

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: P675183

Luminaire Tested: **CCW-SA-2A-835-U-T4FT**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675183  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2A-835-U-T4FT  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/  
T4FT distribution lens  
Light Source: (32) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

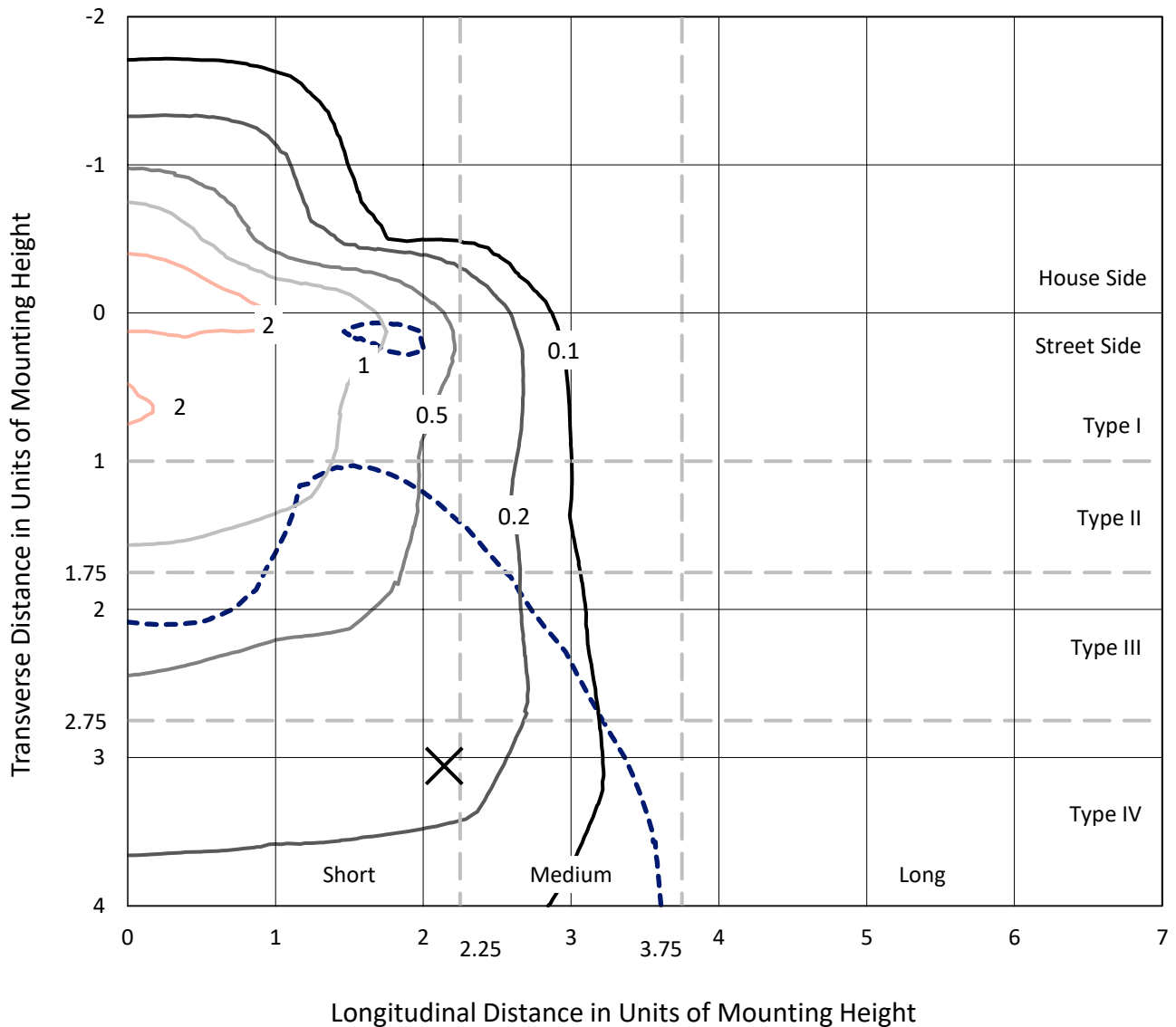
Lumens per Lamp: N/A  
Luminaire Lumens: 4505.8 lumens  
Efficiency: N/A  
Efficacy: 124.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 36.2  
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

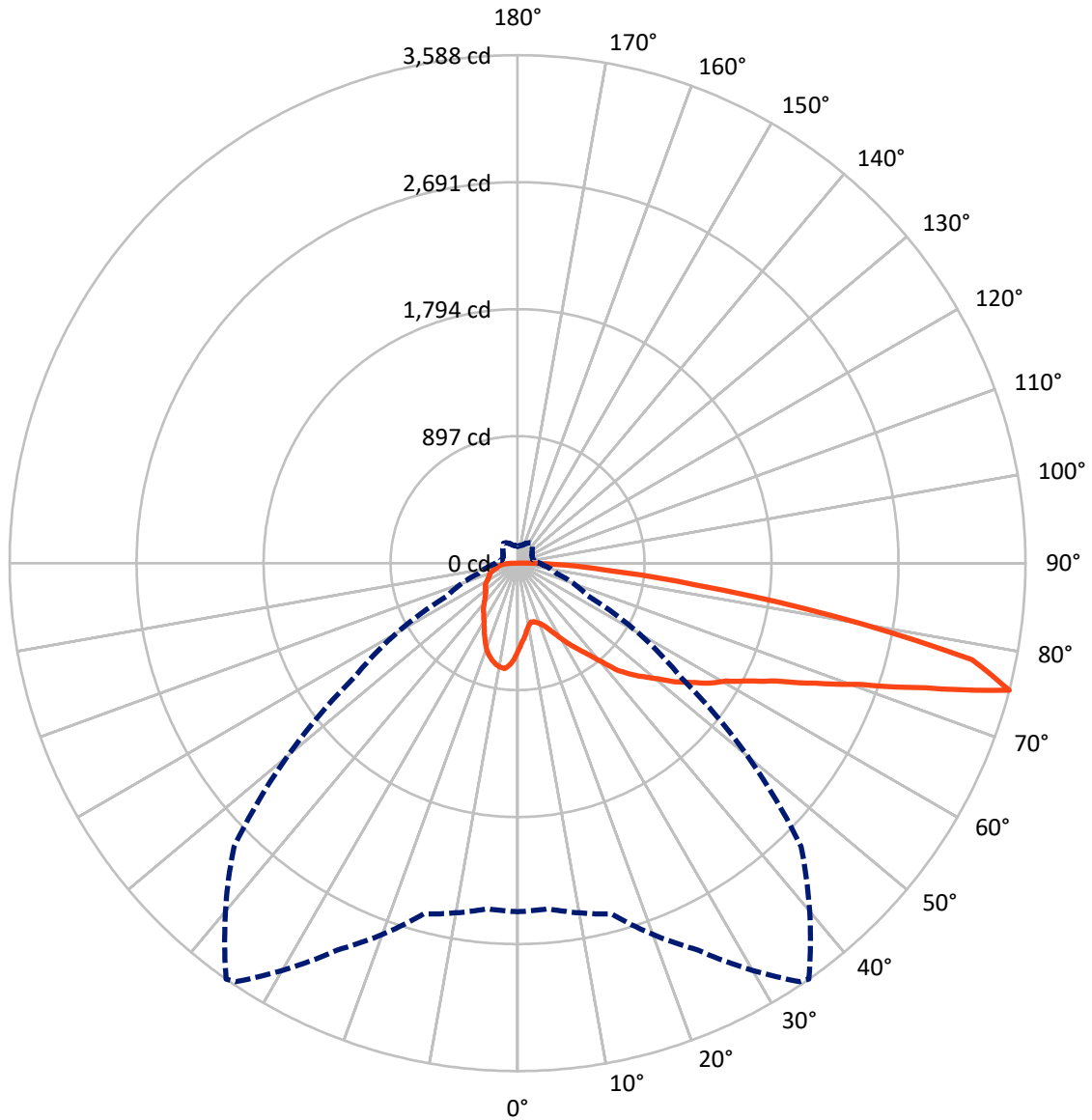
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1035.6	0.0	1035.6
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	3470.3	0.0	3470.3
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	4505.8	0.0	4505.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.8	1.3
10°-20°	170.7	3.8
20°-30°	283.3	6.3
30°-40°	419.9	9.3
40°-50°	605.5	13.4
50°-60°	832.6	18.5
60°-70°	1028.5	22.8
70°-80°	940.9	20.9
80°-90°	165.6	3.7
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°	4505.8	100.0
0°-180°	4505.8	100.0



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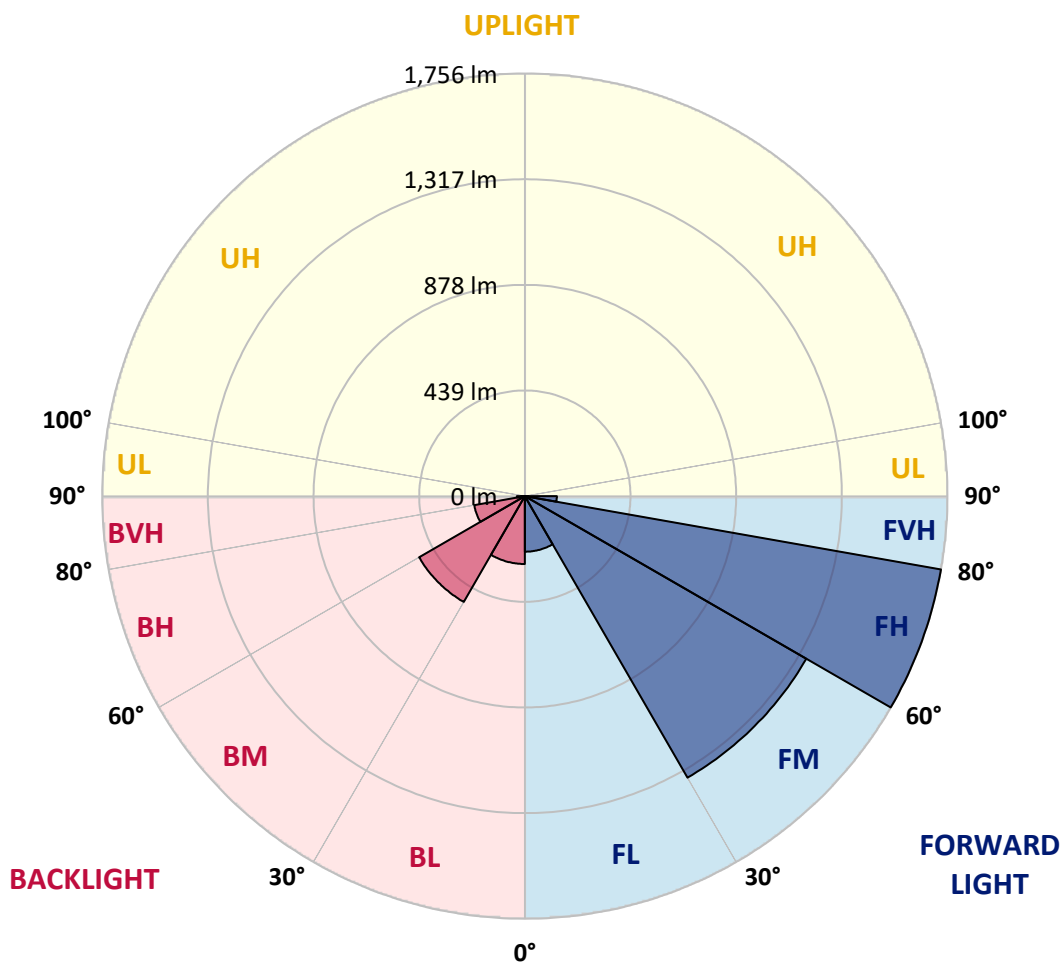
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	231.0	5.1			
FM (30°-60°)	1350.6	30.0			
FH (60°-80°)	1755.8	39.0			G1/1800
FVH (80°-90°)	132.9	3.0			G2/225
BL (0°-30°)	281.9	6.3	B1/500		
BM (30°-60°)	507.5	11.3	B1/1000		
BH (60°-80°)	213.5	4.7	B1/500		G1/500
BVH (80°-90°)	32.7	0.7			G1/100
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°	34°	35°	45°	55°	65°	75°	85°
0°	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3
2.5°	559.2	554.3	559.2	562.6	562.6	562.6	567.5	582.5	592.4	599.1	610.7
5°	501.2	502.8	506.1	514.4	519.4	522.7	531.0	549.3	564.2	585.8	610.7
7.5°	449.7	453.0	458.0	466.3	477.9	476.3	494.5	519.4	547.6	575.8	612.3
10°	423.2	429.8	431.5	433.1	444.7	444.7	469.6	497.8	532.7	569.2	612.3
12.5°	428.1	428.1	423.2	421.5	428.1	426.5	448.1	481.2	519.4	570.9	619.0
15°	443.1	443.1	433.1	423.2	433.1	429.8	448.1	474.6	519.4	572.5	632.3
17.5°	463.0	464.7	453.0	436.4	439.8	441.4	454.7	479.6	519.4	575.8	650.5
20°	502.8	494.5	476.3	449.7	461.3	456.4	476.3	497.8	529.4	589.1	677.1
22.5°	537.7	537.7	502.8	479.6	481.2	481.2	499.5	517.8	544.3	607.4	697.0
25°	594.1	590.8	547.6	512.8	516.1	517.8	527.7	549.3	569.2	617.3	721.9
27.5°	665.5	657.2	614.0	574.2	560.9	565.9	570.9	587.5	592.4	633.9	751.7
30°	741.8	730.2	693.7	630.6	624.0	625.6	617.3	627.3	620.6	660.5	781.6
32.5°	789.9	789.9	755.1	708.6	690.3	690.3	662.1	668.8	668.8	685.4	834.7
35°	831.4	828.1	804.8	770.0	758.4	751.7	723.5	733.5	716.9	733.5	909.4
37.5°	894.5	884.5	874.5	851.3	828.1	823.1	808.2	814.8	791.6	783.3	994.0
40°	967.5	962.5	952.5	942.6	919.4	917.7	901.1	907.7	882.8	851.3	1078.7
42.5°	1075.3	1060.4	1028.9	1020.6	1025.6	1032.2	1025.6	1013.9	969.1	929.3	1169.9
45°	1183.2	1160.0	1100.2	1087.0	1125.1	1120.1	1148.4	1143.4	1070.4	1007.3	1266.2
47.5°	1252.9	1233.0	1184.9	1176.6	1193.2	1199.8	1284.4	1269.5	1153.3	1078.7	1359.1
50°	1302.7	1304.4	1241.3	1262.9	1284.4	1284.4	1390.6	1389.0	1254.6	1166.6	1480.3
52.5°	1375.7	1352.5	1325.9	1345.8	1375.7	1392.3	1523.4	1486.9	1317.6	1241.3	1616.3
55°	1413.9	1403.9	1380.7	1415.5	1478.6	1486.9	1626.3	1598.1	1389.0	1329.2	1755.7
57.5°	1428.8	1437.1	1475.3	1490.2	1578.2	1599.7	1719.2	1679.4	1455.4	1438.8	1863.6
60°	1495.2	1483.6	1535.0	1594.8	1679.4	1691.0	1835.4	1749.1	1520.1	1510.1	1898.4
62.5°	1629.6	1599.7	1627.9	1699.3	1817.1	1832.1	1958.2	1842.0	1548.3	1558.3	1896.8
65°	1825.4	1803.9	1762.4	1818.8	1984.7	2006.3	2102.6	1921.7	1540.0	1541.7	1762.4
67.5°	2056.1	2021.2	1978.1	2012.9	2215.4	2265.2	2278.5	1956.5	1481.9	1448.7	1433.8
70°	2258.6	2235.3	2207.1	2266.8	2549.0	2567.2	2497.5	1935.0	1320.9	1163.3	955.9
72.5°	2447.7	2436.1	2452.7	2676.7	3000.3	3012.0	2703.3	1798.9	1043.8	705.3	444.7
75°	2462.7	2451.1	2565.6	3015.3	3566.2	3587.8	2831.1	1410.6	550.9	287.1	187.5
77.5°	1667.8	1702.6	1916.7	2640.2	3275.8	3280.8	2315.0	655.5	227.3	169.3	131.1
80°	409.9	454.7	721.9	1365.8	2208.8	2263.5	1267.8	220.7	149.4	129.4	97.9
82.5°	149.4	162.6	293.7	617.3	1241.3	1262.9	443.1	119.5	107.9	99.6	71.4
85°	71.4	73.0	139.4	303.7	627.3	620.6	159.3	71.4	78.0	68.0	43.1
87.5°	29.9	29.9	61.4	141.1	277.1	268.8	51.4	33.2	44.8	39.8	21.6
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°	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3
2.5°	619.0	622.3	635.6	645.5	655.5	663.8	677.1	677.1	685.4	685.4	685.4
5°	617.3	635.6	657.2	680.4	695.3	710.3	723.5	725.2	730.2	736.8	738.5
7.5°	624.0	642.2	677.1	710.3	728.5	735.1	751.7	746.8	746.8	746.8	751.7
10°	637.2	657.2	705.3	735.1	748.4	750.1	745.1	741.8	731.8	728.5	723.5
12.5°	647.2	682.0	730.2	753.4	748.4	743.4	731.8	715.2	703.6	700.3	700.3
15°	672.1	706.9	751.7	760.0	751.7	725.2	710.3	692.0	682.0	667.1	673.7
17.5°	693.7	733.5	773.3	763.4	746.8	705.3	683.7	657.2	643.9	627.3	627.3
20°	721.9	758.4	793.2	766.7	730.2	685.4	650.5	617.3	599.1	582.5	585.8
22.5°	753.4	786.6	804.8	753.4	705.3	653.8	605.7	574.2	550.9	541.0	544.3
25°	778.3	814.8	811.5	731.8	675.4	614.0	560.9	531.0	526.1	516.1	516.1
27.5°	809.8	848.0	806.5	705.3	625.6	550.9	517.8	506.1	506.1	501.2	504.5
30°	851.3	877.9	794.9	667.1	562.6	494.5	477.9	484.6	496.2	491.2	492.9
32.5°	919.4	916.0	784.9	624.0	496.2	439.8	451.4	464.7	474.6	479.6	482.9
35°	985.7	964.2	773.3	565.9	434.8	413.2	423.2	438.1	456.4	461.3	463.0
37.5°	1052.1	1013.9	753.4	494.5	396.6	390.0	399.9	408.2	423.2	426.5	429.8
40°	1121.8	1047.1	718.6	424.8	365.1	365.1	371.7	373.4	381.7	386.7	390.0
42.5°	1183.2	1078.7	655.5	360.1	331.9	343.5	345.2	341.9	335.2	338.5	340.2
45°	1257.9	1113.5	582.5	313.6	307.0	321.9	325.3	312.0	300.4	293.7	290.4
47.5°	1330.9	1150.0	519.4	275.5	283.8	307.0	307.0	292.1	272.2	255.6	248.9
50°	1397.3	1186.5	468.0	252.2	260.5	295.4	298.7	270.5	248.9	229.0	225.7
52.5°	1508.5	1247.9	414.9	234.0	247.3	287.1	285.4	260.5	232.3	210.8	209.1
55°	1606.4	1309.3	345.2	215.7	234.0	275.5	280.5	250.6	212.4	192.5	189.2
57.5°	1677.7	1324.3	275.5	197.5	220.7	262.2	268.8	230.7	199.1	182.5	180.9
60°	1691.0	1266.2	224.0	182.5	202.5	243.9	248.9	219.1	189.2	175.9	172.6
62.5°	1629.6	1155.0	190.8	169.3	187.5	225.7	235.6	205.8	179.2	167.6	165.9
65°	1490.2	992.4	167.6	157.7	177.6	212.4	224.0	195.8	170.9	161.0	159.3
67.5°	1179.9	761.7	149.4	149.4	164.3	199.1	215.7	189.2	162.6	156.0	154.3
70°	771.7	458.0	136.1	137.7	154.3	187.5	205.8	180.9	152.7	151.0	147.7
72.5°	331.9	210.8	121.1	126.1	139.4	167.6	190.8	169.3	141.1	136.1	131.1
75°	152.7	127.8	109.5	112.8	124.5	147.7	172.6	156.0	131.1	122.8	117.8
77.5°	107.9	92.9	91.3	97.9	106.2	127.8	152.7	146.0	121.1	114.5	111.2
80°	79.7	71.4	76.3	83.0	88.0	117.8	144.4	134.4	111.2	101.2	96.2
82.5°	56.4	53.1	59.7	66.4	71.4	102.9	132.8	117.8	92.9	84.6	76.3
85°	33.2	34.8	41.5	44.8	49.8	76.3	111.2	94.6	71.4	54.8	53.1
87.5°	14.9	14.9	19.9	21.6	24.9	44.8	74.7	59.7	44.8	34.8	33.2
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)