

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: P676831

Luminaire Tested: **CCW-SA-1D-730-U-SL2-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676831  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1D-730-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) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

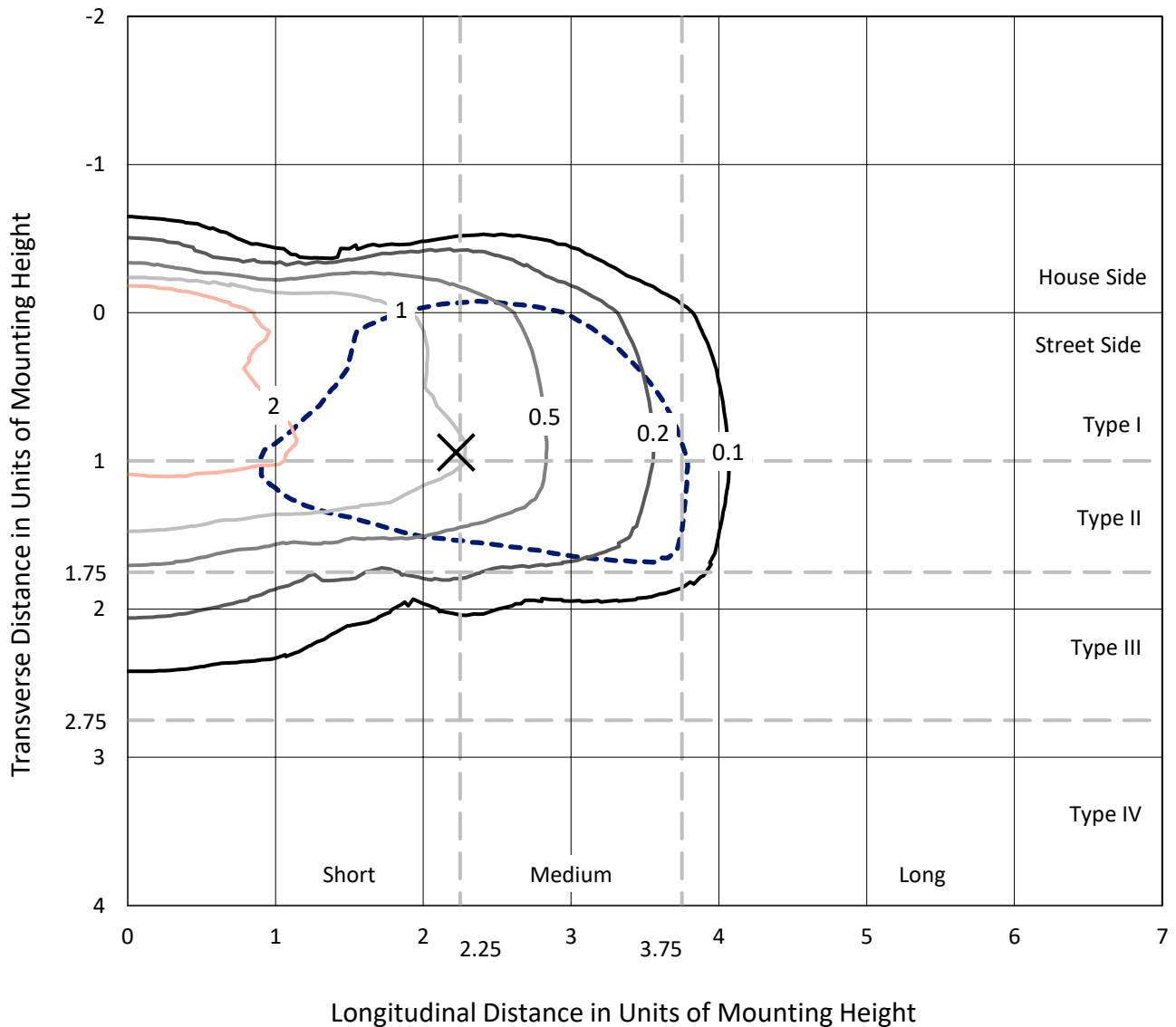
Lumens per Lamp: N/A  
Luminaire Lumens: 4083.8 lumens  
Efficiency: N/A  
Efficacy: 92.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

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

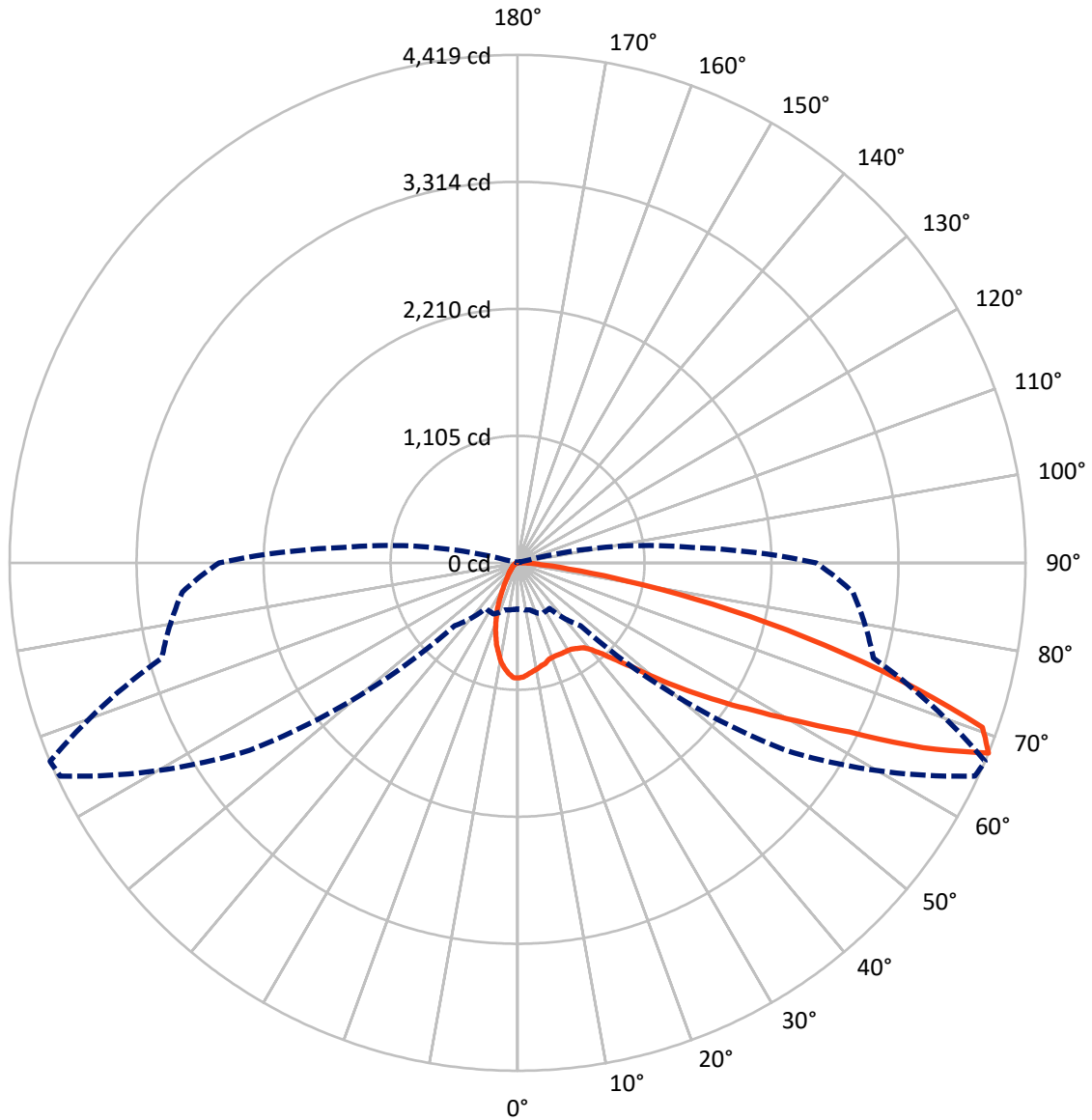
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.5 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	514.0	0.0	514.0
	% Fixture	12.6	0.0	12.6
<b>Street Side</b>	Lumens	3569.8	0.0	3569.8
	% Fixture	87.4	0.0	87.4
<b>Total</b>	Lumens	4083.8	0.0	4083.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.4	2.1
10°-20°	187.5	4.6
20°-30°	266.6	6.5
30°-40°	388.2	9.5
40°-50°	600.8	14.7
50°-60°	922.1	22.6
60°-70°	999.5	24.5
70°-80°	563.9	13.8
80°-90°	70.9	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°	4083.8	100.0
0°-180°	4083.8	100.0

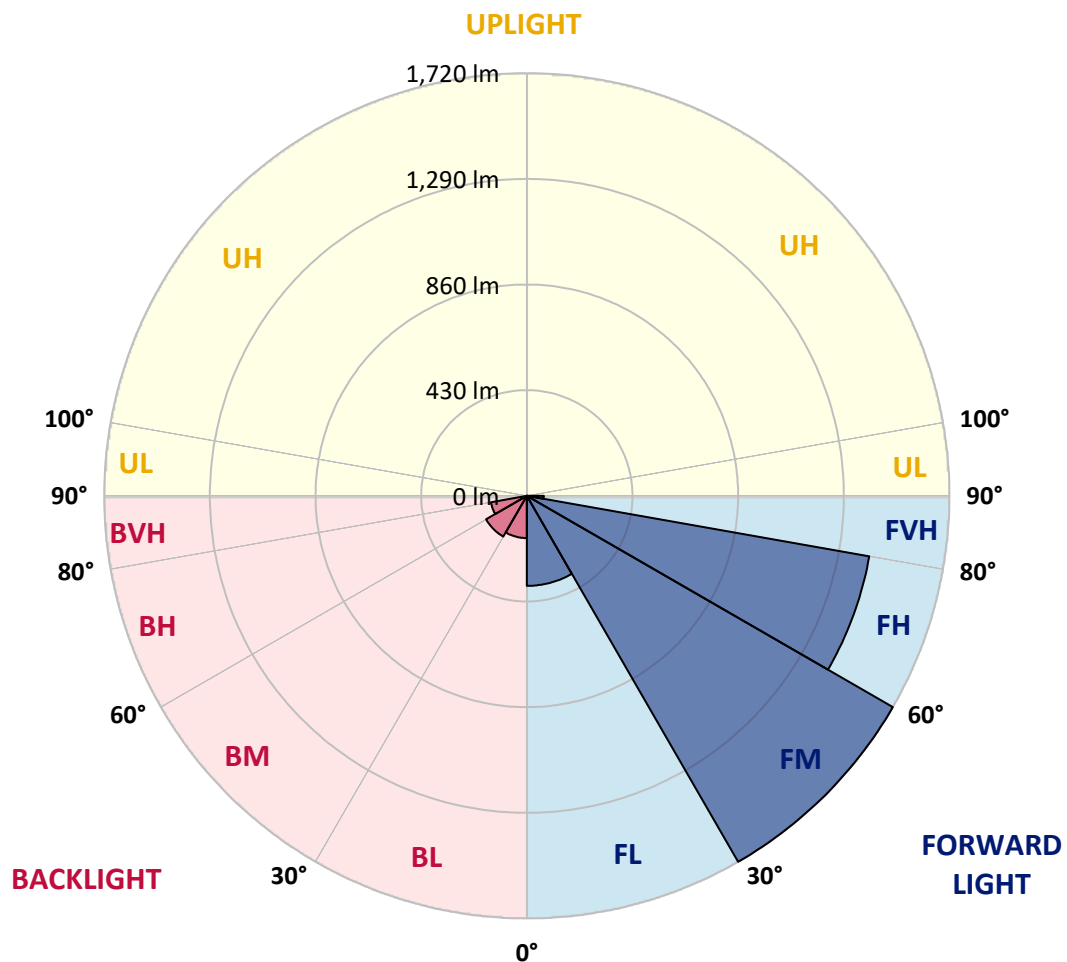


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	366.4	9.0			
FM (30°-60°)	1719.6	42.1			
FH (60°-80°)	1414.9	34.6			G1/1800
FVH (80°-90°)	68.8	1.7			G1/100
BL (0°-30°)	172.0	4.2	B1/500		
BM (30°-60°)	191.4	4.7	B0/220		
BH (60°-80°)	148.5	3.6	B1/500		G1/500
BVH (80°-90°)	2.0	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°	1001.7	1001.7	1001.7	1001.7	1001.7	1001.7	1001.7	1001.7	1001.7	1001.7	1001.7
2.5°	958.4	963.3	970.2	980.0	986.9	983.0	985.9	1002.7	993.8	1001.7	997.7
5°	905.2	910.2	920.0	919.0	926.9	941.6	961.3	983.0	973.1	996.8	1005.6
7.5°	850.1	848.2	848.2	868.8	885.6	906.2	917.1	952.5	953.5	974.1	995.8
10°	800.0	805.9	815.7	823.6	839.3	868.8	900.3	927.9	938.7	980.0	985.9
12.5°	769.5	772.4	784.2	791.1	811.8	840.3	873.8	909.2	918.0	960.3	988.9
15°	756.7	763.6	767.5	780.3	791.1	817.7	842.3	882.6	908.2	941.6	977.1
17.5°	766.5	763.6	765.5	769.5	782.2	805.9	832.4	872.8	881.6	937.7	990.8
20°	779.3	780.3	774.4	772.4	769.5	792.1	813.7	865.9	875.7	937.7	999.7
22.5°	813.7	802.9	813.7	798.0	782.2	792.1	812.8	866.9	873.8	936.7	1008.6
25°	856.0	858.0	861.0	827.5	804.9	798.0	819.6	869.8	875.7	944.6	1012.5
27.5°	916.1	924.9	910.2	893.4	848.2	813.7	818.7	867.9	878.7	940.7	1022.3
30°	996.8	989.9	991.8	953.5	909.2	855.1	841.3	872.8	880.6	945.6	1041.0
32.5°	1066.6	1058.7	1072.5	1058.7	988.9	914.1	867.9	882.6	891.5	957.4	1056.8
35°	1109.9	1119.7	1141.4	1156.2	1097.1	990.8	912.1	909.2	913.1	963.3	1068.6
37.5°	1176.8	1194.5	1212.2	1249.6	1198.5	1085.3	982.0	943.6	936.7	991.8	1074.5
40°	1249.6	1244.7	1296.9	1341.1	1339.2	1218.1	1079.4	1004.6	994.8	1037.1	1113.8
42.5°	1310.6	1305.7	1363.8	1436.6	1444.5	1346.1	1190.6	1091.2	1082.4	1107.0	1162.1
45°	1390.3	1394.3	1463.1	1549.7	1578.3	1515.3	1341.1	1215.2	1210.3	1202.4	1253.6
47.5°	1461.2	1482.8	1541.9	1644.2	1747.5	1690.4	1518.3	1396.2	1361.8	1344.1	1395.3
50°	1510.4	1530.1	1601.9	1711.1	1900.0	1936.4	1717.0	1589.1	1590.1	1546.8	1574.3
52.5°	1510.4	1509.4	1567.4	1711.1	2006.3	2193.2	1982.7	1832.1	1840.0	1794.7	1796.7
55°	1364.8	1361.8	1432.6	1585.2	1994.5	2440.2	2385.1	2140.1	2120.4	2032.9	2041.7
57.5°	1099.1	1106.0	1160.1	1343.1	1841.0	2555.3	2864.3	2486.5	2419.6	2238.5	2238.5
60°	801.9	796.0	836.4	964.3	1475.0	2512.1	3257.9	2894.8	2789.5	2408.7	2383.2
62.5°	610.1	609.1	619.9	663.2	935.7	2190.3	3427.1	3414.3	3243.1	2576.0	2539.6
65°	493.0	494.9	509.7	540.2	571.7	1493.7	3337.6	4034.2	3877.8	2824.9	2705.9
67.5°	402.4	407.4	425.1	491.0	484.1	773.4	2842.7	4389.4	4419.0	3204.8	2929.2
70°	309.9	317.8	338.5	432.0	466.4	514.6	1970.9	4212.3	4291.1	3440.9	2794.4
72.5°	210.6	209.6	253.9	350.3	471.3	471.3	1097.1	3392.7	3467.5	3172.3	2427.4
75°	114.1	121.0	168.3	264.7	432.0	455.6	624.8	2482.5	2587.8	2466.8	1877.4
77.5°	62.0	63.0	93.5	173.2	359.1	434.9	417.2	1688.5	1729.8	1487.7	1028.2
80°	32.5	33.5	49.2	113.2	248.0	403.4	347.3	1006.6	967.2	570.7	339.5
82.5°	14.8	15.7	24.6	70.8	158.4	317.8	300.1	486.1	448.7	159.4	103.3
85°	5.9	5.9	10.8	42.3	92.5	156.4	256.8	244.0	203.7	48.2	51.2
87.5°	2.0	2.0	3.0	16.7	37.4	93.5	136.8	128.9	88.6	17.7	27.6
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°	1001.7	1001.7	1001.7	1001.7	1001.7	1001.7	1001.7	1001.7	1001.7	1001.7	1001.7
2.5°	993.8	1004.6	1001.7	999.7	981.0	979.0	977.1	959.4	965.3	950.5	960.3
5°	999.7	1005.6	989.9	960.3	933.8	904.3	881.6	865.9	837.4	826.5	824.6
7.5°	993.8	993.8	961.3	914.1	861.9	813.7	752.7	709.4	677.0	652.4	661.2
10°	985.9	974.1	940.7	857.0	762.6	689.8	602.2	538.2	490.0	474.3	464.4
12.5°	985.9	965.3	890.5	776.3	654.3	544.1	439.8	356.2	309.9	282.4	278.5
15°	977.1	946.6	854.1	700.6	549.0	399.5	280.4	208.6	169.2	158.4	154.5
17.5°	979.0	942.6	800.0	611.0	426.1	265.7	171.2	131.9	122.0	117.1	118.1
20°	983.0	942.6	751.7	523.5	307.0	165.3	118.1	111.2	106.3	104.3	105.3
22.5°	995.8	923.9	702.5	433.9	207.6	119.1	104.3	97.4	93.5	90.5	89.5
25°	997.7	921.0	655.3	345.4	142.7	100.4	91.5	83.6	78.7	74.8	73.8
27.5°	994.8	908.2	589.4	256.8	107.3	89.5	77.7	69.9	63.0	60.0	59.0
30°	1005.6	884.6	533.3	185.0	90.5	77.7	65.9	57.1	51.2	47.2	47.2
32.5°	1006.6	863.9	471.3	131.9	82.7	68.9	56.1	46.2	40.3	38.4	38.4
35°	1007.6	845.2	402.4	100.4	73.8	59.0	46.2	38.4	34.4	31.5	31.5
37.5°	1010.5	831.4	339.5	84.6	65.9	50.2	38.4	31.5	27.6	26.6	26.6
40°	1016.4	812.8	273.5	74.8	57.1	42.3	32.5	26.6	22.6	21.6	20.7
42.5°	1032.2	807.8	218.4	66.9	51.2	35.4	26.6	21.6	18.7	16.7	15.7
45°	1097.1	820.6	169.2	62.0	43.3	29.5	22.6	17.7	13.8	12.8	11.8
47.5°	1203.4	862.9	133.8	55.1	36.4	24.6	18.7	13.8	10.8	9.8	8.9
50°	1364.8	959.4	109.2	49.2	30.5	20.7	14.8	10.8	7.9	6.9	6.9
52.5°	1576.3	1089.2	94.5	43.3	24.6	17.7	11.8	7.9	5.9	4.9	4.9
55°	1792.8	1242.7	88.6	37.4	20.7	14.8	8.9	5.9	3.9	3.0	3.0
57.5°	1991.5	1342.1	85.6	30.5	17.7	10.8	6.9	3.9	2.0	1.0	1.0
60°	2115.5	1414.9	76.7	24.6	13.8	8.9	4.9	2.0	1.0	0.0	0.0
62.5°	2278.9	1488.7	63.0	18.7	9.8	5.9	3.0	1.0	0.0	0.0	0.0
65°	2494.3	1571.4	49.2	14.8	7.9	3.9	2.0	1.0	0.0	0.0	0.0
67.5°	2597.7	1528.1	33.5	10.8	4.9	2.0	1.0	0.0	0.0	0.0	0.0
70°	2391.0	1287.0	23.6	7.9	3.0	1.0	1.0	0.0	0.0	0.0	0.0
72.5°	2010.2	1008.6	17.7	4.9	2.0	1.0	0.0	0.0	0.0	0.0	0.0
75°	1481.8	630.7	13.8	3.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	786.2	235.2	9.8	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	232.2	68.9	6.9	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	76.7	20.7	3.9	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	39.4	7.9	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.6	3.0	2.0	2.0	1.0	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)