

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: P676886

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

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676886  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1D-827-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) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

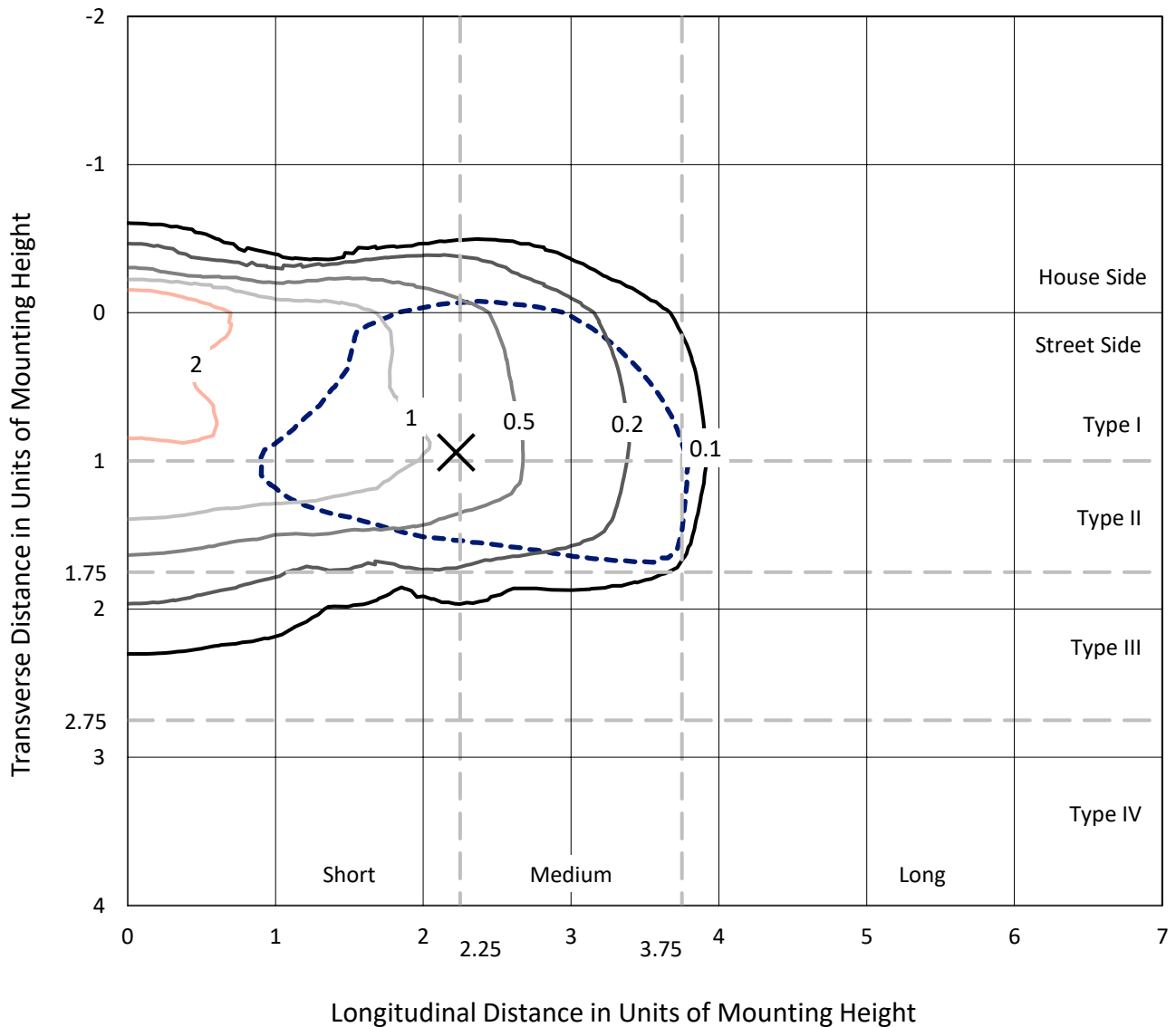
Lumens per Lamp: N/A  
Luminaire Lumens: 3296.7 lumens  
Efficiency: N/A  
Efficacy: 74.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

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

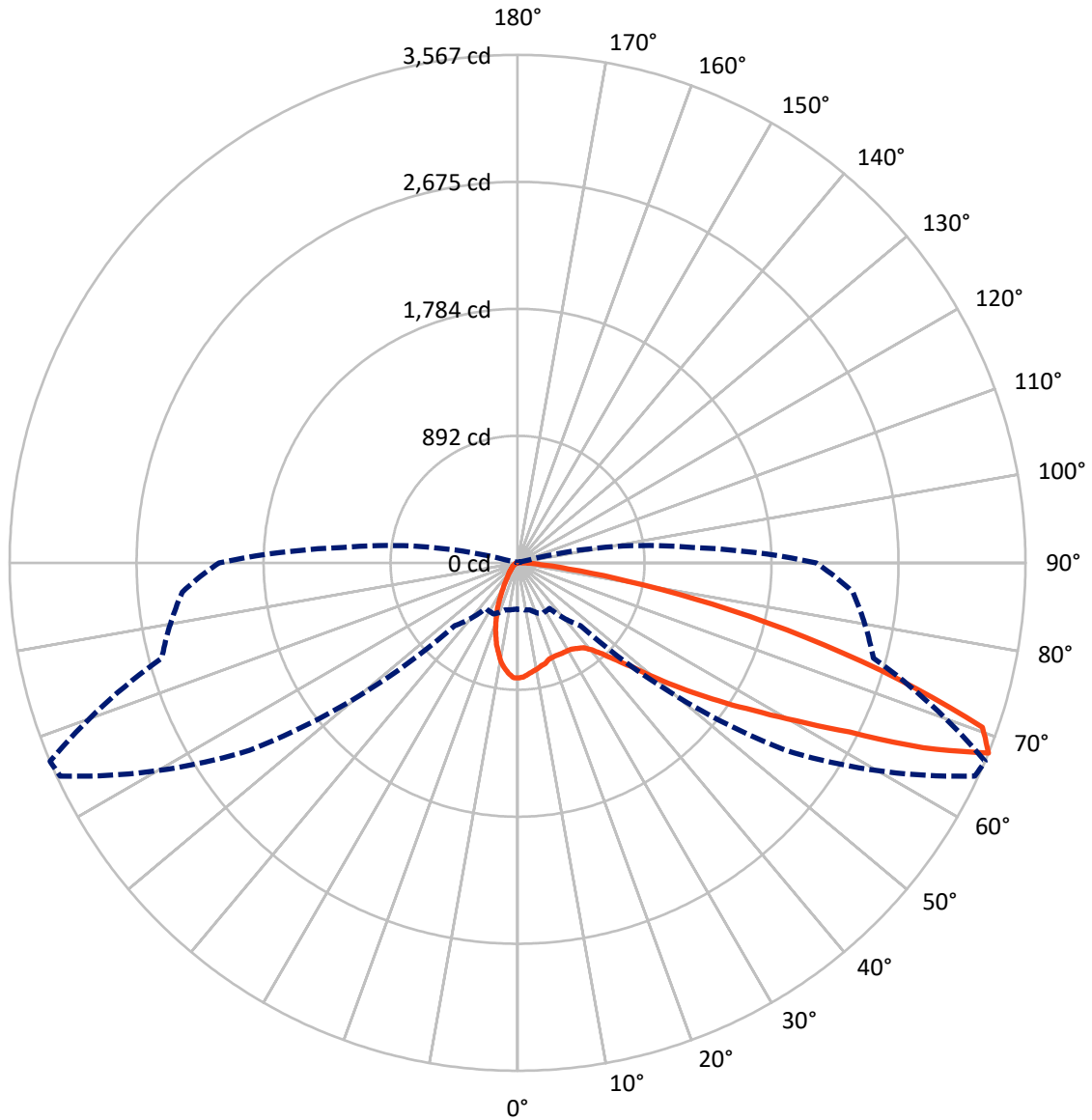
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.6 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	414.9	0.0	414.9
	% Fixture	12.6	0.0	12.6
<b>Street Side</b>	Lumens	2881.8	0.0	2881.8
	% Fixture	87.4	0.0	87.4
<b>Total</b>	Lumens	3296.7	0.0	3296.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.1	2.1
10°-20°	151.4	4.6
20°-30°	215.2	6.5
30°-40°	313.4	9.5
40°-50°	485.0	14.7
50°-60°	744.4	22.6
60°-70°	806.9	24.5
70°-80°	455.2	13.8
80°-90°	57.2	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°	3296.7	100.0
0°-180°	3296.7	100.0

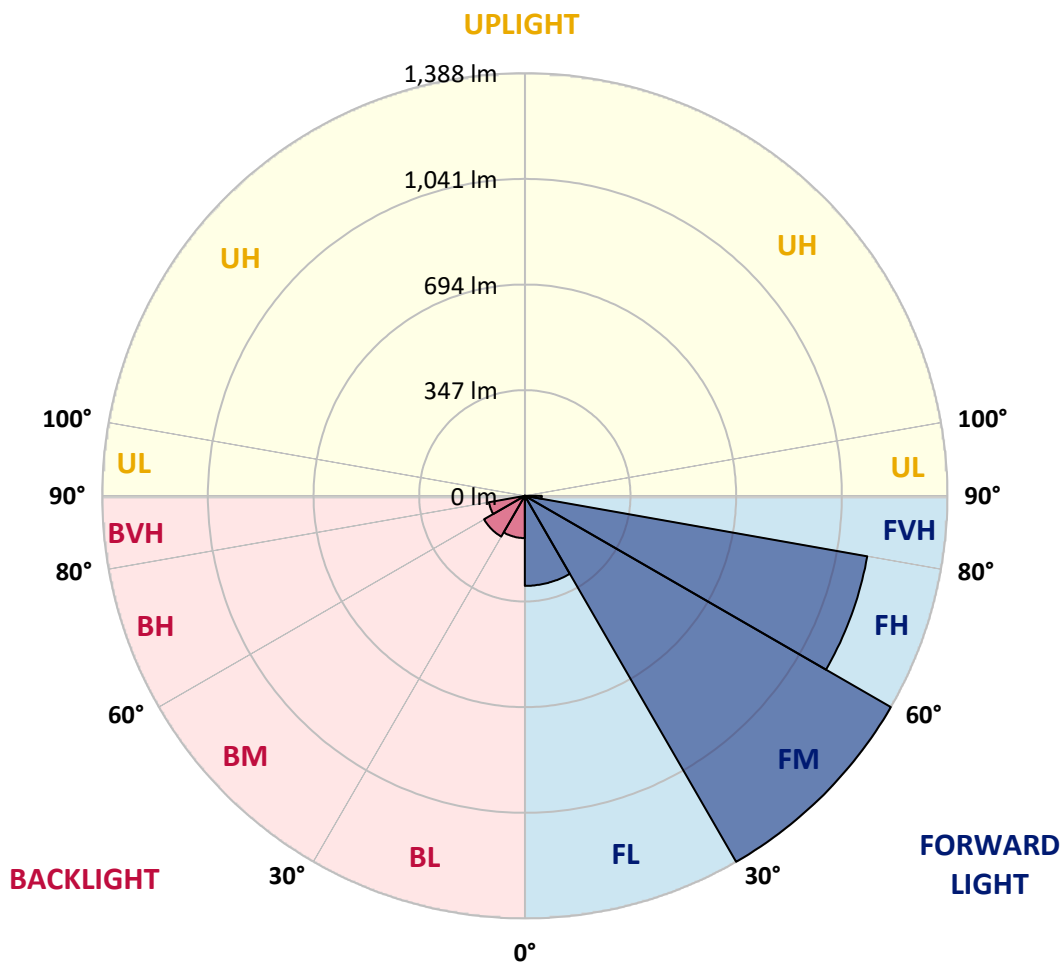


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	295.8	9.0			
FM (30°-60°)	1388.2	42.1			
FH (60°-80°)	1142.2	34.6			G1/1800
FVH (80°-90°)	55.6	1.7			G1/100
BL (0°-30°)	138.9	4.2	B1/500		
BM (30°-60°)	154.5	4.7	B0/220		
BH (60°-80°)	119.8	3.6	B1/500		G1/500
BVH (80°-90°)	1.6	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°	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6
2.5°	773.7	777.6	783.2	791.1	796.7	793.5	795.9	809.4	802.3	808.6	805.4
5°	730.8	734.7	742.7	741.9	748.3	760.2	776.1	793.5	785.6	804.6	811.8
7.5°	686.3	684.7	684.7	701.4	714.9	731.6	740.3	768.9	769.7	786.4	803.9
10°	645.8	650.5	658.5	664.8	677.6	701.4	726.8	749.0	757.8	791.1	795.9
12.5°	621.2	623.5	633.1	638.6	655.3	678.4	705.4	734.0	741.1	775.3	798.3
15°	610.8	616.4	619.6	629.9	638.6	660.1	679.9	712.5	733.2	760.2	788.8
17.5°	618.8	616.4	618.0	621.2	631.5	650.5	672.0	704.6	711.7	757.0	799.9
20°	629.1	629.9	625.1	623.5	621.2	639.4	656.9	699.0	706.9	757.0	807.0
22.5°	656.9	648.2	656.9	644.2	631.5	639.4	656.1	699.8	705.4	756.2	814.2
25°	691.1	692.6	695.0	668.0	649.8	644.2	661.7	702.2	706.9	762.5	817.4
27.5°	739.5	746.7	734.7	721.2	684.7	656.9	660.9	700.6	709.3	759.4	825.3
30°	804.6	799.1	800.7	769.7	734.0	690.3	679.1	704.6	710.9	763.3	840.4
32.5°	861.0	854.7	865.8	854.7	798.3	737.9	700.6	712.5	719.7	772.9	853.1
35°	896.0	903.9	921.4	933.3	885.7	799.9	736.3	734.0	737.1	777.6	862.6
37.5°	950.0	964.3	978.6	1008.8	967.5	876.1	792.7	761.8	756.2	800.7	867.4
40°	1008.8	1004.8	1046.9	1082.7	1081.1	983.4	871.4	811.0	803.1	837.2	899.2
42.5°	1058.0	1054.1	1100.9	1159.7	1166.1	1086.6	961.1	880.9	873.8	893.6	938.1
45°	1122.4	1125.6	1181.2	1251.1	1274.1	1223.3	1082.7	981.0	977.0	970.7	1012.0
47.5°	1179.6	1197.0	1244.7	1327.3	1410.7	1364.6	1225.6	1127.1	1099.3	1085.0	1126.3
50°	1219.3	1235.2	1293.2	1381.3	1533.8	1563.2	1386.1	1282.8	1283.6	1248.7	1270.9
52.5°	1219.3	1218.5	1265.4	1381.3	1619.6	1770.5	1600.6	1479.0	1485.4	1448.8	1450.4
55°	1101.7	1099.3	1156.5	1279.7	1610.1	1969.9	1925.4	1727.6	1711.8	1641.1	1648.2
57.5°	887.3	892.8	936.5	1084.2	1486.2	2062.9	2312.3	2007.3	1953.2	1807.1	1807.1
60°	647.4	642.6	675.2	778.4	1190.7	2027.9	2630.0	2336.9	2251.9	1944.5	1923.8
62.5°	492.5	491.7	500.4	535.4	755.4	1768.2	2766.6	2756.3	2618.1	2079.5	2050.1
65°	398.0	399.5	411.5	436.1	461.5	1205.8	2694.3	3256.7	3130.4	2280.5	2184.4
67.5°	324.9	328.8	343.1	396.4	390.8	624.3	2294.8	3543.5	3567.3	2587.1	2364.7
70°	250.2	256.6	273.2	348.7	376.5	415.4	1591.0	3400.5	3464.0	2777.7	2255.9
72.5°	170.0	169.2	204.9	282.8	380.5	380.5	885.7	2738.8	2799.2	2560.9	1959.6
75°	92.1	97.7	135.8	213.7	348.7	367.8	504.4	2004.1	2089.1	1991.4	1515.6
77.5°	50.0	50.8	75.5	139.8	289.9	351.1	336.8	1363.1	1396.4	1201.0	830.1
80°	26.2	27.0	39.7	91.3	200.2	325.7	280.4	812.6	780.8	460.7	274.0
82.5°	11.9	12.7	19.9	57.2	127.9	256.6	242.3	392.4	362.2	128.7	83.4
85°	4.8	4.8	8.7	34.2	74.7	126.3	207.3	197.0	164.4	38.9	41.3
87.5°	1.6	1.6	2.4	13.5	30.2	75.5	110.4	104.1	71.5	14.3	22.2
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°	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6
2.5°	802.3	811.0	808.6	807.0	791.9	790.3	788.8	774.5	779.2	767.3	775.3
5°	807.0	811.8	799.1	775.3	753.8	730.0	711.7	699.0	676.0	667.2	665.6
7.5°	802.3	802.3	776.1	737.9	695.8	656.9	607.7	572.7	546.5	526.6	533.8
10°	795.9	786.4	759.4	691.9	615.6	556.8	486.1	434.5	395.6	382.9	374.9
12.5°	795.9	779.2	718.9	626.7	528.2	439.3	355.1	287.5	250.2	228.0	224.8
15°	788.8	764.1	689.5	565.6	443.2	322.5	226.4	168.4	136.6	127.9	124.7
17.5°	790.3	761.0	645.8	493.3	343.9	214.5	138.2	106.4	98.5	94.5	95.3
20°	793.5	761.0	606.9	422.6	247.8	133.4	95.3	89.8	85.8	84.2	85.0
22.5°	803.9	745.9	567.1	350.3	167.6	96.1	84.2	78.6	75.5	73.1	72.3
25°	805.4	743.5	529.0	278.8	115.2	81.0	73.9	67.5	63.5	60.4	59.6
27.5°	803.1	733.2	475.8	207.3	86.6	72.3	62.8	56.4	50.8	48.5	47.7
30°	811.8	714.1	430.5	149.3	73.1	62.8	53.2	46.1	41.3	38.1	38.1
32.5°	812.6	697.4	380.5	106.4	66.7	55.6	45.3	37.3	32.6	31.0	31.0
35°	813.4	682.3	324.9	81.0	59.6	47.7	37.3	31.0	27.8	25.4	25.4
37.5°	815.8	671.2	274.0	68.3	53.2	40.5	31.0	25.4	22.2	21.4	21.4
40°	820.5	656.1	220.8	60.4	46.1	34.2	26.2	21.4	18.3	17.5	16.7
42.5°	833.2	652.1	176.3	54.0	41.3	28.6	21.4	17.5	15.1	13.5	12.7
45°	885.7	662.5	136.6	50.0	35.0	23.8	18.3	14.3	11.1	10.3	9.5
47.5°	971.5	696.6	108.0	44.5	29.4	19.9	15.1	11.1	8.7	7.9	7.1
50°	1101.7	774.5	88.2	39.7	24.6	16.7	11.9	8.7	6.4	5.6	5.6
52.5°	1272.5	879.3	76.3	35.0	19.9	14.3	9.5	6.4	4.8	4.0	4.0
55°	1447.3	1003.2	71.5	30.2	16.7	11.9	7.1	4.8	3.2	2.4	2.4
57.5°	1607.7	1083.5	69.1	24.6	14.3	8.7	5.6	3.2	1.6	0.8	0.8
60°	1707.8	1142.2	62.0	19.9	11.1	7.1	4.0	1.6	0.8	0.0	0.0
62.5°	1839.6	1201.8	50.8	15.1	7.9	4.8	2.4	0.8	0.0	0.0	0.0
65°	2013.6	1268.5	39.7	11.9	6.4	3.2	1.6	0.8	0.0	0.0	0.0
67.5°	2097.0	1233.6	27.0	8.7	4.0	1.6	0.8	0.0	0.0	0.0	0.0
70°	1930.2	1039.0	19.1	6.4	2.4	0.8	0.8	0.0	0.0	0.0	0.0
72.5°	1622.8	814.2	14.3	4.0	1.6	0.8	0.0	0.0	0.0	0.0	0.0
75°	1196.2	509.2	11.1	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	634.7	189.8	7.9	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	187.5	55.6	5.6	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	62.0	16.7	3.2	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.8	6.4	1.6	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.3	2.4	1.6	1.6	0.8	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)