

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: P672177

Luminaire Tested: **CCP-SA-1B-840-U-T2R**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P672177
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1B-840-U-T2R
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ T2R distribution lens
Light Source: (16) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

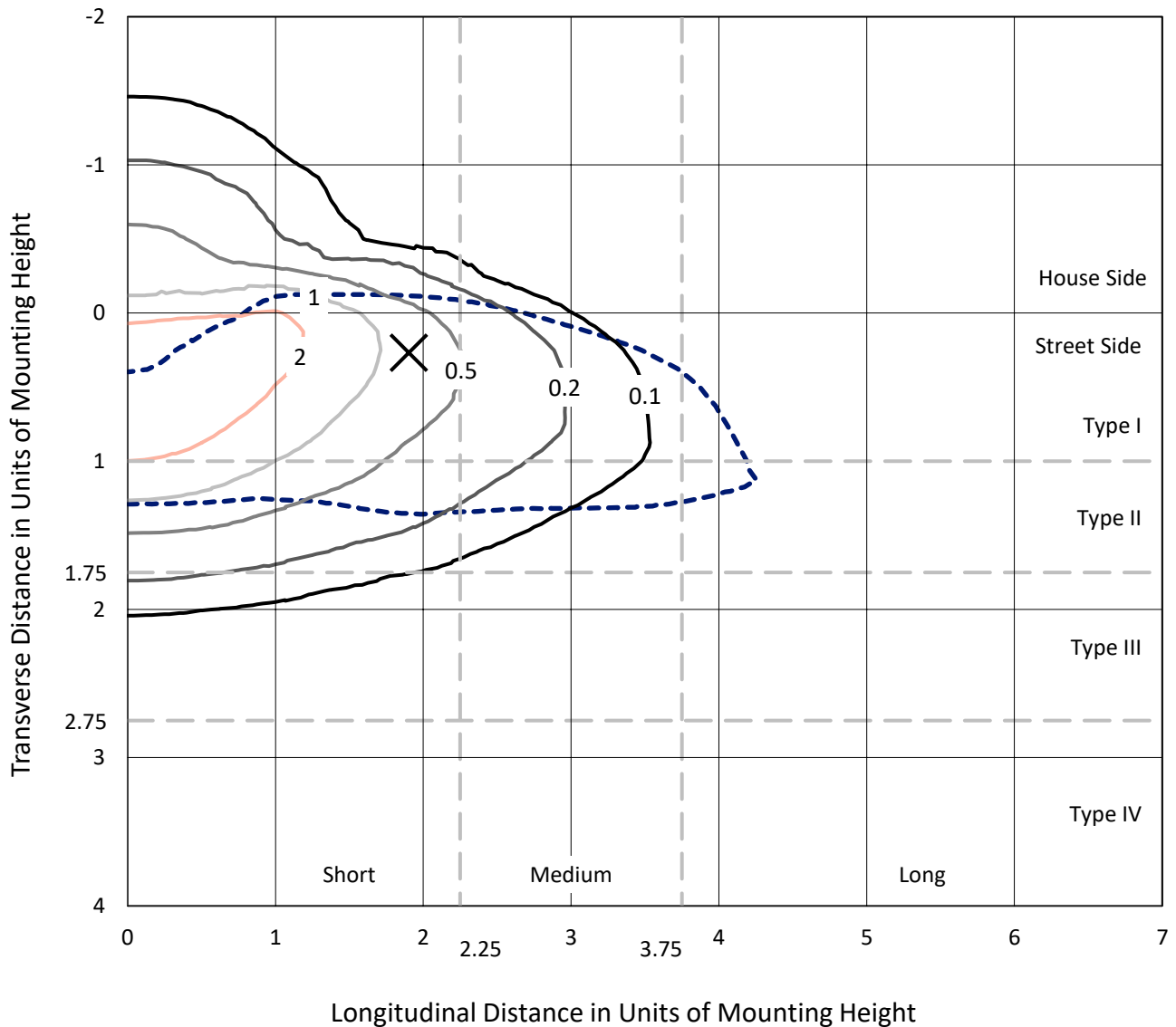
Lumens per Lamp: N/A
Luminaire Lumens: 2991 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 24
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

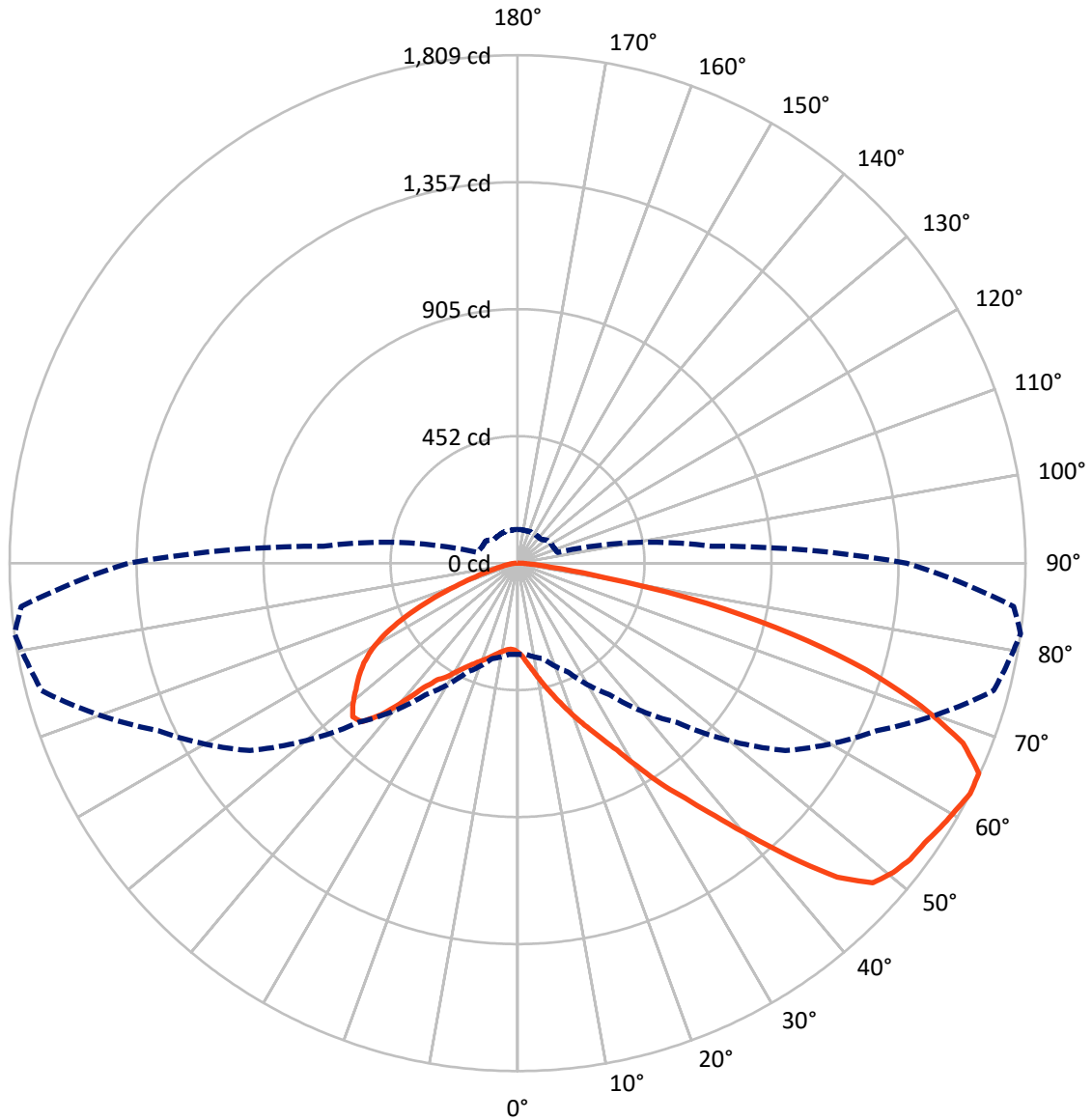
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	563.5	0.0	563.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	2427.5	0.0	2427.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	2991.0	0.0	2991.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.2	1.2
10°-20°	132.8	4.4
20°-30°	274.9	9.2
30°-40°	466.6	15.6
40°-50°	635.4	21.2
50°-60°	643.2	21.5
60°-70°	506.9	16.9
70°-80°	249.7	8.3
80°-90°	46.2	1.5
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°	2991.0	100.0
0°-180°	2991.0	100.0



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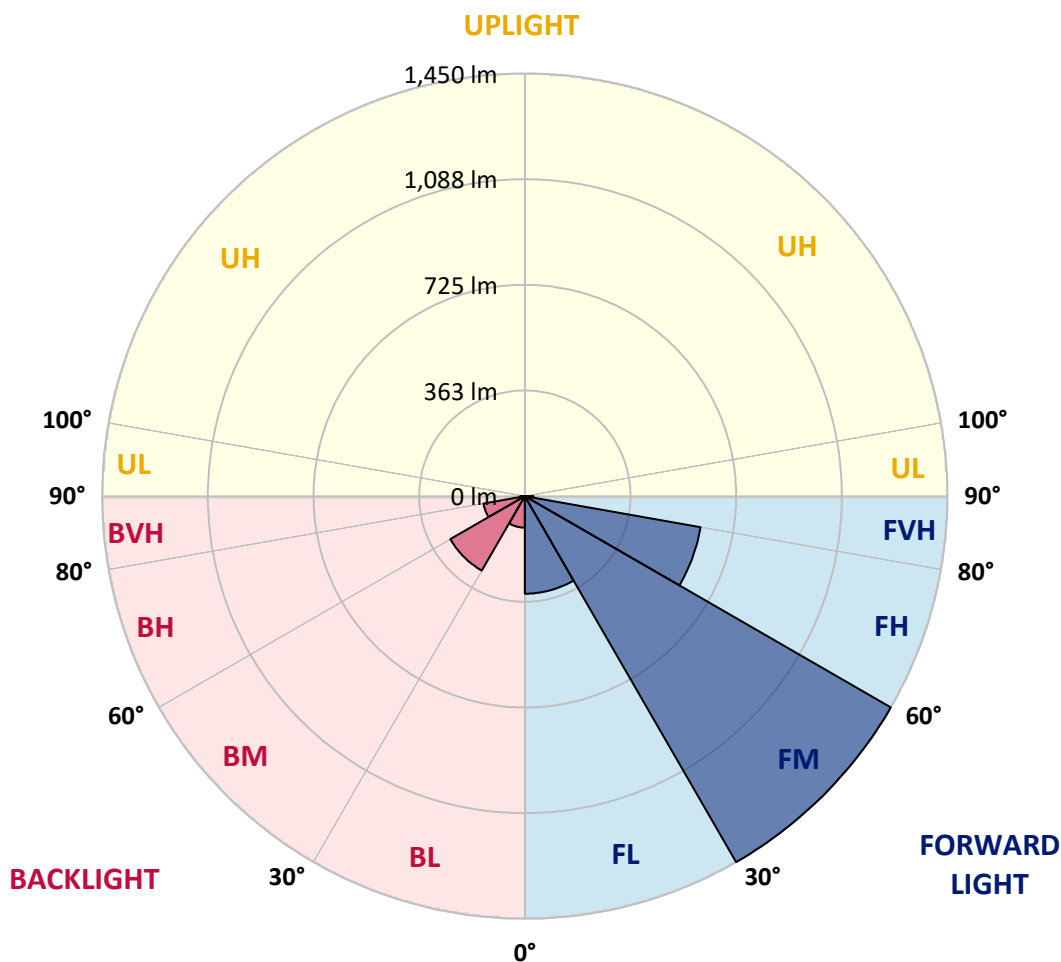
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	334.8	11.2			
FM (30°-60°)	1450.1	48.5			
FH (60°-80°)	612.6	20.5			G0/660
FVH (80°-90°)	30.0	1.0			G1/100
BL (0°-30°)	108.1	3.6	B0/110		
BM (30°-60°)	295.1	9.9	B1/1000		
BH (60°-80°)	144.0	4.8	B1/500		G1/500
BVH (80°-90°)	16.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1
2.5°	423.6	417.1	413.7	409.8	399.0	392.1	379.2	364.2	346.7	331.9	329.1
5°	513.0	506.5	507.4	497.9	482.2	467.5	443.4	415.0	381.8	356.4	347.6
7.5°	576.1	568.9	570.7	566.8	554.1	537.9	507.4	470.7	422.3	384.6	370.4
10°	618.3	619.1	620.4	618.9	610.7	599.3	568.9	528.5	468.2	418.0	398.6
12.5°	666.1	668.4	668.0	668.7	664.3	655.3	625.6	587.5	517.0	454.0	428.8
15°	727.0	724.6	726.6	729.4	724.6	714.7	688.5	643.2	568.3	494.0	462.8
17.5°	793.8	788.8	794.0	791.2	787.7	781.3	752.4	704.2	621.3	537.3	500.7
20°	851.5	848.3	851.1	851.5	852.1	850.8	821.1	769.9	676.8	584.5	541.6
22.5°	916.3	914.8	914.4	914.6	915.2	916.7	896.5	841.8	738.4	634.0	585.7
25°	1007.0	1005.5	995.6	984.6	978.1	982.8	972.3	923.4	806.5	689.5	634.2
27.5°	1108.6	1106.2	1093.1	1065.3	1044.6	1048.1	1047.0	1013.4	884.9	753.3	692.3
30°	1214.1	1208.3	1190.2	1151.2	1118.7	1112.7	1115.7	1104.5	983.5	837.9	773.3
32.5°	1308.2	1297.5	1273.6	1234.2	1195.4	1177.9	1178.4	1183.3	1090.7	936.5	858.2
35°	1365.7	1358.6	1340.8	1300.9	1257.6	1246.0	1242.8	1267.5	1189.1	1027.9	934.2
37.5°	1396.7	1389.9	1370.7	1338.6	1305.9	1301.1	1307.2	1345.5	1300.9	1141.8	1037.5
40°	1391.1	1383.8	1371.3	1348.9	1327.4	1331.1	1357.8	1417.0	1423.0	1278.1	1184.8
42.5°	1345.1	1337.3	1336.2	1334.7	1324.6	1340.8	1389.0	1469.3	1535.2	1435.5	1363.1
45°	1263.7	1258.9	1264.5	1290.4	1303.1	1334.3	1403.6	1494.7	1633.8	1595.5	1531.8
47.5°	1160.5	1157.7	1170.4	1211.3	1252.5	1314.5	1413.3	1501.6	1701.7	1701.7	1642.2
50°	1045.1	1044.0	1060.8	1120.2	1184.6	1278.1	1412.2	1508.1	1731.4	1732.9	1681.2
52.5°	884.0	889.6	934.4	1012.8	1100.2	1221.0	1397.2	1526.2	1748.2	1751.6	1707.3
55°	698.4	703.8	771.4	876.9	988.9	1151.7	1352.2	1520.8	1751.4	1759.2	1722.1
57.5°	557.5	558.6	600.8	726.2	864.8	1063.0	1300.3	1485.0	1741.9	1775.8	1745.0
60°	436.3	439.7	467.9	567.2	721.0	948.6	1242.3	1449.7	1747.3	1791.5	1765.6
62.5°	325.0	325.8	352.1	429.0	572.8	802.8	1163.7	1412.0	1754.9	1809.1	1774.0
65°	211.7	211.5	236.9	306.2	427.9	645.4	1040.3	1353.0	1755.5	1805.3	1735.5
67.5°	134.6	135.5	146.4	190.2	286.4	487.1	872.4	1243.4	1724.9	1711.4	1595.1
70°	109.2	109.4	112.8	124.3	174.4	332.9	655.7	1072.0	1628.2	1524.2	1386.4
72.5°	97.3	97.6	99.3	100.6	116.3	200.1	430.3	870.4	1456.4	1299.2	1150.2
75°	87.4	87.4	88.5	87.2	95.4	125.5	244.2	654.4	1199.5	1011.7	868.9
77.5°	76.7	76.4	76.4	75.8	82.5	91.7	122.3	456.8	864.0	690.0	563.6
80°	65.0	64.6	65.3	64.8	71.3	69.6	71.3	281.9	468.4	316.3	239.9
82.5°	50.6	50.6	52.5	53.0	58.8	50.4	50.2	133.7	177.9	118.2	88.5
85°	26.5	29.7	40.1	41.8	44.4	31.7	36.8	62.5	71.3	45.2	32.3
87.5°	8.0	8.4	24.5	27.6	27.3	15.9	22.6	30.1	33.4	20.0	13.1
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°	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1
2.5°	321.9	314.4	298.5	284.3	273.5	263.2	256.0	252.4	247.6	248.3	246.8
5°	331.9	316.3	288.1	265.3	250.0	238.4	231.3	227.6	224.2	222.5	223.7
7.5°	346.7	322.6	283.2	255.6	239.7	229.8	225.9	224.8	224.0	223.3	224.4
10°	365.9	333.6	282.3	252.2	237.5	231.5	230.0	229.3	228.5	227.6	228.3
12.5°	385.5	345.6	285.3	253.0	241.0	236.5	234.5	233.7	231.5	230.4	230.6
15°	410.0	360.3	289.4	256.5	245.5	239.7	237.1	234.7	231.3	229.8	230.4
17.5°	436.3	377.7	295.0	259.7	247.2	240.1	234.9	231.5	228.1	225.9	226.1
20°	466.0	394.9	300.0	260.8	246.4	236.5	230.2	226.1	221.6	219.2	218.6
22.5°	496.8	413.0	303.9	259.9	241.6	230.2	223.1	218.1	212.8	209.1	209.3
25°	534.3	437.6	307.1	256.9	235.4	222.0	214.1	207.8	202.2	198.8	199.0
27.5°	579.3	465.4	311.0	252.2	227.8	213.2	203.9	197.7	192.3	189.1	188.6
30°	639.4	501.5	315.3	246.4	218.4	203.5	194.5	188.0	182.8	179.8	179.8
32.5°	707.0	545.7	318.3	239.5	207.8	193.2	185.0	179.8	175.9	171.8	171.4
35°	765.8	579.9	327.5	234.1	198.6	183.5	177.9	174.2	168.4	164.5	163.9
37.5°	852.1	640.2	354.9	232.6	187.4	175.9	174.9	168.0	161.3	154.0	153.3
40°	991.2	744.7	386.8	225.3	175.7	171.8	170.8	161.5	145.8	141.3	140.4
42.5°	1168.3	870.4	390.2	203.9	167.5	168.4	165.2	147.1	140.2	136.7	135.9
45°	1328.0	972.5	370.6	182.2	161.5	163.2	156.6	141.7	137.8	134.6	133.7
47.5°	1417.8	1003.9	333.6	165.8	157.0	158.7	142.8	139.1	135.2	132.0	131.1
50°	1443.0	976.6	290.5	156.3	153.5	154.2	139.1	137.0	133.5	130.9	129.6
52.5°	1448.0	935.7	250.7	150.7	151.0	145.1	135.9	134.2	132.0	127.9	126.4
55°	1450.1	898.9	214.9	147.3	149.2	133.5	132.4	131.1	129.4	125.1	124.3
57.5°	1455.7	851.7	186.9	144.7	147.1	128.1	128.6	127.7	125.5	123.6	123.2
60°	1439.8	786.4	165.4	142.1	144.1	123.6	124.0	124.5	122.5	122.1	121.9
62.5°	1386.4	693.8	147.1	138.7	137.8	119.1	119.1	120.8	119.1	119.7	119.7
65°	1276.4	575.8	130.7	132.2	128.1	114.1	113.9	116.9	114.3	117.1	117.4
67.5°	1088.8	435.9	113.9	122.1	118.0	109.0	109.8	112.2	108.8	114.6	114.6
70°	861.8	296.5	96.5	107.9	107.7	103.2	106.0	105.7	101.9	110.5	109.0
72.5°	642.0	190.4	78.6	90.4	94.1	96.9	102.1	97.6	93.9	98.8	94.3
75°	448.6	119.3	62.0	71.5	78.4	90.0	97.3	88.3	82.9	81.4	80.1
77.5°	268.5	76.2	48.9	54.5	61.2	81.8	91.3	78.6	70.4	69.6	67.0
80°	123.8	49.7	37.3	40.7	43.5	70.2	83.1	67.2	57.3	56.4	53.4
82.5°	56.0	32.7	27.8	29.1	29.3	55.8	70.2	53.2	43.7	70.8	61.4
85°	26.1	21.1	18.1	17.2	17.4	37.3	51.0	36.6	49.7	38.8	29.5
87.5°	11.2	10.8	9.3	7.3	6.7	8.0	19.6	15.3	21.8	8.6	5.8
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)