

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: P674741

Luminaire Tested: **CCP-SA-2A-827-U-T3R-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674741  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2A-827-U-T3R-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @350mA w/ T3R distribution lens and House Side Shield  
Light Source: (32) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

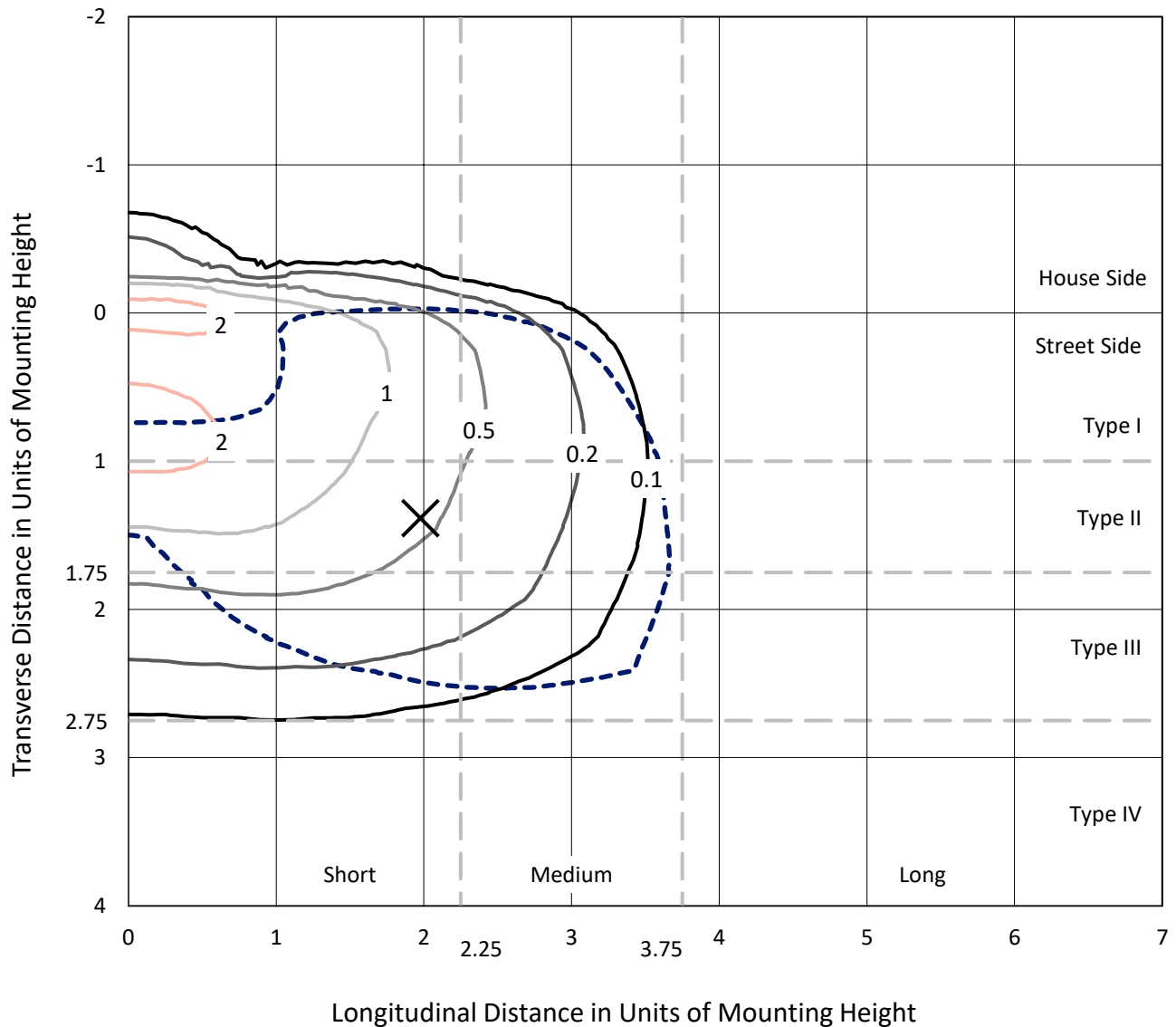
Lumens per Lamp: N/A  
Luminaire Lumens: 3190 lumens  
Efficiency: N/A  
Efficacy: 88.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

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

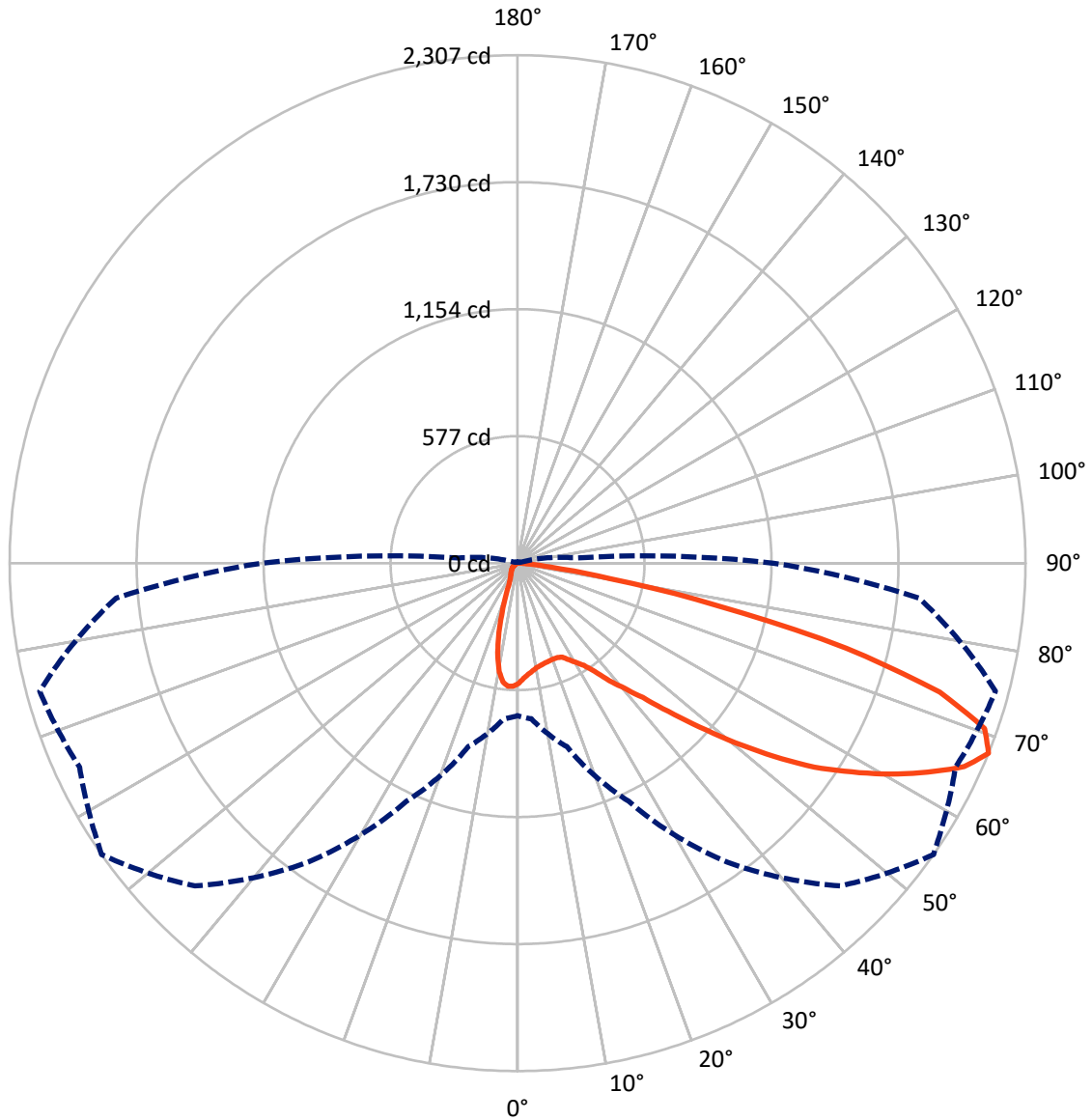
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	286.6	0.0	286.6
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	2903.4	0.0	2903.4
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	3190.0	0.0	3190.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.0	1.5
10°-20°	109.2	3.4
20°-30°	175.3	5.5
30°-40°	304.0	9.5
40°-50°	506.8	15.9
50°-60°	741.2	23.2
60°-70°	864.2	27.1
70°-80°	419.4	13.1
80°-90°	21.9	0.7
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°	3190.0	100.0
0°-180°	3190.0	100.0



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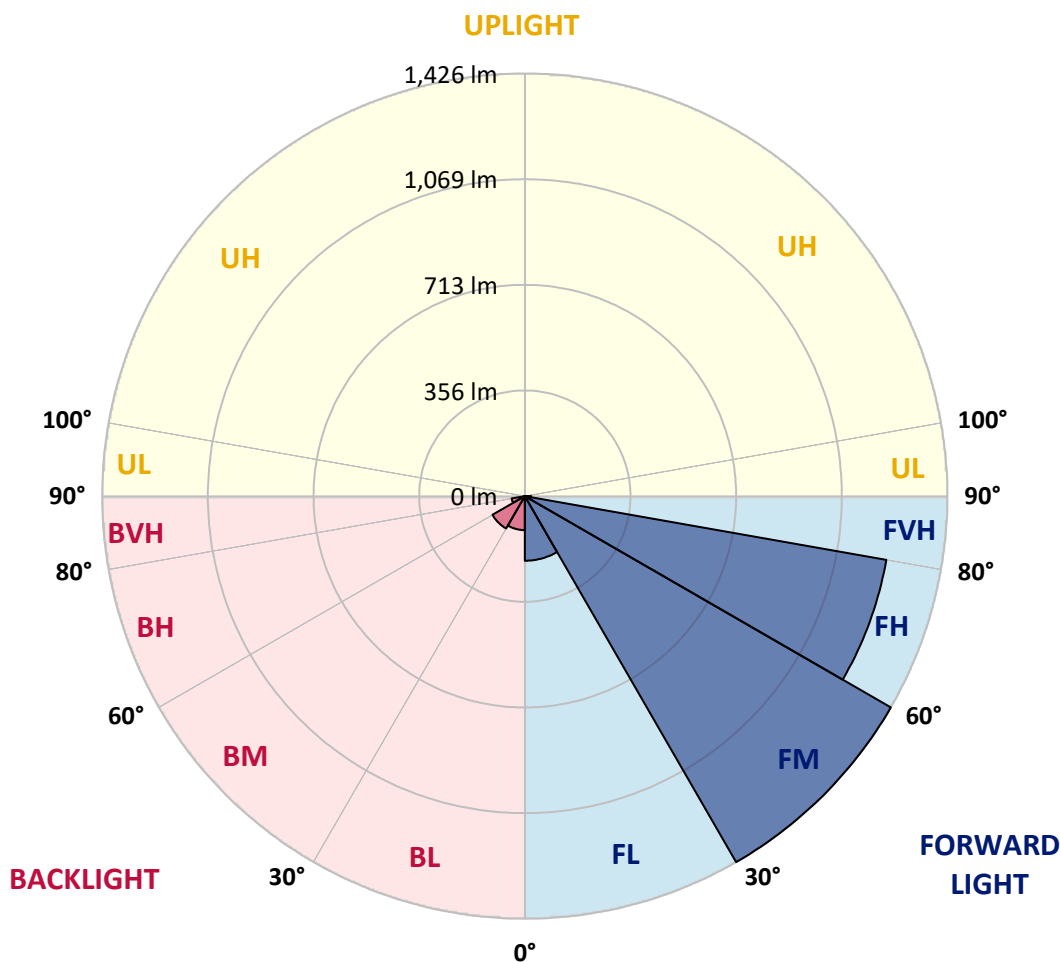
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	217.9	6.8			
FM (30°-60°)	1425.8	44.7			
FH (60°-80°)	1238.4	38.8			G1/1800
FVH (80°-90°)	21.3	0.7			G1/100
BL (0°-30°)	114.6	3.6	B1/500		
BM (30°-60°)	126.2	4.0	B0/220		
BH (60°-80°)	45.2	1.4	B0/110		G0/110
BVH (80°-90°)	0.6	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	546.7	546.7	546.7	546.7	546.7	546.7	546.7	546.7	546.7	546.7	546.7
2.5°	504.6	507.9	512.0	513.5	518.5	525.5	523.5	522.0	529.9	540.8	544.3
5°	473.2	473.5	480.0	484.7	493.2	499.9	507.3	506.7	521.1	539.6	551.4
7.5°	442.3	442.9	449.7	457.0	469.4	482.6	493.8	493.2	516.4	541.1	563.4
10°	401.8	404.7	412.9	425.9	445.3	466.1	481.7	483.2	511.1	546.7	579.9
12.5°	369.1	370.6	379.7	396.5	419.4	446.7	475.8	475.0	512.3	557.0	601.3
15°	355.3	354.5	360.0	372.4	398.5	432.9	470.0	472.0	516.4	568.7	623.7
17.5°	358.6	357.7	360.6	365.0	383.6	421.5	466.7	470.3	522.9	581.1	644.5
20°	394.4	388.3	383.0	378.3	380.9	412.1	464.7	468.5	526.7	590.5	666.6
22.5°	463.5	455.9	441.7	415.6	398.2	412.6	465.3	470.3	535.2	605.7	693.3
25°	576.1	568.7	538.4	484.9	439.1	433.8	473.2	478.5	554.9	629.0	721.8
27.5°	725.1	708.6	671.9	595.2	506.7	467.6	497.0	502.9	582.8	646.9	741.2
30°	848.8	845.0	809.7	715.7	599.9	517.3	523.7	527.0	595.5	657.8	760.6
32.5°	977.2	969.3	937.0	845.6	708.0	588.1	553.7	555.2	611.9	673.9	788.8
35°	1088.9	1081.6	1054.5	965.8	834.4	683.3	603.4	600.2	646.0	709.5	827.1
37.5°	1192.4	1191.5	1167.7	1077.2	947.9	782.1	676.6	673.9	699.2	748.6	878.8
40°	1293.5	1291.1	1270.9	1188.3	1059.5	880.5	746.2	739.5	744.5	803.3	947.0
42.5°	1355.5	1360.5	1367.6	1315.2	1192.1	996.1	834.4	830.3	829.4	888.8	1036.6
45°	1389.0	1397.8	1439.3	1434.6	1332.6	1139.8	959.9	949.3	945.8	1006.3	1139.2
47.5°	1421.6	1425.5	1493.3	1521.9	1467.2	1289.7	1111.6	1096.9	1082.5	1149.8	1261.7
50°	1423.7	1429.9	1513.9	1583.3	1580.1	1437.2	1281.7	1268.8	1252.3	1324.4	1381.4
52.5°	1394.9	1407.2	1511.3	1622.1	1650.0	1567.4	1458.4	1447.8	1434.3	1488.1	1482.2
55°	1195.9	1216.8	1459.5	1625.6	1699.1	1679.1	1635.9	1621.2	1608.0	1646.2	1580.9
57.5°	1101.3	1113.0	1302.6	1623.0	1761.7	1782.6	1789.9	1783.1	1764.6	1812.2	1684.1
60°	1044.6	1061.6	1227.7	1593.6	1829.3	1899.5	1945.7	1932.2	1909.5	1975.1	1794.6
62.5°	976.7	989.0	1153.0	1508.9	1869.6	2018.6	2091.7	2079.4	2032.7	2125.3	1884.0
65°	851.5	870.0	1034.3	1375.8	1815.5	2105.9	2229.3	2225.2	2144.1	2238.7	1908.3
67.5°	693.0	709.8	862.9	1193.3	1657.3	2073.2	2307.2	2294.2	2194.6	2247.2	1831.0
70°	520.2	529.3	644.8	911.7	1357.9	1898.9	2250.7	2248.1	2117.9	2120.8	1593.9
72.5°	279.2	304.5	428.8	610.2	954.9	1538.0	2005.9	1995.3	1889.5	1737.0	1146.2
75°	97.6	104.9	228.4	342.7	518.7	1024.6	1542.4	1517.7	1413.1	1129.8	624.6
77.5°	60.0	65.8	101.4	175.2	201.9	444.7	926.7	894.7	827.1	488.5	213.4
80°	41.4	46.7	67.9	91.7	68.8	144.0	426.5	414.4	318.9	116.4	49.1
82.5°	23.2	27.9	51.4	45.0	27.6	37.3	147.8	137.0	84.9	31.4	16.5
85°	13.5	16.2	36.2	31.7	14.1	13.2	38.5	34.4	22.0	11.8	7.9
87.5°	7.1	9.1	26.5	21.2	8.5	4.7	8.8	8.5	5.6	4.1	5.3
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°	546.7	546.7	546.7	546.7	546.7	546.7	546.7	546.7	546.7	546.7	546.7
2.5°	550.8	549.3	557.0	559.6	559.0	557.8	560.8	557.0	556.7	555.8	554.9
5°	560.8	563.1	569.3	569.3	561.1	547.6	539.3	528.2	518.7	513.2	512.3
7.5°	575.8	580.5	584.6	571.9	543.7	510.2	474.7	446.7	422.3	409.7	408.5
10°	596.9	601.3	598.1	562.0	501.4	432.0	374.1	316.0	286.9	271.0	271.0
12.5°	622.2	625.7	606.0	537.0	431.8	331.2	253.9	192.8	163.7	144.9	143.7
15°	649.5	650.4	604.9	493.5	345.6	222.5	145.8	107.0	94.6	92.0	91.4
17.5°	673.3	669.8	592.5	429.1	248.9	132.6	92.6	83.8	81.4	81.4	81.4
20°	695.7	683.9	567.8	354.2	159.6	90.2	79.6	77.3	77.3	77.6	77.6
22.5°	720.4	697.2	532.6	271.0	102.6	77.3	74.7	73.5	73.2	74.1	73.8
25°	749.5	710.1	482.0	187.2	79.4	72.0	70.8	69.7	69.7	69.7	69.7
27.5°	765.6	708.3	424.4	118.2	69.4	66.7	65.5	64.4	63.5	63.2	63.5
30°	779.7	698.0	349.2	82.6	62.6	59.7	58.8	57.3	55.5	55.0	55.0
32.5°	798.3	689.5	270.4	66.4	56.7	53.5	50.8	48.5	45.6	44.4	44.1
35°	818.8	673.9	198.1	58.5	51.4	47.3	43.2	39.4	35.6	34.4	34.1
37.5°	844.4	659.8	134.3	54.1	47.0	42.0	36.4	31.2	27.6	27.0	27.0
40°	879.1	648.1	92.9	50.3	42.9	37.0	30.3	24.7	22.3	21.7	21.7
42.5°	926.4	638.4	70.2	47.0	39.4	32.0	24.4	20.3	18.5	17.9	17.9
45°	982.2	623.4	59.4	44.1	35.9	27.0	20.3	17.0	16.2	16.2	16.2
47.5°	1046.3	604.6	54.1	41.1	32.0	22.0	17.0	15.6	15.3	15.3	15.6
50°	1111.0	582.2	50.3	37.6	27.6	18.8	15.6	14.7	14.7	15.0	15.0
52.5°	1154.8	547.3	46.4	33.8	23.2	16.5	14.7	14.4	14.1	14.1	14.1
55°	1197.4	516.7	41.1	29.7	19.4	15.3	14.1	13.8	13.8	13.5	13.5
57.5°	1241.8	492.6	34.4	24.7	16.5	14.4	13.5	13.5	12.9	12.6	12.6
60°	1293.2	471.4	26.5	19.4	14.4	13.5	12.6	12.3	11.8	11.2	11.2
62.5°	1308.2	426.8	20.0	15.6	12.3	11.8	11.5	10.9	9.4	8.2	8.5
65°	1269.1	356.5	15.9	12.3	10.0	10.0	9.1	7.6	6.2	5.3	5.3
67.5°	1161.2	266.3	12.9	9.7	7.9	7.6	6.5	5.6	3.8	3.2	3.2
70°	957.0	176.1	10.6	7.6	6.5	5.3	4.4	4.1	2.9	2.4	2.4
72.5°	670.7	95.5	8.8	6.2	4.7	3.5	2.9	2.6	2.1	1.8	1.5
75°	354.2	36.7	7.1	4.7	2.9	2.4	1.8	1.8	1.5	1.2	1.2
77.5°	121.4	15.6	5.0	2.6	2.1	1.5	1.2	0.9	1.2	0.9	0.9
80°	28.8	9.1	3.2	1.8	1.2	0.9	0.9	0.6	0.6	0.6	0.6
82.5°	12.6	5.3	2.1	1.2	1.2	0.9	0.6	0.3	0.3	0.3	0.3
85°	8.5	3.2	1.5	1.2	0.9	0.6	0.3	0.3	0.0	0.0	0.0
87.5°	6.8	2.1	1.2	1.2	0.9	0.6	0.3	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)