

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: P677118

Luminaire Tested: **CCW-SA-1C-730-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677118
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-730-U-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
SL4 distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

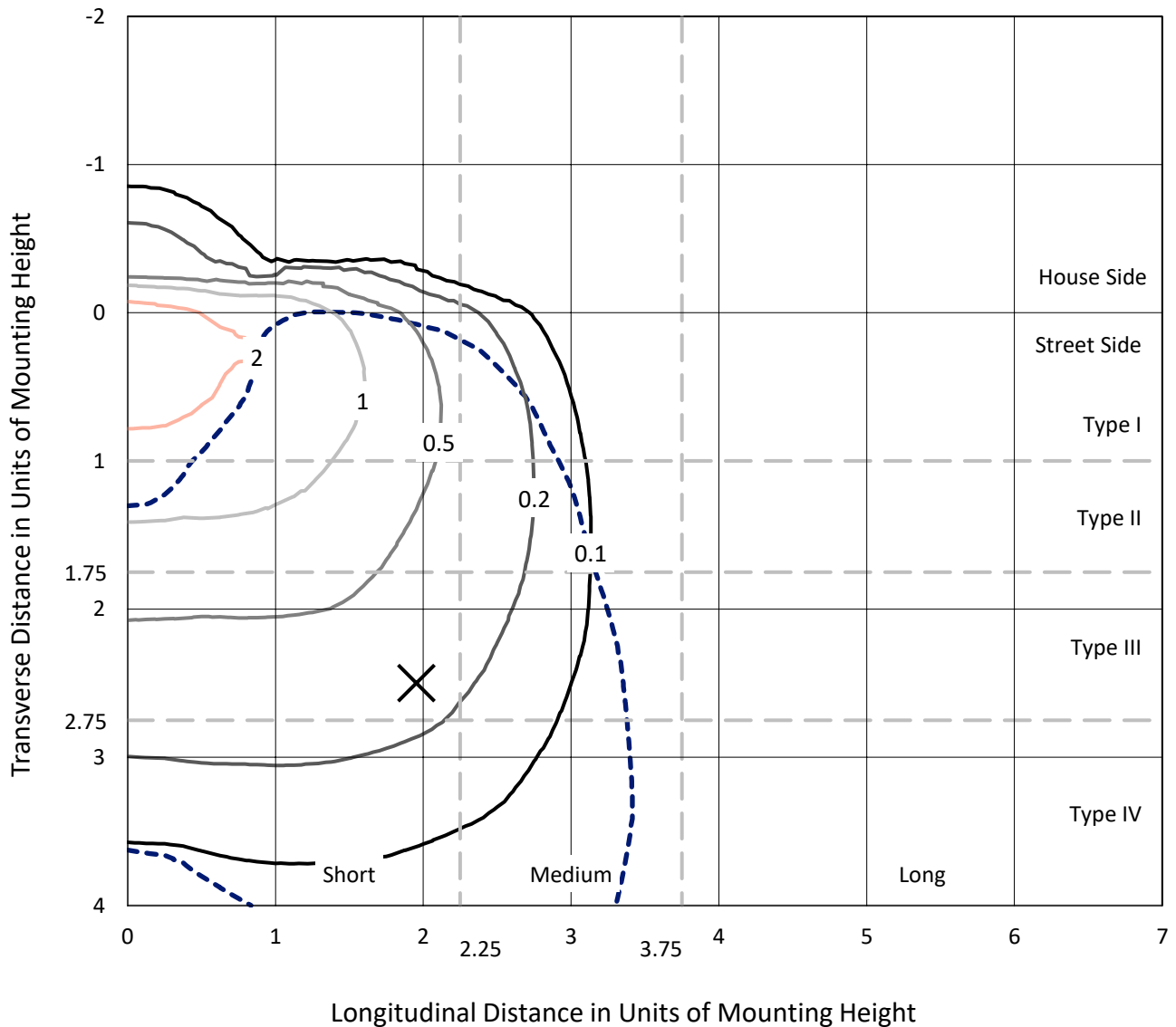
Lumens per Lamp: N/A
Luminaire Lumens: 3400.8 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 32
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

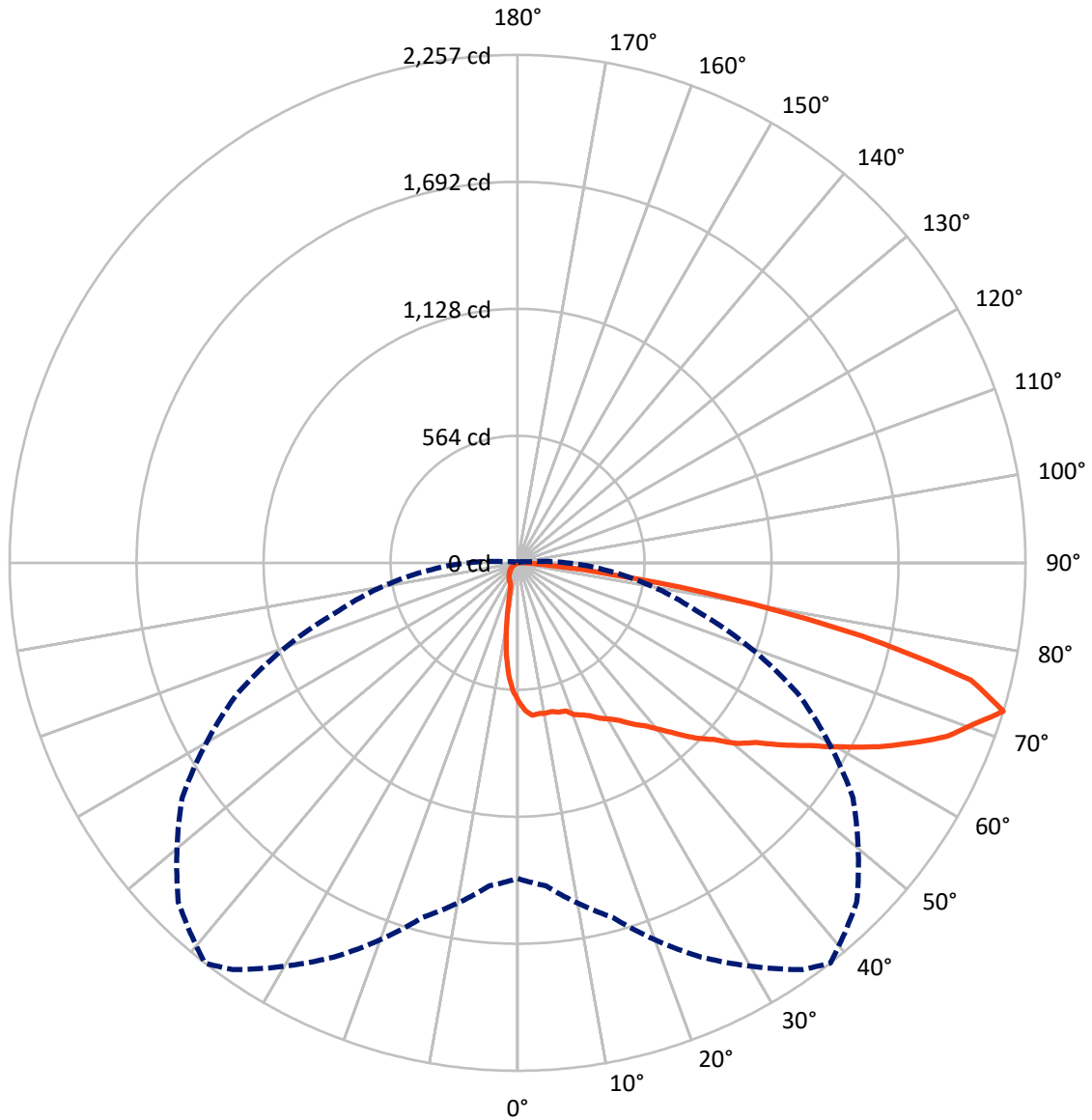
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	284.8	0.0	284.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	3116.0	0.0	3116.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	3400.8	0.0	3400.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.8	1.6
10°-20°	131.8	3.9
20°-30°	211.3	6.2
30°-40°	319.0	9.4
40°-50°	485.5	14.3
50°-60°	683.5	20.1
60°-70°	834.9	24.6
70°-80°	606.3	17.8
80°-90°	74.7	2.2
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°	3400.8	100.0
0°-180°	3400.8	100.0

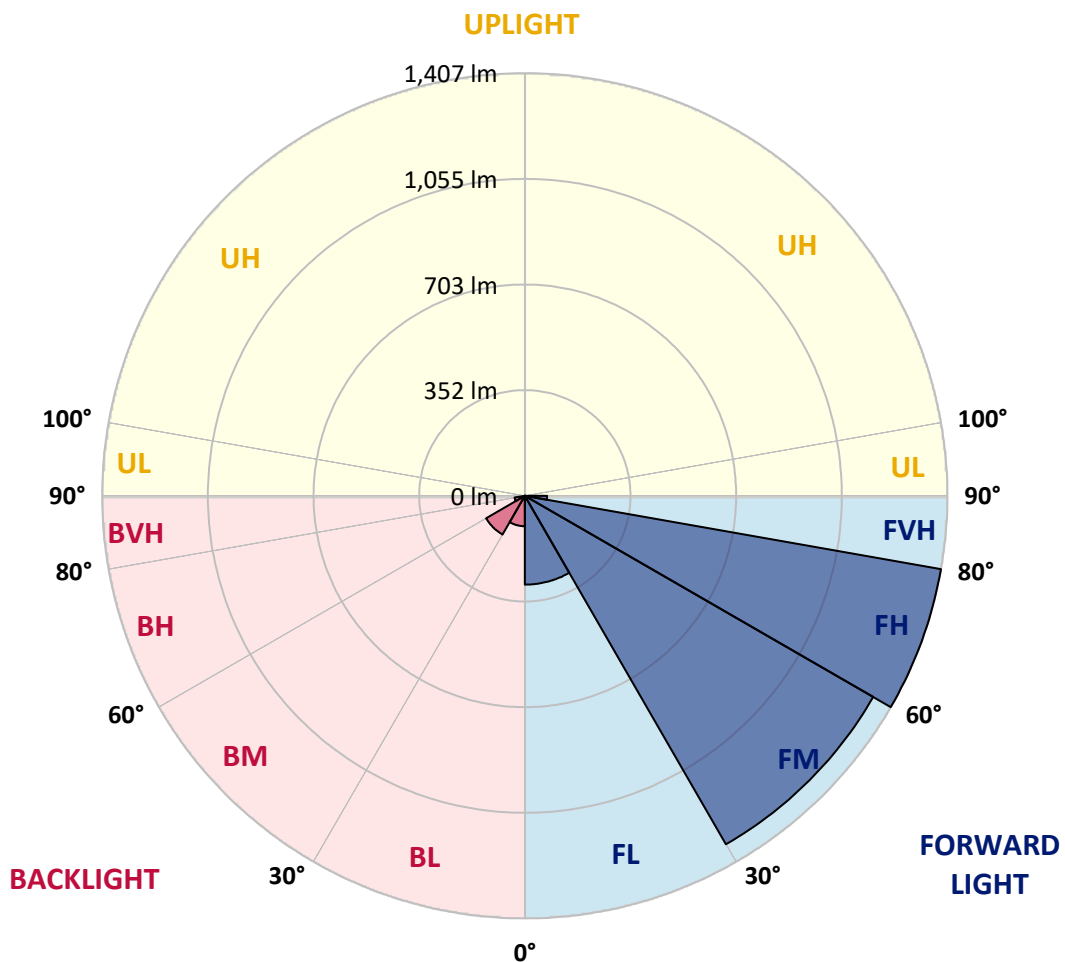


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	295.8	8.7			
FM (30°-60°)	1339.2	39.4			
FH (60°-80°)	1406.7	41.4			G1/1800
FVH (80°-90°)	74.3	2.2			G1/100
BL (0°-30°)	101.1	3.0	B0/110		
BM (30°-60°)	148.8	4.4	B0/220		
BH (60°-80°)	34.5	1.0	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0
2.5°	675.6	675.6	682.0	675.6	673.2	658.1	658.9	650.9	642.9	631.7	621.4
5°	683.6	689.2	693.2	687.6	678.8	680.4	686.0	670.8	649.3	635.7	612.6
7.5°	680.4	692.4	689.2	686.0	680.4	676.4	668.4	662.1	651.7	638.9	611.8
10°	678.0	682.0	682.8	680.4	668.4	679.6	670.8	660.5	647.7	632.5	599.0
12.5°	669.2	669.2	676.4	670.8	672.4	678.0	674.0	671.6	658.1	645.3	615.8
15°	659.7	662.9	674.0	682.8	690.8	688.4	686.0	678.8	666.8	652.5	621.4
17.5°	662.1	663.7	681.2	697.2	693.2	691.6	704.3	689.2	677.2	661.3	626.2
20°	670.8	675.6	695.6	716.3	720.3	720.3	715.5	706.7	690.0	668.4	634.9
22.5°	679.6	681.2	713.9	740.2	744.2	733.8	737.8	712.3	696.4	684.4	643.7
25°	713.1	709.9	745.0	765.8	763.4	753.0	749.0	726.7	720.3	698.8	662.9
27.5°	758.6	745.0	779.3	792.1	779.3	782.5	771.3	747.4	733.8	721.1	671.6
30°	786.5	794.5	812.8	825.6	804.0	804.8	799.3	772.9	752.2	755.4	701.1
32.5°	829.6	835.2	848.7	854.3	837.5	836.0	830.4	809.6	794.5	791.3	741.0
35°	875.8	886.2	887.0	888.6	873.4	879.8	871.8	842.3	850.3	855.9	788.9
37.5°	921.3	911.7	927.7	934.9	918.1	918.1	920.5	900.6	914.9	931.7	856.7
40°	938.8	942.8	970.8	965.2	985.1	973.1	981.9	977.1	989.1	1027.4	952.4
42.5°	957.2	962.0	999.5	1009.8	1033.8	1037.8	1050.5	1051.3	1086.4	1149.4	1044.1
45°	992.3	984.3	1035.4	1060.9	1100.0	1111.1	1126.3	1139.1	1194.1	1268.3	1148.6
47.5°	1024.2	1013.0	1071.3	1122.3	1170.2	1172.6	1214.0	1227.6	1293.0	1377.6	1252.3
50°	1068.9	1072.9	1097.6	1185.3	1234.0	1261.9	1290.6	1335.3	1407.9	1498.0	1327.3
52.5°	1115.1	1111.1	1152.6	1238.8	1315.3	1325.7	1390.3	1440.6	1519.5	1587.3	1360.8
55°	1171.8	1176.6	1192.5	1305.8	1403.1	1427.8	1500.4	1553.0	1639.2	1625.6	1372.0
57.5°	1228.4	1223.6	1259.5	1380.8	1513.2	1531.5	1628.0	1659.1	1717.4	1651.2	1344.1
60°	1284.2	1293.0	1308.2	1465.3	1633.6	1660.7	1737.3	1753.3	1766.0	1663.1	1322.5
62.5°	1348.0	1327.3	1374.4	1554.6	1742.1	1798.7	1859.4	1796.3	1785.2	1641.6	1273.1
65°	1380.0	1386.3	1447.8	1656.7	1886.5	1928.0	1935.9	1854.6	1797.1	1593.7	1226.8
67.5°	1429.4	1438.2	1516.4	1761.2	2034.8	2058.0	2029.3	1907.2	1786.8	1531.5	1060.1
70°	1435.8	1457.3	1608.1	1870.5	2128.2	2148.1	2125.8	1942.3	1703.0	1286.6	784.9
72.5°	1402.3	1440.6	1630.4	1932.7	2206.3	2256.6	2131.4	1818.7	1372.8	820.8	402.0
75°	1059.3	1091.2	1492.4	1840.2	2067.5	2079.5	1871.3	1387.9	781.7	280.0	102.9
77.5°	548.8	603.8	996.3	1406.3	1575.4	1562.6	1302.6	817.6	268.8	73.4	41.5
80°	315.1	328.6	435.5	789.7	990.7	942.0	720.3	352.6	118.1	36.7	27.1
82.5°	155.5	174.7	234.5	353.4	495.3	407.6	270.4	211.4	66.2	19.9	23.9
85°	33.5	35.1	119.6	169.1	201.0	132.4	92.5	177.9	23.9	12.0	23.1
87.5°	23.9	23.1	33.5	75.8	55.8	34.3	55.0	93.3	5.6	5.6	4.8
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°	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0
2.5°	615.0	607.8	599.8	584.7	580.7	578.3	564.7	563.9	561.6	556.0	553.6
5°	598.2	586.3	571.1	555.2	542.4	519.3	491.4	477.0	459.5	460.3	454.7
7.5°	595.9	573.5	552.0	518.5	477.8	434.7	391.7	363.7	343.8	331.8	334.2
10°	584.7	567.9	532.8	470.6	405.2	339.8	284.8	243.3	219.4	201.0	206.6
12.5°	589.5	556.8	507.3	424.4	331.0	250.5	181.9	142.0	124.4	118.1	119.6
15°	586.3	556.8	492.2	374.1	260.0	169.9	118.1	105.3	102.1	102.1	100.5
17.5°	595.9	563.1	466.6	324.6	186.7	113.3	101.3	98.9	96.5	96.5	96.5
20°	609.4	566.3	449.1	269.6	131.6	99.7	94.9	93.3	92.5	92.5	91.7
22.5°	610.2	563.1	416.4	209.0	101.3	94.1	90.1	89.3	89.3	87.7	87.7
25°	615.0	566.3	381.3	157.1	94.1	88.5	85.3	84.6	85.3	84.6	83.8
27.5°	627.0	571.9	346.2	114.9	88.5	83.8	81.4	80.6	80.6	80.6	79.0
30°	642.1	571.9	307.1	94.9	83.8	79.0	76.6	75.8	75.0	75.0	75.0
32.5°	674.0	590.3	259.2	84.6	77.4	73.4	71.0	71.0	70.2	70.2	69.4
35°	713.9	603.0	210.6	78.2	71.8	67.8	65.4	65.4	64.6	64.6	63.8
37.5°	763.4	634.9	161.1	73.4	66.2	62.2	59.8	59.8	59.8	59.0	59.0
40°	833.6	667.6	119.6	67.0	60.6	56.6	55.0	54.2	53.4	53.4	51.8
42.5°	908.5	717.9	89.3	62.2	55.8	52.6	50.3	47.9	47.9	45.5	45.5
45°	989.9	761.8	72.6	56.6	51.1	47.1	44.7	43.1	40.7	39.1	39.1
47.5°	1069.7	788.9	63.8	50.3	46.3	43.1	40.7	37.5	34.3	33.5	32.7
50°	1134.3	796.9	56.6	45.5	42.3	39.1	35.9	31.9	28.7	27.1	26.3
52.5°	1134.3	753.0	51.1	40.7	38.3	35.1	31.1	26.3	22.3	20.7	19.9
55°	1134.3	683.6	45.5	37.5	34.3	31.9	26.3	21.5	17.5	15.2	14.4
57.5°	1117.5	599.8	40.7	33.5	30.3	27.1	22.3	16.8	12.8	10.4	10.4
60°	1071.3	512.1	35.1	29.5	26.3	22.3	17.5	12.0	8.0	5.6	5.6
62.5°	1012.2	407.6	30.3	24.7	21.5	18.3	13.6	8.0	3.2	1.6	1.6
65°	909.3	300.7	26.3	20.7	16.8	13.6	8.8	3.2	0.0	0.0	0.0
67.5°	750.6	201.0	20.7	16.8	14.4	9.6	5.6	0.8	0.0	0.0	0.0
70°	528.1	114.1	16.0	12.0	10.4	6.4	1.6	0.0	0.0	0.0	0.0
72.5°	217.0	50.3	11.2	8.8	7.2	3.2	0.0	0.0	0.0	0.0	0.0
75°	59.0	22.3	7.2	4.8	4.0	0.8	0.0	0.0	0.0	0.0	0.0
77.5°	34.3	15.2	3.2	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	27.1	7.2	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	27.1	4.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	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)