

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: P676611

Luminaire Tested: **CCW-SA-1F-830-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676611
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-830-U-T4FT-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/
T4FT distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

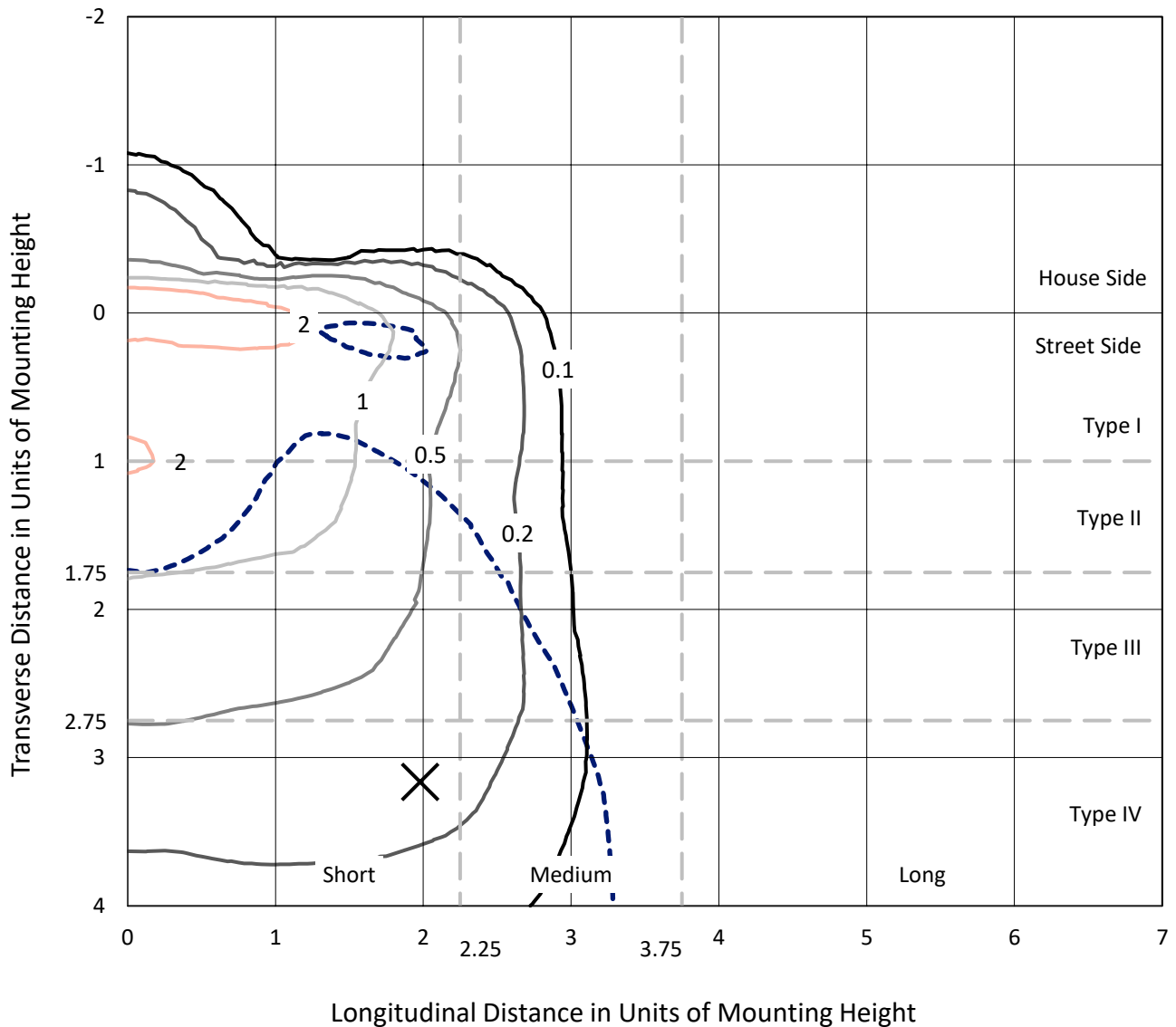
Lumens per Lamp: N/A
Luminaire Lumens: 4277.9 lumens
Efficiency: N/A
Efficacy: 63.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

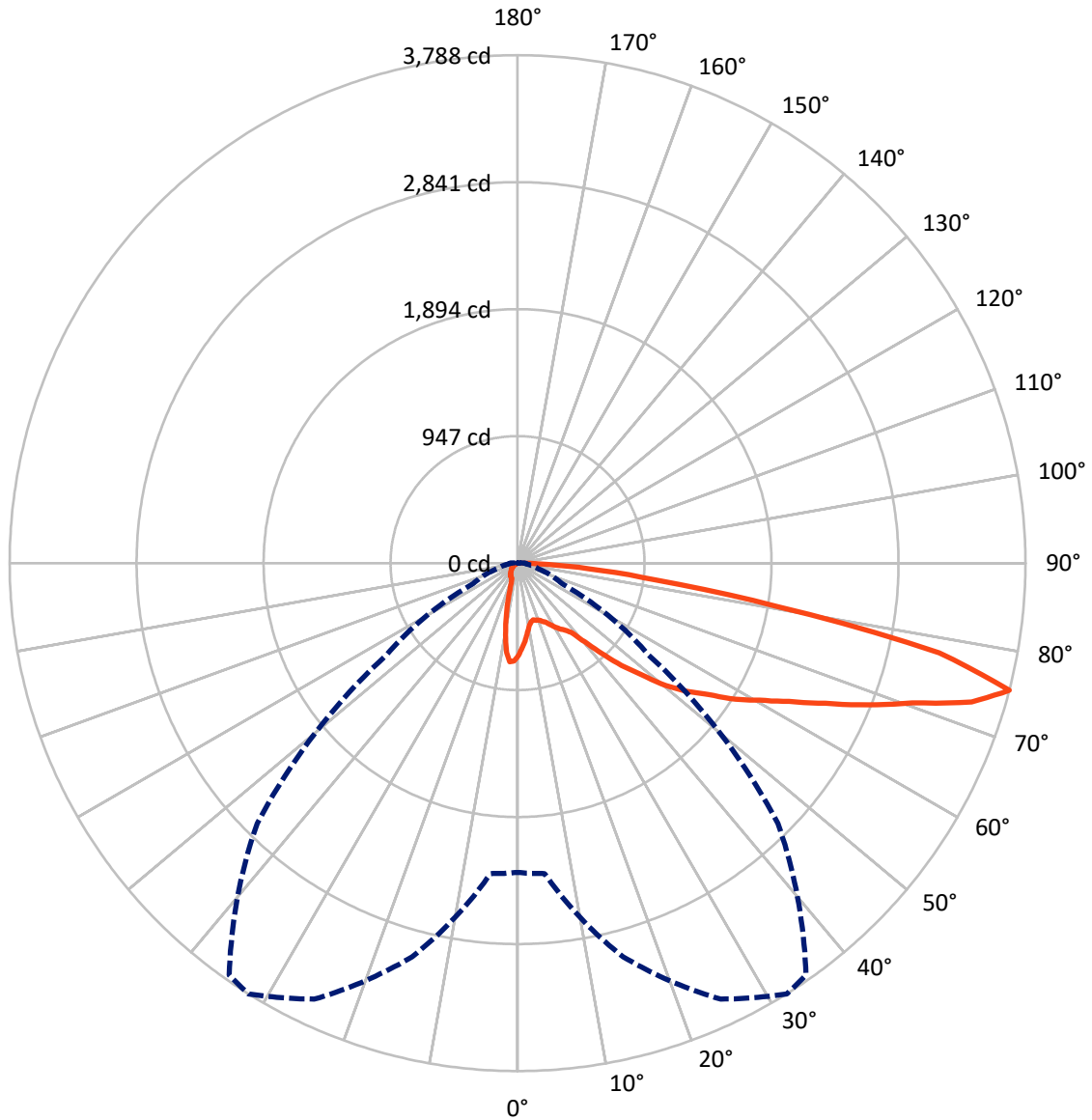
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	462.1	0.0	462.1
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	3815.7	0.0	3815.7
	% Fixture	89.2	0.0	89.2
Total	Lumens	4277.9	0.0	4277.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.7	1.4
10°-20°	137.8	3.2
20°-30°	206.3	4.8
30°-40°	316.7	7.4
40°-50°	553.9	12.9
50°-60°	865.8	20.2
60°-70°	1119.4	26.2
70°-80°	911.7	21.3
80°-90°	105.5	2.5
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°	4277.9	100.0
0°-180°	4277.9	100.0



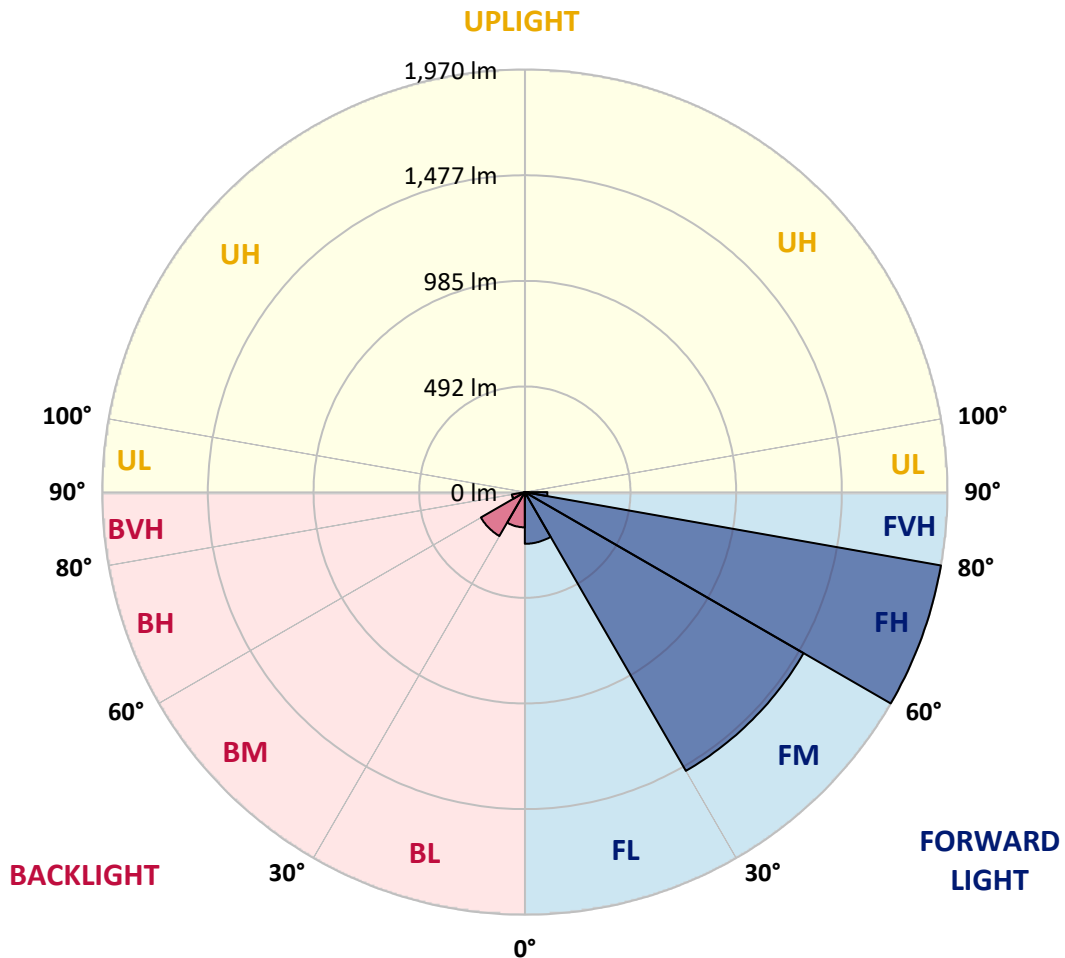
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	240.7	5.6			
FM (30°-60°)	1500.0	35.1			
FH (60°-80°)	1969.6	46.0			G2/5000
FVH (80°-90°)	105.5	2.5			G2/225
BL (0°-30°)	164.2	3.8	B1/500		
BM (30°-60°)	236.4	5.5	B1/1000		
BH (60°-80°)	61.5	1.4	B0/110		G0/110
BVH (80°-90°)	0.1	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7
2.5°	619.5	628.2	627.2	632.6	633.7	637.0	644.7	644.7	666.6	682.0	691.8
5°	563.6	558.1	560.3	566.8	583.3	582.2	600.8	610.7	637.0	658.9	682.0
7.5°	494.5	493.4	497.8	513.1	525.2	535.1	554.8	580.0	615.1	648.0	688.6
10°	450.6	448.4	457.2	461.6	475.8	482.4	513.1	552.6	594.3	641.4	688.6
12.5°	440.8	433.1	437.5	436.4	449.5	452.8	482.4	530.7	581.1	639.2	697.3
15°	446.2	440.8	436.4	436.4	439.7	441.9	473.7	516.4	573.4	642.5	717.1
17.5°	463.8	460.5	447.3	434.2	448.4	448.4	468.2	513.1	574.5	652.4	741.2
20°	484.6	481.3	458.3	443.0	452.8	463.8	484.6	520.8	577.8	660.0	778.5
22.5°	507.6	507.6	475.8	458.3	471.5	472.6	509.8	544.9	591.0	679.8	802.6
25°	536.1	534.0	503.3	483.5	487.9	500.0	534.0	571.2	615.1	707.2	847.5
27.5°	573.4	570.1	534.0	514.2	519.7	532.9	571.2	608.5	637.0	718.2	885.9
30°	604.1	600.8	571.2	541.6	553.7	565.8	610.7	643.6	664.4	739.0	929.8
32.5°	610.7	605.2	585.5	572.3	585.5	608.5	643.6	677.6	709.4	791.6	1013.1
35°	686.4	666.6	615.1	594.3	614.0	621.7	679.8	740.1	770.8	833.3	1106.3
37.5°	831.1	812.4	744.5	686.4	658.9	667.7	743.4	817.9	847.5	911.1	1208.3
40°	1008.7	978.0	905.6	827.8	771.9	760.9	810.3	919.9	948.4	1008.7	1342.0
42.5°	1211.5	1181.9	1070.1	978.0	921.0	906.7	914.4	1038.3	1062.4	1098.6	1429.7
45°	1357.4	1342.0	1215.9	1133.7	1088.7	1073.4	1054.8	1167.7	1198.4	1210.4	1556.9
47.5°	1441.8	1430.8	1360.7	1304.7	1244.4	1228.0	1240.1	1347.5	1326.7	1336.5	1678.6
50°	1554.7	1526.2	1430.8	1448.4	1436.3	1431.9	1452.8	1499.9	1469.2	1440.7	1811.3
52.5°	1645.7	1595.3	1528.4	1571.2	1589.8	1606.3	1679.7	1714.8	1577.7	1533.9	1896.8
55°	1701.6	1653.4	1670.9	1710.4	1730.2	1805.8	1892.4	1866.1	1649.0	1608.4	2010.8
57.5°	1752.1	1755.4	1802.5	1814.6	1915.4	1928.6	2095.3	2009.7	1699.5	1676.4	2055.8
60°	1873.8	1861.7	1900.1	1977.9	2074.4	2147.9	2306.9	2106.2	1724.7	1711.5	2043.7
62.5°	2093.1	2018.5	2031.7	2130.3	2271.8	2351.8	2428.6	2150.1	1718.1	1717.0	2007.5
65°	2371.6	2286.0	2246.6	2338.7	2521.8	2634.7	2565.6	2199.4	1674.2	1704.9	1872.7
67.5°	2602.9	2604.0	2530.5	2582.1	2821.1	2845.2	2695.0	2189.6	1600.8	1609.5	1543.8
70°	2869.3	2905.5	2840.8	3002.0	3121.5	3136.9	2843.0	2108.4	1442.9	1213.7	887.0
72.5°	2937.3	2955.9	3157.7	3405.5	3540.3	3544.7	2988.8	1837.6	949.5	536.1	275.2
75°	2306.9	2324.4	3039.3	3587.5	3788.1	3749.8	2745.4	1192.9	369.5	156.8	65.8
77.5°	1287.2	1292.7	1886.9	2900.0	3213.6	3059.0	1923.1	464.9	149.1	89.9	30.7
80°	352.0	413.4	699.5	1429.7	1962.6	1926.4	915.5	151.3	96.5	70.2	14.3
82.5°	84.4	91.0	224.8	632.6	1037.2	1082.2	273.0	76.7	66.9	58.1	7.7
85°	30.7	34.0	69.1	308.1	532.9	489.0	82.2	38.4	49.3	45.0	3.3
87.5°	11.0	11.0	21.9	100.9	155.7	117.3	27.4	13.2	25.2	27.4	1.1
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°	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7	690.7
2.5°	692.9	692.9	708.3	721.4	725.8	731.3	725.8	737.9	736.8	731.3	733.5
5°	694.0	713.8	726.9	735.7	740.1	739.0	741.2	728.0	720.3	714.9	709.4
7.5°	699.5	718.2	742.3	740.1	728.0	702.8	683.1	648.0	614.0	612.9	607.4
10°	718.2	734.6	748.9	740.1	696.2	619.5	557.0	509.8	467.1	447.3	449.5
12.5°	731.3	762.0	755.4	710.5	619.5	518.6	426.5	357.4	319.1	282.9	282.9
15°	758.7	769.7	767.5	667.7	525.2	404.6	292.7	222.6	182.0	165.6	163.4
17.5°	785.0	797.1	759.8	603.0	432.0	271.9	177.6	138.1	132.7	130.5	131.6
20°	817.9	819.0	753.2	538.3	324.5	172.1	127.2	123.9	125.0	123.9	123.9
22.5°	853.0	860.7	730.2	447.3	216.0	125.0	118.4	119.5	119.5	119.5	122.8
25°	899.1	887.0	694.0	360.7	141.4	115.1	115.1	116.2	116.2	116.2	117.3
27.5°	929.8	913.3	648.0	259.9	110.7	108.5	110.7	110.7	112.9	112.9	112.9
30°	993.4	950.6	589.9	167.8	99.8	103.1	105.3	107.4	108.5	110.7	111.8
32.5°	1042.7	983.5	517.5	111.8	91.0	93.2	98.7	103.1	107.4	106.4	106.4
35°	1132.6	1037.2	450.6	88.8	83.3	83.3	88.8	96.5	103.1	105.3	105.3
37.5°	1235.7	1081.1	357.4	81.1	76.7	76.7	80.0	88.8	97.6	102.0	99.8
40°	1321.2	1131.5	264.2	75.7	71.3	71.3	73.5	80.0	89.9	97.6	98.7
42.5°	1381.5	1168.8	178.7	70.2	66.9	65.8	69.1	72.4	80.0	91.0	93.2
45°	1436.3	1188.5	110.7	64.7	62.5	62.5	62.5	65.8	71.3	81.1	83.3
47.5°	1533.9	1210.4	80.0	60.3	57.0	58.1	59.2	60.3	64.7	66.9	68.0
50°	1616.1	1226.9	65.8	55.9	53.7	54.8	54.8	54.8	57.0	53.7	53.7
52.5°	1678.6	1210.4	55.9	51.5	49.3	50.4	49.3	49.3	47.1	42.8	42.8
55°	1724.7	1180.8	45.0	47.1	47.1	47.1	45.0	41.7	37.3	34.0	34.0
57.5°	1736.7	1130.4	35.1	39.5	42.8	42.8	38.4	34.0	28.5	25.2	24.1
60°	1718.1	1020.8	26.3	28.5	32.9	34.0	30.7	25.2	19.7	16.4	16.4
62.5°	1651.2	934.1	20.8	18.6	24.1	25.2	21.9	16.4	11.0	7.7	6.6
65°	1524.0	800.4	15.3	13.2	16.4	17.5	14.3	7.7	3.3	1.1	0.0
67.5°	1222.5	603.0	9.9	8.8	11.0	11.0	6.6	2.2	0.0	0.0	0.0
70°	676.5	338.8	6.6	4.4	5.5	3.3	1.1	0.0	0.0	0.0	0.0
72.5°	195.2	96.5	3.3	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	52.6	23.0	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	23.0	8.8	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	9.9	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	0.0	0.0	0.0	0.0	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)