

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: P672111

Luminaire Tested: **CCP-SA-1B-740-U-T2R**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672111  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1B-740-U-T2R  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ T2R distribution lens  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

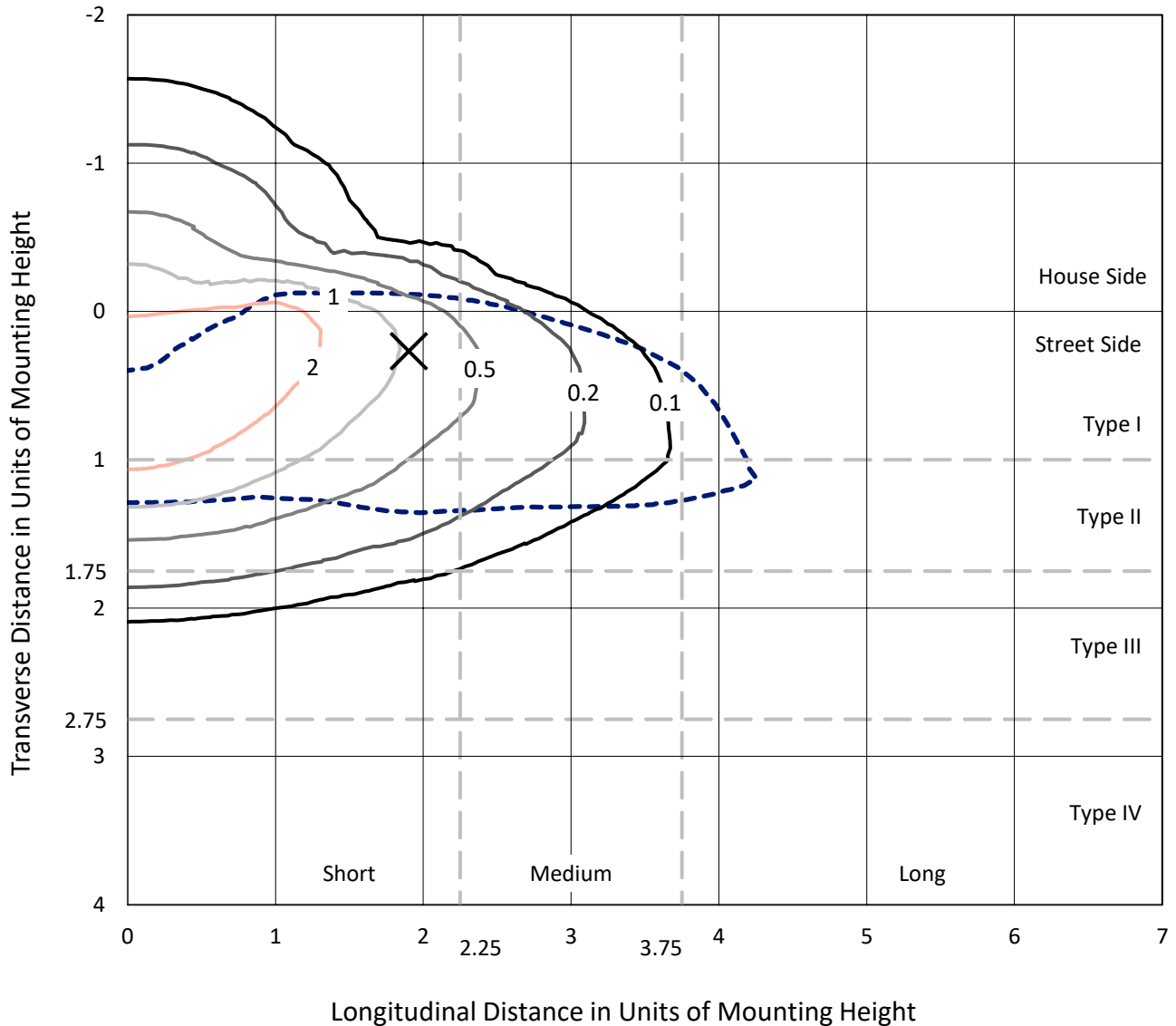
Lumens per Lamp: N/A  
Luminaire Lumens: 3508 lumens  
Efficiency: N/A  
Efficacy: 146.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

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

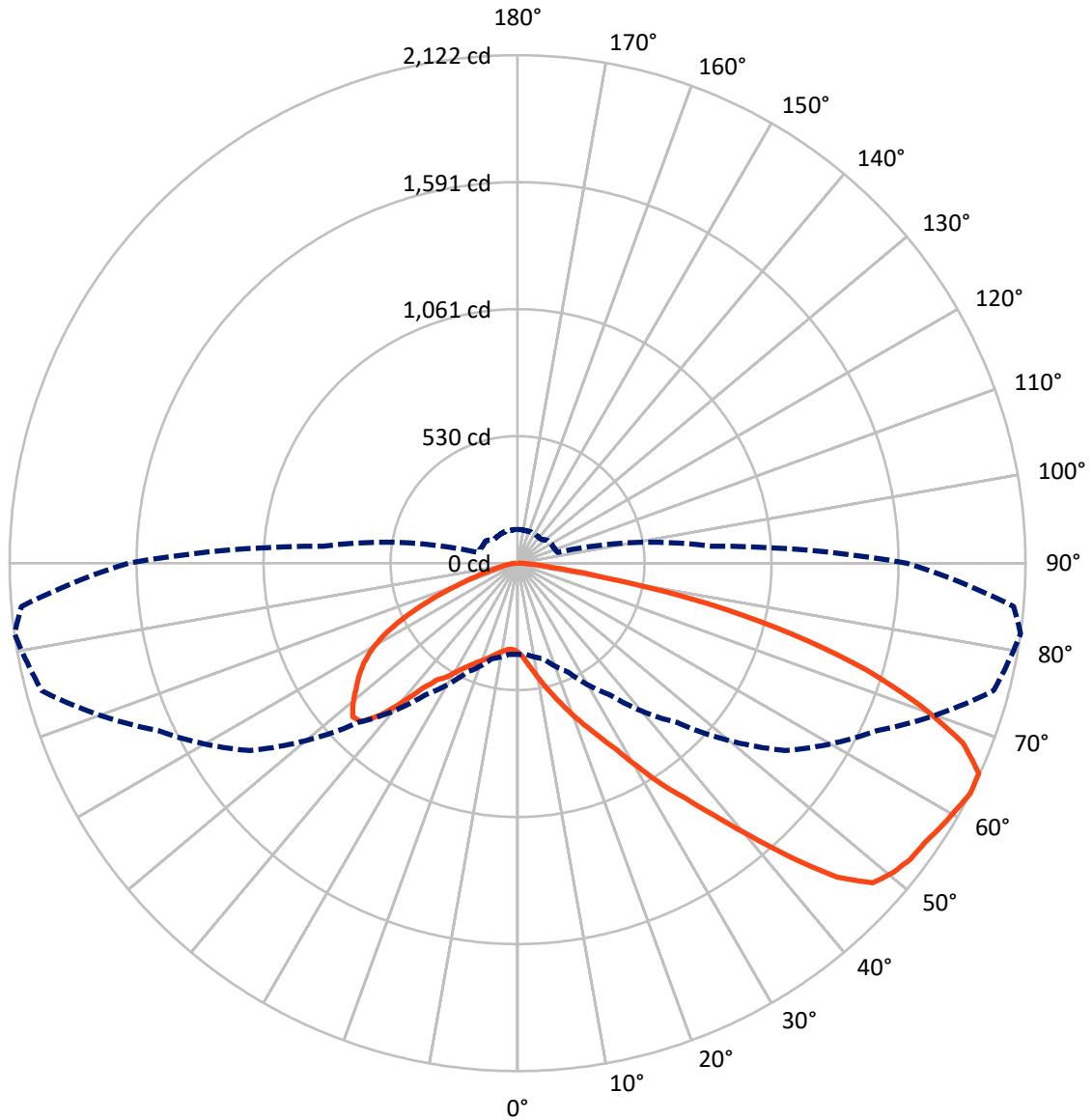
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.1 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
<b>House Side</b>	Lumens	660.9	0.0	660.9
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	2847.1	0.0	2847.1
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	3508.0	0.0	3508.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.3	1.2
10°-20°	155.7	4.4
20°-30°	322.5	9.2
30°-40°	547.3	15.6
40°-50°	745.3	21.2
50°-60°	754.4	21.5
60°-70°	594.6	16.9
70°-80°	292.9	8.3
80°-90°	54.2	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°	3508.0	100.0
0°-180°	3508.0	100.0



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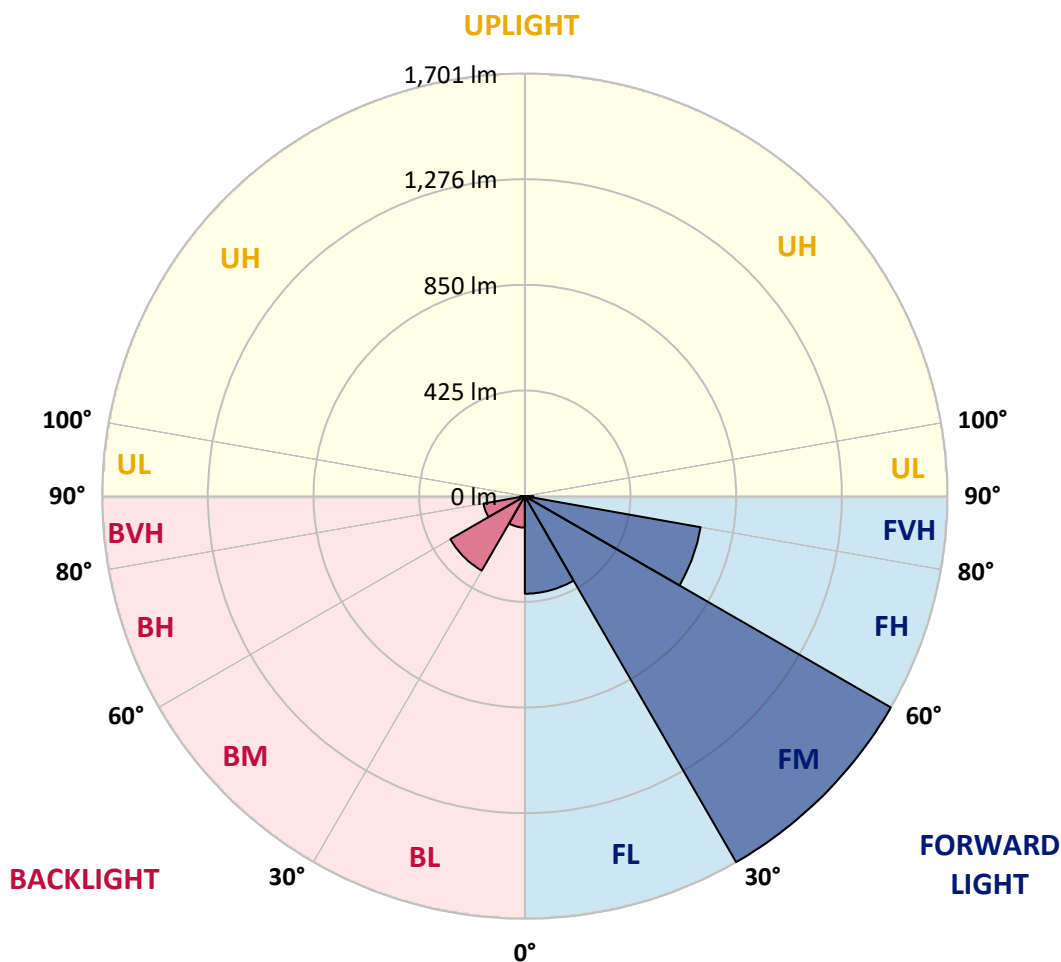
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	392.6	11.2			
FM (30°-60°)	1700.8	48.5			
FH (60°-80°)	718.5	20.5			G1/1800
FVH (80°-90°)	35.2	1.0			G1/100
BL (0°-30°)	126.8	3.6	B1/500		
BM (30°-60°)	346.2	9.9	B1/1000		
BH (60°-80°)	168.9	4.8	B1/500		G1/500
BVH (80°-90°)	19.0	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°	373.1	373.1	373.1	373.1	373.1	373.1	373.1	373.1	373.1	373.1	373.1
2.5°	496.8	489.2	485.2	480.7	468.0	459.9	444.8	427.1	406.6	389.2	385.9
5°	601.6	594.1	595.1	584.0	565.5	548.3	520.1	486.7	447.8	418.0	407.7
7.5°	675.6	667.3	669.3	664.8	649.9	630.9	595.1	552.1	495.3	451.1	434.4
10°	725.1	726.2	727.7	725.9	716.3	702.9	667.3	619.8	549.1	490.3	467.5
12.5°	781.2	784.0	783.5	784.3	779.2	768.6	733.7	689.0	606.4	532.4	502.9
15°	852.7	849.9	852.2	855.5	849.9	838.3	807.5	754.4	666.6	579.4	542.8
17.5°	931.0	925.2	931.3	928.0	923.9	916.3	882.5	825.9	728.7	630.2	587.2
20°	998.7	994.9	998.2	998.7	999.4	997.9	963.1	903.0	793.8	685.5	635.2
22.5°	1074.7	1072.9	1072.4	1072.7	1073.5	1075.2	1051.5	987.3	866.1	743.6	687.0
25°	1181.1	1179.3	1167.7	1154.8	1147.2	1152.8	1140.4	1083.1	945.9	808.8	743.8
27.5°	1300.3	1297.5	1282.1	1249.5	1225.3	1229.3	1228.0	1188.6	1037.8	883.5	812.0
30°	1424.0	1417.2	1396.0	1350.3	1312.1	1305.1	1308.6	1295.5	1153.5	982.8	907.0
32.5°	1534.4	1521.8	1493.7	1447.5	1402.1	1381.6	1382.1	1387.9	1279.3	1098.5	1006.5
35°	1601.8	1593.5	1572.5	1525.8	1475.1	1461.4	1457.6	1486.7	1394.7	1205.6	1095.7
37.5°	1638.2	1630.1	1607.7	1570.0	1531.6	1526.1	1533.1	1578.1	1525.8	1339.2	1216.9
40°	1631.6	1623.1	1608.4	1582.1	1556.9	1561.2	1592.5	1662.0	1669.0	1499.0	1389.7
42.5°	1577.6	1568.5	1567.2	1565.5	1553.6	1572.5	1629.1	1723.3	1800.6	1683.7	1598.8
45°	1482.1	1476.6	1483.1	1513.4	1528.3	1565.0	1646.3	1753.1	1916.3	1871.3	1796.6
47.5°	1361.1	1357.9	1372.8	1420.7	1469.0	1541.7	1657.7	1761.2	1995.9	1995.9	1926.2
50°	1225.8	1224.5	1244.2	1313.9	1389.4	1499.0	1656.4	1768.8	2030.7	2032.5	1971.9
52.5°	1036.8	1043.4	1095.9	1187.9	1290.4	1432.1	1638.7	1790.0	2050.4	2054.5	2002.4
55°	819.1	825.4	904.7	1028.5	1159.8	1350.8	1585.9	1783.7	2054.2	2063.3	2019.9
57.5°	653.9	655.2	704.7	851.7	1014.3	1246.7	1525.1	1741.8	2043.1	2082.8	2046.6
60°	511.7	515.8	548.9	665.3	845.6	1112.6	1457.1	1700.3	2049.4	2101.2	2070.9
62.5°	381.1	382.1	413.0	503.1	671.9	941.6	1364.9	1656.1	2058.3	2121.9	2080.7
65°	248.3	248.0	277.8	359.2	501.9	757.0	1220.2	1586.9	2059.0	2117.4	2035.5
67.5°	157.9	158.9	171.8	223.0	335.9	571.3	1023.2	1458.4	2023.1	2007.2	1870.8
70°	128.1	128.3	132.4	145.7	204.6	390.5	769.1	1257.3	1909.7	1787.7	1626.1
72.5°	114.2	114.4	116.4	118.0	136.4	234.6	504.6	1020.9	1708.2	1523.8	1349.0
75°	102.5	102.5	103.8	102.3	111.9	147.3	286.4	767.6	1406.9	1186.6	1019.1
77.5°	89.9	89.7	89.7	88.9	96.7	107.6	143.5	535.7	1013.3	809.3	661.0
80°	76.3	75.8	76.5	76.0	83.6	81.6	83.6	330.6	549.4	371.0	281.4
82.5°	59.4	59.4	61.6	62.1	69.0	59.1	58.9	156.9	208.6	138.7	103.8
85°	31.1	34.9	47.0	49.0	52.0	37.1	43.2	73.2	83.6	53.0	37.9
87.5°	9.3	9.9	28.8	32.3	32.1	18.7	26.5	35.4	39.1	23.5	15.4
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°	373.1	373.1	373.1	373.1	373.1	373.1	373.1	373.1	373.1	373.1	373.1
2.5°	377.6	368.8	350.1	333.4	320.8	308.6	300.3	296.0	290.5	291.2	289.5
5°	389.2	371.0	337.9	311.2	293.2	279.6	271.3	267.0	262.9	260.9	262.4
7.5°	406.6	378.4	332.1	299.8	281.1	269.5	265.0	263.7	262.7	261.9	263.2
10°	429.1	391.2	331.1	295.8	278.6	271.5	269.8	269.0	268.0	267.0	267.7
12.5°	452.1	405.4	334.7	296.8	282.6	277.3	275.1	274.0	271.5	270.3	270.5
15°	480.9	422.6	339.5	300.8	287.9	281.1	278.1	275.3	271.3	269.5	270.3
17.5°	511.7	443.0	346.0	304.6	290.0	281.6	275.6	271.5	267.5	265.0	265.2
20°	546.6	463.2	351.8	305.9	288.9	277.3	270.0	265.2	259.9	257.1	256.4
22.5°	582.7	484.4	356.4	304.9	283.4	270.0	261.7	255.9	249.5	245.3	245.5
25°	626.6	513.2	360.2	301.3	276.1	260.4	251.1	243.7	237.2	233.1	233.4
27.5°	679.4	545.8	364.7	295.8	267.2	250.1	239.2	231.9	225.6	221.8	221.3
30°	749.9	588.3	369.8	288.9	256.1	238.7	228.1	220.5	214.4	210.9	210.9
32.5°	829.2	640.0	373.3	280.9	243.7	226.6	217.0	210.9	206.4	201.6	201.1
35°	898.2	680.2	384.2	274.6	232.9	215.2	208.6	204.3	197.5	193.0	192.2
37.5°	999.4	750.9	416.2	272.8	219.7	206.4	205.1	197.0	189.2	180.6	179.8
40°	1162.6	873.4	453.6	264.2	206.1	201.6	200.3	189.4	171.0	165.7	164.7
42.5°	1370.2	1020.9	457.7	239.2	196.5	197.5	193.7	172.5	164.4	160.4	159.4
45°	1557.6	1140.6	434.7	213.7	189.4	191.5	183.6	166.2	161.6	157.9	156.9
47.5°	1663.0	1177.5	391.2	194.5	184.1	186.1	167.5	163.2	158.6	154.8	153.8
50°	1692.5	1145.4	340.7	183.4	180.1	180.8	163.2	160.6	156.6	153.6	152.1
52.5°	1698.3	1097.4	294.0	176.8	177.1	170.2	159.4	157.4	154.8	150.0	148.3
55°	1700.9	1054.3	252.1	172.8	175.0	156.6	155.3	153.8	151.8	146.7	145.7
57.5°	1707.4	998.9	219.2	169.7	172.5	150.3	150.8	149.8	147.3	145.0	144.5
60°	1688.7	922.4	194.0	166.7	169.0	145.0	145.5	146.0	143.7	143.2	143.0
62.5°	1626.1	813.8	172.5	162.7	161.6	139.7	139.7	141.7	139.7	140.4	140.4
65°	1497.0	675.4	153.3	155.1	150.3	133.9	133.6	137.1	134.1	137.4	137.7
67.5°	1277.0	511.2	133.6	143.2	138.4	127.8	128.8	131.6	127.6	134.4	134.4
70°	1010.8	347.8	113.2	126.5	126.3	121.0	124.3	124.0	119.5	129.6	127.8
72.5°	752.9	223.3	92.2	106.1	110.4	113.7	119.7	114.4	110.1	115.9	110.6
75°	526.1	139.9	72.7	83.9	91.9	105.6	114.2	103.6	97.2	95.5	94.0
77.5°	315.0	89.4	57.3	63.9	71.7	96.0	107.1	92.2	82.6	81.6	78.6
80°	145.2	58.3	43.7	47.7	51.0	82.3	97.5	78.8	67.2	66.2	62.6
82.5°	65.7	38.4	32.6	34.1	34.4	65.4	82.3	62.4	51.3	83.1	72.0
85°	30.6	24.8	21.2	20.2	20.5	43.7	59.9	42.9	58.3	45.5	34.6
87.5°	13.1	12.6	10.9	8.6	7.8	9.3	23.0	17.9	25.5	10.1	6.8
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)