

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: P676930

Luminaire Tested: **CCW-SA-1D-850-U-SL2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676930
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-850-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) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

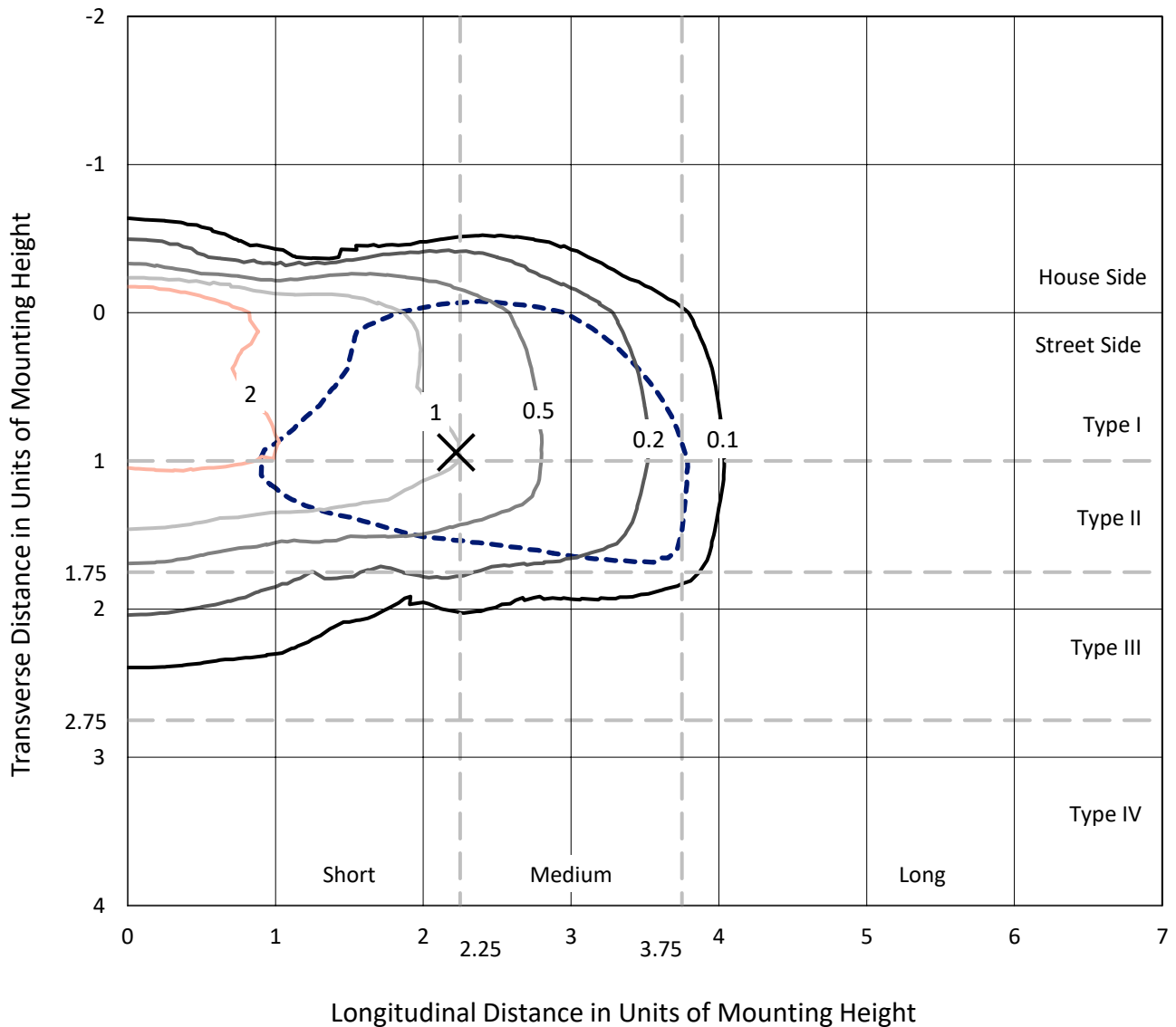
Lumens per Lamp: N/A
Luminaire Lumens: 3913.3 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
Input Voltage (V): 120
Input Current (A_{in}): 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

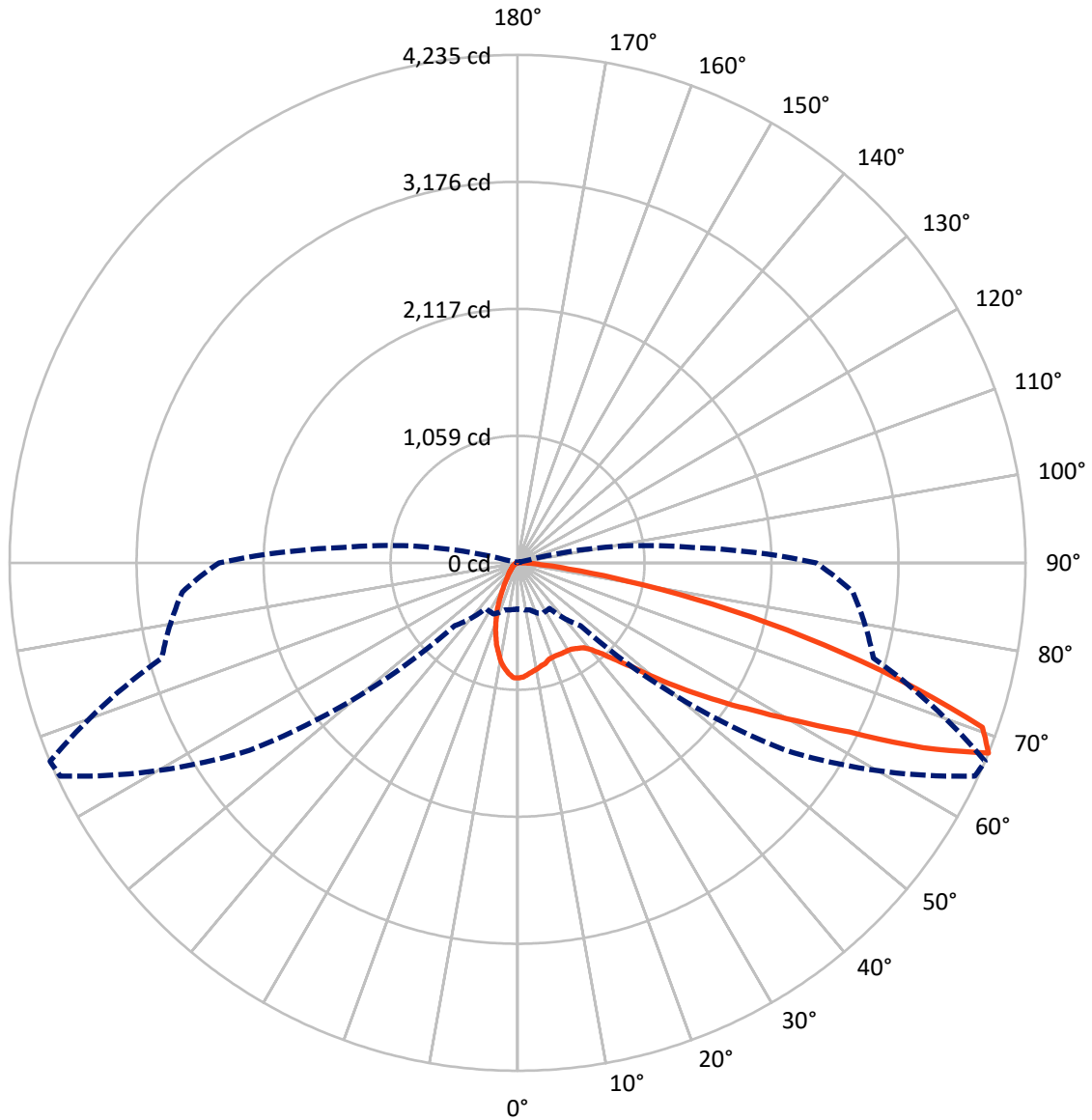
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.3 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	492.5	0.0	492.5
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	3420.8	0.0	3420.8
	% Fixture	87.4	0.0	87.4
Total	Lumens	3913.3	0.0	3913.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.9	2.1
10°-20°	179.7	4.6
20°-30°	255.5	6.5
30°-40°	372.0	9.5
40°-50°	575.7	14.7
50°-60°	883.6	22.6
60°-70°	957.8	24.5
70°-80°	540.4	13.8
80°-90°	67.9	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°	3913.3	100.0
0°-180°	3913.3	100.0

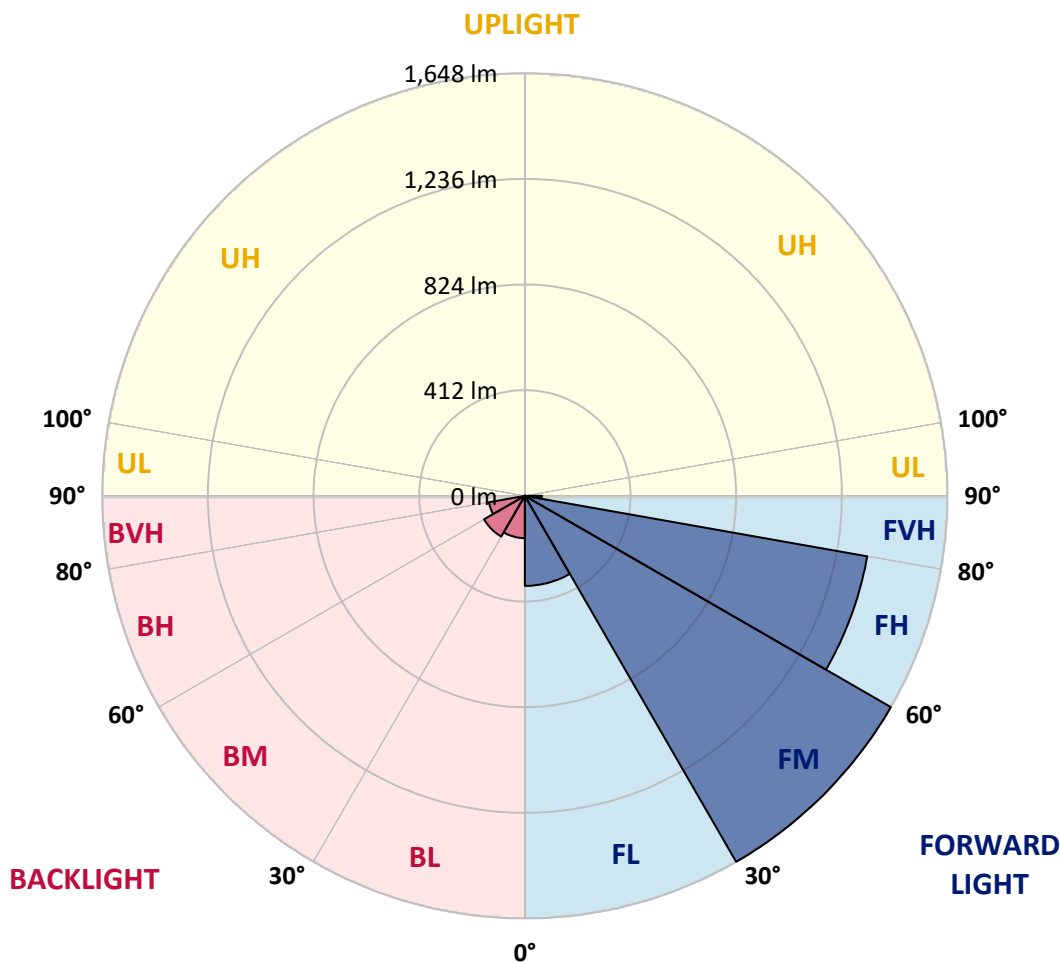


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	351.1	9.0			
FM (30°-60°)	1647.9	42.1			
FH (60°-80°)	1355.9	34.6			G1/1800
FVH (80°-90°)	65.9	1.7			G1/100
BL (0°-30°)	164.9	4.2	B1/500		
BM (30°-60°)	183.4	4.7	B0/220		
BH (60°-80°)	142.3	3.6	B1/500		G1/500
BVH (80°-90°)	1.9	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°	959.9	959.9	959.9	959.9	959.9	959.9	959.9	959.9	959.9	959.9	959.9
2.5°	918.4	923.1	929.7	939.1	945.7	942.0	944.8	960.8	952.3	959.9	956.1
5°	867.5	872.2	881.6	880.7	888.2	902.4	921.2	942.0	932.5	955.2	963.6
7.5°	814.7	812.8	812.8	832.6	848.6	868.4	878.8	912.7	913.7	933.5	954.2
10°	766.6	772.2	781.7	789.2	804.3	832.6	862.8	889.2	899.5	939.1	944.8
12.5°	737.3	740.2	751.5	758.1	777.9	805.2	837.3	871.2	879.7	920.3	947.6
15°	725.1	731.7	735.5	747.7	758.1	783.5	807.1	845.8	870.3	902.4	936.3
17.5°	734.5	731.7	733.6	737.3	749.6	772.2	797.7	836.4	844.8	898.6	949.5
20°	746.8	747.7	742.1	740.2	737.3	759.0	779.8	829.8	839.2	898.6	958.0
22.5°	779.8	769.4	779.8	764.7	749.6	759.0	778.8	830.7	837.3	897.6	966.5
25°	820.3	822.2	825.0	793.0	771.3	764.7	785.4	833.5	839.2	905.2	970.2
27.5°	877.8	886.3	872.2	856.2	812.8	779.8	784.5	831.6	842.0	901.4	979.7
30°	955.2	948.6	950.4	913.7	871.2	819.4	806.2	836.4	843.9	906.1	997.6
32.5°	1022.1	1014.6	1027.8	1014.6	947.6	876.0	831.6	845.8	854.3	917.4	1012.7
35°	1063.6	1073.0	1093.8	1107.9	1051.3	949.5	874.1	871.2	875.0	923.1	1024.0
37.5°	1127.7	1144.7	1161.7	1197.5	1148.5	1040.0	941.0	904.2	897.6	950.4	1029.6
40°	1197.5	1192.8	1242.7	1285.2	1283.3	1167.3	1034.4	962.7	953.3	993.8	1067.4
42.5°	1255.9	1251.2	1306.9	1376.6	1384.2	1289.9	1140.9	1045.7	1037.2	1060.8	1113.6
45°	1332.3	1336.1	1402.1	1485.1	1512.4	1452.1	1285.2	1164.5	1159.8	1152.2	1201.3
47.5°	1400.2	1420.9	1477.5	1575.6	1674.6	1619.9	1454.9	1338.0	1305.0	1288.0	1337.0
50°	1447.3	1466.2	1535.0	1639.7	1820.7	1855.6	1645.4	1522.8	1523.7	1482.2	1508.6
52.5°	1447.3	1446.4	1502.0	1639.7	1922.6	2101.7	1899.9	1755.7	1763.2	1719.8	1721.7
55°	1307.8	1305.0	1372.9	1519.0	1911.3	2338.4	2285.6	2050.8	2031.9	1948.0	1956.5
57.5°	1053.2	1059.8	1111.7	1287.1	1764.2	2448.7	2744.8	2382.7	2318.6	2145.1	2145.1
60°	768.5	762.8	801.5	924.0	1413.4	2407.2	3121.9	2774.0	2673.1	2308.2	2283.7
62.5°	584.6	583.7	594.0	635.5	896.7	2098.9	3284.1	3271.9	3107.8	2468.5	2433.6
65°	472.4	474.3	488.4	517.7	547.8	1431.3	3198.3	3865.9	3716.0	2707.1	2593.0
67.5°	385.6	390.4	407.3	470.5	463.9	741.1	2724.0	4206.3	4234.6	3071.0	2807.0
70°	297.0	304.6	324.4	413.9	446.9	493.1	1888.6	4036.5	4112.0	3297.3	2677.8
72.5°	201.8	200.8	243.3	335.7	451.6	451.6	1051.3	3251.1	3322.8	3039.9	2326.1
75°	109.4	116.0	161.2	253.6	413.9	436.6	598.7	2378.9	2479.8	2363.8	1799.1
77.5°	59.4	60.3	89.6	166.0	344.2	416.8	399.8	1618.0	1657.6	1425.7	985.3
80°	31.1	32.1	47.1	108.4	237.6	386.6	332.8	964.6	926.9	546.9	325.3
82.5°	14.1	15.1	23.6	67.9	151.8	304.6	287.6	465.8	430.0	152.7	99.0
85°	5.7	5.7	10.4	40.5	88.6	149.9	246.1	233.8	195.2	46.2	49.0
87.5°	1.9	1.9	2.8	16.0	35.8	89.6	131.1	123.5	84.9	17.0	26.4
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°	959.9	959.9	959.9	959.9	959.9	959.9	959.9	959.9	959.9	959.9	959.9
2.5°	952.3	962.7	959.9	958.0	940.1	938.2	936.3	919.3	925.0	910.8	920.3
5°	958.0	963.6	948.6	920.3	894.8	866.5	844.8	829.8	802.4	792.0	790.1
7.5°	952.3	952.3	921.2	876.0	826.0	779.8	721.3	679.8	648.7	625.1	633.6
10°	944.8	933.5	901.4	821.3	730.7	661.0	577.1	515.8	469.6	454.5	445.0
12.5°	944.8	925.0	853.3	743.9	627.0	521.4	421.5	341.3	297.0	270.6	266.8
15°	936.3	907.1	818.4	671.3	526.1	382.8	268.7	199.9	162.2	151.8	148.0
17.5°	938.2	903.3	766.6	585.5	408.3	254.6	164.1	126.3	116.9	112.2	113.1
20°	942.0	903.3	720.4	501.6	294.2	158.4	113.1	106.5	101.8	99.9	100.9
22.5°	954.2	885.4	673.2	415.8	199.0	114.1	99.9	93.3	89.6	86.7	85.8
25°	956.1	882.6	628.0	331.0	136.7	96.2	87.7	80.1	75.4	71.7	70.7
27.5°	953.3	870.3	564.8	246.1	102.8	85.8	74.5	66.9	60.3	57.5	56.6
30°	963.6	847.7	511.1	177.3	86.7	74.5	63.2	54.7	49.0	45.3	45.3
32.5°	964.6	827.9	451.6	126.3	79.2	66.0	53.7	44.3	38.7	36.8	36.8
35°	965.5	810.0	385.6	96.2	70.7	56.6	44.3	36.8	33.0	30.2	30.2
37.5°	968.4	796.7	325.3	81.1	63.2	48.1	36.8	30.2	26.4	25.5	25.5
40°	974.0	778.8	262.1	71.7	54.7	40.5	31.1	25.5	21.7	20.7	19.8
42.5°	989.1	774.1	209.3	64.1	49.0	33.9	25.5	20.7	17.9	16.0	15.1
45°	1051.3	786.4	162.2	59.4	41.5	28.3	21.7	17.0	13.2	12.3	11.3
47.5°	1153.2	826.9	128.2	52.8	34.9	23.6	17.9	13.2	10.4	9.4	8.5
50°	1307.8	919.3	104.7	47.1	29.2	19.8	14.1	10.4	7.5	6.6	6.6
52.5°	1510.5	1043.8	90.5	41.5	23.6	17.0	11.3	7.5	5.7	4.7	4.7
55°	1718.0	1190.9	84.9	35.8	19.8	14.1	8.5	5.7	3.8	2.8	2.8
57.5°	1908.4	1286.1	82.0	29.2	17.0	10.4	6.6	3.8	1.9	0.9	0.9
60°	2027.2	1355.9	73.5	23.6	13.2	8.5	4.7	1.9	0.9	0.0	0.0
62.5°	2183.8	1426.6	60.3	17.9	9.4	5.7	2.8	0.9	0.0	0.0	0.0
65°	2390.2	1505.8	47.1	14.1	7.5	3.8	1.9	0.9	0.0	0.0	0.0
67.5°	2489.3	1464.3	32.1	10.4	4.7	1.9	0.9	0.0	0.0	0.0	0.0
70°	2291.2	1233.3	22.6	7.5	2.8	0.9	0.9	0.0	0.0	0.0	0.0
72.5°	1926.3	966.5	17.0	4.7	1.9	0.9	0.0	0.0	0.0	0.0	0.0
75°	1420.0	604.4	13.2	3.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	753.4	225.4	9.4	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	222.5	66.0	6.6	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	73.5	19.8	3.8	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	37.7	7.5	1.9	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.7	2.8	1.9	1.9	0.9	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)