

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: P676923

Luminaire Tested: **CCW-SA-2B-840-U-SL2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676923
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-840-U-SL2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
SL2 distribution lens and House Side Shield
Light Source: (32) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

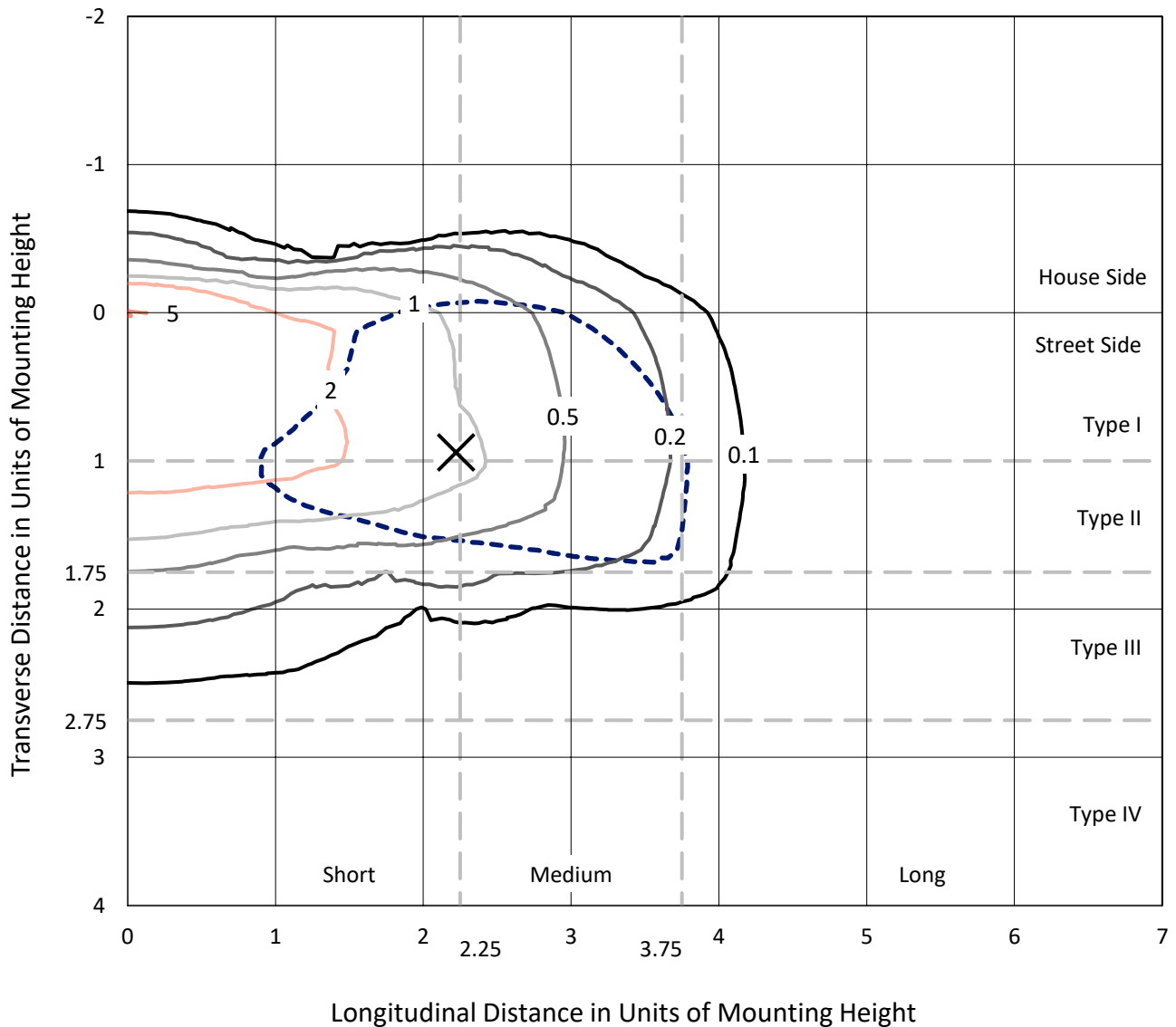
Lumens per Lamp: N/A
Luminaire Lumens: 4735.1 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

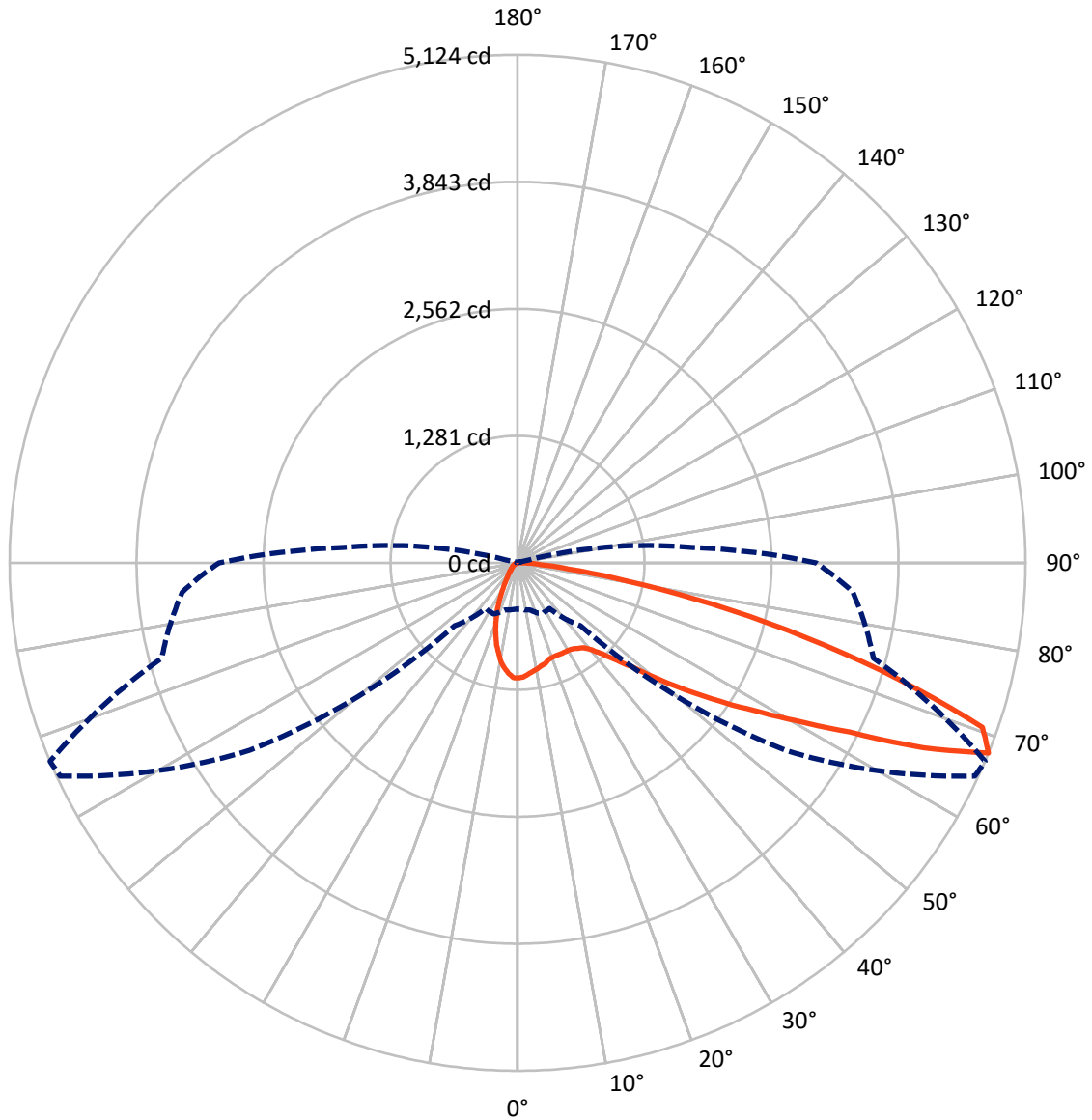
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.2 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	595.9	0.0	595.9
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	4139.1	0.0	4139.1
	% Fixture	87.4	0.0	87.4
Total	Lumens	4735.1	0.0	4735.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.8	2.1
10°-20°	217.4	4.6
20°-30°	309.1	6.5
30°-40°	450.1	9.5
40°-50°	696.6	14.7
50°-60°	1069.1	22.6
60°-70°	1158.9	24.5
70°-80°	653.8	13.8
80°-90°	82.1	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°	4735.1	100.0
0°-180°	4735.1	100.0

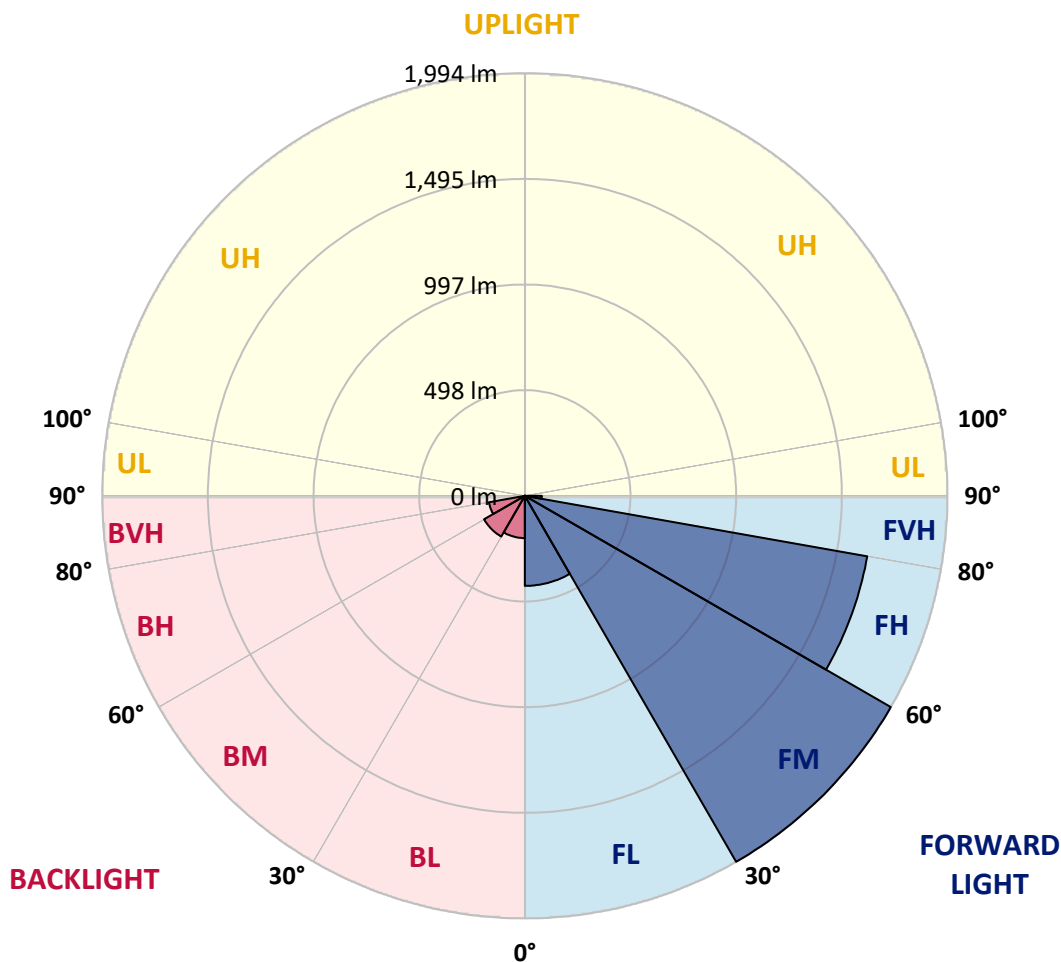


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	424.9	9.0			
FM (30°-60°)	1993.9	42.1			
FH (60°-80°)	1640.6	34.6			G1/1800
FVH (80°-90°)	79.8	1.7			G1/100
BL (0°-30°)	199.5	4.2	B1/500		
BM (30°-60°)	222.0	4.7	B1/1000		
BH (60°-80°)	172.1	3.6	B1/500		G1/500
BVH (80°-90°)	2.4	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°	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4
2.5°	1111.2	1116.9	1124.9	1136.3	1144.3	1139.7	1143.2	1162.6	1152.3	1161.4	1156.9
5°	1049.6	1055.3	1066.7	1065.6	1074.7	1091.8	1114.6	1139.7	1128.3	1155.7	1166.0
7.5°	985.7	983.4	983.4	1007.4	1026.8	1050.8	1063.3	1104.4	1105.5	1129.5	1154.6
10°	927.5	934.4	945.8	954.9	973.2	1007.4	1043.9	1075.9	1088.4	1136.3	1143.2
12.5°	892.2	895.6	909.3	917.3	941.2	974.3	1013.1	1054.2	1064.4	1113.5	1146.6
15°	877.3	885.3	889.9	904.7	917.3	948.1	976.6	1023.4	1053.0	1091.8	1132.9
17.5°	888.8	885.3	887.6	892.2	907.0	934.4	965.2	1012.0	1022.2	1087.3	1148.9
20°	903.6	904.7	897.9	895.6	892.2	918.4	943.5	1004.0	1015.4	1087.3	1159.1
22.5°	943.5	931.0	943.5	925.3	907.0	918.4	942.4	1005.1	1013.1	1086.1	1169.4
25°	992.6	994.9	998.3	959.5	933.2	925.3	950.4	1008.5	1015.4	1095.3	1174.0
27.5°	1062.2	1072.4	1055.3	1035.9	983.4	943.5	949.2	1006.3	1018.8	1090.7	1185.4
30°	1155.7	1147.7	1150.0	1105.5	1054.2	991.4	975.5	1012.0	1021.1	1096.4	1207.1
32.5°	1236.7	1227.6	1243.6	1227.6	1146.6	1059.9	1006.3	1023.4	1033.6	1110.1	1225.3
35°	1286.9	1298.3	1323.4	1340.5	1272.1	1148.9	1057.6	1054.2	1058.7	1116.9	1239.0
37.5°	1364.5	1385.0	1405.6	1448.9	1389.6	1258.4	1138.6	1094.1	1086.1	1150.0	1245.8
40°	1448.9	1443.2	1503.7	1555.0	1552.7	1412.4	1251.6	1164.8	1153.4	1202.5	1291.5
42.5°	1519.7	1514.0	1581.3	1665.7	1674.8	1560.7	1380.5	1265.2	1255.0	1283.5	1347.4
45°	1612.1	1616.6	1696.5	1796.9	1830.0	1757.0	1555.0	1409.0	1403.3	1394.2	1453.5
47.5°	1694.2	1719.3	1787.8	1906.4	2026.2	1960.0	1760.4	1618.9	1579.0	1558.5	1617.8
50°	1751.3	1774.1	1857.4	1984.0	2203.1	2245.3	1990.8	1842.5	1843.7	1793.5	1825.4
52.5°	1751.3	1750.1	1817.4	1984.0	2326.3	2543.0	2298.9	2124.3	2133.5	2081.0	2083.3
55°	1582.4	1579.0	1661.1	1838.0	2312.6	2829.4	2765.5	2481.4	2458.6	2357.1	2367.3
57.5°	1274.4	1282.4	1345.1	1557.3	2134.6	2962.9	3321.1	2883.0	2805.4	2595.5	2595.5
60°	929.8	923.0	969.8	1118.1	1710.2	2912.7	3777.5	3356.5	3234.4	2792.9	2763.2
62.5°	707.3	706.2	718.8	769.0	1085.0	2539.6	3973.7	3958.9	3760.4	2986.8	2944.6
65°	571.6	573.9	591.0	626.3	662.9	1731.9	3869.9	4677.6	4496.2	3275.5	3137.4
67.5°	466.6	472.3	492.9	569.3	561.3	896.7	3296.0	5089.5	5123.7	3715.9	3396.4
70°	359.4	368.5	392.5	500.8	540.8	596.7	2285.2	4884.1	4975.4	3989.7	3240.1
72.5°	244.1	243.0	294.3	406.2	546.5	546.5	1272.1	3933.8	4020.5	3678.2	2814.6
75°	132.3	140.3	195.1	306.9	500.8	528.2	724.5	2878.5	3000.5	2860.2	2176.8
77.5°	71.9	73.0	108.4	200.8	416.4	504.3	483.7	1957.8	2005.7	1725.0	1192.2
80°	37.6	38.8	57.0	131.2	287.5	467.8	402.7	1167.1	1121.5	661.7	393.6
82.5°	17.1	18.3	28.5	82.1	183.7	368.5	348.0	563.6	520.2	184.8	119.8
85°	6.8	6.8	12.5	49.1	107.2	181.4	297.8	282.9	236.2	55.9	59.3
87.5°	2.3	2.3	3.4	19.4	43.4	108.4	158.6	149.5	102.7	20.5	31.9
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°	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4
2.5°	1152.3	1164.8	1161.4	1159.1	1137.5	1135.2	1132.9	1112.4	1119.2	1102.1	1113.5
5°	1159.1	1166.0	1147.7	1113.5	1082.7	1048.5	1022.2	1004.0	970.9	958.3	956.1
7.5°	1152.3	1152.3	1114.6	1059.9	999.4	943.5	872.8	822.6	784.9	756.4	766.7
10°	1143.2	1129.5	1090.7	993.7	884.2	799.8	698.2	624.1	568.2	549.9	538.5
12.5°	1143.2	1119.2	1032.5	900.2	758.7	630.9	510.0	413.0	359.4	327.4	322.9
15°	1132.9	1097.5	990.3	812.3	636.6	463.2	325.2	241.9	196.2	183.7	179.1
17.5°	1135.2	1093.0	927.5	708.5	494.0	308.0	198.5	152.9	141.5	135.8	136.9
20°	1139.7	1093.0	871.6	607.0	356.0	191.7	136.9	128.9	123.2	120.9	122.1
22.5°	1154.6	1071.3	814.6	503.1	240.7	138.0	120.9	112.9	108.4	105.0	103.8
25°	1156.9	1067.9	759.8	400.5	165.4	116.4	106.1	97.0	91.3	86.7	85.6
27.5°	1153.4	1053.0	683.4	297.8	124.4	103.8	90.1	81.0	73.0	69.6	68.5
30°	1166.0	1025.7	618.4	214.5	105.0	90.1	76.4	66.2	59.3	54.8	54.8
32.5°	1167.1	1001.7	546.5	152.9	95.8	79.9	65.0	53.6	46.8	44.5	44.5
35°	1168.3	980.0	466.6	116.4	85.6	68.5	53.6	44.5	39.9	36.5	36.5
37.5°	1171.7	964.0	393.6	98.1	76.4	58.2	44.5	36.5	31.9	30.8	30.8
40°	1178.5	942.4	317.2	86.7	66.2	49.1	37.6	30.8	26.2	25.1	24.0
42.5°	1196.8	936.7	253.3	77.6	59.3	41.1	30.8	25.1	21.7	19.4	18.3
45°	1272.1	951.5	196.2	71.9	50.2	34.2	26.2	20.5	16.0	14.8	13.7
47.5°	1395.3	1000.6	155.2	63.9	42.2	28.5	21.7	16.0	12.5	11.4	10.3
50°	1582.4	1112.4	126.6	57.0	35.4	24.0	17.1	12.5	9.1	8.0	8.0
52.5°	1827.7	1263.0	109.5	50.2	28.5	20.5	13.7	9.1	6.8	5.7	5.7
55°	2078.7	1440.9	102.7	43.4	24.0	17.1	10.3	6.8	4.6	3.4	3.4
57.5°	2309.2	1556.2	99.3	35.4	20.5	12.5	8.0	4.6	2.3	1.1	1.1
60°	2452.9	1640.6	89.0	28.5	16.0	10.3	5.7	2.3	1.1	0.0	0.0
62.5°	2642.3	1726.2	73.0	21.7	11.4	6.8	3.4	1.1	0.0	0.0	0.0
65°	2892.1	1822.0	57.0	17.1	9.1	4.6	2.3	1.1	0.0	0.0	0.0
67.5°	3011.9	1771.8	38.8	12.5	5.7	2.3	1.1	0.0	0.0	0.0	0.0
70°	2772.4	1492.3	27.4	9.1	3.4	1.1	1.1	0.0	0.0	0.0	0.0
72.5°	2330.8	1169.4	20.5	5.7	2.3	1.1	0.0	0.0	0.0	0.0	0.0
75°	1718.2	731.3	16.0	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	911.6	272.7	11.4	3.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	269.2	79.9	8.0	2.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	89.0	24.0	4.6	2.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	45.6	9.1	2.3	2.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	26.2	3.4	2.3	2.3	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)