

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: P676919

Luminaire Tested: **CCW-SA-1D-840-U-SL2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676919
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-840-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) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

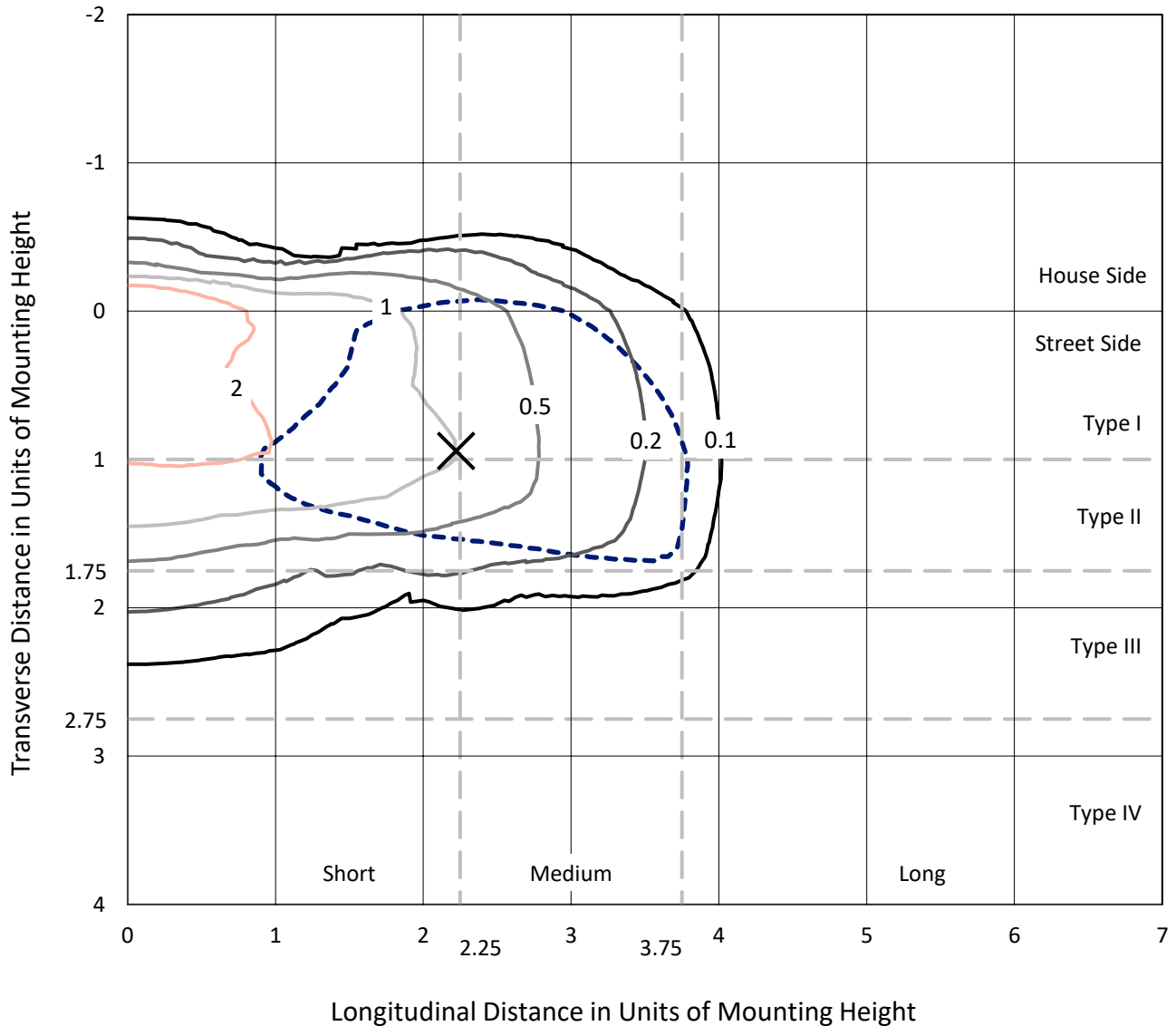
Lumens per Lamp: N/A
Luminaire Lumens: 3823.6 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

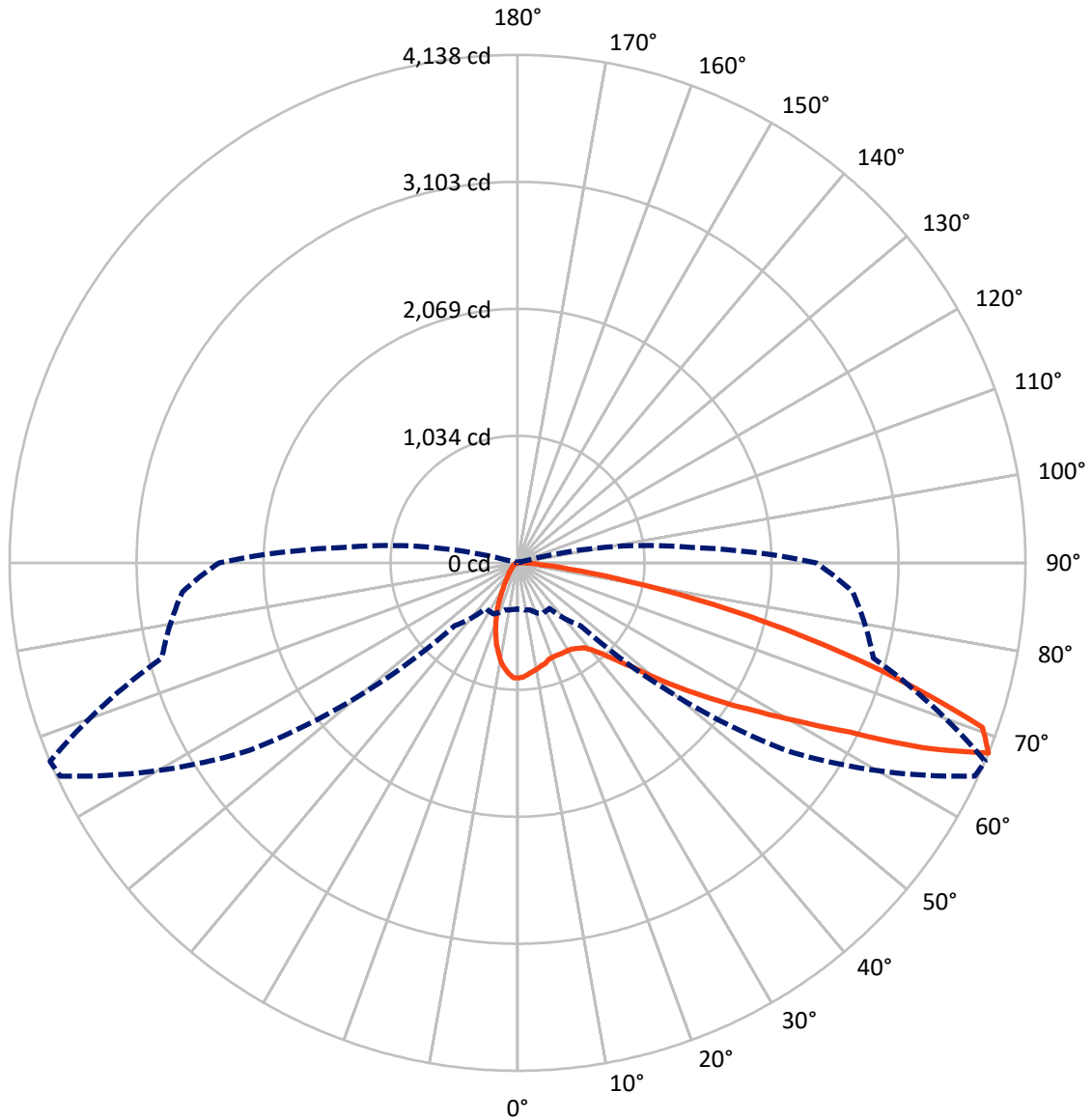
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.2 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	481.2	0.0	481.2
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	3342.4	0.0	3342.4
	% Fixture	87.4	0.0	87.4
Total	Lumens	3823.6	0.0	3823.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.0	2.1
10°-20°	175.5	4.6
20°-30°	249.6	6.5
30°-40°	363.5	9.5
40°-50°	562.5	14.7
50°-60°	863.3	22.6
60°-70°	935.8	24.5
70°-80°	528.0	13.8
80°-90°	66.3	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°	3823.6	100.0
0°-180°	3823.6	100.0

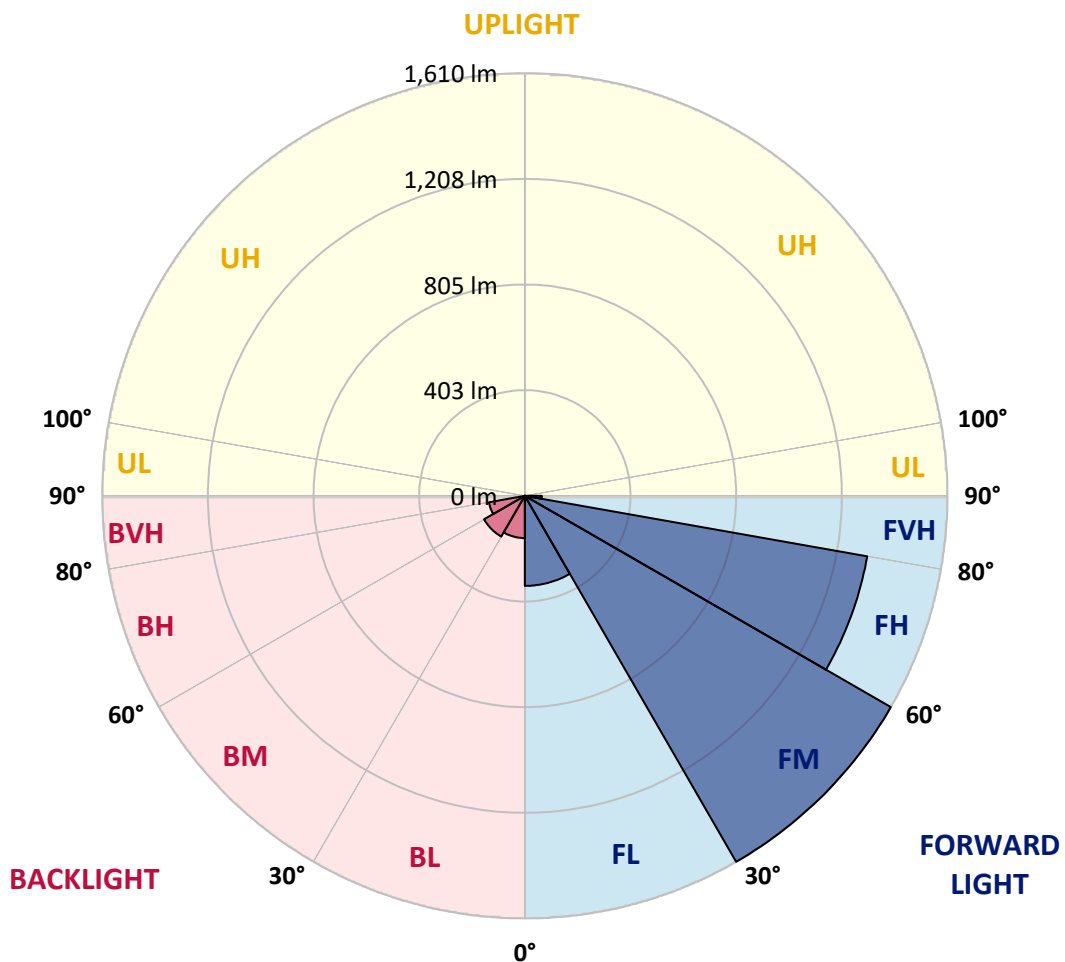


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	343.1	9.0			
FM (30°-60°)	1610.1	42.1			
FH (60°-80°)	1324.8	34.6			G1/1800
FVH (80°-90°)	64.4	1.7			G1/100
BL (0°-30°)	161.1	4.2	B1/500		
BM (30°-60°)	179.2	4.7	B0/220		
BH (60°-80°)	139.0	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°	937.9	937.9	937.9	937.9	937.9	937.9	937.9	937.9	937.9	937.9	937.9
2.5°	897.3	901.9	908.4	917.6	924.1	920.4	923.1	938.8	930.5	937.9	934.2
5°	847.6	852.2	861.4	860.5	867.9	881.7	900.1	920.4	911.2	933.3	941.6
7.5°	796.0	794.1	794.1	813.5	829.2	848.5	858.6	891.8	892.7	912.1	932.3
10°	749.0	754.5	763.7	771.1	785.9	813.5	843.0	868.8	878.9	917.6	923.1
12.5°	720.4	723.2	734.3	740.7	760.1	786.8	818.1	851.3	859.6	899.2	925.9
15°	708.5	714.9	718.6	730.6	740.7	765.6	788.6	826.4	850.3	881.7	914.8
17.5°	717.7	714.9	716.8	720.4	732.4	754.5	779.4	817.2	825.5	878.0	927.7
20°	729.7	730.6	725.1	723.2	720.4	741.6	761.9	810.7	819.9	878.0	936.0
22.5°	761.9	751.8	761.9	747.2	732.4	741.6	761.0	811.7	818.1	877.1	944.3
25°	801.5	803.4	806.1	774.8	753.6	747.2	767.4	814.4	819.9	884.4	948.0
27.5°	857.7	866.0	852.2	836.5	794.1	761.9	766.5	812.6	822.7	880.8	957.2
30°	933.3	926.8	928.7	892.7	851.3	800.6	787.7	817.2	824.6	885.4	974.7
32.5°	998.7	991.3	1004.2	991.3	925.9	855.9	812.6	826.4	834.7	896.4	989.5
35°	1039.2	1048.4	1068.7	1082.5	1027.2	927.7	854.0	851.3	855.0	901.9	1000.5
37.5°	1101.9	1118.4	1135.0	1170.0	1122.1	1016.2	919.4	883.5	877.1	928.7	1006.0
40°	1170.0	1165.4	1214.3	1255.7	1253.9	1140.6	1010.7	940.6	931.4	971.0	1042.9
42.5°	1227.2	1222.5	1276.9	1345.1	1352.5	1260.3	1114.8	1021.7	1013.4	1036.4	1088.0
45°	1301.8	1305.5	1370.0	1451.0	1477.7	1418.8	1255.7	1137.8	1133.2	1125.8	1173.7
47.5°	1368.1	1388.4	1443.7	1539.5	1636.2	1582.8	1421.5	1307.3	1275.1	1258.5	1306.4
50°	1414.2	1432.6	1499.9	1602.1	1779.0	1813.1	1607.6	1487.9	1488.8	1448.3	1474.1
52.5°	1414.2	1413.3	1467.6	1602.1	1878.5	2053.5	1856.4	1715.4	1722.8	1680.4	1682.3
55°	1277.8	1275.1	1341.4	1484.2	1867.4	2284.8	2233.2	2003.8	1985.4	1903.4	1911.7
57.5°	1029.1	1035.5	1086.2	1257.6	1723.7	2392.6	2681.9	2328.1	2265.4	2095.9	2095.9
60°	750.8	745.3	783.1	902.9	1381.0	2352.0	3050.4	2710.4	2611.9	2255.3	2231.4
62.5°	571.2	570.3	580.4	620.9	876.1	2050.8	3208.8	3196.9	3036.6	2411.9	2377.8
65°	461.6	463.4	477.2	505.8	535.3	1398.5	3125.0	3777.3	3630.8	2645.0	2533.5
67.5°	376.8	381.4	398.0	459.7	453.3	724.1	2661.6	4109.9	4137.5	3000.6	2742.7
70°	290.2	297.6	316.9	404.4	436.7	481.8	1845.3	3944.0	4017.7	3221.7	2616.5
72.5°	197.2	196.2	237.7	328.0	441.3	441.3	1027.2	3176.6	3246.6	2970.2	2272.8
75°	106.9	113.3	157.5	247.8	404.4	426.6	585.0	2324.4	2423.0	2309.7	1757.8
77.5°	58.0	59.0	87.5	162.1	336.3	407.2	390.6	1580.9	1619.6	1393.0	962.7
80°	30.4	31.3	46.1	105.9	232.2	377.7	325.2	942.5	905.6	534.3	317.8
82.5°	13.8	14.7	23.0	66.3	148.3	297.6	281.0	455.1	420.1	149.2	96.7
85°	5.5	5.5	10.1	39.6	86.6	146.5	240.5	228.5	190.7	45.1	47.9
87.5°	1.8	1.8	2.8	15.7	35.0	87.5	128.1	120.7	82.9	16.6	25.8
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°	937.9	937.9	937.9	937.9	937.9	937.9	937.9	937.9	937.9	937.9	937.9
2.5°	930.5	940.6	937.9	936.0	918.5	916.7	914.8	898.3	903.8	890.0	899.2
5°	936.0	941.6	926.8	899.2	874.3	846.7	825.5	810.7	784.0	773.9	772.0
7.5°	930.5	930.5	900.1	855.9	807.0	761.9	704.8	664.2	633.8	610.8	619.1
10°	923.1	912.1	880.8	802.4	714.0	645.8	563.8	503.9	458.8	444.1	434.8
12.5°	923.1	903.8	833.8	726.9	612.7	509.5	411.8	333.5	290.2	264.4	260.7
15°	914.8	886.3	799.7	656.0	514.1	374.0	262.6	195.3	158.5	148.3	144.6
17.5°	916.7	882.6	749.0	572.1	398.9	248.7	160.3	123.5	114.2	109.6	110.6
20°	920.4	882.6	703.9	490.1	287.4	154.8	110.6	104.1	99.5	97.7	98.6
22.5°	932.3	865.1	657.8	406.3	194.4	111.5	97.7	91.2	87.5	84.8	83.8
25°	934.2	862.3	613.6	323.4	133.6	94.0	85.7	78.3	73.7	70.0	69.1
27.5°	931.4	850.3	551.9	240.5	100.4	83.8	72.8	65.4	59.0	56.2	55.3
30°	941.6	828.2	499.3	173.2	84.8	72.8	61.7	53.4	47.9	44.2	44.2
32.5°	942.5	808.9	441.3	123.5	77.4	64.5	52.5	43.3	37.8	35.9	35.9
35°	943.4	791.4	376.8	94.0	69.1	55.3	43.3	35.9	32.2	29.5	29.5
37.5°	946.2	778.5	317.8	79.2	61.7	47.0	35.9	29.5	25.8	24.9	24.9
40°	951.7	761.0	256.1	70.0	53.4	39.6	30.4	24.9	21.2	20.3	19.3
42.5°	966.4	756.4	204.5	62.6	47.9	33.2	24.9	20.3	17.5	15.7	14.7
45°	1027.2	768.4	158.5	58.0	40.5	27.6	21.2	16.6	12.9	12.0	11.1
47.5°	1126.7	808.0	125.3	51.6	34.1	23.0	17.5	12.9	10.1	9.2	8.3
50°	1277.8	898.3	102.3	46.1	28.6	19.3	13.8	10.1	7.4	6.4	6.4
52.5°	1475.9	1019.9	88.4	40.5	23.0	16.6	11.1	7.4	5.5	4.6	4.6
55°	1678.6	1163.6	82.9	35.0	19.3	13.8	8.3	5.5	3.7	2.8	2.8
57.5°	1864.7	1256.6	80.2	28.6	16.6	10.1	6.4	3.7	1.8	0.9	0.9
60°	1980.8	1324.8	71.9	23.0	12.9	8.3	4.6	1.8	0.9	0.0	0.0
62.5°	2133.7	1393.9	59.0	17.5	9.2	5.5	2.8	0.9	0.0	0.0	0.0
65°	2335.5	1471.3	46.1	13.8	7.4	3.7	1.8	0.9	0.0	0.0	0.0
67.5°	2432.2	1430.8	31.3	10.1	4.6	1.8	0.9	0.0	0.0	0.0	0.0
70°	2238.7	1205.0	22.1	7.4	2.8	0.9	0.9	0.0	0.0	0.0	0.0
72.5°	1882.2	944.3	16.6	4.6	1.8	0.9	0.0	0.0	0.0	0.0	0.0
75°	1387.5	590.5	12.9	3.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	736.1	220.2	9.2	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	217.4	64.5	6.4	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	71.9	19.3	3.7	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	36.9	7.4	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.2	2.8	1.8	1.8	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)