

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: P676631

Luminaire Tested: **CCW-SA-1D-840-U-T4FT-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676631  
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-T4FT-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/  
T4FT distribution lens and House Side Shield  
Light Source: (16) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

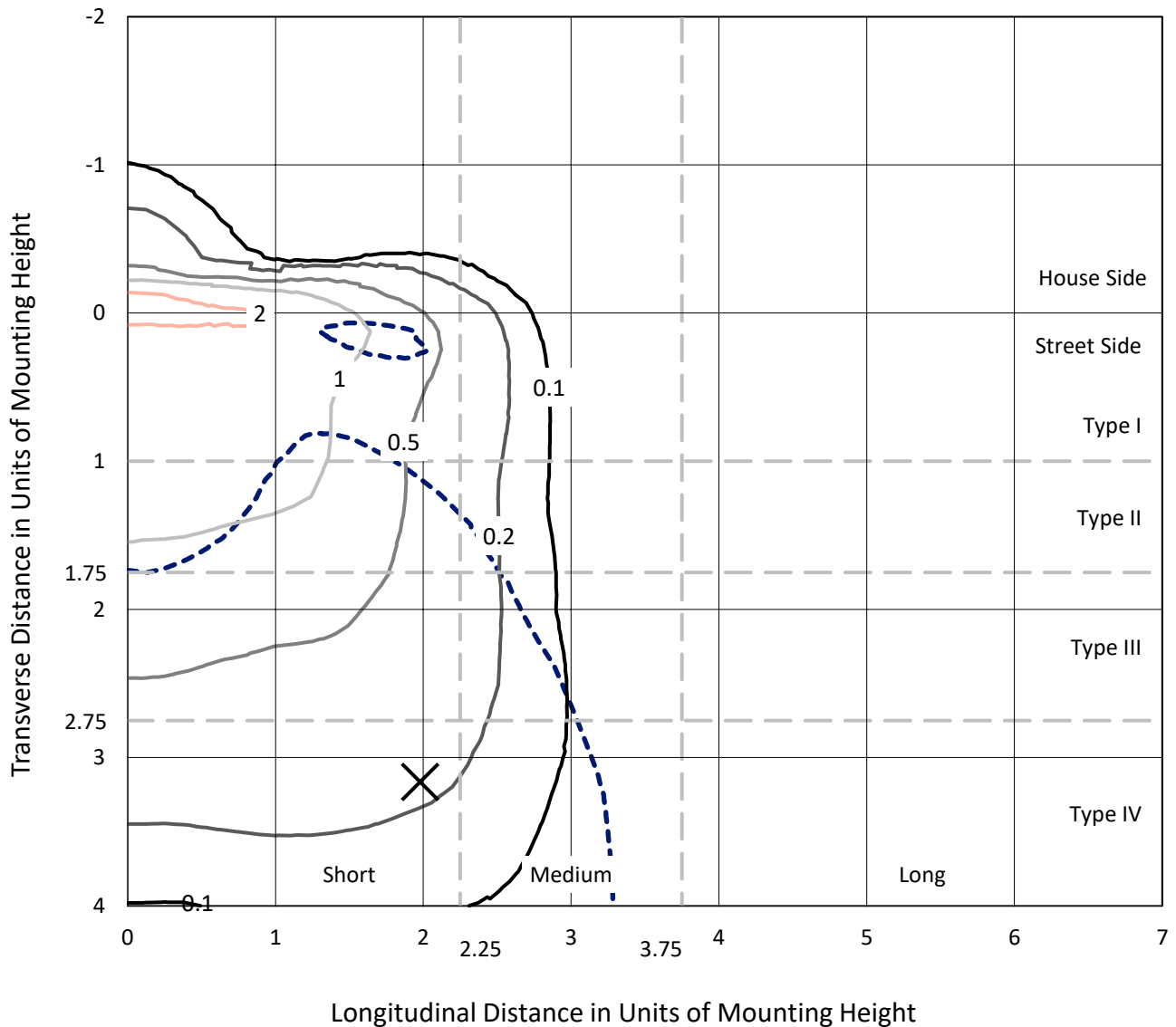
Lumens per Lamp: N/A  
Luminaire Lumens: 3414.2 lumens  
Efficiency: N/A  
Efficacy: 77.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

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

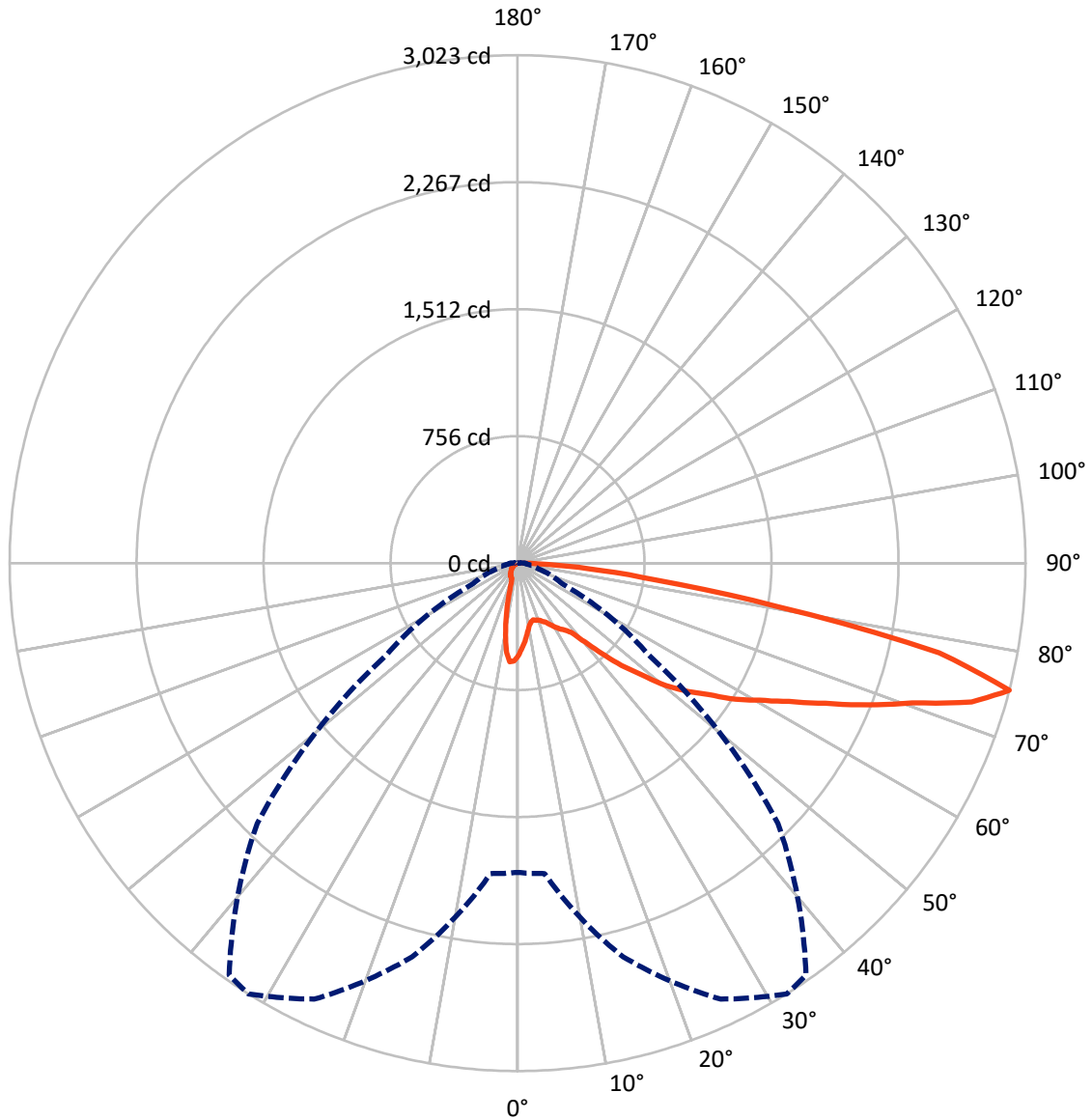
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.5 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	368.9	0.0	368.9
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	3045.4	0.0	3045.4
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	3414.2	0.0	3414.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.5	1.4
10°-20°	110.0	3.2
20°-30°	164.7	4.8
30°-40°	252.8	7.4
40°-50°	442.1	12.9
50°-60°	691.0	20.2
60°-70°	893.4	26.2
70°-80°	727.6	21.3
80°-90°	84.2	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°	3414.2	100.0
0°-180°	3414.2	100.0



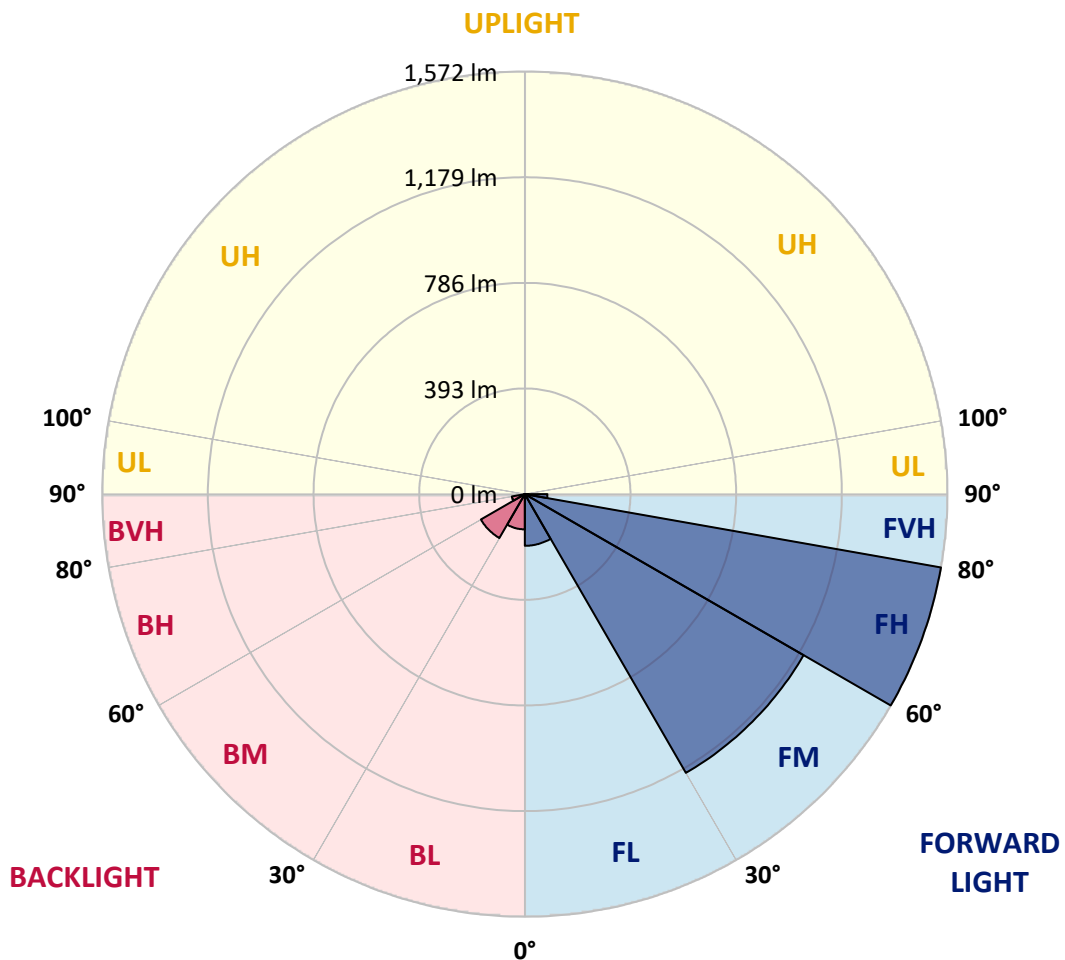
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	192.1	5.6			
FM (30°-60°)	1197.2	35.1			
FH (60°-80°)	1571.9	46.0			G1/1800
FVH (80°-90°)	84.2	2.5			G1/100
BL (0°-30°)	131.0	3.8	B1/500		
BM (30°-60°)	188.7	5.5	B0/220		
BH (60°-80°)	49.1	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-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	551.3	551.3	551.3	551.3	551.3	551.3	551.3	551.3	551.3	551.3	551.3
2.5°	494.4	501.4	500.5	504.9	505.8	508.4	514.5	514.5	532.0	544.3	552.2
5°	449.8	445.4	447.2	452.4	465.5	464.7	479.5	487.4	508.4	525.9	544.3
7.5°	394.7	393.8	397.3	409.5	419.2	427.0	442.8	462.9	490.9	517.2	549.5
10°	359.7	357.9	364.9	368.4	379.8	385.0	409.5	441.0	474.3	511.9	549.5
12.5°	351.8	345.6	349.2	348.3	358.8	361.4	385.0	423.5	463.8	510.2	556.5
15°	356.2	351.8	348.3	348.3	350.9	352.7	378.0	412.2	457.7	512.8	572.3
17.5°	370.2	367.5	357.0	346.5	357.9	357.9	373.7	409.5	458.5	520.7	591.5
20°	386.8	384.2	365.8	353.5	361.4	370.2	386.8	415.7	461.2	526.8	621.3
22.5°	405.2	405.2	379.8	365.8	376.3	377.2	406.9	434.9	471.7	542.5	640.5
25°	427.9	426.2	401.7	385.9	389.4	399.0	426.2	455.9	490.9	564.4	676.4
27.5°	457.7	455.0	426.2	410.4	414.8	425.3	455.9	485.7	508.4	573.2	707.1
30°	482.2	479.5	455.9	432.3	441.9	451.5	487.4	513.7	530.3	589.8	742.1
32.5°	487.4	483.0	467.3	456.8	467.3	485.7	513.7	540.8	566.2	631.8	808.6
35°	547.8	532.0	490.9	474.3	490.0	496.2	542.5	590.7	615.2	665.0	882.9
37.5°	663.3	648.4	594.2	547.8	525.9	532.9	593.3	652.8	676.4	727.2	964.3
40°	805.1	780.6	722.8	660.7	616.0	607.3	646.7	734.2	756.9	805.1	1071.1
42.5°	966.9	943.3	854.1	780.6	735.1	723.7	729.8	828.7	847.9	876.8	1141.1
45°	1083.3	1071.1	970.4	904.8	868.9	856.7	841.8	931.9	956.4	966.1	1242.6
47.5°	1150.7	1142.0	1086.0	1041.3	993.2	980.1	989.7	1075.5	1058.8	1066.7	1339.7
50°	1240.8	1218.1	1142.0	1156.0	1146.3	1142.8	1159.5	1197.1	1172.6	1149.8	1445.6
52.5°	1313.5	1273.2	1219.8	1254.0	1268.8	1282.0	1340.6	1368.6	1259.2	1224.2	1513.9
55°	1358.1	1319.6	1333.6	1365.1	1380.8	1441.2	1510.4	1489.4	1316.1	1283.7	1604.9
57.5°	1398.4	1401.0	1438.6	1448.2	1528.7	1539.2	1672.2	1604.0	1356.3	1338.0	1640.7
60°	1495.5	1485.9	1516.5	1578.6	1655.6	1714.2	1841.1	1681.0	1376.5	1366.0	1631.1
62.5°	1670.5	1611.0	1621.5	1700.2	1813.1	1877.0	1938.3	1716.0	1371.2	1370.3	1602.2
65°	1892.8	1824.5	1793.0	1866.5	2012.6	2102.8	2047.6	1755.4	1336.2	1360.7	1494.6
67.5°	2077.4	2078.3	2019.6	2060.8	2251.5	2270.8	2150.9	1747.5	1277.6	1284.6	1232.1
70°	2290.0	2318.9	2267.3	2395.9	2491.3	2503.6	2269.0	1682.7	1151.6	968.7	707.9
72.5°	2344.3	2359.2	2520.2	2717.9	2825.6	2829.1	2385.4	1466.6	757.8	427.9	219.6
75°	1841.1	1855.1	2425.7	2863.2	3023.3	2992.7	2191.2	952.1	294.9	125.1	52.5
77.5°	1027.3	1031.7	1506.0	2314.5	2564.8	2441.4	1534.9	371.0	119.0	71.8	24.5
80°	280.9	329.9	558.3	1141.1	1566.4	1537.5	730.7	120.8	77.0	56.0	11.4
82.5°	67.4	72.6	179.4	504.9	827.8	863.7	217.9	61.3	53.4	46.4	6.1
85°	24.5	27.1	55.1	245.9	425.3	390.3	65.6	30.6	39.4	35.9	2.6
87.5°	8.8	8.8	17.5	80.5	124.3	93.6	21.9	10.5	20.1	21.9	0.9
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°	551.3	551.3	551.3	551.3	551.3	551.3	551.3	551.3	551.3	551.3	551.3
2.5°	553.0	553.0	565.3	575.8	579.3	583.7	579.3	588.9	588.0	583.7	585.4
5°	553.9	569.7	580.2	587.2	590.7	589.8	591.5	581.0	574.9	570.5	566.2
7.5°	558.3	573.2	592.4	590.7	581.0	560.9	545.2	517.2	490.0	489.2	484.8
10°	573.2	586.3	597.7	590.7	555.7	494.4	444.5	406.9	372.8	357.0	358.8
12.5°	583.7	608.2	602.9	567.0	494.4	413.9	340.4	285.3	254.6	225.8	225.8
15°	605.5	614.3	612.5	532.9	419.2	322.9	233.6	177.6	145.3	132.1	130.4
17.5°	626.5	636.2	606.4	481.3	344.8	217.0	141.8	110.3	105.9	104.1	105.0
20°	652.8	653.7	601.2	429.7	259.0	137.4	101.5	98.9	99.8	98.9	98.9
22.5°	680.8	686.9	582.8	357.0	172.4	99.8	94.5	95.4	95.4	95.4	98.0
25°	717.6	707.9	553.9	287.9	112.9	91.9	91.9	92.8	92.8	92.8	93.6
27.5°	742.1	728.9	517.2	207.4	88.4	86.6	88.4	88.4	90.1	90.1	90.1
30°	792.8	758.7	470.8	133.9	79.6	82.3	84.0	85.8	86.6	88.4	89.3
32.5°	832.2	784.9	413.0	89.3	72.6	74.4	78.8	82.3	85.8	84.9	84.9
35°	903.9	827.8	359.7	70.9	66.5	66.5	70.9	77.0	82.3	84.0	84.0
37.5°	986.2	862.8	285.3	64.8	61.3	61.3	63.9	70.9	77.9	81.4	79.6
40°	1054.5	903.1	210.9	60.4	56.9	56.9	58.6	63.9	71.8	77.9	78.8
42.5°	1102.6	932.8	142.6	56.0	53.4	52.5	55.1	57.8	63.9	72.6	74.4
45°	1146.3	948.6	88.4	51.6	49.9	49.9	49.9	52.5	56.9	64.8	66.5
47.5°	1224.2	966.1	63.9	48.1	45.5	46.4	47.3	48.1	51.6	53.4	54.3
50°	1289.8	979.2	52.5	44.6	42.9	43.8	43.8	43.8	45.5	42.9	42.9
52.5°	1339.7	966.1	44.6	41.1	39.4	40.3	39.4	39.4	37.6	34.1	34.1
55°	1376.5	942.4	35.9	37.6	37.6	37.6	35.9	33.3	29.8	27.1	27.1
57.5°	1386.1	902.2	28.0	31.5	34.1	34.1	30.6	27.1	22.8	20.1	19.3
60°	1371.2	814.7	21.0	22.8	26.3	27.1	24.5	20.1	15.8	13.1	13.1
62.5°	1317.8	745.6	16.6	14.9	19.3	20.1	17.5	13.1	8.8	6.1	5.3
65°	1216.3	638.8	12.3	10.5	13.1	14.0	11.4	6.1	2.6	0.9	0.0
67.5°	975.7	481.3	7.9	7.0	8.8	8.8	5.3	1.8	0.0	0.0	0.0
70°	539.9	270.4	5.3	3.5	4.4	2.6	0.9	0.0	0.0	0.0	0.0
72.5°	155.8	77.0	2.6	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	42.0	18.4	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	18.4	7.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	7.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	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)