

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: P676864

Luminaire Tested: **CCW-SA-1D-750-U-SL2-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676864  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1D-750-U-SL2-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/  
SL2 distribution lens and House Side Shield  
Light Source: (16) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

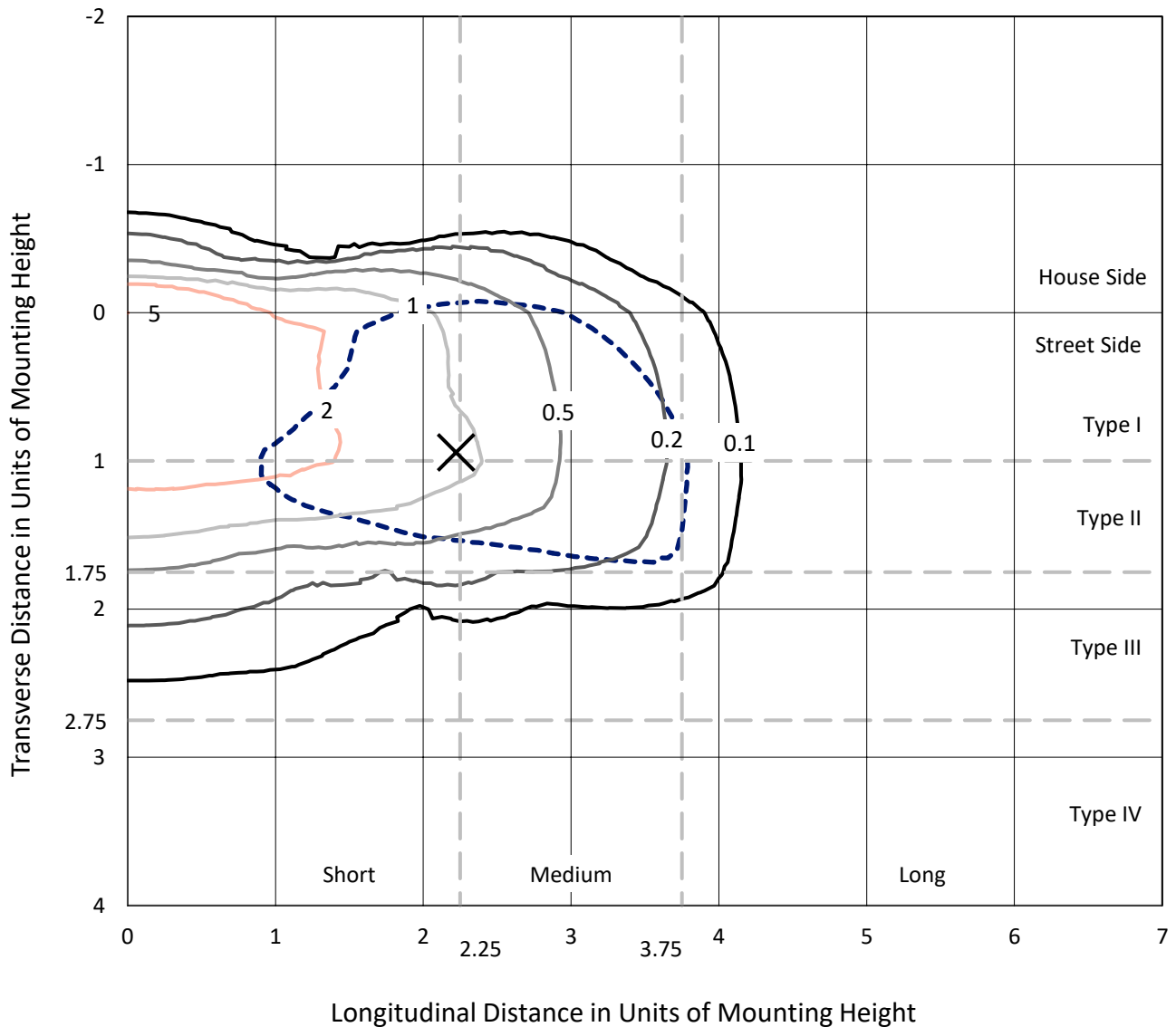
Lumens per Lamp: N/A  
Luminaire Lumens: 4587.4 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

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

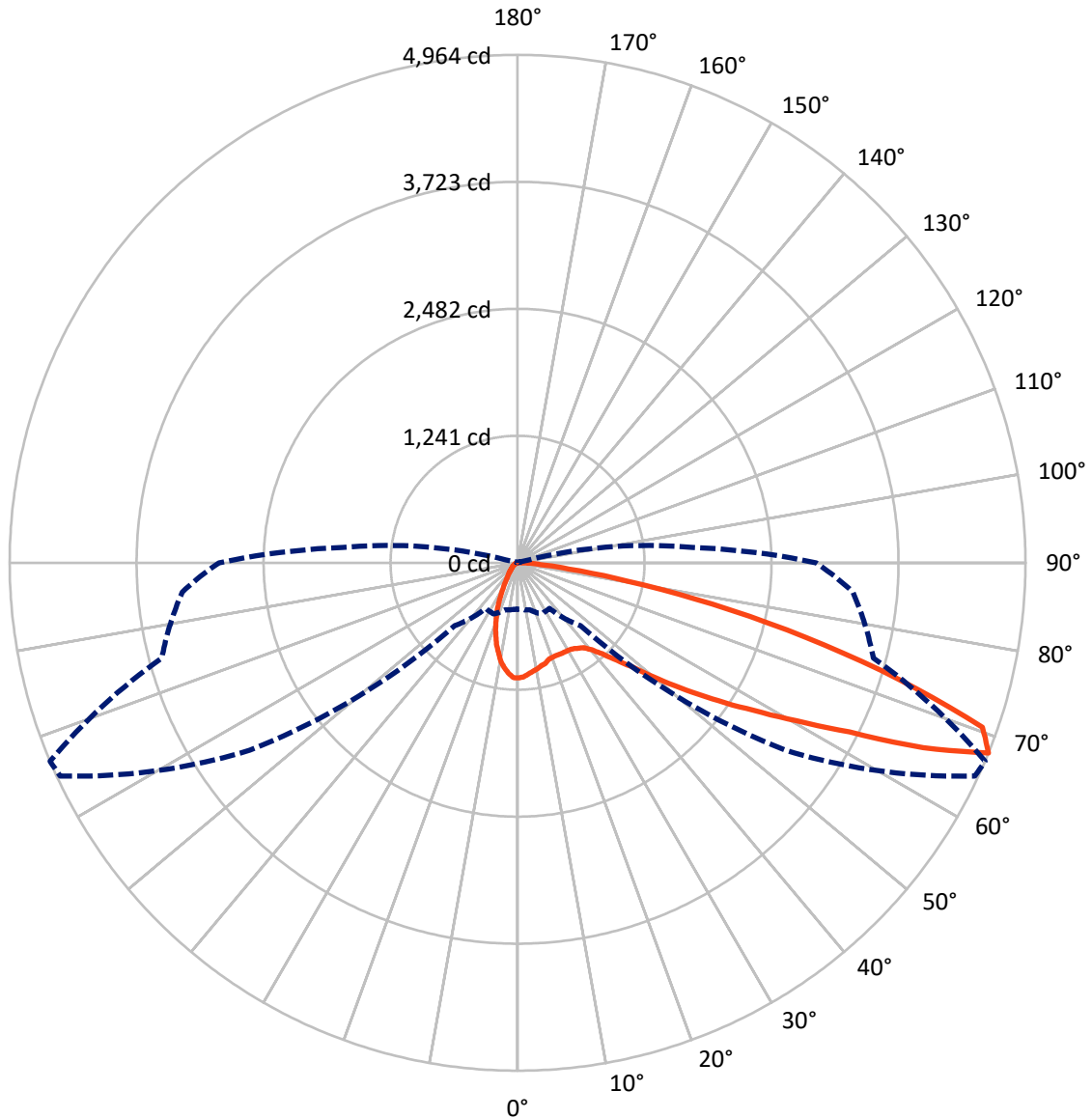
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	577.3	0.0	577.3
	% Fixture	12.6	0.0	12.6
<b>Street Side</b>	Lumens	4010.0	0.0	4010.0
	% Fixture	87.4	0.0	87.4
<b>Total</b>	Lumens	4587.4	0.0	4587.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.8	2.1
10°-20°	210.6	4.6
20°-30°	299.5	6.5
30°-40°	436.1	9.5
40°-50°	674.9	14.7
50°-60°	1035.8	22.6
60°-70°	1122.8	24.5
70°-80°	633.4	13.8
80°-90°	79.6	1.7
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°	4587.4	100.0
0°-180°	4587.4	100.0

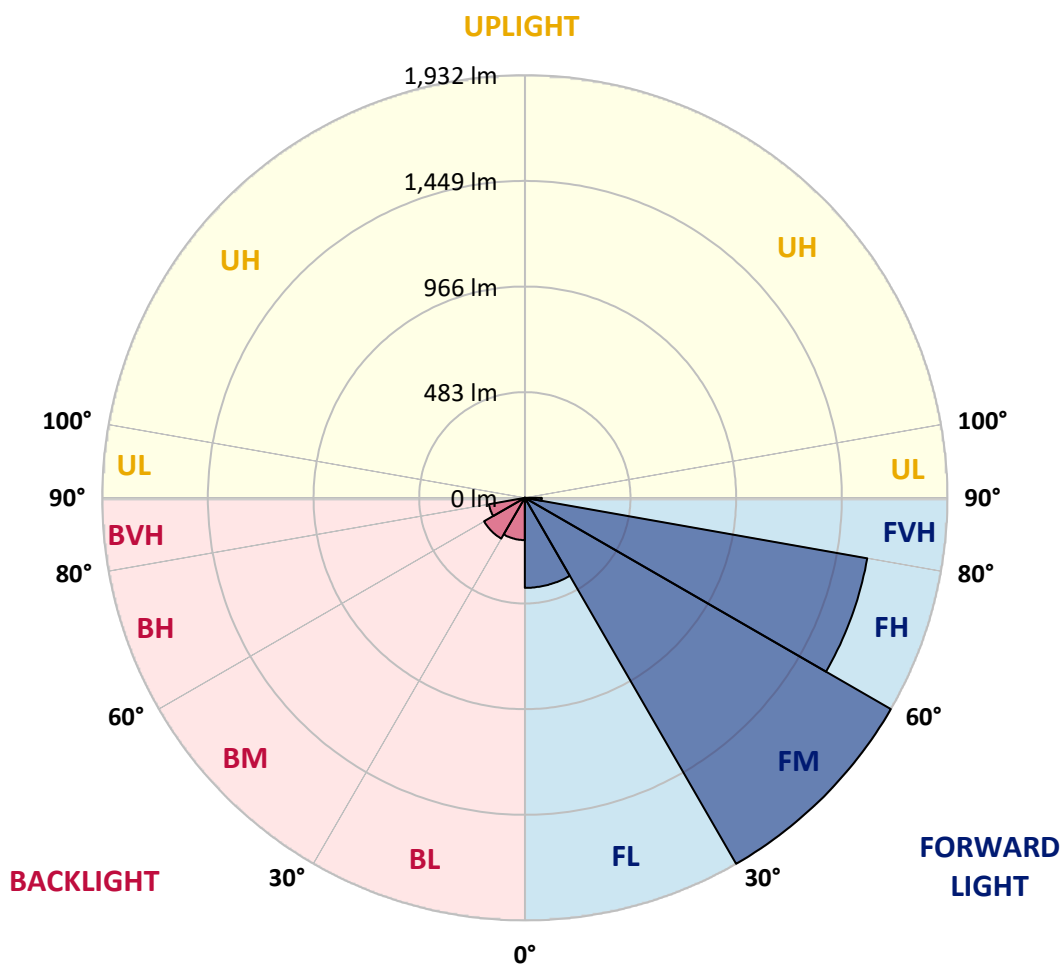


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	411.6	9.0			
FM (30°-60°)	1931.7	42.1			
FH (60°-80°)	1589.4	34.6			G1/1800
FVH (80°-90°)	77.3	1.7			G1/100
BL (0°-30°)	193.3	4.2	B1/500		
BM (30°-60°)	215.0	4.7	B0/220		
BH (60°-80°)	166.8	3.6	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2
2.5°	1076.6	1082.1	1089.8	1100.9	1108.6	1104.2	1107.5	1126.3	1116.4	1125.2	1120.8
5°	1016.9	1022.4	1033.5	1032.4	1041.2	1057.8	1079.9	1104.2	1093.1	1119.7	1129.6
7.5°	955.0	952.8	952.8	976.0	994.8	1018.0	1030.1	1069.9	1071.0	1094.3	1118.6
10°	898.6	905.2	916.3	925.1	942.8	976.0	1011.4	1042.3	1054.5	1100.9	1107.5
12.5°	864.4	867.7	880.9	888.7	911.9	943.9	981.5	1021.3	1031.3	1078.8	1110.8
15°	850.0	857.7	862.1	876.5	888.7	918.5	946.1	991.5	1020.2	1057.8	1097.6
17.5°	861.0	857.7	859.9	864.4	878.7	905.2	935.1	980.4	990.4	1053.4	1113.0
20°	875.4	876.5	869.9	867.7	864.4	889.8	914.1	972.7	983.7	1053.4	1123.0
22.5°	914.1	901.9	914.1	896.4	878.7	889.8	913.0	973.8	981.5	1052.3	1132.9
25°	961.6	963.8	967.1	929.6	904.1	896.4	920.7	977.1	983.7	1061.1	1137.4
27.5°	1029.0	1039.0	1022.4	1003.6	952.8	914.1	919.6	974.9	987.0	1056.7	1148.4
30°	1119.7	1111.9	1114.1	1071.0	1021.3	960.5	945.0	980.4	989.3	1062.2	1169.4
32.5°	1198.2	1189.3	1204.8	1189.3	1110.8	1026.8	974.9	991.5	1001.4	1075.5	1187.1
35°	1246.8	1257.8	1282.2	1298.7	1232.4	1113.0	1024.6	1021.3	1025.7	1082.1	1200.4
37.5°	1321.9	1341.8	1361.7	1403.7	1346.3	1219.2	1103.1	1060.0	1052.3	1114.1	1207.0
40°	1403.7	1398.2	1456.8	1506.5	1504.3	1368.4	1212.5	1128.5	1117.5	1165.0	1251.2
42.5°	1472.3	1466.7	1532.0	1613.7	1622.6	1512.1	1337.4	1225.8	1215.8	1243.5	1305.4
45°	1561.8	1566.2	1643.6	1740.9	1772.9	1702.2	1506.5	1365.1	1359.5	1350.7	1408.2
47.5°	1641.4	1665.7	1732.0	1847.0	1963.0	1898.9	1705.5	1568.4	1529.7	1509.8	1567.3
50°	1696.6	1718.8	1799.4	1922.1	2134.3	2175.2	1928.8	1785.1	1786.2	1737.5	1768.5
52.5°	1696.6	1695.5	1760.8	1922.1	2253.7	2463.7	2227.2	2058.1	2066.9	2016.1	2018.3
55°	1533.1	1529.7	1609.3	1780.7	2240.5	2741.2	2679.3	2404.0	2381.9	2283.6	2293.5
57.5°	1234.6	1242.4	1303.2	1508.7	2068.0	2870.5	3217.5	2793.1	2718.0	2514.6	2514.6
60°	900.8	894.2	939.5	1083.2	1656.9	2821.8	3659.7	3251.8	3133.5	2705.8	2677.1
62.5°	685.3	684.2	696.3	745.0	1051.1	2460.4	3849.8	3835.4	3643.1	2893.7	2852.8
65°	553.8	556.0	572.5	606.8	642.2	1677.9	3749.2	4531.8	4356.0	3173.3	3039.6
67.5°	452.1	457.6	477.5	551.5	543.8	868.8	3193.2	4930.8	4963.9	3600.0	3290.5
70°	348.2	357.0	380.2	485.2	523.9	578.1	2213.9	4731.8	4820.2	3865.3	3139.1
72.5°	236.5	235.4	285.2	393.5	529.4	529.4	1232.4	3811.1	3895.1	3563.5	2726.8
75°	128.2	136.0	189.0	297.3	485.2	511.8	701.9	2788.7	2907.0	2771.0	2108.9
77.5°	69.6	70.7	105.0	194.5	403.4	488.5	468.7	1896.7	1943.1	1671.2	1155.0
80°	36.5	37.6	55.3	127.1	278.5	453.2	390.2	1130.7	1086.5	641.1	381.3
82.5°	16.6	17.7	27.6	79.6	178.0	357.0	337.1	546.0	504.0	179.1	116.1
85°	6.6	6.6	12.2	47.5	103.9	175.7	288.5	274.1	228.8	54.2	57.5
87.5°	2.2	2.2	3.3	18.8	42.0	105.0	153.6	144.8	99.5	19.9	30.9
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°	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2	1125.2
2.5°	1116.4	1128.5	1125.2	1123.0	1102.0	1099.8	1097.6	1077.7	1084.3	1067.7	1078.8
5°	1123.0	1129.6	1111.9	1078.8	1048.9	1015.8	990.4	972.7	940.6	928.5	926.2
7.5°	1116.4	1116.4	1079.9	1026.8	968.2	914.1	845.6	796.9	760.5	732.8	742.8
10°	1107.5	1094.3	1056.7	962.7	856.6	774.8	676.4	604.6	550.4	532.8	521.7
12.5°	1107.5	1084.3	1000.3	872.1	735.0	611.2	494.1	400.1	348.2	317.2	312.8
15°	1097.6	1063.3	959.4	787.0	616.8	448.8	315.0	234.3	190.1	178.0	173.5
17.5°	1099.8	1058.9	898.6	686.4	478.6	298.4	192.3	148.1	137.1	131.5	132.6
20°	1104.2	1058.9	844.5	588.0	344.9	185.7	132.6	124.9	119.4	117.2	118.3
22.5°	1118.6	1037.9	789.2	487.4	233.2	133.7	117.2	109.4	105.0	101.7	100.6
25°	1120.8	1034.6	736.1	388.0	160.3	112.7	102.8	94.0	88.4	84.0	82.9
27.5°	1117.5	1020.2	662.1	288.5	120.5	100.6	87.3	78.5	70.7	67.4	66.3
30°	1129.6	993.7	599.1	207.8	101.7	87.3	74.1	64.1	57.5	53.1	53.1
32.5°	1130.7	970.5	529.4	148.1	92.8	77.4	63.0	51.9	45.3	43.1	43.1
35°	1131.8	949.5	452.1	112.7	82.9	66.3	51.9	43.1	38.7	35.4	35.4
37.5°	1135.2	934.0	381.3	95.1	74.1	56.4	43.1	35.4	30.9	29.8	29.8
40°	1141.8	913.0	307.3	84.0	64.1	47.5	36.5	29.8	25.4	24.3	23.2
42.5°	1159.5	907.5	245.4	75.2	57.5	39.8	29.8	24.3	21.0	18.8	17.7
45°	1232.4	921.8	190.1	69.6	48.6	33.2	25.4	19.9	15.5	14.4	13.3
47.5°	1351.8	969.4	150.3	61.9	40.9	27.6	21.0	15.5	12.2	11.1	9.9
50°	1533.1	1077.7	122.7	55.3	34.3	23.2	16.6	12.2	8.8	7.7	7.7
52.5°	1770.7	1223.6	106.1	48.6	27.6	19.9	13.3	8.8	6.6	5.5	5.5
55°	2013.9	1396.0	99.5	42.0	23.2	16.6	9.9	6.6	4.4	3.3	3.3
57.5°	2237.1	1507.6	96.2	34.3	19.9	12.2	7.7	4.4	2.2	1.1	1.1
60°	2376.4	1589.4	86.2	27.6	15.5	9.9	5.5	2.2	1.1	0.0	0.0
62.5°	2559.9	1672.3	70.7	21.0	11.1	6.6	3.3	1.1	0.0	0.0	0.0
65°	2802.0	1765.2	55.3	16.6	8.8	4.4	2.2	1.1	0.0	0.0	0.0
67.5°	2918.0	1716.5	37.6	12.2	5.5	2.2	1.1	0.0	0.0	0.0	0.0
70°	2685.9	1445.7	26.5	8.8	3.3	1.1	1.1	0.0	0.0	0.0	0.0
72.5°	2258.1	1132.9	19.9	5.5	2.2	1.1	0.0	0.0	0.0	0.0	0.0
75°	1664.6	708.5	15.5	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	883.1	264.2	11.1	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	260.9	77.4	7.7	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	86.2	23.2	4.4	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	44.2	8.8	2.2	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	25.4	3.3	2.2	2.2	1.1	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)