

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: P676901

Luminaire Tested: **CCW-SA-2B-830-U-SL2-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676901  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2B-830-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) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

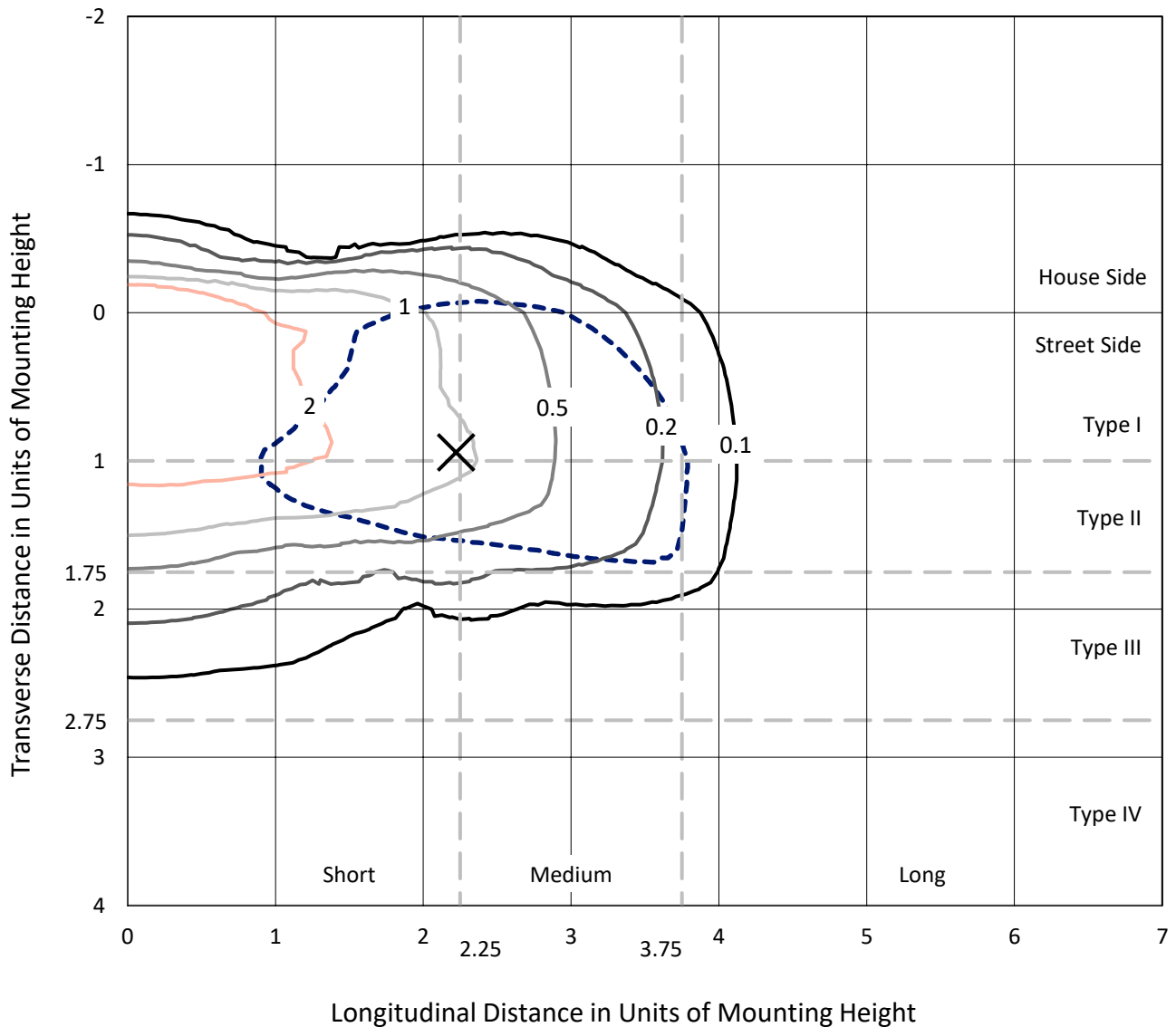
Lumens per Lamp: N/A  
Luminaire Lumens: 4413 lumens  
Efficiency: N/A  
Efficacy: 95.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 46  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

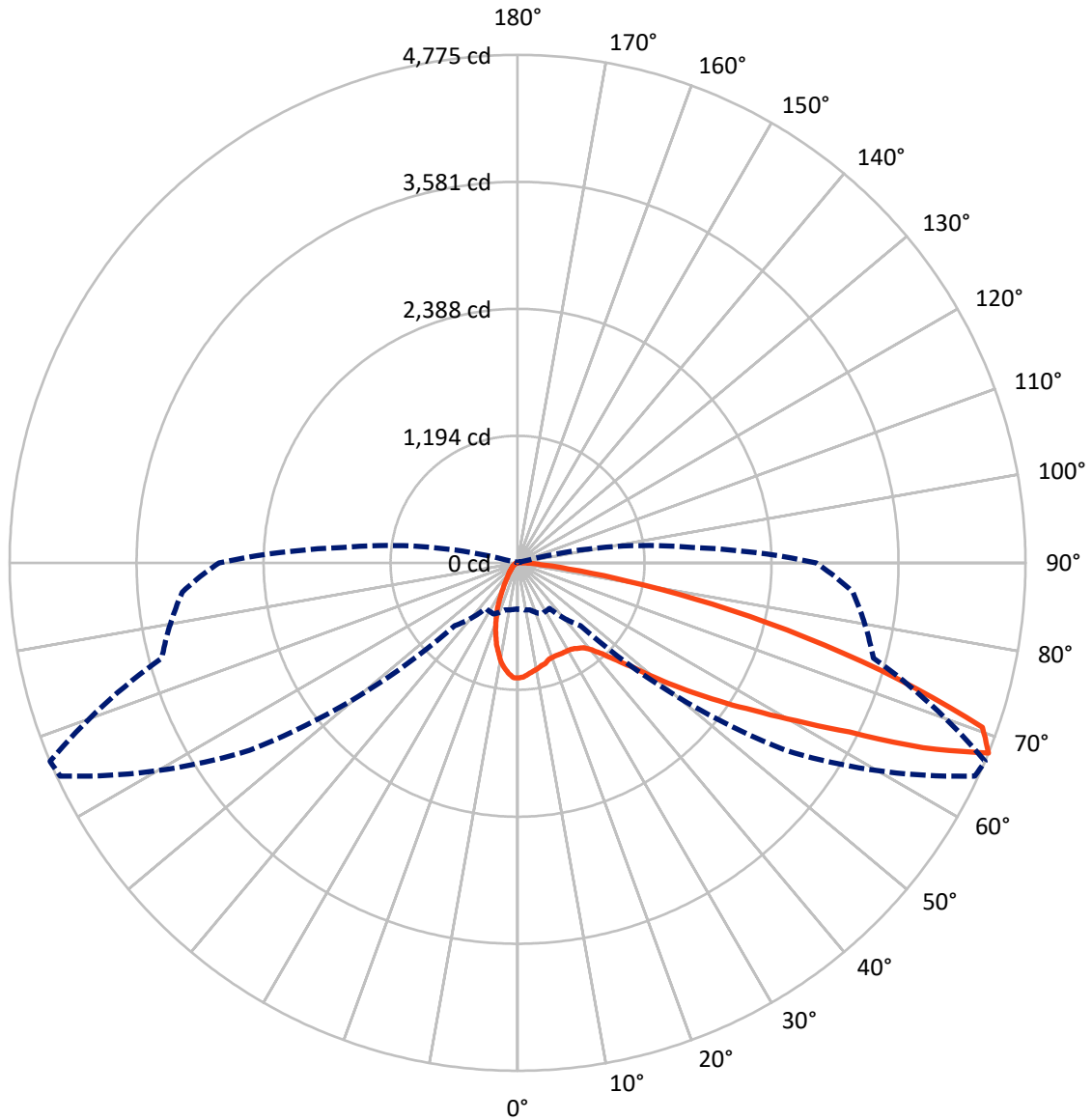
× Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	555.4	0.0	555.4
	% Fixture	12.6	0.0	12.6
<b>Street Side</b>	Lumens	3857.6	0.0	3857.6
	% Fixture	87.4	0.0	87.4
<b>Total</b>	Lumens	4413.0	0.0	4413.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.2	2.1
10°-20°	202.6	4.6
20°-30°	288.1	6.5
30°-40°	419.5	9.5
40°-50°	649.2	14.7
50°-60°	996.4	22.6
60°-70°	1080.1	24.5
70°-80°	609.3	13.8
80°-90°	76.6	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°	4413.0	100.0
0°-180°	4413.0	100.0

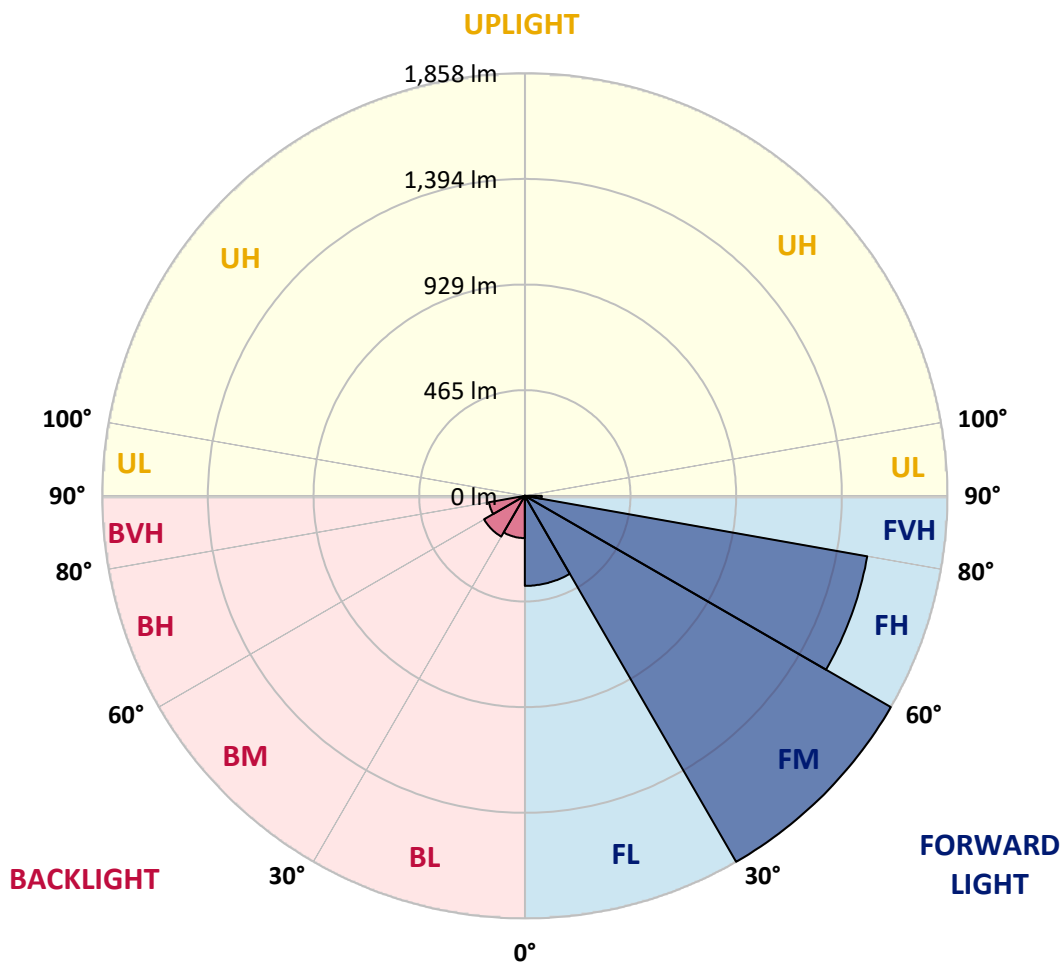


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	396.0	9.0			
FM (30°-60°)	1858.2	42.1			
FH (60°-80°)	1529.0	34.6			G1/1800
FVH (80°-90°)	74.4	1.7			G1/100
BL (0°-30°)	185.9	4.2	B1/500		
BM (30°-60°)	206.9	4.7	B0/220		
BH (60°-80°)	160.4	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°	1082.4	1082.4	1082.4	1082.4	1082.4	1082.4	1082.4	1082.4	1082.4	1082.4	1082.4
2.5°	1035.6	1040.9	1048.4	1059.0	1066.5	1062.2	1065.4	1083.5	1073.9	1082.4	1078.2
5°	978.2	983.5	994.2	993.1	1001.6	1017.6	1038.8	1062.2	1051.6	1077.1	1086.7
7.5°	918.7	916.5	916.5	938.9	956.9	979.3	991.0	1029.3	1030.3	1052.6	1076.0
10°	864.4	870.8	881.5	890.0	907.0	938.9	972.9	1002.7	1014.4	1059.0	1065.4
12.5°	831.5	834.7	847.4	854.9	877.2	908.0	944.2	982.5	992.0	1037.8	1068.6
15°	817.7	825.1	829.4	843.2	854.9	883.6	910.2	953.8	981.4	1017.6	1055.8
17.5°	828.3	825.1	827.2	831.5	845.3	870.8	899.5	943.1	952.7	1013.3	1070.7
20°	842.1	843.2	836.8	834.7	831.5	855.9	879.3	935.7	946.3	1013.3	1080.3
22.5°	879.3	867.6	879.3	862.3	845.3	855.9	878.3	936.7	944.2	1012.2	1089.9
25°	925.0	927.2	930.4	894.2	869.8	862.3	885.7	939.9	946.3	1020.7	1094.1
27.5°	989.9	999.5	983.5	965.5	916.5	879.3	884.6	937.8	949.5	1016.5	1104.7
30°	1077.1	1069.7	1071.8	1030.3	982.5	924.0	909.1	943.1	951.6	1021.8	1124.9
32.5°	1152.6	1144.1	1159.0	1144.1	1068.6	987.8	937.8	953.8	963.3	1034.6	1142.0
35°	1199.4	1210.0	1233.4	1249.3	1185.6	1070.7	985.7	982.5	986.7	1040.9	1154.7
37.5°	1271.7	1290.8	1310.0	1350.4	1295.1	1172.8	1061.1	1019.7	1012.2	1071.8	1161.1
40°	1350.4	1345.0	1401.4	1449.2	1447.1	1316.3	1166.4	1085.6	1075.0	1120.7	1203.6
42.5°	1416.3	1411.0	1473.7	1552.4	1560.9	1454.6	1286.6	1179.2	1169.6	1196.2	1255.7
45°	1502.4	1506.7	1581.1	1674.7	1705.5	1637.4	1449.2	1313.1	1307.8	1299.3	1354.6
47.5°	1579.0	1602.4	1666.2	1776.7	1888.4	1826.7	1640.6	1508.8	1471.6	1452.4	1507.7
50°	1632.1	1653.4	1731.0	1849.0	2053.2	2092.5	1855.4	1717.2	1718.3	1671.5	1701.2
52.5°	1632.1	1631.1	1693.8	1849.0	2168.0	2370.0	2142.5	1979.8	1988.3	1939.4	1941.5
55°	1474.8	1471.6	1548.1	1712.9	2155.3	2636.9	2577.4	2312.6	2291.4	2196.7	2206.3
57.5°	1187.7	1195.1	1253.6	1451.4	1989.4	2761.3	3095.2	2686.9	2614.6	2419.0	2419.0
60°	866.6	860.2	903.8	1042.0	1593.8	2714.5	3520.5	3128.2	3014.4	2602.9	2575.3
62.5°	659.2	658.2	669.9	716.6	1011.2	2366.8	3703.4	3689.6	3504.6	2783.7	2744.3
65°	532.7	534.8	550.8	583.7	617.8	1614.1	3606.6	4359.4	4190.4	3052.7	2924.0
67.5°	434.9	440.2	459.3	530.6	523.1	835.7	3071.8	4743.3	4775.2	3463.1	3165.4
70°	334.9	343.4	365.8	466.8	504.0	556.1	2129.7	4551.9	4636.9	3718.3	3019.7
72.5°	227.5	226.5	274.3	378.5	509.3	509.3	1185.6	3666.2	3747.0	3428.0	2623.1
75°	123.3	130.8	181.8	286.0	466.8	492.3	675.2	2682.6	2796.4	2665.6	2028.7
77.5°	67.0	68.0	101.0	187.1	388.1	470.0	450.8	1824.6	1869.2	1607.7	1111.1
80°	35.1	36.2	53.2	122.3	267.9	435.9	375.3	1087.7	1045.2	616.7	366.8
82.5°	15.9	17.0	26.6	76.6	171.2	343.4	324.3	525.3	484.9	172.3	111.6
85°	6.4	6.4	11.7	45.7	99.9	169.1	277.5	263.7	220.1	52.1	55.3
87.5°	2.1	2.1	3.2	18.1	40.4	101.0	147.8	139.3	95.7	19.1	29.8
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°	1082.4	1082.4	1082.4	1082.4	1082.4	1082.4	1082.4	1082.4	1082.4	1082.4	1082.4
2.5°	1073.9	1085.6	1082.4	1080.3	1060.1	1058.0	1055.8	1036.7	1043.1	1027.1	1037.8
5°	1080.3	1086.7	1069.7	1037.8	1009.0	977.1	952.7	935.7	904.8	893.2	891.0
7.5°	1073.9	1073.9	1038.8	987.8	931.4	879.3	813.4	766.6	731.5	705.0	714.5
10°	1065.4	1052.6	1016.5	926.1	824.0	745.4	650.7	581.6	529.5	512.5	501.9
12.5°	1065.4	1043.1	962.3	838.9	707.1	588.0	475.3	384.9	334.9	305.2	300.9
15°	1055.8	1022.9	922.9	757.1	593.3	431.7	303.0	225.4	182.9	171.2	166.9
17.5°	1058.0	1018.6	864.4	660.3	460.4	287.1	185.0	142.5	131.8	126.5	127.6
20°	1062.2	1018.6	812.3	565.7	331.7	178.6	127.6	120.2	114.8	112.7	113.8
22.5°	1076.0	998.4	759.2	468.9	224.4	128.7	112.7	105.3	101.0	97.8	96.8
25°	1078.2	995.2	708.1	373.2	154.2	108.5	98.9	90.4	85.1	80.8	79.7
27.5°	1075.0	981.4	636.9	277.5	115.9	96.8	84.0	75.5	68.0	64.9	63.8
30°	1086.7	955.9	576.3	199.9	97.8	84.0	71.2	61.7	55.3	51.0	51.0
32.5°	1087.7	933.6	509.3	142.5	89.3	74.4	60.6	50.0	43.6	41.5	41.5
35°	1088.8	913.4	434.9	108.5	79.7	63.8	50.0	41.5	37.2	34.0	34.0
37.5°	1092.0	898.5	366.8	91.4	71.2	54.2	41.5	34.0	29.8	28.7	28.7
40°	1098.4	878.3	295.6	80.8	61.7	45.7	35.1	28.7	24.5	23.4	22.3
42.5°	1115.4	872.9	236.0	72.3	55.3	38.3	28.7	23.4	20.2	18.1	17.0
45°	1185.6	886.8	182.9	67.0	46.8	31.9	24.5	19.1	14.9	13.8	12.8
47.5°	1300.4	932.5	144.6	59.5	39.3	26.6	20.2	14.9	11.7	10.6	9.6
50°	1474.8	1036.7	118.0	53.2	33.0	22.3	15.9	11.7	8.5	7.4	7.4
52.5°	1703.4	1177.0	102.1	46.8	26.6	19.1	12.8	8.5	6.4	5.3	5.3
55°	1937.3	1342.9	95.7	40.4	22.3	15.9	9.6	6.4	4.3	3.2	3.2
57.5°	2152.1	1450.3	92.5	33.0	19.1	11.7	7.4	4.3	2.1	1.1	1.1
60°	2286.0	1529.0	82.9	26.6	14.9	9.6	5.3	2.1	1.1	0.0	0.0
62.5°	2462.5	1608.7	68.0	20.2	10.6	6.4	3.2	1.1	0.0	0.0	0.0
65°	2695.4	1698.1	53.2	15.9	8.5	4.3	2.1	1.1	0.0	0.0	0.0
67.5°	2807.0	1651.3	36.2	11.7	5.3	2.1	1.1	0.0	0.0	0.0	0.0
70°	2583.8	1390.8	25.5	8.5	3.2	1.1	1.1	0.0	0.0	0.0	0.0
72.5°	2172.3	1089.9	19.1	5.3	2.1	1.1	0.0	0.0	0.0	0.0	0.0
75°	1601.3	681.6	14.9	4.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	849.6	254.1	10.6	3.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	250.9	74.4	7.4	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	82.9	22.3	4.3	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	42.5	8.5	2.1	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	24.5	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)