

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: P676888

Luminaire Tested: **CCW-SA-1F-827-U-SL2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676888
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-827-U-SL2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/
SL2 distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

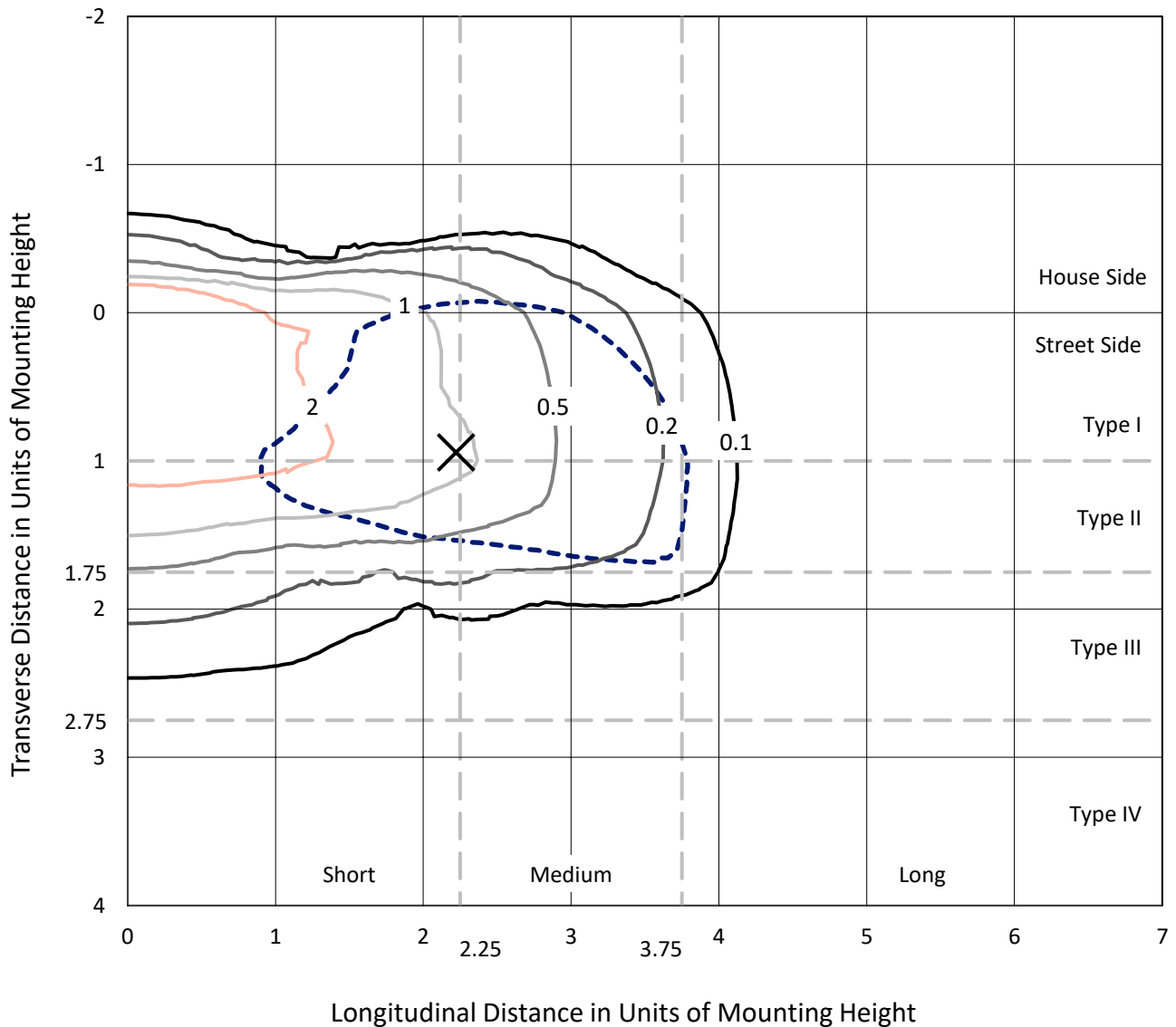
Lumens per Lamp: N/A
Luminaire Lumens: 4432.1 lumens
Efficiency: N/A
Efficacy: 66.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 67
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

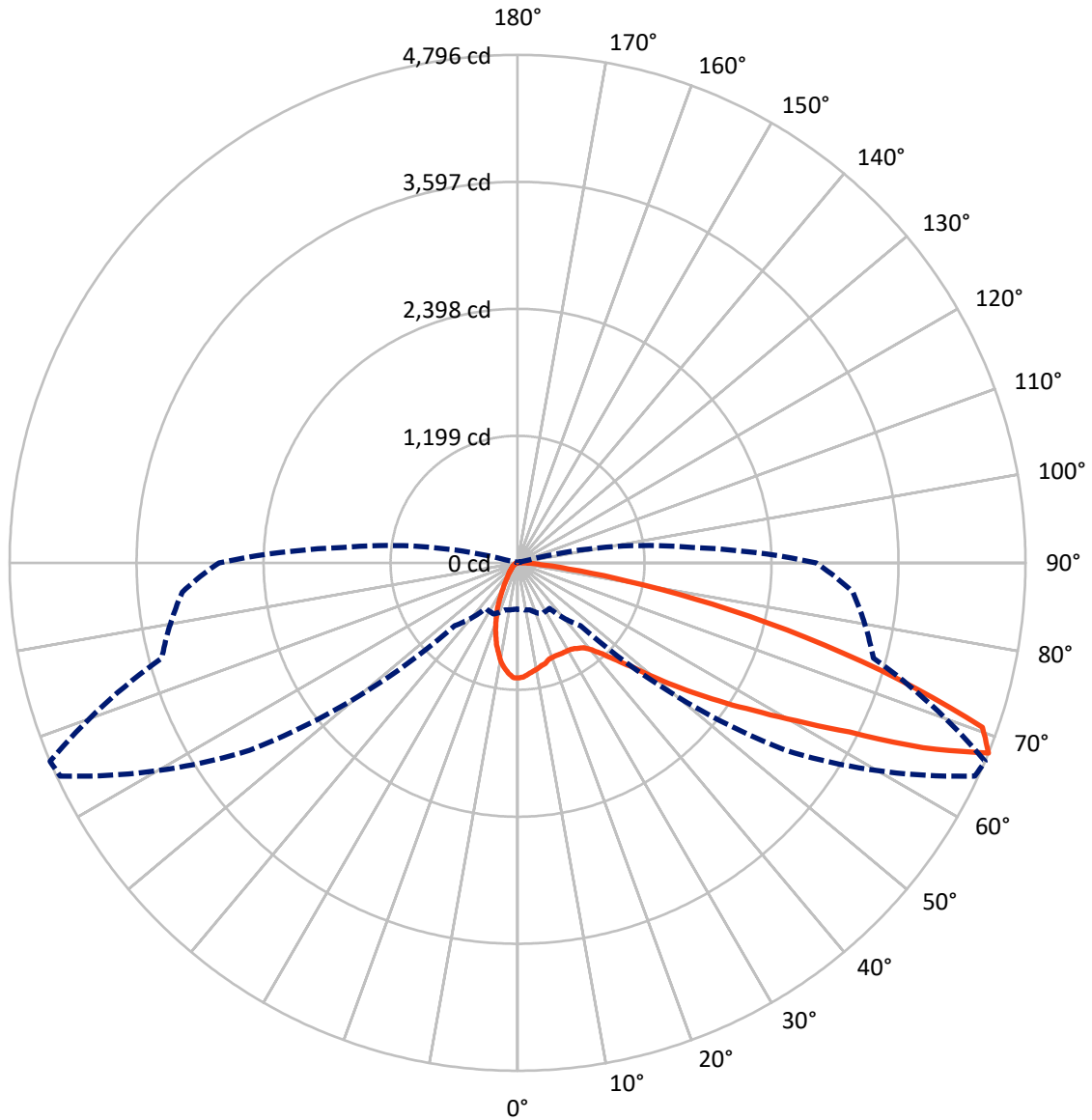
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.8 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
House Side	Lumens	557.8	0.0	557.8
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	3874.3	0.0	3874.3
	% Fixture	87.4	0.0	87.4
Total	Lumens	4432.1	0.0	4432.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.6	2.1
10°-20°	203.5	4.6
20°-30°	289.3	6.5
30°-40°	421.3	9.5
40°-50°	652.1	14.7
50°-60°	1000.7	22.6
60°-70°	1084.8	24.5
70°-80°	612.0	13.8
80°-90°	76.9	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°	4432.1	100.0
0°-180°	4432.1	100.0

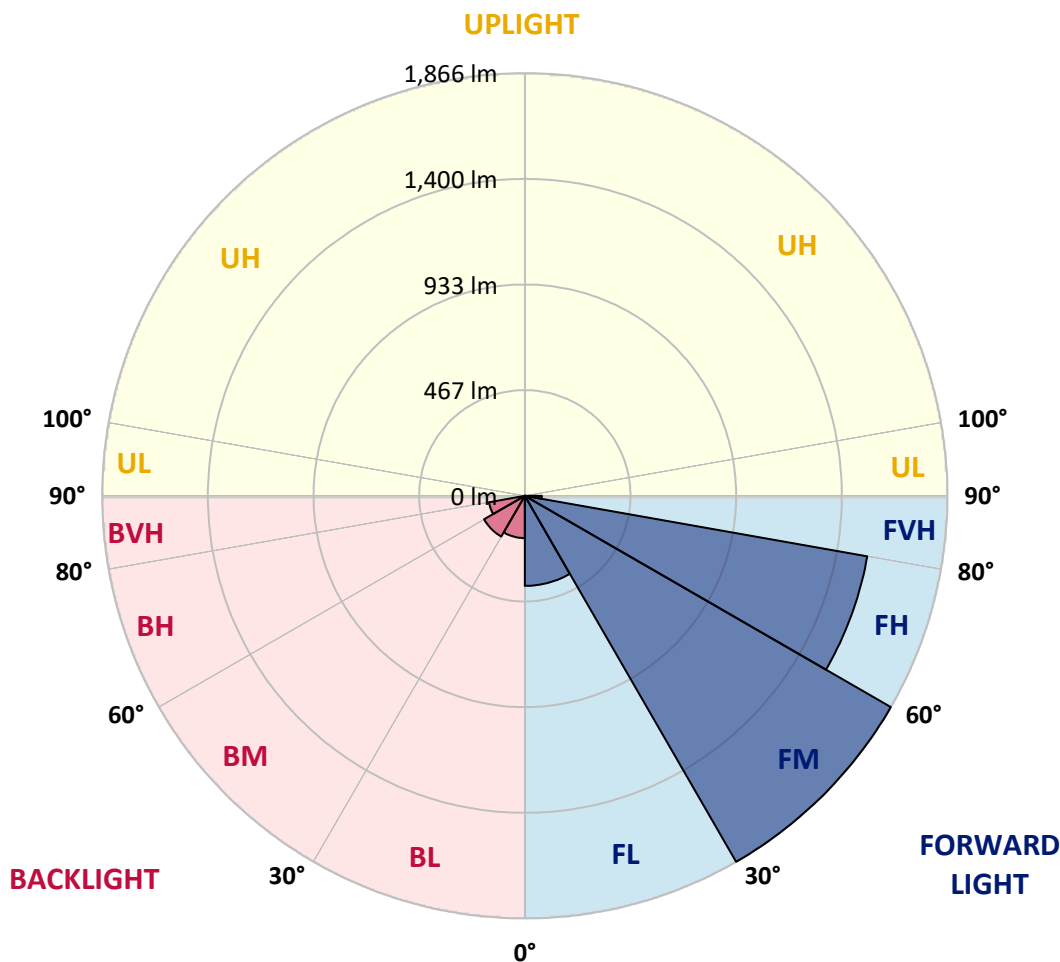


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	397.7	9.0			
FM (30°-60°)	1866.3	42.1			
FH (60°-80°)	1535.7	34.6			G1/1800
FVH (80°-90°)	74.7	1.7			G1/100
BL (0°-30°)	186.7	4.2	B1/500		
BM (30°-60°)	207.8	4.7	B0/220		
BH (60°-80°)	161.1	3.6	B1/500		G1/500
BVH (80°-90°)	2.2	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°	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1
2.5°	1040.1	1045.5	1052.9	1063.6	1071.1	1066.8	1070.0	1088.2	1078.6	1087.1	1082.9
5°	982.5	987.8	998.5	997.4	1006.0	1022.0	1043.3	1066.8	1056.2	1081.8	1091.4
7.5°	922.7	920.5	920.5	943.0	961.1	983.5	995.3	1033.7	1034.8	1057.2	1080.7
10°	868.2	874.6	885.3	893.8	910.9	943.0	977.1	1007.0	1018.8	1063.6	1070.0
12.5°	835.1	838.3	851.1	858.6	881.0	912.0	948.3	986.7	996.4	1042.3	1073.2
15°	821.2	828.7	833.0	846.8	858.6	887.4	914.1	957.9	985.7	1022.0	1060.4
17.5°	831.9	828.7	830.8	835.1	849.0	874.6	903.4	947.2	956.8	1017.7	1075.4
20°	845.8	846.8	840.4	838.3	835.1	859.7	883.2	939.8	950.4	1017.7	1085.0
22.5°	883.2	871.4	883.2	866.1	849.0	859.7	882.1	940.8	948.3	1016.6	1094.6
25°	929.1	931.2	934.4	898.1	873.5	866.1	889.6	944.0	950.4	1025.2	1098.9
27.5°	994.2	1003.8	987.8	969.7	920.5	883.2	888.5	941.9	953.6	1020.9	1109.5
30°	1081.8	1074.3	1076.4	1034.8	986.7	928.0	913.1	947.2	955.8	1026.3	1129.8
32.5°	1157.6	1149.1	1164.0	1149.1	1073.2	992.1	941.9	957.9	967.5	1039.1	1146.9
35°	1204.6	1215.3	1238.8	1254.8	1190.7	1075.4	989.9	986.7	991.0	1045.5	1159.7
37.5°	1277.2	1296.4	1315.7	1356.2	1300.7	1177.9	1065.8	1024.1	1016.6	1076.4	1166.1
40°	1356.2	1350.9	1407.5	1455.5	1453.4	1322.1	1171.5	1090.3	1079.6	1125.6	1208.9
42.5°	1422.4	1417.1	1480.1	1559.1	1567.7	1460.9	1292.2	1184.3	1174.7	1201.4	1261.2
45°	1508.9	1513.2	1588.0	1681.9	1712.9	1644.6	1455.5	1318.9	1313.5	1305.0	1360.5
47.5°	1585.8	1609.3	1673.4	1784.5	1896.6	1834.7	1647.8	1515.4	1478.0	1458.8	1514.3
50°	1639.2	1660.6	1738.5	1857.1	2062.1	2101.6	1863.5	1724.7	1725.7	1678.7	1708.6
52.5°	1639.2	1638.2	1701.2	1857.1	2177.4	2380.4	2151.8	1988.4	1997.0	1947.9	1950.0
55°	1481.2	1478.0	1554.9	1720.4	2164.6	2648.4	2588.6	2322.7	2301.3	2206.3	2215.9
57.5°	1192.8	1200.3	1259.1	1457.7	1998.0	2773.3	3108.7	2698.6	2626.0	2429.5	2429.5
60°	870.3	863.9	907.7	1046.5	1600.8	2726.3	3535.8	3141.8	3027.5	2614.2	2586.5
62.5°	662.1	661.0	672.8	719.8	1015.6	2377.1	3719.5	3705.6	3519.8	2795.8	2756.3
65°	535.0	537.2	553.2	586.3	620.5	1621.1	3622.3	4378.4	4208.6	3065.9	2936.7
67.5°	436.8	442.1	461.3	532.9	525.4	839.4	3085.2	4763.9	4795.9	3478.2	3179.1
70°	336.4	344.9	367.4	468.8	506.2	558.5	2139.0	4571.7	4657.1	3734.4	3032.8
72.5°	228.5	227.5	275.5	380.2	511.5	511.5	1190.7	3682.1	3763.3	3442.9	2634.5
75°	123.9	131.4	182.6	287.3	468.8	494.4	678.1	2694.3	2808.6	2677.2	2037.6
77.5°	67.3	68.3	101.5	188.0	389.8	472.0	452.8	1832.5	1877.4	1614.7	1116.0
80°	35.2	36.3	53.4	122.8	269.1	437.8	377.0	1092.5	1049.7	619.4	368.4
82.5°	16.0	17.1	26.7	76.9	171.9	344.9	325.7	527.5	487.0	173.0	112.1
85°	6.4	6.4	11.7	45.9	100.4	169.8	278.7	264.8	221.1	52.3	55.5
87.5°	2.1	2.1	3.2	18.2	40.6	101.5	148.4	139.9	96.1	19.2	29.9
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°	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1
2.5°	1078.6	1090.3	1087.1	1085.0	1064.7	1062.6	1060.4	1041.2	1047.6	1031.6	1042.3
5°	1085.0	1091.4	1074.3	1042.3	1013.4	981.4	956.8	939.8	908.8	897.0	894.9
7.5°	1078.6	1078.6	1043.3	992.1	935.5	883.2	816.9	770.0	734.7	708.0	717.6
10°	1070.0	1057.2	1020.9	930.1	827.6	748.6	653.6	584.1	531.8	514.7	504.0
12.5°	1070.0	1047.6	966.4	842.6	710.2	590.5	477.4	386.6	336.4	306.5	302.2
15°	1060.4	1027.3	926.9	760.3	595.9	433.6	304.4	226.4	183.7	171.9	167.7
17.5°	1062.6	1023.0	868.2	663.2	462.4	288.3	185.8	143.1	132.4	127.1	128.1
20°	1066.8	1023.0	815.9	568.1	333.2	179.4	128.1	120.7	115.3	113.2	114.3
22.5°	1080.7	1002.8	762.5	470.9	225.3	129.2	113.2	105.7	101.5	98.2	97.2
25°	1082.9	999.6	711.2	374.8	154.8	108.9	99.3	90.8	85.4	81.2	80.1
27.5°	1079.6	985.7	639.7	278.7	116.4	97.2	84.4	75.8	68.3	65.1	64.1
30°	1091.4	960.0	578.8	200.8	98.2	84.4	71.5	61.9	55.5	51.3	51.3
32.5°	1092.5	937.6	511.5	143.1	89.7	74.8	60.9	50.2	43.8	41.6	41.6
35°	1093.5	917.3	436.8	108.9	80.1	64.1	50.2	41.6	37.4	34.2	34.2
37.5°	1096.7	902.4	368.4	91.8	71.5	54.5	41.6	34.2	29.9	28.8	28.8
40°	1103.1	882.1	296.9	81.2	61.9	45.9	35.2	28.8	24.6	23.5	22.4
42.5°	1120.2	876.7	237.1	72.6	55.5	38.4	28.8	23.5	20.3	18.2	17.1
45°	1190.7	890.6	183.7	67.3	47.0	32.0	24.6	19.2	15.0	13.9	12.8
47.5°	1306.0	936.5	145.2	59.8	39.5	26.7	20.3	15.0	11.7	10.7	9.6
50°	1481.2	1041.2	118.5	53.4	33.1	22.4	16.0	11.7	8.5	7.5	7.5
52.5°	1710.8	1182.2	102.5	47.0	26.7	19.2	12.8	8.5	6.4	5.3	5.3
55°	1945.7	1348.8	96.1	40.6	22.4	16.0	9.6	6.4	4.3	3.2	3.2
57.5°	2161.4	1456.6	92.9	33.1	19.2	11.7	7.5	4.3	2.1	1.1	1.1
60°	2296.0	1535.6	83.3	26.7	15.0	9.6	5.3	2.1	1.1	0.0	0.0
62.5°	2473.3	1615.7	68.3	20.3	10.7	6.4	3.2	1.1	0.0	0.0	0.0
65°	2707.1	1705.4	53.4	16.0	8.5	4.3	2.1	1.1	0.0	0.0	0.0
67.5°	2819.3	1658.4	36.3	11.7	5.3	2.1	1.1	0.0	0.0	0.0	0.0
70°	2595.0	1396.8	25.6	8.5	3.2	1.1	1.1	0.0	0.0	0.0	0.0
72.5°	2181.7	1094.6	19.2	5.3	2.1	1.1	0.0	0.0	0.0	0.0	0.0
75°	1608.3	684.5	15.0	4.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	853.3	255.2	10.7	3.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	252.0	74.8	7.5	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	83.3	22.4	4.3	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	42.7	8.5	2.1	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	24.6	3.2	2.1	2.1	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)