

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: P676842

Luminaire Tested: **CCW-SA-1D-735-U-SL2-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676842  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1D-735-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) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

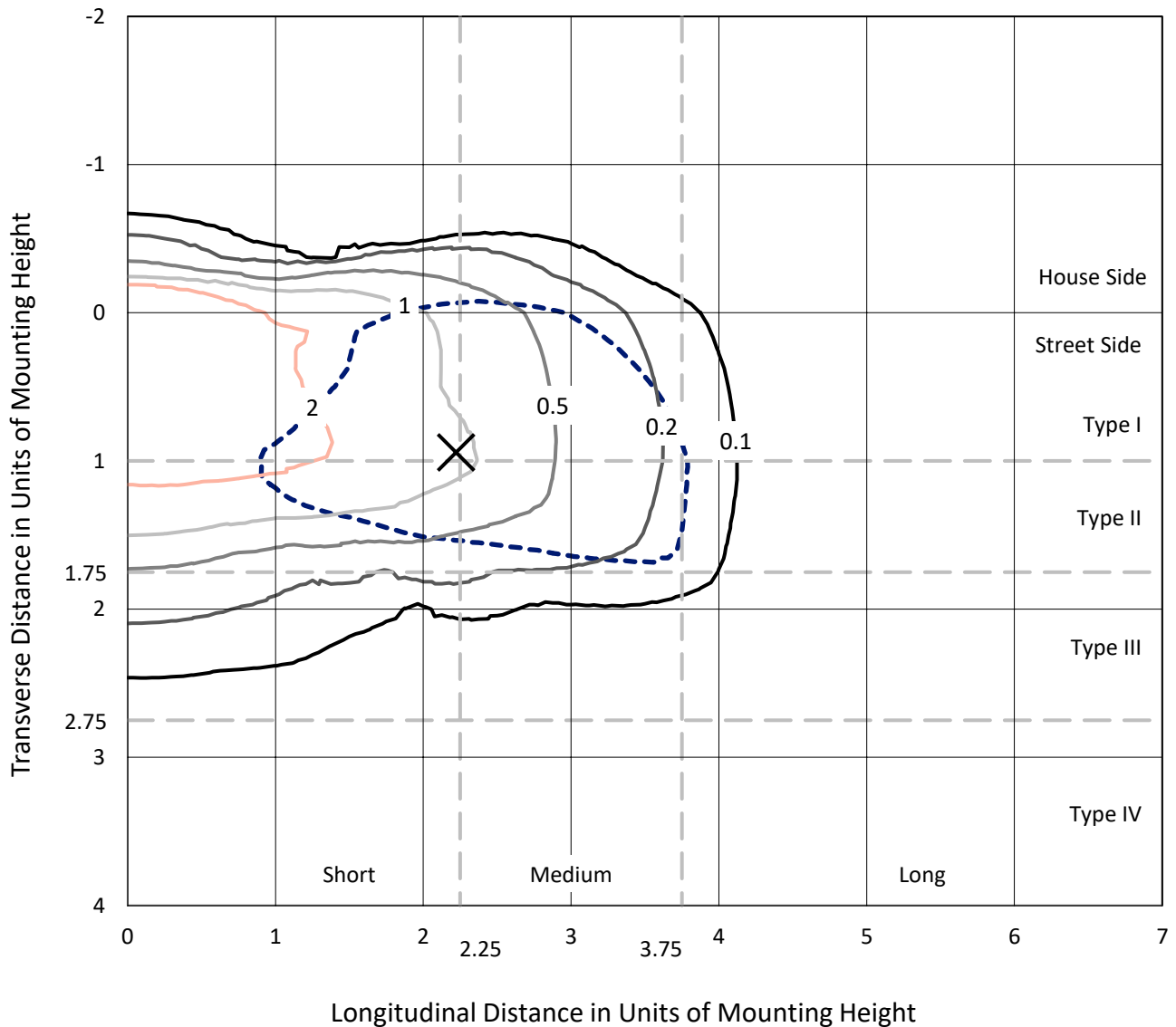
Lumens per Lamp: N/A  
Luminaire Lumens: 4423.3 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 44  
Input Voltage (V): 120  
Input Current (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

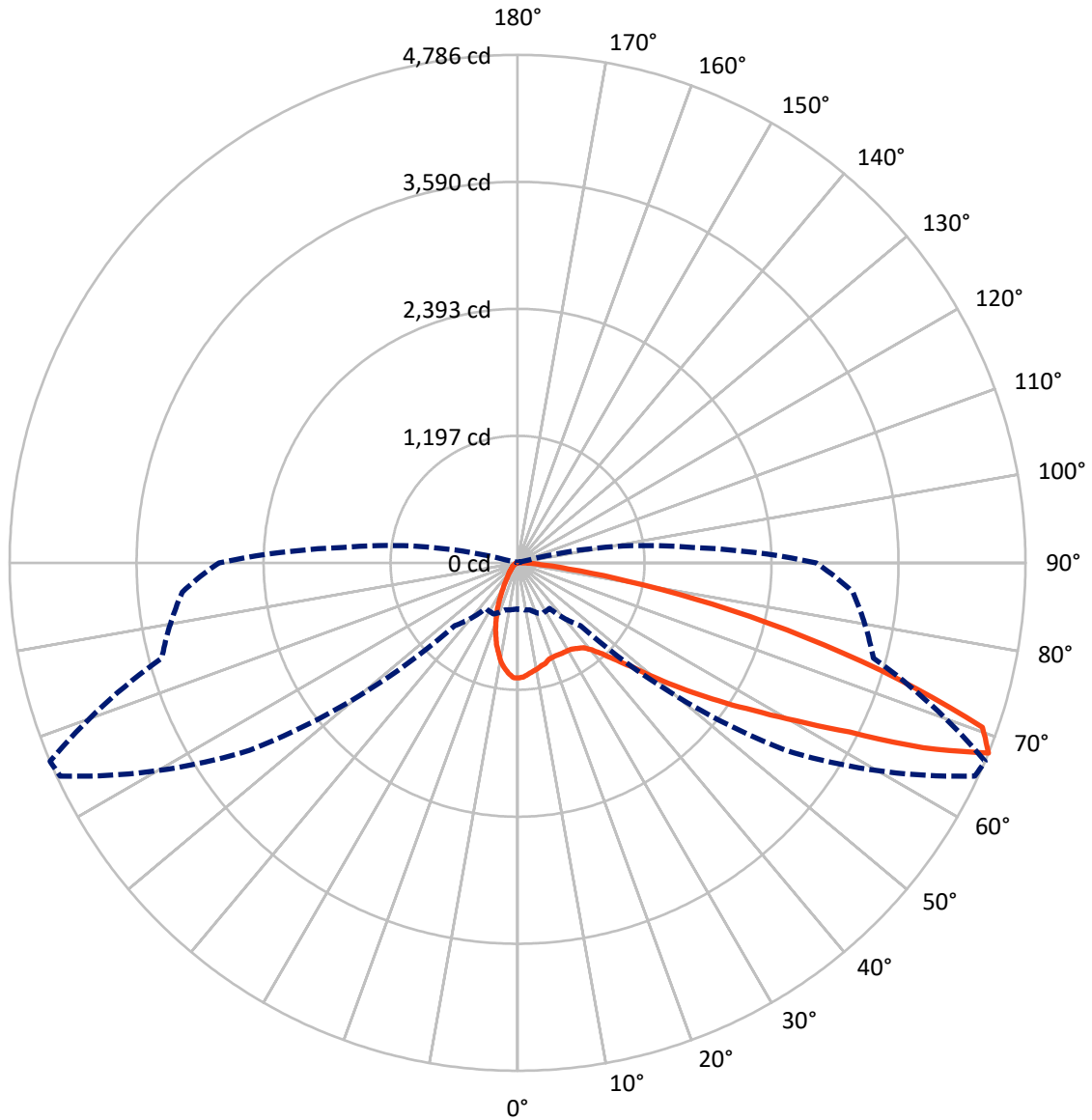
× Max cd  
 - - - 1/2 Max cd



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	556.7	0.0	556.7
	% Fixture	12.6	0.0	12.6
<b>Street Side</b>	Lumens	3866.6	0.0	3866.6
	% Fixture	87.4	0.0	87.4
<b>Total</b>	Lumens	4423.3	0.0	4423.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.4	2.1
10°-20°	203.1	4.6
20°-30°	288.8	6.5
30°-40°	420.5	9.5
40°-50°	650.7	14.7
50°-60°	998.7	22.6
60°-70°	1082.6	24.5
70°-80°	610.8	13.8
80°-90°	76.7	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°	4423.3	100.0
0°-180°	4423.3	100.0

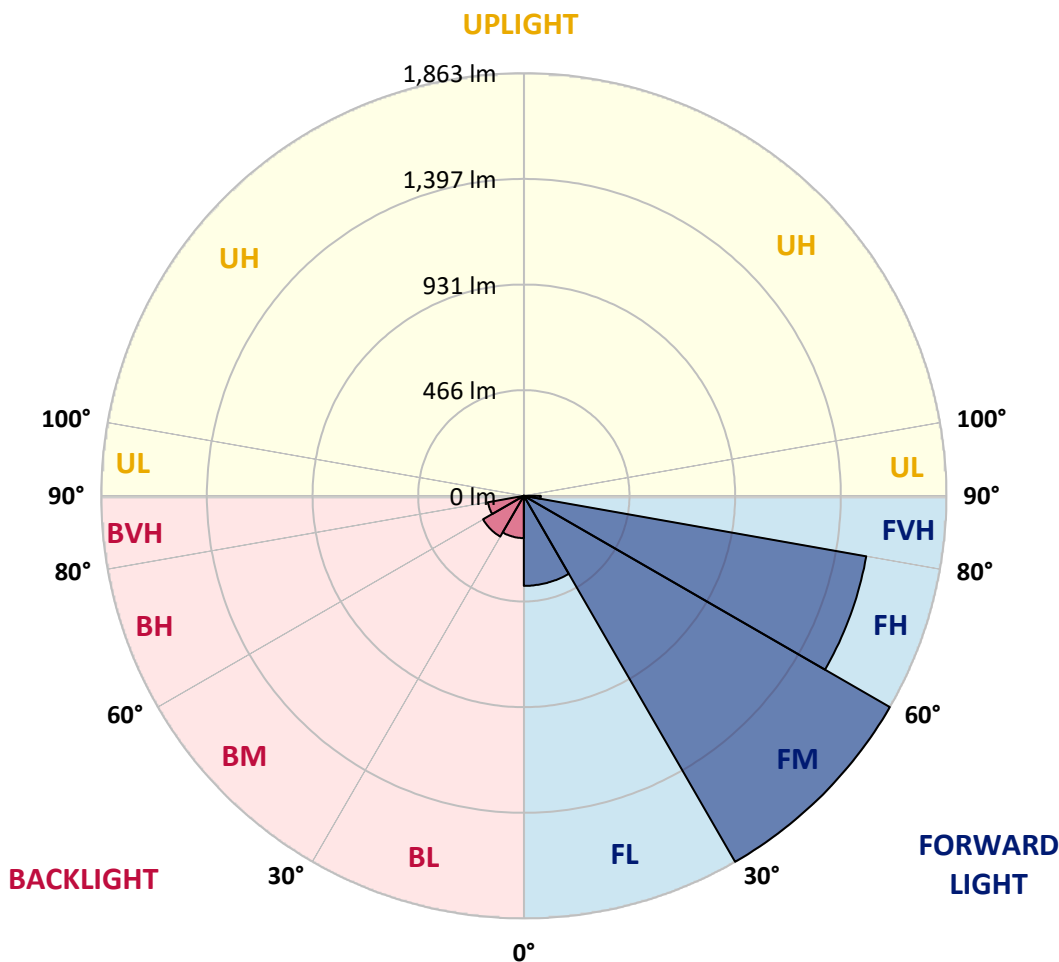


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	396.9	9.0			
FM (30°-60°)	1862.6	42.1			
FH (60°-80°)	1532.6	34.6			G1/1800
FVH (80°-90°)	74.5	1.7			G1/100
BL (0°-30°)	186.3	4.2	B1/500		
BM (30°-60°)	207.3	4.7	B0/220		
BH (60°-80°)	160.8	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°	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9
2.5°	1038.0	1043.4	1050.8	1061.5	1069.0	1064.7	1067.9	1086.0	1076.4	1084.9	1080.7
5°	980.5	985.8	996.5	995.4	1003.9	1019.9	1041.2	1064.7	1054.0	1079.6	1089.2
7.5°	920.8	918.7	918.7	941.1	959.2	981.6	993.3	1031.7	1032.7	1055.1	1078.5
10°	866.5	872.9	883.5	892.0	909.1	941.1	975.2	1005.0	1016.7	1061.5	1067.9
12.5°	833.4	836.6	849.4	856.9	879.3	910.2	946.4	984.8	994.4	1040.2	1071.1
15°	819.6	827.0	831.3	845.1	856.9	885.6	912.3	956.0	983.7	1019.9	1058.3
17.5°	830.2	827.0	829.2	833.4	847.3	872.9	901.6	945.3	954.9	1015.7	1073.2
20°	844.1	845.1	838.8	836.6	833.4	857.9	881.4	937.9	948.5	1015.7	1082.8
22.5°	881.4	869.7	881.4	864.3	847.3	857.9	880.3	938.9	946.4	1014.6	1092.4
25°	927.2	929.3	932.5	896.3	871.8	864.3	887.8	942.1	948.5	1023.1	1096.7
27.5°	992.2	1001.8	985.8	967.7	918.7	881.4	886.7	940.0	951.7	1018.9	1107.3
30°	1079.6	1072.2	1074.3	1032.7	984.8	926.1	911.2	945.3	953.9	1024.2	1127.6
32.5°	1155.3	1146.8	1161.7	1146.8	1071.1	990.1	940.0	956.0	965.6	1037.0	1144.6
35°	1202.2	1212.8	1236.3	1252.3	1188.3	1073.2	988.0	984.8	989.0	1043.4	1157.4
37.5°	1274.6	1293.8	1313.0	1353.5	1298.1	1175.5	1063.6	1022.1	1014.6	1074.3	1163.8
40°	1353.5	1348.2	1404.7	1452.6	1450.5	1319.4	1169.1	1088.1	1077.5	1123.3	1206.4
42.5°	1419.6	1414.3	1477.1	1556.0	1564.5	1458.0	1289.6	1181.9	1172.3	1199.0	1258.7
45°	1505.9	1510.2	1584.8	1678.6	1709.5	1641.3	1452.6	1316.2	1310.9	1302.4	1357.8
47.5°	1582.7	1606.1	1670.0	1780.9	1892.8	1831.0	1644.5	1512.3	1475.0	1455.8	1511.2
50°	1635.9	1657.3	1735.1	1853.4	2058.0	2097.4	1859.7	1721.2	1722.3	1675.4	1705.2
52.5°	1635.9	1634.9	1697.8	1853.4	2173.1	2375.6	2147.5	1984.4	1993.0	1943.9	1946.1
55°	1478.2	1475.0	1551.7	1716.9	2160.3	2643.1	2583.4	2318.0	2296.7	2201.9	2211.4
57.5°	1190.5	1197.9	1256.5	1454.8	1994.0	2767.8	3102.4	2693.2	2620.7	2424.6	2424.6
60°	868.6	862.2	905.9	1044.4	1597.6	2720.9	3528.7	3135.5	3021.4	2609.0	2581.3
62.5°	660.8	659.7	671.4	718.3	1013.5	2372.4	3712.0	3698.2	3512.7	2790.2	2750.7
65°	533.9	536.1	552.1	585.1	619.2	1617.8	3615.1	4369.6	4200.2	3059.8	2930.8
67.5°	435.9	441.2	460.4	531.8	524.4	837.7	3079.0	4754.3	4786.3	3471.2	3172.8
70°	335.7	344.2	366.6	467.9	505.2	557.4	2134.7	4562.5	4647.8	3727.0	3026.8
72.5°	228.1	227.0	275.0	379.4	510.5	510.5	1188.3	3674.7	3755.7	3436.0	2629.2
75°	123.6	131.1	182.2	286.7	467.9	493.4	676.8	2688.9	2802.9	2671.9	2033.5
77.5°	67.1	68.2	101.2	187.6	389.0	471.1	451.9	1828.8	1873.6	1611.4	1113.7
80°	35.2	36.2	53.3	122.6	268.6	437.0	376.2	1090.3	1047.6	618.1	367.7
82.5°	16.0	17.1	26.6	76.7	171.6	344.2	325.1	526.5	486.0	172.7	111.9
85°	6.4	6.4	11.7	45.8	100.2	169.5	278.2	264.3	220.6	52.2	55.4
87.5°	2.1	2.1	3.2	18.1	40.5	101.2	148.1	139.6	95.9	19.2	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°	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9
2.5°	1076.4	1088.1	1084.9	1082.8	1062.6	1060.4	1058.3	1039.1	1045.5	1029.5	1040.2
5°	1082.8	1089.2	1072.2	1040.2	1011.4	979.4	954.9	937.9	907.0	895.2	893.1
7.5°	1076.4	1076.4	1041.2	990.1	933.6	881.4	815.3	768.4	733.2	706.6	716.2
10°	1067.9	1055.1	1018.9	928.3	826.0	747.1	652.2	583.0	530.7	513.7	503.0
12.5°	1067.9	1045.5	964.5	840.9	708.7	589.4	476.4	385.8	335.7	305.9	301.6
15°	1058.3	1025.3	925.1	758.8	594.7	432.7	303.7	225.9	183.3	171.6	167.3
17.5°	1060.4	1021.0	866.5	661.8	461.5	287.8	185.4	142.8	132.2	126.8	127.9
20°	1064.7	1021.0	814.2	567.0	332.5	179.0	127.9	120.4	115.1	113.0	114.0
22.5°	1078.5	1000.7	761.0	470.0	224.9	129.0	113.0	105.5	101.2	98.0	97.0
25°	1080.7	997.6	709.8	374.1	154.5	108.7	99.1	90.6	85.3	81.0	79.9
27.5°	1077.5	983.7	638.4	278.2	116.2	97.0	84.2	75.7	68.2	65.0	63.9
30°	1089.2	958.1	577.6	200.4	98.0	84.2	71.4	61.8	55.4	51.2	51.2
32.5°	1090.3	935.7	510.5	142.8	89.5	74.6	60.7	50.1	43.7	41.6	41.6
35°	1091.3	915.5	435.9	108.7	79.9	63.9	50.1	41.6	37.3	34.1	34.1
37.5°	1094.5	900.6	367.7	91.7	71.4	54.4	41.6	34.1	29.8	28.8	28.8
40°	1100.9	880.3	296.3	81.0	61.8	45.8	35.2	28.8	24.5	23.4	22.4
42.5°	1118.0	875.0	236.6	72.5	55.4	38.4	28.8	23.4	20.2	18.1	17.1
45°	1188.3	888.8	183.3	67.1	46.9	32.0	24.5	19.2	14.9	13.9	12.8
47.5°	1303.4	934.7	144.9	59.7	39.4	26.6	20.2	14.9	11.7	10.7	9.6
50°	1478.2	1039.1	118.3	53.3	33.0	22.4	16.0	11.7	8.5	7.5	7.5
52.5°	1707.3	1179.8	102.3	46.9	26.6	19.2	12.8	8.5	6.4	5.3	5.3
55°	1941.8	1346.1	95.9	40.5	22.4	16.0	9.6	6.4	4.3	3.2	3.2
57.5°	2157.1	1453.7	92.7	33.0	19.2	11.7	7.5	4.3	2.1	1.1	1.1
60°	2291.4	1532.6	83.1	26.6	14.9	9.6	5.3	2.1	1.1	0.0	0.0
62.5°	2468.3	1612.5	68.2	20.2	10.7	6.4	3.2	1.1	0.0	0.0	0.0
65°	2701.7	1702.0	53.3	16.0	8.5	4.3	2.1	1.1	0.0	0.0	0.0
67.5°	2813.6	1655.1	36.2	11.7	5.3	2.1	1.1	0.0	0.0	0.0	0.0
70°	2589.8	1394.0	25.6	8.5	3.2	1.1	1.1	0.0	0.0	0.0	0.0
72.5°	2177.3	1092.4	19.2	5.3	2.1	1.1	0.0	0.0	0.0	0.0	0.0
75°	1605.0	683.2	14.9	4.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	851.5	254.7	10.7	3.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	251.5	74.6	7.5	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	83.1	22.4	4.3	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	42.6	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)