	1748.5	1759.2	1854.9	2154.4	2489.1	2517.4	2482.3	2333.0	2185.6	1873.4	1296.7
70°	1756.3	1782.7	1967.1	2288.1	2603.3	2627.6	2600.3	2375.9	2083.2	1573.9	960.1
72.5°	1715.3	1762.2	1994.4	2364.2	2698.9	2760.3	2607.2	2224.7	1679.2	1004.0	491.8
75°	1295.8	1334.8	1825.6	2251.0	2529.1	2543.7	2289.1	1697.8	956.2	342.5	125.9
77.5°	671.3	738.6	1218.7	1720.2	1927.1	1911.5	1593.4	1000.1	328.8	89.8	50.7
80°	385.4	402.0	532.8	966.0	1211.9	1152.3	881.1	431.3	144.4	44.9	33.2
82.5°	190.3	213.7	286.9	432.2	605.9	498.6	330.8	258.6	81.0	24.4	29.3
85°	41.0	42.9	146.4	206.9	245.9	162.0	113.2	217.6	29.3	14.6	28.3
87.5°	29.3	28.3	41.0	92.7	68.3	42.0	67.3	114.2	6.8	6.8	5.9
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°	752.3	752.3	752.3	752.3	752.3	752.3	752.3	752.3	752.3	752.3	752.3
2.5°	752.3	743.5	733.8	715.2	710.3	707.4	690.8	689.8	686.9	680.1	677.2
5°	731.8	717.2	698.6	679.1	663.5	635.2	601.1	583.5	562.0	563.0	556.2
7.5°	728.9	701.6	675.2	634.2	584.5	531.8	479.1	444.9	420.5	405.9	408.8
10°	715.2	694.7	651.8	575.7	495.7	415.7	348.3	297.6	268.3	245.9	252.7
12.5°	721.1	681.1	620.6	519.1	404.9	306.4	222.5	173.7	152.2	144.4	146.4
15°	717.2	681.1	602.0	457.6	318.1	207.8	144.4	128.8	124.9	124.9	122.9
17.5°	728.9	688.9	570.8	397.1	228.3	138.6	123.9	121.0	118.1	118.1	118.1
20°	745.5	692.8	549.3	329.8	161.0	122.0	116.1	114.2	113.2	113.2	112.2
22.5°	746.4	688.9	509.3	255.6	123.9	115.1	110.3	109.3	109.3	107.3	107.3
25°	752.3	692.8	466.4	192.2	115.1	108.3	104.4	103.4	104.4	103.4	102.5
27.5°	766.9	699.6	423.5	140.5	108.3	102.5	99.5	98.5	98.5	98.5	96.6
30°	785.5	699.6	375.7	116.1	102.5	96.6	93.7	92.7	91.7	91.7	91.7
32.5°	824.5	722.0	317.1	103.4	94.6	89.8	86.8	86.8	85.9	85.9	84.9
35°	873.3	737.7	257.6	95.6	87.8	82.9	80.0	80.0	79.0	79.0	78.1
37.5°	933.8	776.7	197.1	89.8	81.0	76.1	73.2	73.2	73.2	72.2	72.2
40°	1019.6	816.7	146.4	82.0	74.2	69.3	67.3	66.3	65.4	65.4	63.4
42.5°	1111.4	878.2	109.3	76.1	68.3	64.4	61.5	58.5	58.5	55.6	55.6
45°	1210.9	931.8	88.8	69.3	62.4	57.6	54.6	52.7	49.8	47.8	47.8
47.5°	1308.5	965.0	78.1	61.5	56.6	52.7	49.8	45.9	42.0	41.0	40.0
50°	1387.5	974.8	69.3	55.6	51.7	47.8	43.9	39.0	35.1	33.2	32.2
52.5°	1387.5	921.1	62.4	49.8	46.8	42.9	38.1	32.2	27.3	25.4	24.4
55°	1387.5	836.2	55.6	45.9	42.0	39.0	32.2	26.3	21.5	18.5	17.6
57.5°	1367.0	733.8	49.8	41.0	37.1	33.2	27.3	20.5	15.6	12.7	12.7
60°	1310.4	626.4	42.9	36.1	32.2	27.3	21.5	14.6	9.8	6.8	6.8
62.5°	1238.2	498.6	37.1	30.2	26.3	22.4	16.6	9.8	3.9	2.0	2.0
65°	1112.3	367.9	32.2	25.4	20.5	16.6	10.7	3.9	0.0	0.0	0.0
67.5°	918.2	245.9	25.4	20.5	17.6	11.7	6.8	1.0	0.0	0.0	0.0
70°	645.9	139.5	19.5	14.6	12.7	7.8	2.0	0.0	0.0	0.0	0.0
72.5°	265.4	61.5	13.7	10.7	8.8	3.9	0.0	0.0	0.0	0.0	0.0
75°	72.2	27.3	8.8	5.9	4.9	1.0	0.0	0.0	0.0	0.0	0.0
77.5°	42.0	18.5	3.9	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	33.2	8.8	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	33.2	4.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.3	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	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)