

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: P674749

Luminaire Tested: **CCP-SA-1D-830-U-T3R-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674749  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1D-830-U-T3R-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @800mA w/ T3R distribution lens and House Side Shield  
Light Source: (16) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

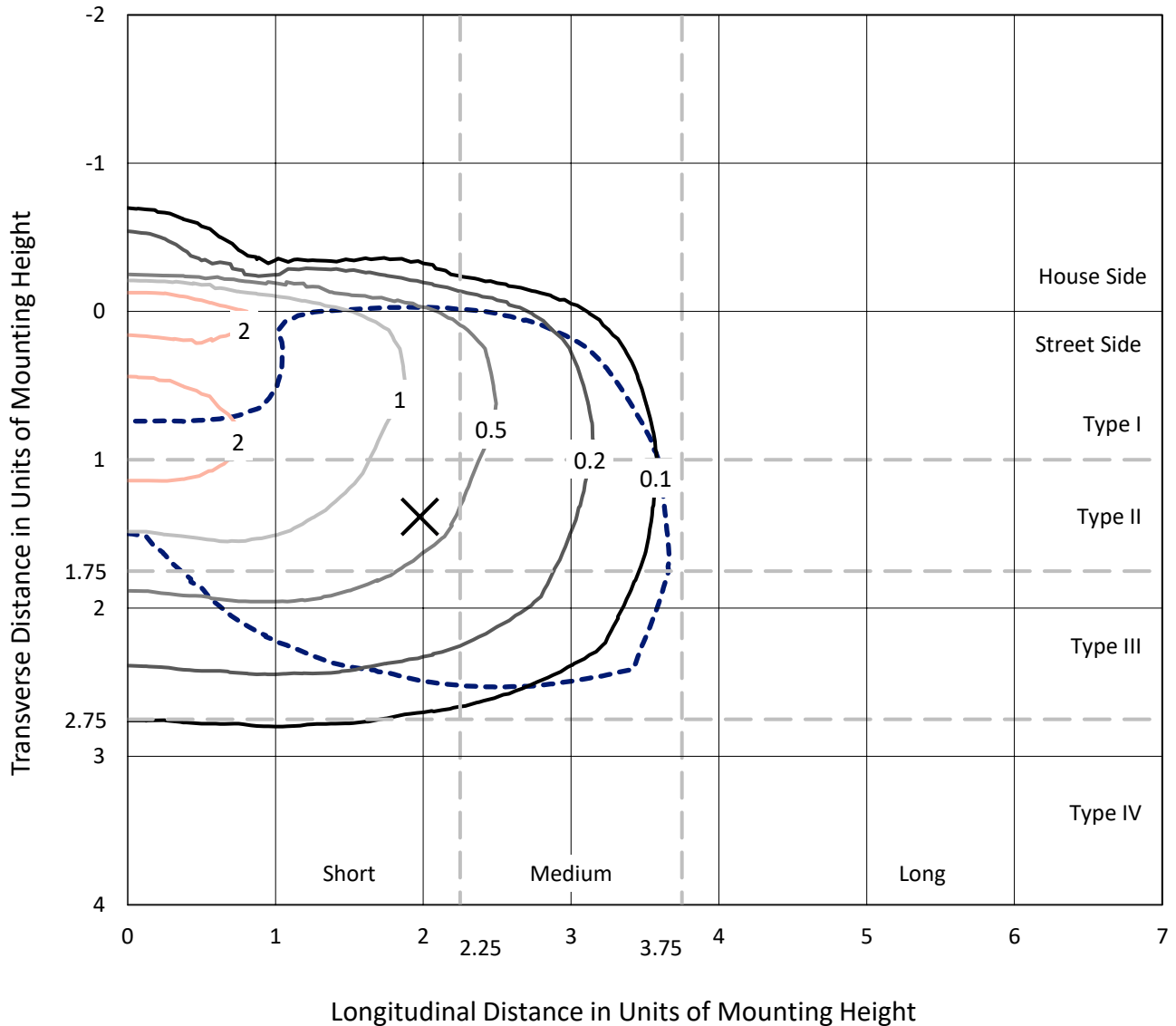
Lumens per Lamp: N/A  
Luminaire Lumens: 3514.5 lumens  
Efficiency: N/A  
Efficacy: 79.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

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

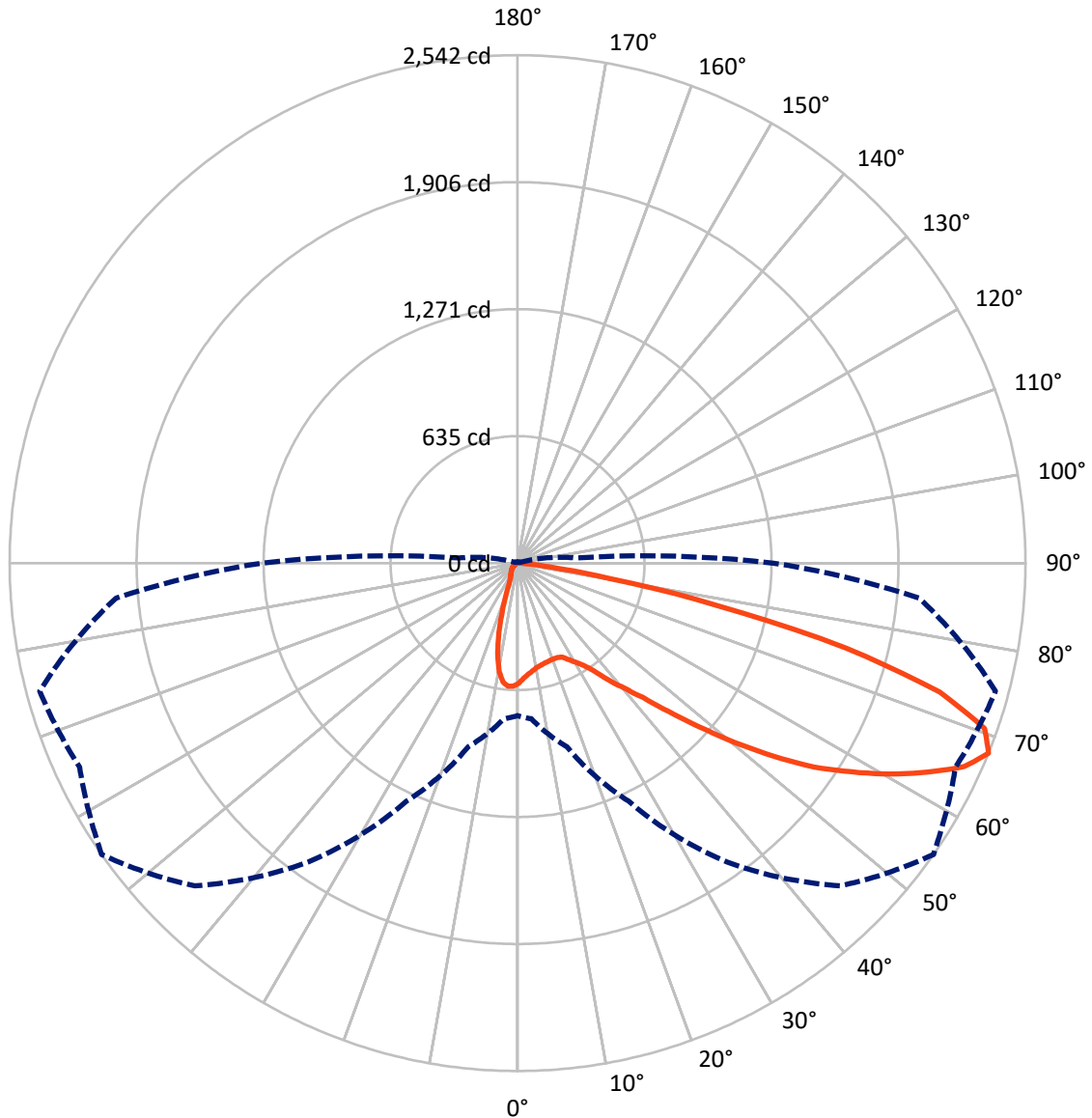
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.9 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	315.7	0.0	315.7
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	3198.8	0.0	3198.8
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	3514.5	0.0	3514.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.9	1.5
10°-20°	120.4	3.4
20°-30°	193.1	5.5
30°-40°	334.9	9.5
40°-50°	558.4	15.9
50°-60°	816.6	23.2
60°-70°	952.1	27.1
70°-80°	462.1	13.1
80°-90°	24.2	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°	3514.5	100.0
0°-180°	3514.5	100.0

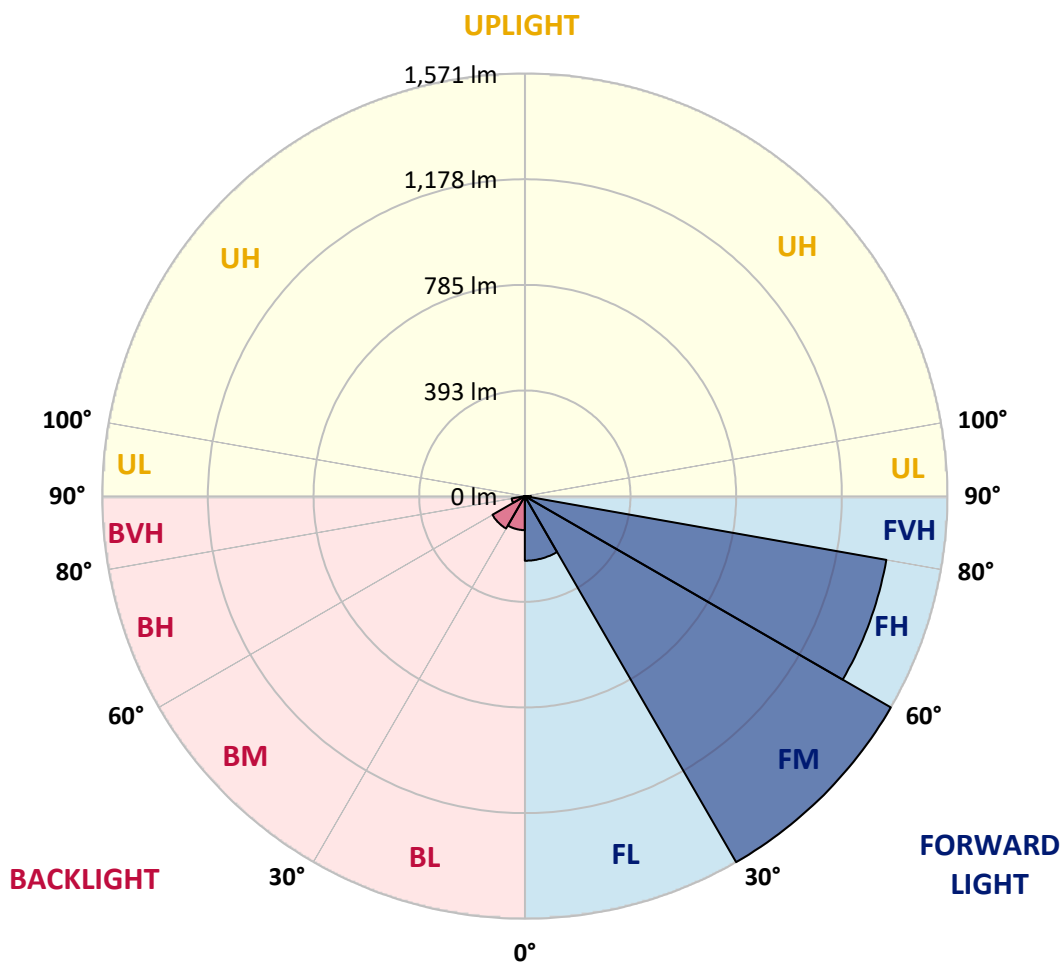


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	240.1	6.8			
FM (30°-60°)	1570.9	44.7			
FH (60°-80°)	1364.4	38.8			G1/1800
FVH (80°-90°)	23.5	0.7			G1/100
BL (0°-30°)	126.2	3.6	B1/500		
BM (30°-60°)	139.0	4.0	B0/220		
BH (60°-80°)	49.8	1.4	B0/110		G0/110
BVH (80°-90°)	0.7	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°	602.3	602.3	602.3	602.3	602.3	602.3	602.3	602.3	602.3	602.3	602.3
2.5°	556.0	559.5	564.1	565.7	571.2	579.0	576.7	575.1	583.8	595.8	599.7
5°	521.3	521.7	528.8	534.0	543.4	550.8	558.9	558.2	574.1	594.5	607.5
7.5°	487.3	488.0	495.4	503.5	517.1	531.7	544.0	543.4	568.9	596.1	620.7
10°	442.6	445.9	455.0	469.2	490.6	513.6	530.7	532.3	563.1	602.3	638.9
12.5°	406.7	408.3	418.4	436.8	462.1	492.2	524.2	523.3	564.4	613.6	662.5
15°	391.5	390.5	396.7	410.3	439.1	477.0	517.8	520.0	568.9	626.6	687.1
17.5°	395.0	394.1	397.3	402.2	422.6	464.3	514.2	518.1	576.1	640.2	710.1
20°	434.6	427.8	421.9	416.7	419.7	454.0	511.9	516.2	580.3	650.5	734.4
22.5°	510.6	502.2	486.7	457.9	438.8	454.6	512.6	518.1	589.7	667.4	763.9
25°	634.7	626.6	593.2	534.3	483.8	477.9	521.3	527.2	611.4	693.0	795.3
27.5°	798.8	780.7	740.2	655.7	558.2	515.2	547.6	554.0	642.1	712.7	816.6
30°	935.2	931.0	892.1	788.5	660.9	569.9	577.0	580.6	656.0	724.7	838.0
32.5°	1076.7	1067.9	1032.3	931.6	780.1	647.9	610.1	611.7	674.2	742.5	869.1
35°	1199.7	1191.6	1161.8	1064.0	919.3	752.9	664.8	661.2	711.7	781.7	911.2
37.5°	1313.7	1312.7	1286.5	1186.8	1044.3	861.7	745.4	742.5	770.3	824.7	968.2
40°	1425.1	1422.5	1400.2	1309.2	1167.3	970.1	822.2	814.7	820.2	885.0	1043.3
42.5°	1493.4	1498.9	1506.7	1449.0	1313.4	1097.4	919.3	914.8	913.8	979.2	1142.1
45°	1530.3	1540.0	1585.7	1580.5	1468.2	1255.7	1057.6	1045.9	1042.0	1108.7	1255.1
47.5°	1566.3	1570.5	1645.3	1676.7	1616.5	1420.9	1224.6	1208.5	1192.6	1266.7	1390.1
50°	1568.5	1575.3	1667.9	1744.4	1740.8	1583.4	1412.1	1397.9	1379.8	1459.1	1521.9
52.5°	1536.8	1550.4	1665.0	1787.1	1817.9	1726.9	1606.7	1595.1	1580.2	1639.4	1633.0
55°	1317.6	1340.6	1608.0	1791.0	1871.9	1849.9	1802.3	1786.1	1771.6	1813.7	1741.8
57.5°	1213.3	1226.3	1435.1	1788.1	1940.9	1963.9	1972.0	1964.6	1944.2	1996.6	1855.4
60°	1150.8	1169.6	1352.6	1755.7	2015.4	2092.8	2143.6	2128.7	2103.8	2176.0	1977.2
62.5°	1076.0	1089.6	1270.3	1662.4	2059.8	2223.9	2304.6	2291.0	2239.5	2341.5	2075.6
65°	938.1	958.5	1139.5	1515.8	2000.2	2320.1	2456.1	2451.6	2362.2	2466.5	2102.5
67.5°	763.5	782.0	950.7	1314.7	1826.0	2284.2	2541.9	2527.7	2417.9	2475.8	2017.3
70°	573.1	583.2	710.4	1004.5	1496.0	2092.1	2479.7	2476.8	2333.4	2336.6	1756.0
72.5°	307.6	335.5	472.4	672.2	1052.1	1694.5	2210.0	2198.3	2081.8	1913.7	1262.9
75°	107.5	115.6	251.6	377.6	571.5	1128.8	1699.4	1672.2	1556.9	1244.7	688.1
77.5°	66.1	72.5	111.7	193.0	222.5	489.9	1021.0	985.7	911.2	538.2	235.1
80°	45.7	51.5	74.8	101.0	75.8	158.7	469.8	456.6	351.3	128.2	54.1
82.5°	25.6	30.8	56.7	49.5	30.4	41.1	162.9	150.9	93.6	34.6	18.1
85°	14.9	17.8	39.8	35.0	15.5	14.6	42.4	37.9	24.3	13.0	8.7
87.5°	7.8	10.0	29.1	23.3	9.4	5.2	9.7	9.4	6.2	4.5	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	602.3	602.3	602.3	602.3	602.3	602.3	602.3	602.3	602.3	602.3	602.3
2.5°	606.8	605.2	613.6	616.5	615.9	614.6	617.8	613.6	613.3	612.3	611.4
5°	617.8	620.4	627.2	627.2	618.2	603.3	594.2	581.9	571.5	565.4	564.4
7.5°	634.3	639.5	644.1	630.1	599.0	562.1	523.0	492.2	465.3	451.4	450.1
10°	657.7	662.5	659.0	619.1	552.4	476.0	412.2	348.1	316.0	298.6	298.6
12.5°	685.5	689.4	667.7	591.6	475.7	364.9	279.8	212.4	180.4	159.6	158.3
15°	715.6	716.6	666.4	543.7	380.8	245.1	160.6	117.9	104.3	101.4	100.7
17.5°	741.8	738.0	652.8	472.8	274.3	146.0	102.0	92.3	89.7	89.7	89.7
20°	766.5	753.5	625.6	390.2	175.8	99.4	87.8	85.2	85.2	85.5	85.5
22.5°	793.7	768.1	586.7	298.6	113.0	85.2	82.2	81.0	80.6	81.6	81.3
25°	825.7	782.3	531.0	206.3	87.4	79.3	78.0	76.7	76.7	76.7	76.7
27.5°	843.5	780.4	467.6	130.2	76.4	73.5	72.2	70.9	69.9	69.6	69.9
30°	859.1	769.0	384.7	91.0	69.0	65.7	64.8	63.1	61.2	60.6	60.6
32.5°	879.5	759.7	297.9	73.2	62.5	58.9	56.0	53.4	50.2	48.9	48.6
35°	902.1	742.5	218.2	64.4	56.7	52.1	47.6	43.4	39.2	37.9	37.6
37.5°	930.3	727.0	148.0	59.6	51.8	46.3	40.2	34.3	30.4	29.8	29.8
40°	968.5	714.0	102.3	55.4	47.3	40.8	33.4	27.2	24.6	24.0	24.0
42.5°	1020.6	703.3	77.4	51.8	43.4	35.3	26.9	22.3	20.4	19.8	19.8
45°	1082.2	686.8	65.4	48.6	39.5	29.8	22.3	18.8	17.8	17.8	17.8
47.5°	1152.8	666.1	59.6	45.3	35.3	24.3	18.8	17.2	16.8	16.8	17.2
50°	1224.0	641.5	55.4	41.4	30.4	20.7	17.2	16.2	16.2	16.5	16.5
52.5°	1272.2	602.9	51.2	37.2	25.6	18.1	16.2	15.9	15.5	15.5	15.5
55°	1319.2	569.3	45.3	32.7	21.4	16.8	15.5	15.2	15.2	14.9	14.9
57.5°	1368.1	542.7	37.9	27.2	18.1	15.9	14.9	14.9	14.2	13.9	13.9
60°	1424.8	519.4	29.1	21.4	15.9	14.9	13.9	13.6	13.0	12.3	12.3
62.5°	1441.3	470.2	22.0	17.2	13.6	13.0	12.6	12.0	10.4	9.1	9.4
65°	1398.2	392.8	17.5	13.6	11.0	11.0	10.0	8.4	6.8	5.8	5.8
67.5°	1279.4	293.4	14.2	10.7	8.7	8.4	7.1	6.2	4.2	3.6	3.6
70°	1054.3	194.0	11.7	8.4	7.1	5.8	4.9	4.5	3.2	2.6	2.6
72.5°	738.9	105.2	9.7	6.8	5.2	3.9	3.2	2.9	2.3	1.9	1.6
75°	390.2	40.5	7.8	5.2	3.2	2.6	1.9	1.9	1.6	1.3	1.3
77.5°	133.7	17.2	5.5	2.9	2.3	1.6	1.3	1.0	1.3	1.0	1.0
80°	31.7	10.0	3.6	1.9	1.3	1.0	1.0	0.6	0.6	0.6	0.6
82.5°	13.9	5.8	2.3	1.3	1.3	1.0	0.6	0.3	0.3	0.3	0.3
85°	9.4	3.6	1.6	1.3	1.0	0.6	0.3	0.3	0.0	0.0	0.0
87.5°	7.4	2.3	1.3	1.3	1.0	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)