

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: P676554

Luminaire Tested: **CCW-SA-1D-735-U-T4FT-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676554  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1D-735-U-T4FT-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/  
T4FT distribution lens and House Side Shield  
Light Source: (16) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

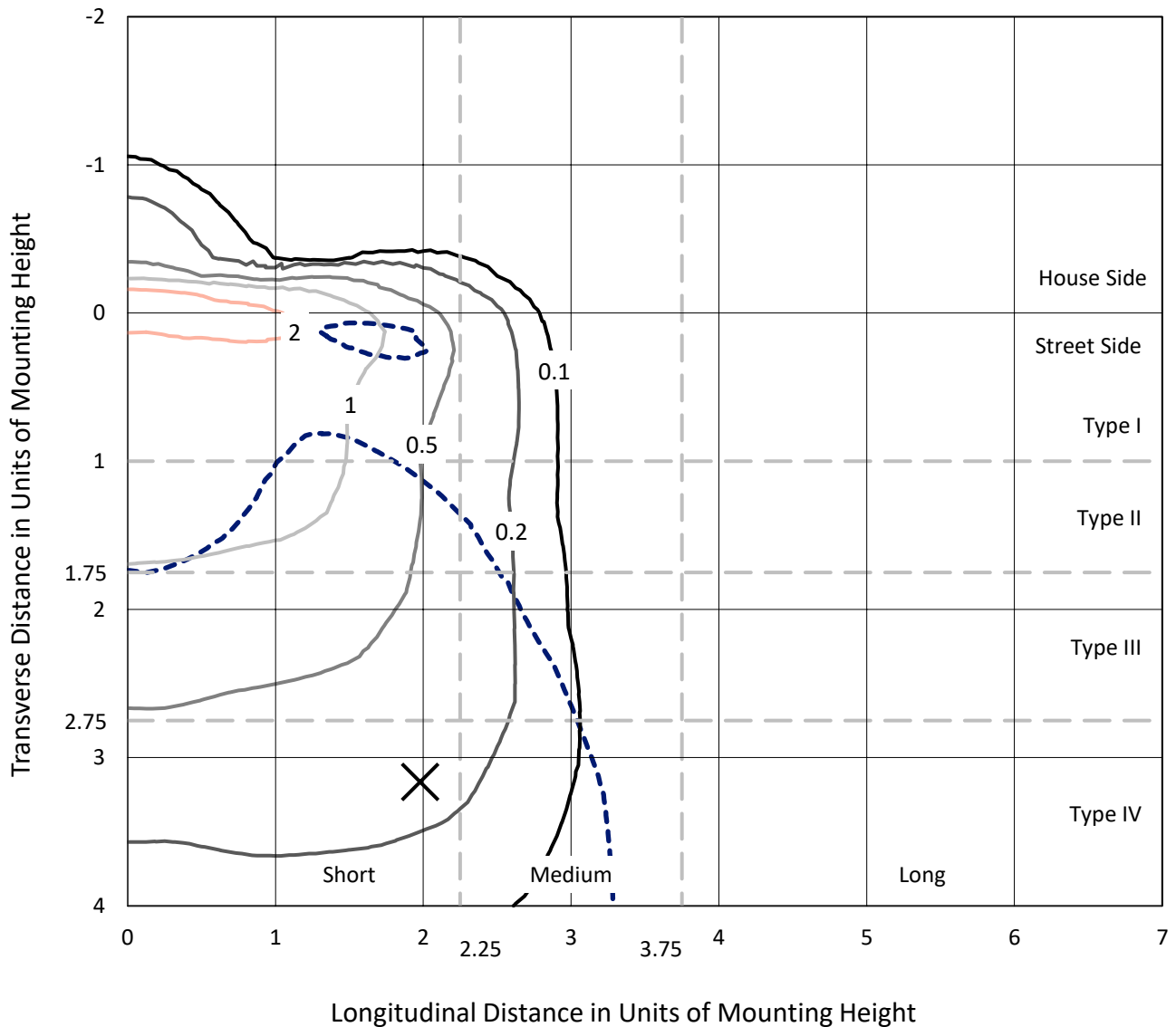
Lumens per Lamp: N/A  
Luminaire Lumens: 3949.6 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

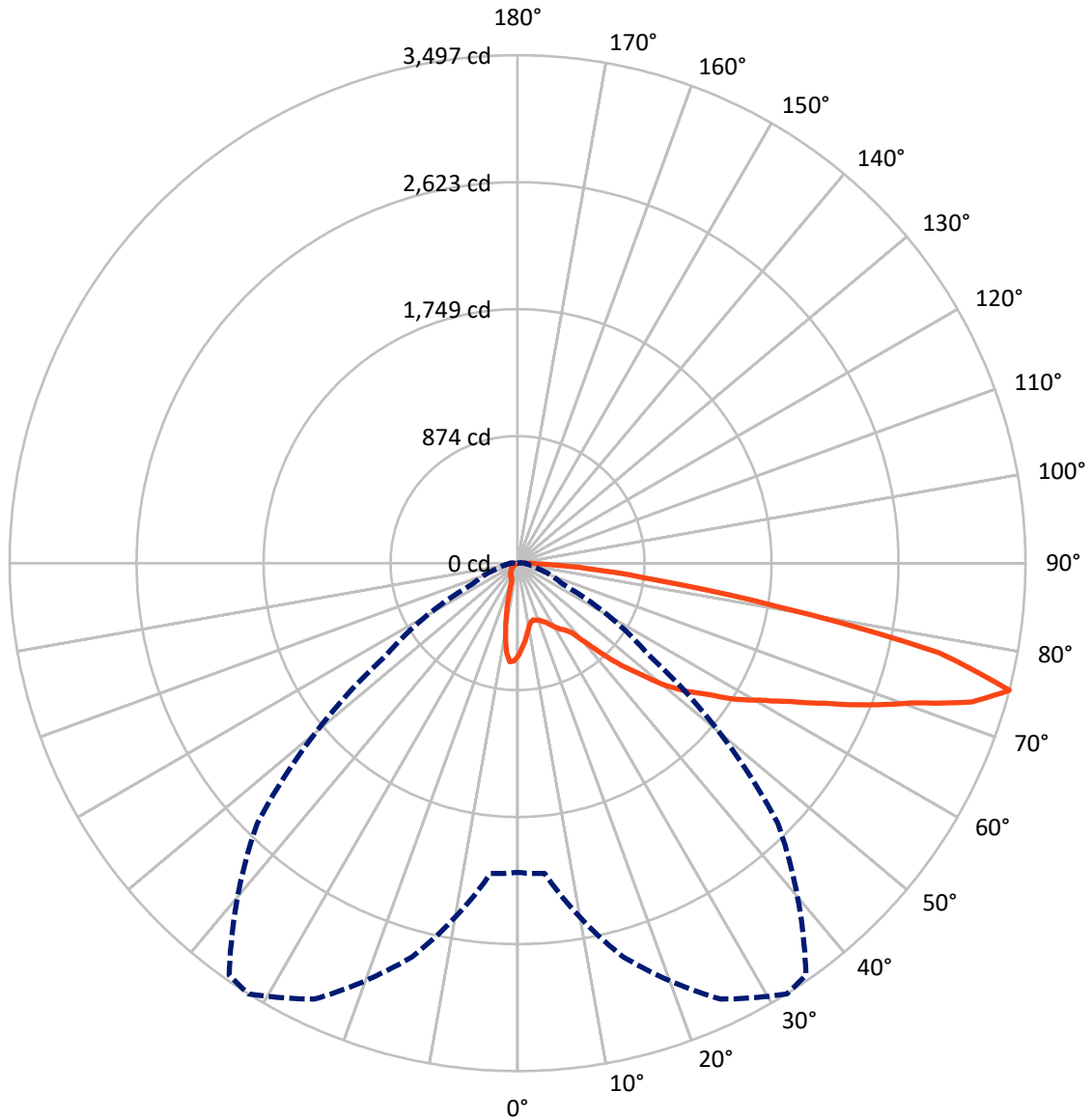
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.8 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
<b>House Side</b>	Lumens	426.7	0.0	426.7
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	3522.9	0.0	3522.9
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	3949.6	0.0	3949.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.1	1.4
10°-20°	127.2	3.2
20°-30°	190.5	4.8
30°-40°	292.4	7.4
40°-50°	511.4	12.9
50°-60°	799.4	20.2
60°-70°	1033.5	26.2
70°-80°	841.7	21.3
80°-90°	97.4	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°	3949.6	100.0
0°-180°	3949.6	100.0



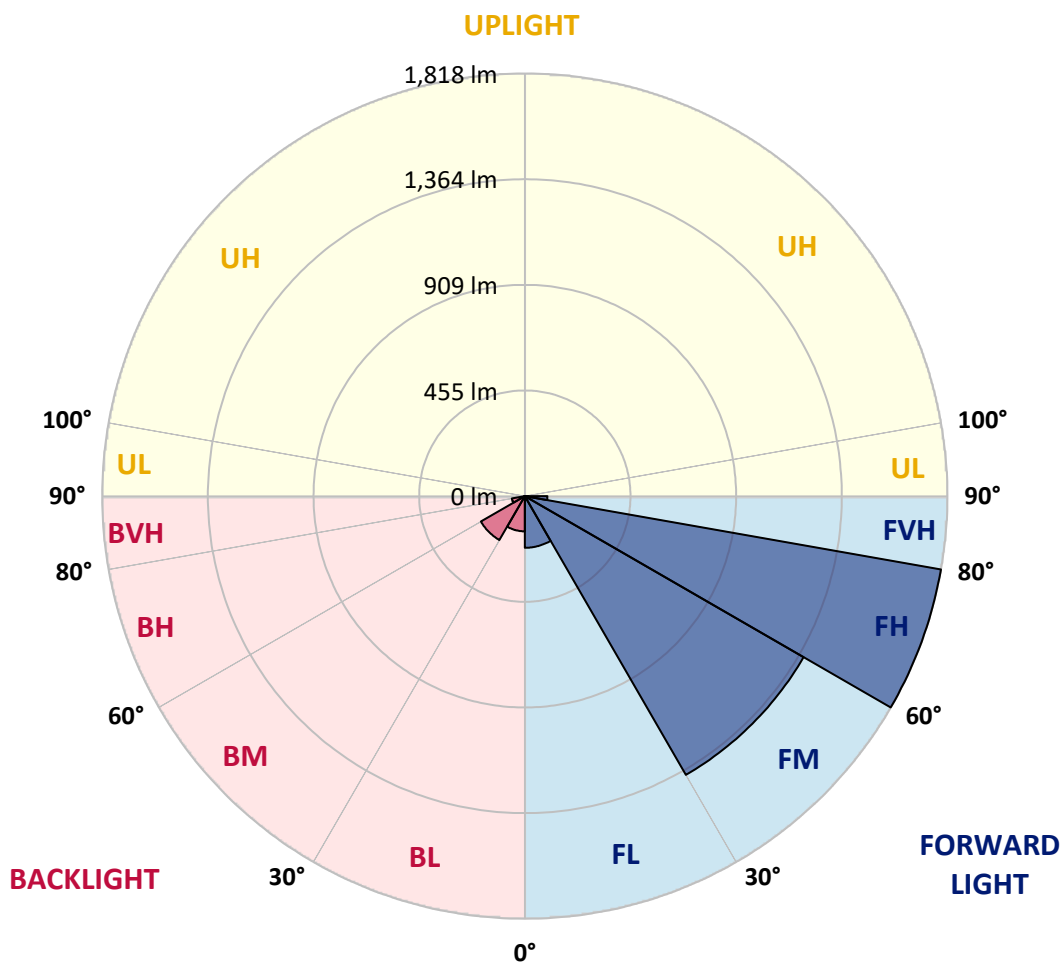
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	222.2	5.6			
FM (30°-60°)	1384.9	35.1			
FH (60°-80°)	1818.4	46.0			G2/5000
FVH (80°-90°)	97.4	2.5			G1/100
BL (0°-30°)	151.6	3.8	B1/500		
BM (30°-60°)	218.3	5.5	B0/220		
BH (60°-80°)	56.8	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°	637.7	637.7	637.7	637.7	637.7	637.7	637.7	637.7	637.7	637.7	637.7
2.5°	571.9	580.0	579.0	584.1	585.1	588.1	595.2	595.2	615.5	629.6	638.8
5°	520.3	515.3	517.3	523.4	538.5	537.5	554.7	563.8	588.1	608.4	629.6
7.5°	456.5	455.5	459.6	473.7	484.9	494.0	512.2	535.5	567.9	598.3	635.7
10°	416.0	414.0	422.1	426.2	439.3	445.4	473.7	510.2	548.7	592.2	635.7
12.5°	406.9	399.9	403.9	402.9	415.0	418.1	445.4	489.9	536.5	590.2	643.8
15°	412.0	406.9	402.9	402.9	405.9	408.0	437.3	476.8	529.4	593.2	662.0
17.5°	428.2	425.2	413.0	400.9	414.0	414.0	432.2	473.7	530.4	602.3	684.3
20°	447.4	444.4	423.1	409.0	418.1	428.2	447.4	480.8	533.5	609.4	718.7
22.5°	468.7	468.7	439.3	423.1	435.3	436.3	470.7	503.1	545.6	627.6	741.0
25°	495.0	493.0	464.6	446.4	450.5	461.6	493.0	527.4	567.9	652.9	782.5
27.5°	529.4	526.4	493.0	474.8	479.8	492.0	527.4	561.8	588.1	663.0	817.9
30°	557.8	554.7	527.4	500.1	511.2	522.3	563.8	594.2	613.4	682.3	858.4
32.5°	563.8	558.8	540.6	528.4	540.6	561.8	594.2	625.6	654.9	730.9	935.4
35°	633.7	615.5	567.9	548.7	566.9	574.0	627.6	683.3	711.6	769.3	1021.4
37.5°	767.3	750.1	687.3	633.7	608.4	616.5	686.3	755.2	782.5	841.2	1115.5
40°	931.3	903.0	836.1	764.3	712.6	702.5	748.1	849.3	875.6	931.3	1239.0
42.5°	1118.6	1091.2	988.0	903.0	850.3	837.2	844.2	958.6	980.9	1014.3	1320.0
45°	1253.2	1239.0	1122.6	1046.7	1005.2	991.0	973.8	1078.1	1106.4	1117.6	1437.4
47.5°	1331.2	1321.0	1256.2	1204.6	1148.9	1133.8	1144.9	1244.1	1224.9	1234.0	1549.8
50°	1435.4	1409.1	1321.0	1337.2	1326.1	1322.0	1341.3	1384.8	1356.5	1330.1	1672.3
52.5°	1519.4	1472.9	1411.1	1450.6	1467.8	1483.0	1550.8	1583.2	1456.7	1416.2	1751.3
55°	1571.1	1526.5	1542.7	1579.2	1597.4	1667.2	1747.2	1722.9	1522.5	1485.0	1856.5
57.5°	1617.6	1620.7	1664.2	1675.3	1768.5	1780.6	1934.5	1855.5	1569.0	1547.8	1898.0
60°	1730.0	1718.9	1754.3	1826.2	1915.2	1983.1	2129.8	1944.6	1592.3	1580.2	1886.9
62.5°	1932.5	1863.6	1875.8	1966.9	2097.5	2171.4	2242.2	1985.1	1586.3	1585.2	1853.5
65°	2189.6	2110.6	2074.2	2159.2	2328.3	2432.5	2368.7	2030.6	1545.8	1574.1	1729.0
67.5°	2403.2	2404.2	2336.4	2383.9	2604.6	2626.9	2488.2	2021.5	1477.9	1486.0	1425.3
70°	2649.2	2682.6	2622.8	2771.6	2882.0	2896.1	2624.9	1946.6	1332.2	1120.6	818.9
72.5°	2711.9	2729.1	2915.4	3144.2	3268.7	3272.7	2759.5	1696.6	876.6	495.0	254.1
75°	2129.8	2146.0	2806.1	3312.2	3497.4	3462.0	2534.8	1101.4	341.1	144.8	60.7
77.5°	1188.4	1193.5	1742.1	2677.5	2967.0	2824.3	1775.5	429.2	137.7	83.0	28.3
80°	324.9	381.6	645.8	1320.0	1812.0	1778.6	845.3	139.7	89.1	64.8	13.2
82.5°	77.9	84.0	207.5	584.1	957.6	999.1	252.1	70.9	61.7	53.7	7.1
85°	28.3	31.4	63.8	284.5	492.0	451.5	75.9	35.4	45.6	41.5	3.0
87.5°	10.1	10.1	20.2	93.1	143.7	108.3	25.3	12.1	23.3	25.3	1.0
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°	637.7	637.7	637.7	637.7	637.7	637.7	637.7	637.7	637.7	637.7	637.7
2.5°	639.8	639.8	653.9	666.1	670.1	675.2	670.1	681.3	680.3	675.2	677.2
5°	640.8	659.0	671.1	679.2	683.3	682.3	684.3	672.2	665.1	660.0	654.9
7.5°	645.8	663.0	685.3	683.3	672.2	648.9	630.7	598.3	566.9	565.9	560.8
10°	663.0	678.2	691.4	683.3	642.8	571.9	514.2	470.7	431.2	413.0	415.0
12.5°	675.2	703.5	697.5	656.0	571.9	478.8	393.8	330.0	294.6	261.2	261.2
15°	700.5	710.6	708.6	616.5	484.9	373.5	270.3	205.5	168.0	152.9	150.8
17.5°	724.8	735.9	701.5	556.8	398.8	251.0	164.0	127.5	122.5	120.5	121.5
20°	755.2	756.2	695.4	497.0	299.6	158.9	117.4	114.4	115.4	114.4	114.4
22.5°	787.6	794.6	674.2	413.0	199.4	115.4	109.3	110.3	110.3	110.3	113.4
25°	830.1	818.9	640.8	333.0	130.6	106.3	106.3	107.3	107.3	107.3	108.3
27.5°	858.4	843.2	598.3	239.9	102.2	100.2	102.2	102.2	104.3	104.3	104.3
30°	917.1	877.7	544.6	154.9	92.1	95.2	97.2	99.2	100.2	102.2	103.3
32.5°	962.7	908.0	477.8	103.3	84.0	86.0	91.1	95.2	99.2	98.2	98.2
35°	1045.7	957.6	416.0	82.0	76.9	76.9	82.0	89.1	95.2	97.2	97.2
37.5°	1140.8	998.1	330.0	74.9	70.9	70.9	73.9	82.0	90.1	94.1	92.1
40°	1219.8	1044.7	244.0	69.8	65.8	65.8	67.8	73.9	83.0	90.1	91.1
42.5°	1275.5	1079.1	165.0	64.8	61.7	60.7	63.8	66.8	73.9	84.0	86.0
45°	1326.1	1097.3	102.2	59.7	57.7	57.7	57.7	60.7	65.8	74.9	76.9
47.5°	1416.2	1117.6	73.9	55.7	52.6	53.7	54.7	55.7	59.7	61.7	62.8
50°	1492.1	1132.7	60.7	51.6	49.6	50.6	50.6	50.6	52.6	49.6	49.6
52.5°	1549.8	1117.6	51.6	47.6	45.6	46.6	45.6	45.6	43.5	39.5	39.5
55°	1592.3	1090.2	41.5	43.5	43.5	43.5	41.5	38.5	34.4	31.4	31.4
57.5°	1603.5	1043.7	32.4	36.4	39.5	39.5	35.4	31.4	26.3	23.3	22.3
60°	1586.3	942.4	24.3	26.3	30.4	31.4	28.3	23.3	18.2	15.2	15.2
62.5°	1524.5	862.5	19.2	17.2	22.3	23.3	20.2	15.2	10.1	7.1	6.1
65°	1407.1	739.0	14.2	12.1	15.2	16.2	13.2	7.1	3.0	1.0	0.0
67.5°	1128.7	556.8	9.1	8.1	10.1	10.1	6.1	2.0	0.0	0.0	0.0
70°	624.6	312.8	6.1	4.0	5.1	3.0	1.0	0.0	0.0	0.0	0.0
72.5°	180.2	89.1	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	48.6	21.3	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	21.3	8.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	9.1	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	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)