

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: P674736

Luminaire Tested: **CCP-SA-1B-827-U-T3R-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674736
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1B-827-U-T3R-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ T3R distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

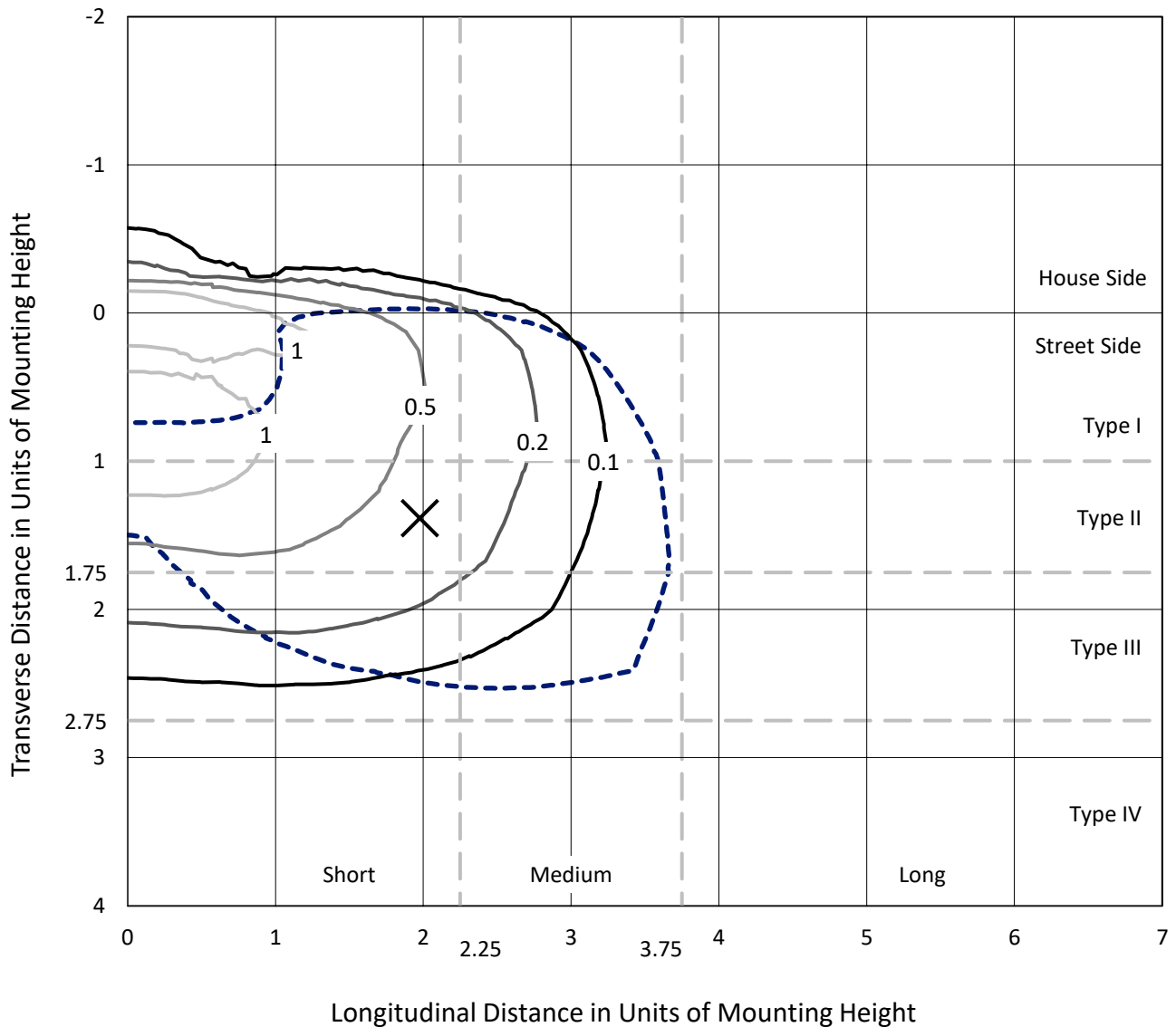
Lumens per Lamp: N/A
Luminaire Lumens: 2013.5 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

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

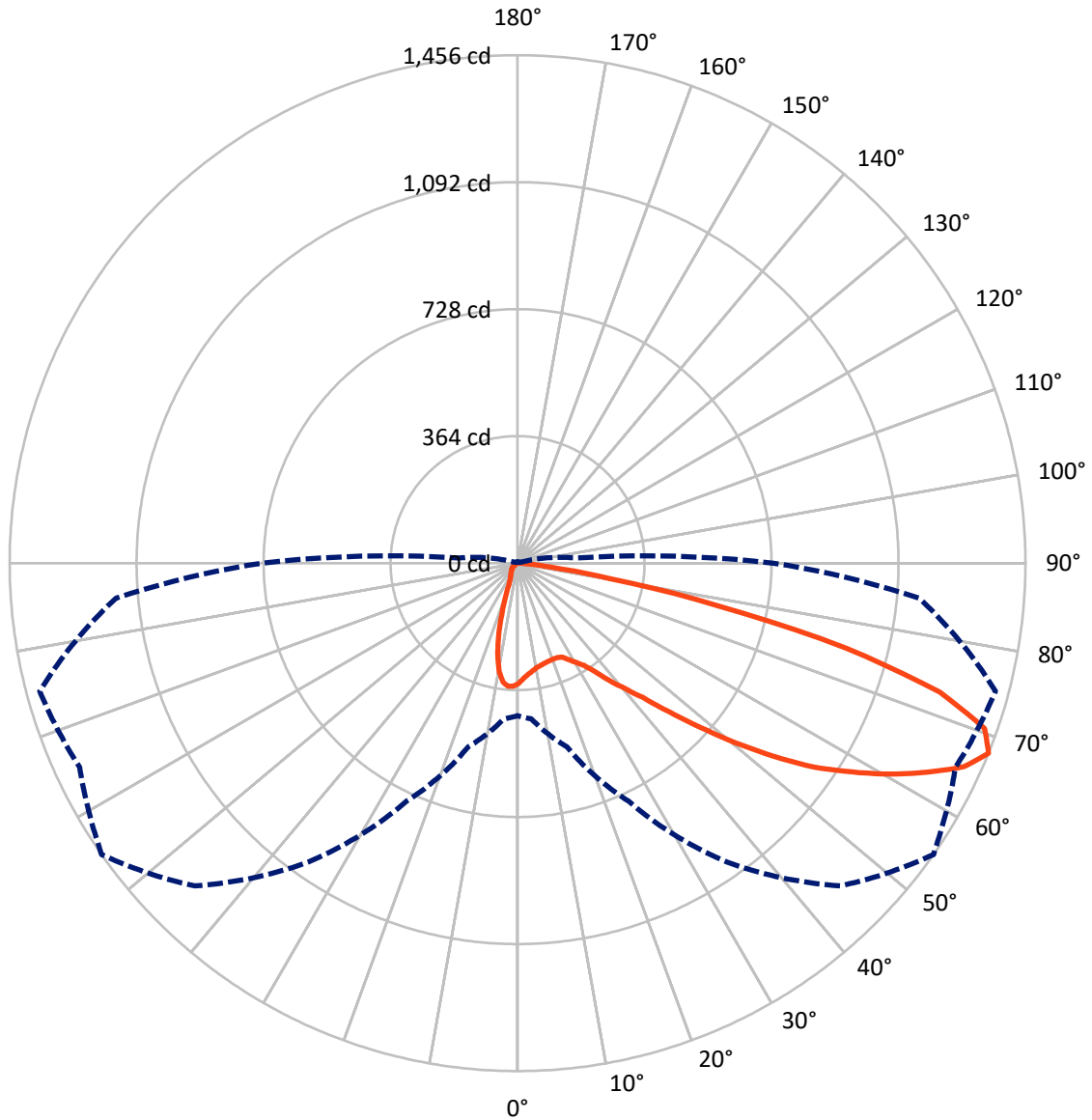
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.7 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
House Side	Lumens	180.9	0.0	180.9
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	1832.6	0.0	1832.6
	% Fixture	91.0	0.0	91.0
Total	Lumens	2013.5	0.0	2013.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.3	1.5
10°-20°	68.9	3.4
20°-30°	110.6	5.5
30°-40°	191.9	9.5
40°-50°	319.9	15.9
50°-60°	467.8	23.2
60°-70°	545.5	27.1
70°-80°	264.7	13.1
80°-90°	13.8	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°	2013.5	100.0
0°-180°	2013.5	100.0



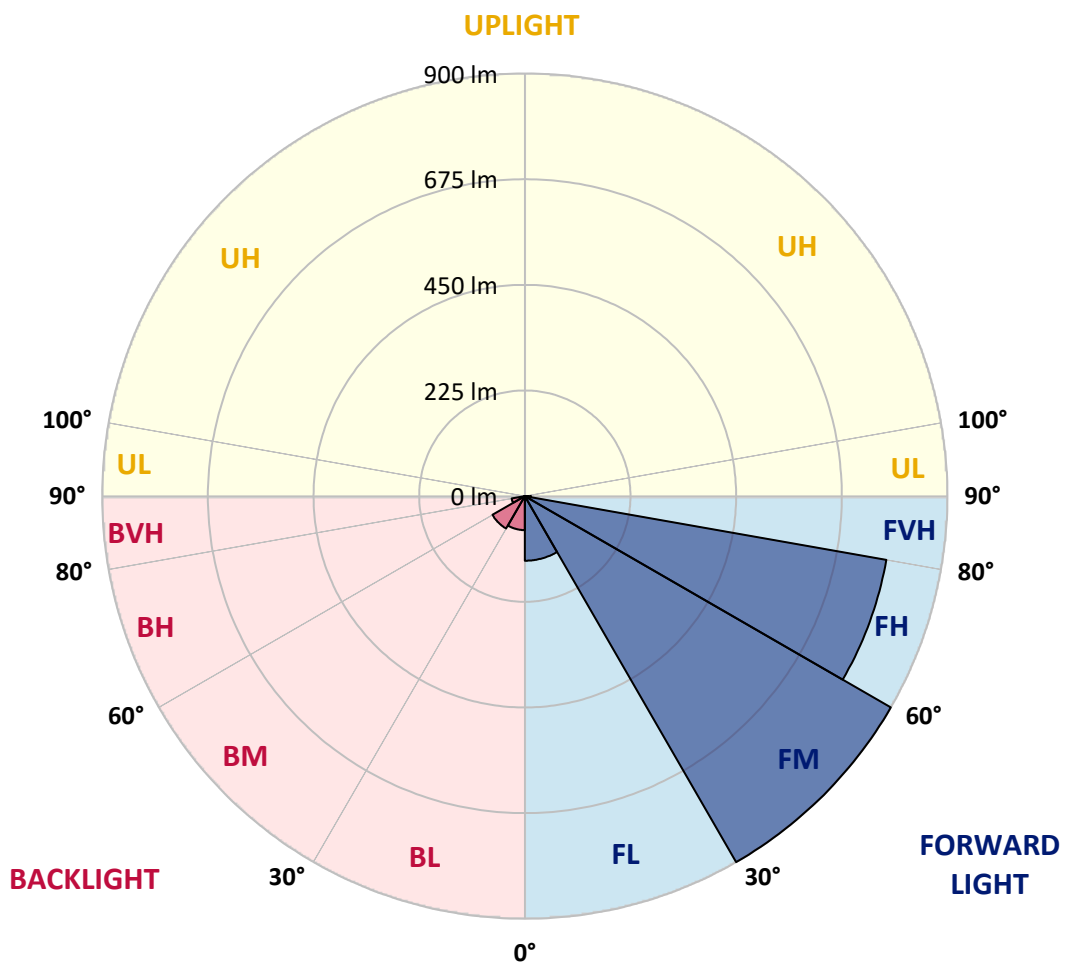
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	137.5	6.8			
FM (30°-60°)	899.9	44.7			
FH (60°-80°)	781.7	38.8			G1/1800
FVH (80°-90°)	13.4	0.7			G1/100
BL (0°-30°)	72.3	3.6	B0/110		
BM (30°-60°)	79.6	4.0	B0/220		
BH (60°-80°)	28.5	1.4	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	345.0	345.0	345.0	345.0	345.0	345.0	345.0	345.0	345.0	345.0	345.0
2.5°	318.5	320.6	323.2	324.1	327.2	331.7	330.4	329.5	334.5	341.3	343.6
5°	298.7	298.9	302.9	305.9	311.3	315.6	320.2	319.8	328.9	340.6	348.0
7.5°	279.2	279.6	283.8	288.5	296.3	304.6	311.7	311.3	325.9	341.5	355.6
10°	253.6	255.4	260.6	268.8	281.0	294.2	304.1	305.0	322.6	345.0	366.0
12.5°	233.0	233.9	239.7	250.3	264.7	282.0	300.3	299.8	323.3	351.5	379.6
15°	224.3	223.7	227.2	235.0	251.6	273.3	296.6	297.9	325.9	359.0	393.7
17.5°	226.3	225.8	227.6	230.4	242.1	266.0	294.6	296.8	330.0	366.8	406.8
20°	249.0	245.1	241.7	238.8	240.4	260.1	293.3	295.7	332.4	372.7	420.7
22.5°	292.5	287.7	278.8	262.3	251.4	260.5	293.7	296.8	337.8	382.3	437.6
25°	363.6	359.0	339.9	306.1	277.2	273.8	298.7	302.0	350.2	397.0	455.6
27.5°	457.7	447.3	424.1	375.7	319.8	295.1	313.7	317.4	367.9	408.3	467.9
30°	535.8	533.3	511.1	451.7	378.6	326.5	330.6	332.6	375.8	415.2	480.1
32.5°	616.8	611.8	591.4	533.7	446.9	371.2	349.5	350.4	386.2	425.4	497.9
35°	687.3	682.7	665.6	609.6	526.7	431.3	380.9	378.8	407.8	447.8	522.0
37.5°	752.6	752.1	737.0	679.9	598.3	493.6	427.0	425.4	441.3	472.5	554.7
40°	816.4	814.9	802.1	750.0	668.8	555.8	471.0	466.7	469.9	507.0	597.7
42.5°	855.6	858.7	863.2	830.2	752.4	628.7	526.7	524.1	523.5	561.0	654.3
45°	876.7	882.3	908.4	905.5	841.1	719.4	605.9	599.2	597.0	635.2	719.0
47.5°	897.3	899.7	942.6	960.6	926.1	814.0	701.6	692.3	683.2	725.7	796.4
50°	898.6	902.5	955.6	999.3	997.3	907.1	809.0	800.8	790.5	835.9	871.9
52.5°	880.4	888.2	953.9	1023.8	1041.5	989.3	920.5	913.8	905.3	939.2	935.5
55°	754.8	768.0	921.2	1026.1	1072.4	1059.8	1032.5	1023.3	1014.9	1039.0	997.9
57.5°	695.1	702.5	822.2	1024.4	1111.9	1125.1	1129.8	1125.5	1113.8	1143.9	1063.0
60°	659.3	670.1	774.9	1005.8	1154.6	1199.0	1228.1	1219.5	1205.3	1246.6	1132.7
62.5°	616.5	624.2	727.8	952.4	1180.0	1274.1	1320.3	1312.5	1283.0	1341.4	1189.1
65°	537.4	549.1	652.8	868.4	1145.9	1329.2	1407.1	1404.5	1353.3	1413.0	1204.5
67.5°	437.4	448.0	544.7	753.2	1046.1	1308.6	1456.3	1448.1	1385.2	1418.4	1155.7
70°	328.4	334.1	407.0	575.5	857.1	1198.6	1420.6	1419.0	1336.8	1338.6	1006.0
72.5°	176.2	192.2	270.7	385.1	602.7	970.8	1266.1	1259.4	1192.6	1096.4	723.5
75°	61.6	66.2	144.1	216.3	327.4	646.7	973.6	958.0	891.9	713.1	394.2
77.5°	37.8	41.6	64.0	110.6	127.4	280.7	584.9	564.7	522.0	308.3	134.7
80°	26.2	29.5	42.9	57.9	43.4	90.9	269.2	261.6	201.3	73.5	31.0
82.5°	14.7	17.6	32.5	28.4	17.4	23.6	93.3	86.4	53.6	19.8	10.4
85°	8.5	10.2	22.8	20.0	8.9	8.3	24.3	21.7	13.9	7.4	5.0
87.5°	4.5	5.8	16.7	13.4	5.4	3.0	5.6	5.4	3.5	2.6	3.3
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°	345.0	345.0	345.0	345.0	345.0	345.0	345.0	345.0	345.0	345.0	345.0
2.5°	347.6	346.7	351.5	353.2	352.8	352.1	354.0	351.5	351.4	350.8	350.2
5°	354.0	355.4	359.3	359.3	354.1	345.6	340.4	333.4	327.4	323.9	323.3
7.5°	363.4	366.4	369.0	361.0	343.2	322.0	299.6	282.0	266.6	258.6	257.9
10°	376.8	379.6	377.5	354.7	316.5	272.7	236.2	199.4	181.1	171.0	171.0
12.5°	392.7	395.0	382.5	338.9	272.5	209.1	160.3	121.7	103.3	91.5	90.7
15°	410.0	410.5	381.8	311.5	218.2	140.4	92.0	67.5	59.7	58.1	57.7
17.5°	425.0	422.8	374.0	270.8	157.1	83.7	58.4	52.9	51.4	51.4	51.4
20°	439.1	431.7	358.4	223.5	100.7	57.0	50.3	48.8	48.8	49.0	49.0
22.5°	454.7	440.0	336.1	171.0	64.7	48.8	47.1	46.4	46.2	46.7	46.6
25°	473.1	448.2	304.2	118.2	50.1	45.4	44.7	44.0	44.0	44.0	44.0
27.5°	483.3	447.1	267.9	74.6	43.8	42.1	41.4	40.6	40.1	39.9	40.1
30°	492.2	440.6	220.4	52.1	39.5	37.7	37.1	36.2	35.1	34.7	34.7
32.5°	503.8	435.2	170.7	41.9	35.8	33.8	32.1	30.6	28.8	28.0	27.8
35°	516.8	425.4	125.0	36.9	32.5	29.9	27.3	24.9	22.4	21.7	21.5
37.5°	533.0	416.5	84.8	34.1	29.7	26.5	23.0	19.7	17.4	17.1	17.1
40°	554.9	409.0	58.6	31.7	27.1	23.4	19.1	15.6	14.1	13.7	13.7
42.5°	584.7	402.9	44.3	29.7	24.9	20.2	15.4	12.8	11.7	11.3	11.3
45°	620.0	393.5	37.5	27.8	22.6	17.1	12.8	10.8	10.2	10.2	10.2
47.5°	660.4	381.6	34.1	26.0	20.2	13.9	10.8	9.8	9.6	9.6	9.8
50°	701.2	367.5	31.7	23.7	17.4	11.9	9.8	9.3	9.3	9.5	9.5
52.5°	728.9	345.4	29.3	21.3	14.7	10.4	9.3	9.1	8.9	8.9	8.9
55°	755.8	326.1	26.0	18.7	12.2	9.6	8.9	8.7	8.7	8.5	8.5
57.5°	783.8	310.9	21.7	15.6	10.4	9.1	8.5	8.5	8.2	8.0	8.0
60°	816.2	297.6	16.7	12.2	9.1	8.5	8.0	7.8	7.4	7.0	7.0
62.5°	825.7	269.4	12.6	9.8	7.8	7.4	7.2	6.9	5.9	5.2	5.4
65°	801.0	225.0	10.0	7.8	6.3	6.3	5.8	4.8	3.9	3.3	3.3
67.5°	733.0	168.1	8.2	6.1	5.0	4.8	4.1	3.5	2.4	2.0	2.0
70°	604.0	111.1	6.7	4.8	4.1	3.3	2.8	2.6	1.9	1.5	1.5
72.5°	423.3	60.3	5.6	3.9	3.0	2.2	1.9	1.7	1.3	1.1	0.9
75°	223.5	23.2	4.5	3.0	1.9	1.5	1.1	1.1	0.9	0.7	0.7
77.5°	76.6	9.8	3.2	1.7	1.3	0.9	0.7	0.6	0.7	0.6	0.6
80°	18.2	5.8	2.0	1.1	0.7	0.6	0.6	0.4	0.4	0.4	0.4
82.5°	8.0	3.3	1.3	0.7	0.7	0.6	0.4	0.2	0.2	0.2	0.2
85°	5.4	2.0	0.9	0.7	0.6	0.4	0.2	0.2	0.0	0.0	0.0
87.5°	4.3	1.3	0.7	0.7	0.6	0.4	0.2	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)