

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: P676908

Luminaire Tested: **CCW-SA-1D-835-U-SL2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676908
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-835-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, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

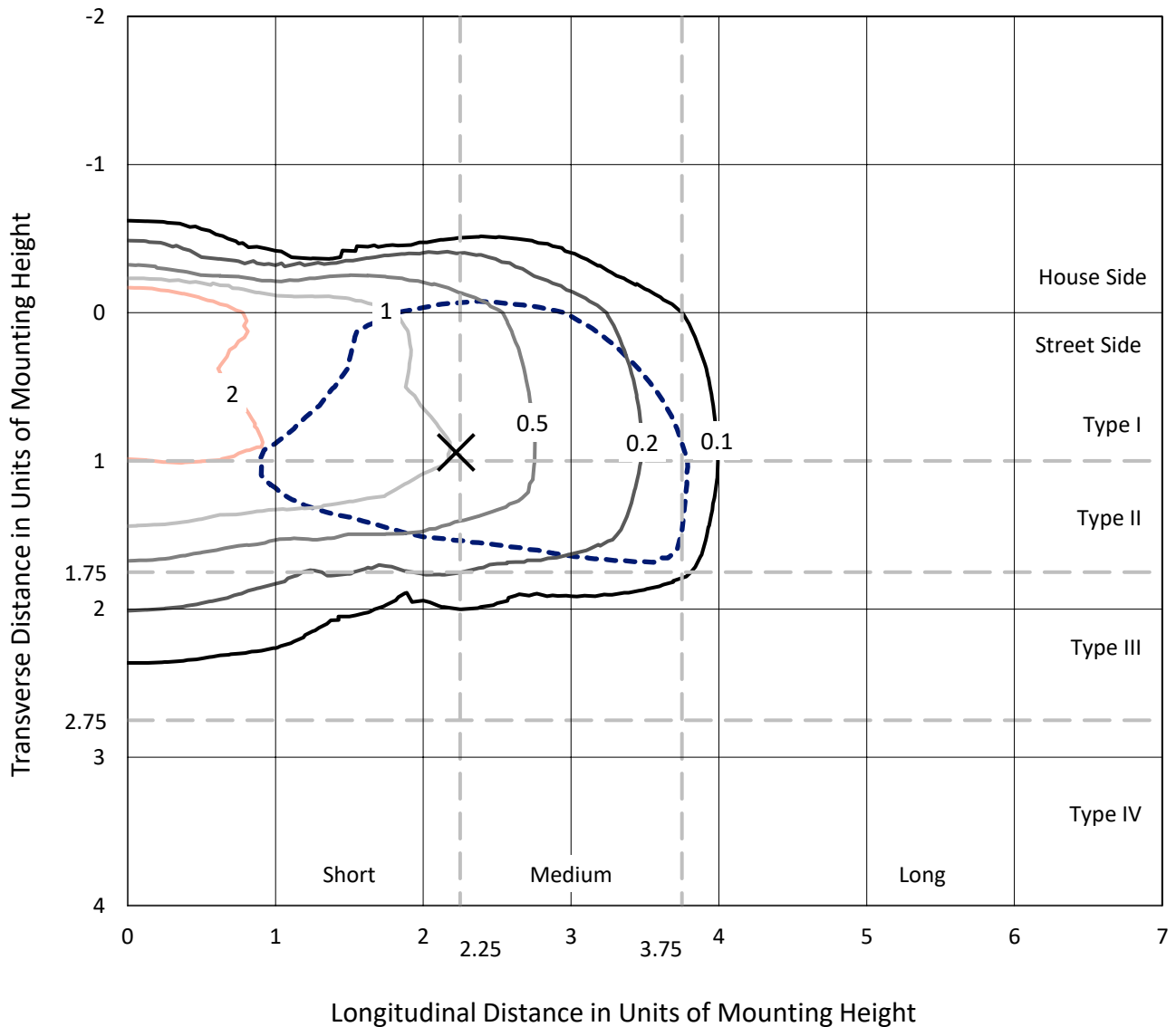
Lumens per Lamp: N/A
Luminaire Lumens: 3695.4 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

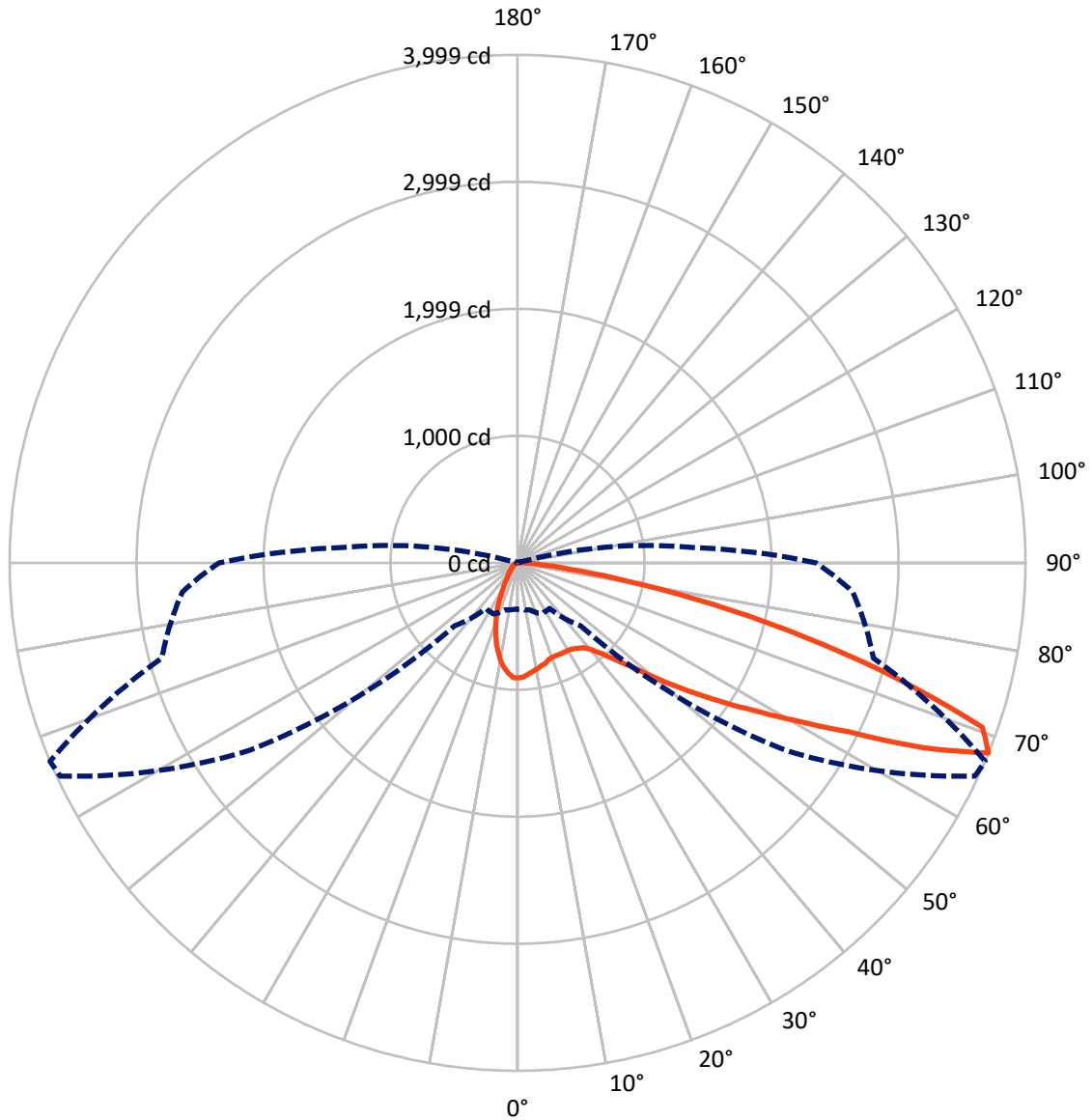
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4 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	465.1	0.0	465.1
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	3230.3	0.0	3230.3
	% Fixture	87.4	0.0	87.4
Total	Lumens	3695.4	0.0	3695.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.4	2.1
10°-20°	169.7	4.6
20°-30°	241.2	6.5
30°-40°	351.3	9.5
40°-50°	543.7	14.7
50°-60°	834.4	22.6
60°-70°	904.5	24.5
70°-80°	510.3	13.8
80°-90°	64.1	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°	3695.4	100.0
0°-180°	3695.4	100.0

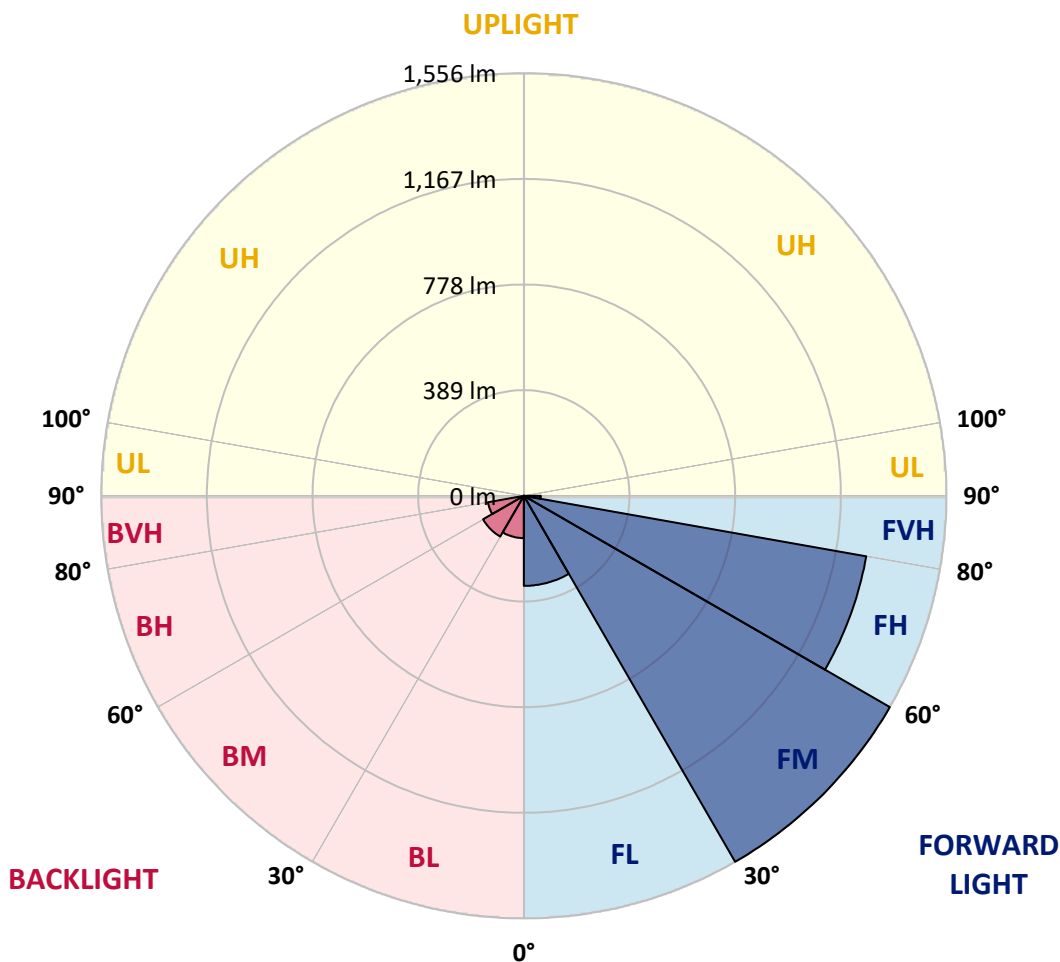


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	331.6	9.0			
FM (30°-60°)	1556.1	42.1			
FH (60°-80°)	1280.4	34.6			G1/1800
FVH (80°-90°)	62.3	1.7			G1/100
BL (0°-30°)	155.7	4.2	B1/500		
BM (30°-60°)	173.2	4.7	B0/220		
BH (60°-80°)	134.3	3.6	B1/500		G1/500
BVH (80°-90°)	1.8	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°	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4
2.5°	867.2	871.7	877.9	886.8	893.1	889.5	892.2	907.3	899.3	906.4	902.8
5°	819.2	823.6	832.5	831.6	838.7	852.1	869.9	889.5	880.6	902.0	910.0
7.5°	769.3	767.5	767.5	786.2	801.3	820.0	829.8	861.9	862.8	881.5	901.1
10°	723.9	729.2	738.1	745.3	759.5	786.2	814.7	839.6	849.4	886.8	892.2
12.5°	696.3	699.0	709.6	715.9	734.6	760.4	790.7	822.7	830.7	869.0	894.8
15°	684.7	690.9	694.5	706.1	715.9	739.9	762.2	798.7	821.8	852.1	884.2
17.5°	693.6	690.9	692.7	696.3	707.9	729.2	753.3	789.8	797.8	848.5	896.6
20°	705.2	706.1	700.7	699.0	696.3	716.8	736.3	783.5	792.4	848.5	904.6
22.5°	736.3	726.6	736.3	722.1	707.9	716.8	735.5	784.4	790.7	847.6	912.6
25°	774.6	776.4	779.1	748.8	728.3	722.1	741.7	787.1	792.4	854.8	916.2
27.5°	828.9	837.0	823.6	808.5	767.5	736.3	740.8	785.3	795.1	851.2	925.1
30°	902.0	895.7	897.5	862.8	822.7	773.7	761.3	789.8	796.9	855.7	942.0
32.5°	965.2	958.1	970.5	958.1	894.8	827.2	785.3	798.7	806.7	866.3	956.3
35°	1004.4	1013.3	1032.8	1046.2	992.8	896.6	825.4	822.7	826.3	871.7	967.0
37.5°	1064.9	1080.9	1097.0	1130.8	1084.5	982.1	888.6	853.9	847.6	897.5	972.3
40°	1130.8	1126.3	1173.5	1213.6	1211.8	1102.3	976.8	909.1	900.2	938.5	1007.9
42.5°	1186.0	1181.5	1234.1	1300.0	1307.1	1218.0	1077.4	987.4	979.4	1001.7	1051.5
45°	1258.1	1261.7	1324.0	1402.4	1428.2	1371.2	1213.6	1099.6	1095.2	1088.0	1134.3
47.5°	1322.2	1341.8	1395.2	1487.8	1581.3	1529.7	1373.9	1263.5	1232.3	1216.3	1262.6
50°	1366.7	1384.5	1449.5	1548.4	1719.3	1752.3	1553.7	1438.0	1438.9	1399.7	1424.6
52.5°	1366.7	1365.8	1418.4	1548.4	1815.5	1984.7	1794.1	1657.9	1665.0	1624.1	1625.8
55°	1235.0	1232.3	1296.4	1434.4	1804.8	2208.2	2158.3	1936.6	1918.8	1839.5	1847.5
57.5°	994.6	1000.8	1049.8	1215.4	1665.9	2312.3	2591.9	2250.0	2189.5	2025.6	2025.6
60°	725.7	720.3	756.8	872.6	1334.7	2273.1	2948.1	2619.5	2524.2	2179.7	2156.5
62.5°	552.0	551.1	560.9	600.1	846.8	1982.0	3101.2	3089.6	2934.7	2331.0	2298.1
65°	446.1	447.9	461.2	488.8	517.3	1351.6	3020.2	3650.6	3509.0	2556.3	2448.6
67.5°	364.2	368.6	384.6	444.3	438.1	699.8	2572.3	3972.0	3998.7	2900.0	2650.7
70°	280.5	287.6	306.3	390.9	422.0	465.7	1783.4	3811.7	3883.0	3113.7	2528.7
72.5°	190.5	189.7	229.7	317.0	426.5	426.5	992.8	3070.0	3137.7	2870.6	2196.6
75°	103.3	109.5	152.3	239.5	390.9	412.2	565.4	2246.4	2341.7	2232.2	1698.9
77.5°	56.1	57.0	84.6	156.7	325.0	393.5	377.5	1527.9	1565.3	1346.3	930.5
80°	29.4	30.3	44.5	102.4	224.4	365.1	314.3	910.9	875.2	516.4	307.2
82.5°	13.4	14.2	22.3	64.1	143.4	287.6	271.6	439.8	406.0	144.2	93.5
85°	5.3	5.3	9.8	38.3	83.7	141.6	232.4	220.8	184.3	43.6	46.3
87.5°	1.8	1.8	2.7	15.1	33.8	84.6	123.8	116.6	80.1	16.0	24.9
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°	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4
2.5°	899.3	909.1	906.4	904.6	887.7	885.9	884.2	868.1	873.5	860.1	869.0
5°	904.6	910.0	895.7	869.0	845.0	818.3	797.8	783.5	757.7	747.9	746.1
7.5°	899.3	899.3	869.9	827.2	780.0	736.3	681.1	642.0	612.6	590.3	598.3
10°	892.2	881.5	851.2	775.5	690.0	624.2	544.9	487.0	443.4	429.2	420.3
12.5°	892.2	873.5	805.8	702.5	592.1	492.4	398.0	322.3	280.5	255.5	252.0
15°	884.2	856.5	772.9	634.0	496.8	361.5	253.8	188.8	153.1	143.4	139.8
17.5°	885.9	853.0	723.9	552.9	385.5	240.4	154.9	119.3	110.4	106.0	106.8
20°	889.5	853.0	680.3	473.7	277.8	149.6	106.8	100.6	96.2	94.4	95.3
22.5°	901.1	836.1	635.7	392.7	187.9	107.7	94.4	88.1	84.6	81.9	81.0
25°	902.8	833.4	593.0	312.5	129.1	90.8	82.8	75.7	71.2	67.7	66.8
27.5°	900.2	821.8	533.3	232.4	97.1	81.0	70.3	63.2	57.0	54.3	53.4
30°	910.0	800.5	482.6	167.4	81.9	70.3	59.7	51.6	46.3	42.7	42.7
32.5°	910.9	781.8	426.5	119.3	74.8	62.3	50.8	41.8	36.5	34.7	34.7
35°	911.8	764.8	364.2	90.8	66.8	53.4	41.8	34.7	31.2	28.5	28.5
37.5°	914.4	752.4	307.2	76.6	59.7	45.4	34.7	28.5	24.9	24.0	24.0
40°	919.8	735.5	247.5	67.7	51.6	38.3	29.4	24.0	20.5	19.6	18.7
42.5°	934.0	731.0	197.7	60.5	46.3	32.1	24.0	19.6	16.9	15.1	14.2
45°	992.8	742.6	153.1	56.1	39.2	26.7	20.5	16.0	12.5	11.6	10.7
47.5°	1088.9	780.9	121.1	49.9	32.9	22.3	16.9	12.5	9.8	8.9	8.0
50°	1235.0	868.1	98.8	44.5	27.6	18.7	13.4	9.8	7.1	6.2	6.2
52.5°	1426.4	985.7	85.5	39.2	22.3	16.0	10.7	7.1	5.3	4.5	4.5
55°	1622.3	1124.6	80.1	33.8	18.7	13.4	8.0	5.3	3.6	2.7	2.7
57.5°	1802.1	1214.5	77.5	27.6	16.0	9.8	6.2	3.6	1.8	0.9	0.9
60°	1914.3	1280.4	69.4	22.3	12.5	8.0	4.5	1.8	0.9	0.0	0.0
62.5°	2062.1	1347.2	57.0	16.9	8.9	5.3	2.7	0.9	0.0	0.0	0.0
65°	2257.1	1421.9	44.5	13.4	7.1	3.6	1.8	0.9	0.0	0.0	0.0
67.5°	2350.6	1382.8	30.3	9.8	4.5	1.8	0.9	0.0	0.0	0.0	0.0
70°	2163.6	1164.6	21.4	7.1	2.7	0.9	0.9	0.0	0.0	0.0	0.0
72.5°	1819.1	912.6	16.0	4.5	1.8	0.9	0.0	0.0	0.0	0.0	0.0
75°	1340.9	570.7	12.5	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	711.4	212.8	8.9	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	210.1	62.3	6.2	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	69.4	18.7	3.6	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	35.6	7.1	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.5	2.7	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)