

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: P674780

Luminaire Tested: **CCP-SA-1B-850-U-T3R-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674780  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1B-850-U-T3R-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ T3R distribution lens and House Side Shield  
Light Source: (16) 5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

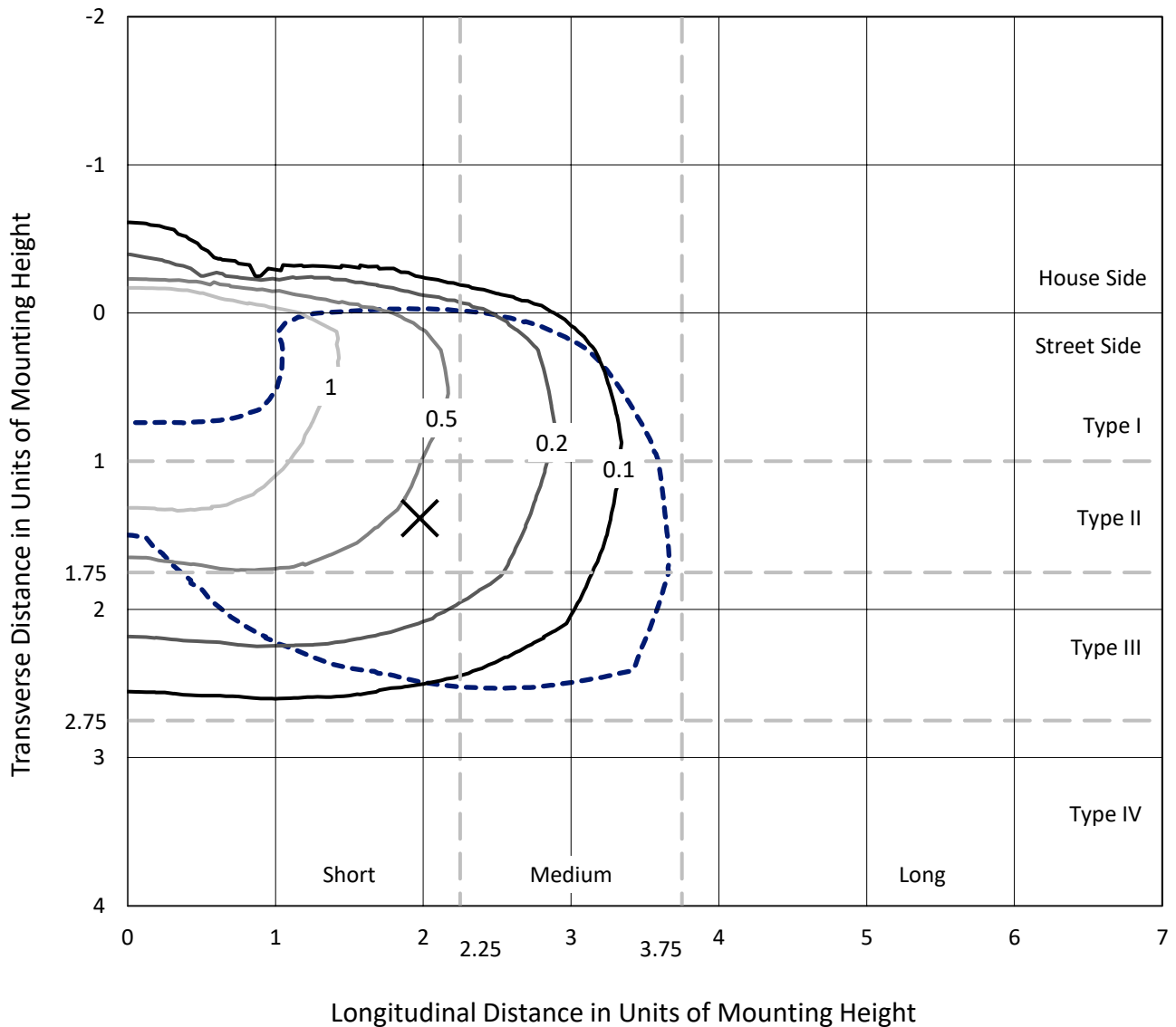
Lumens per Lamp: N/A  
Luminaire Lumens: 2390.1 lumens  
Efficiency: N/A  
Efficacy: 99.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G1

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

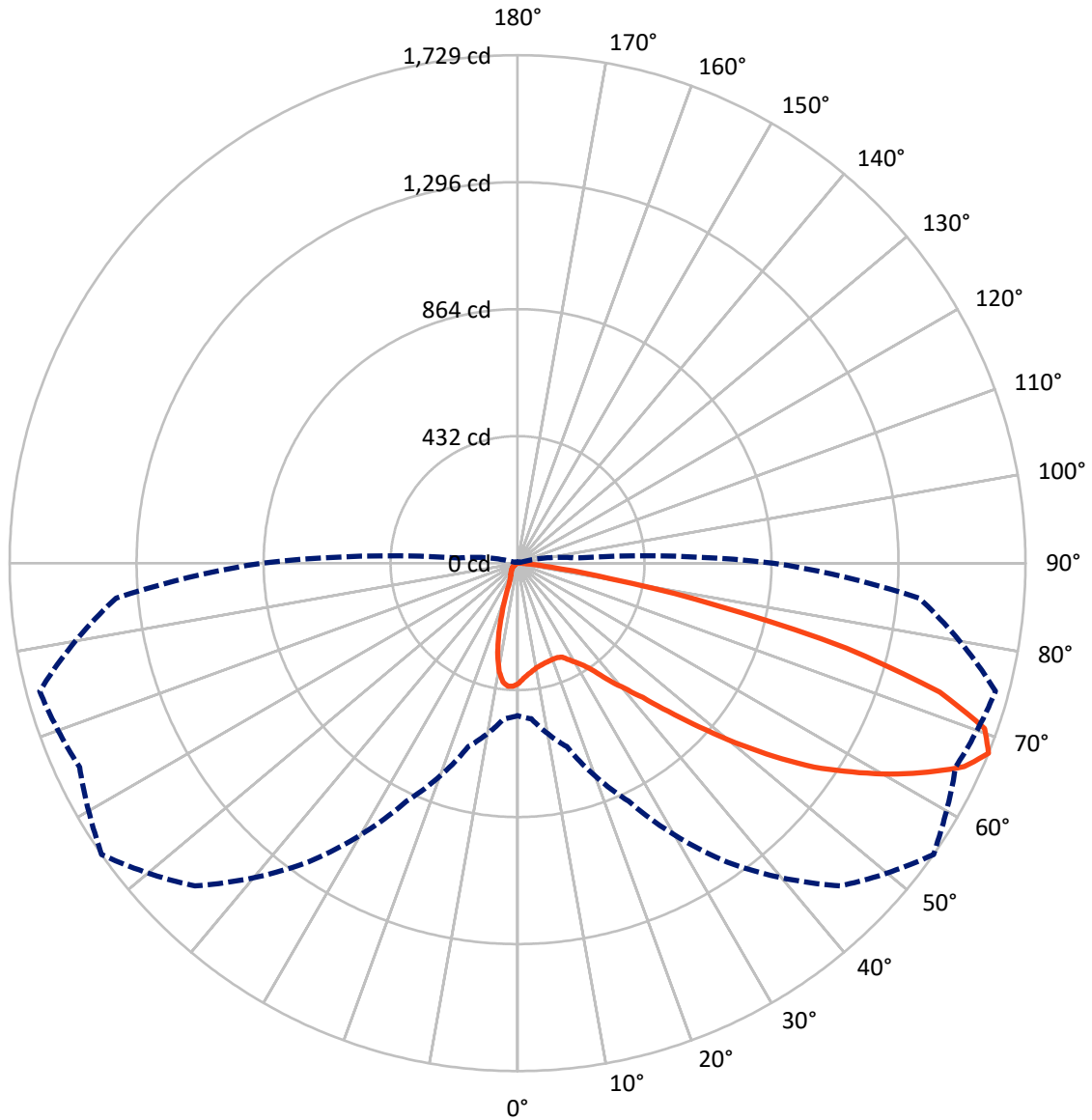
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2 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	214.7	0.0	214.7
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	2175.4	0.0	2175.4
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	2390.1	0.0	2390.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.9	1.5
10°-20°	81.8	3.4
20°-30°	131.3	5.5
30°-40°	227.7	9.5
40°-50°	379.7	15.9
50°-60°	555.3	23.2
60°-70°	647.5	27.1
70°-80°	314.2	13.1
80°-90°	16.4	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°	2390.1	100.0
0°-180°	2390.1	100.0



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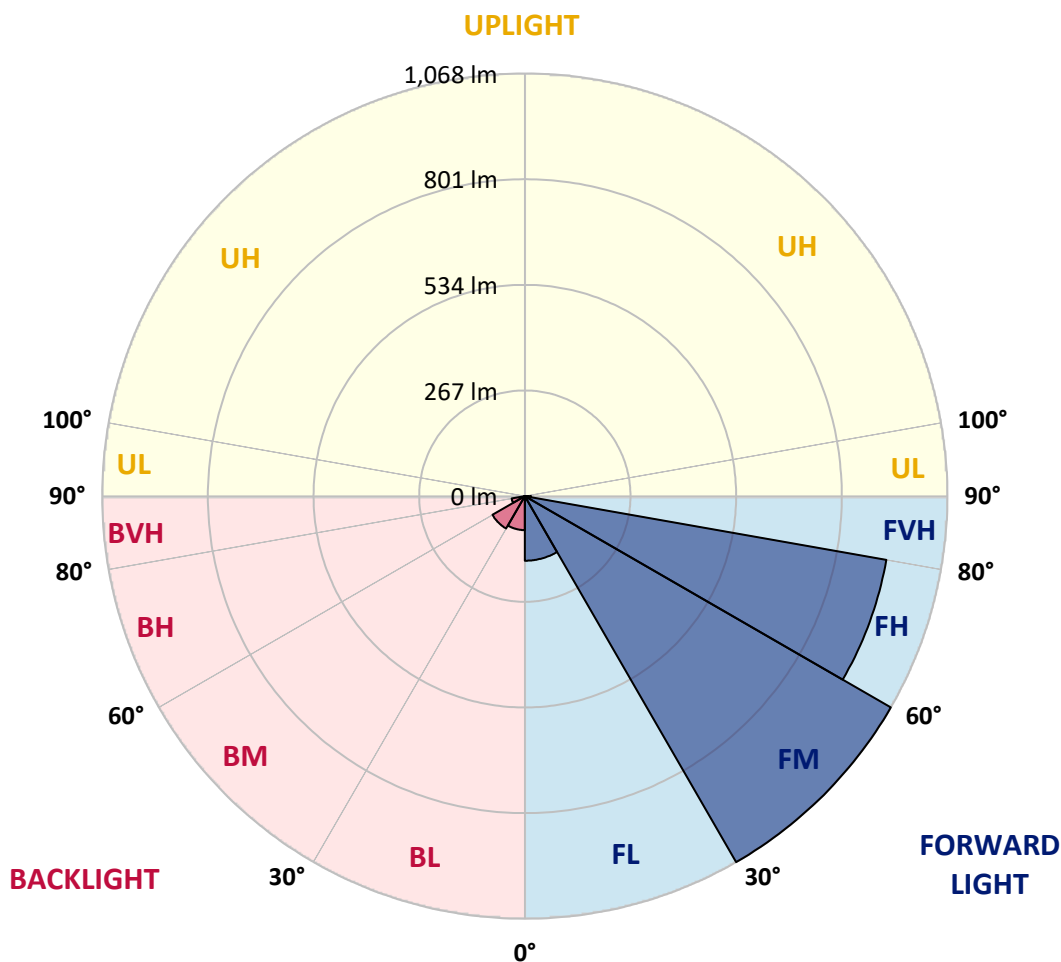
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	163.3	6.8			
FM (30°-60°)	1068.3	44.7			
FH (60°-80°)	927.9	38.8			G1/1800
FVH (80°-90°)	16.0	0.7			G1/100
BL (0°-30°)	85.8	3.6	B0/110		
BM (30°-60°)	94.5	4.0	B0/220		
BH (60°-80°)	33.9	1.4	B0/110		G0/110
BVH (80°-90°)	0.5	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°	409.6	409.6	409.6	409.6	409.6	409.6	409.6	409.6	409.6	409.6	409.6
2.5°	378.1	380.5	383.6	384.7	388.4	393.7	392.2	391.1	397.0	405.2	407.8
5°	354.5	354.8	359.6	363.1	369.5	374.6	380.1	379.6	390.4	404.3	413.1
7.5°	331.4	331.9	336.9	342.4	351.7	361.6	370.0	369.5	386.9	405.4	422.1
10°	301.0	303.2	309.4	319.1	333.6	349.3	360.9	362.0	382.9	409.6	434.5
12.5°	276.6	277.7	284.5	297.1	314.2	334.7	356.5	355.9	383.8	417.3	450.5
15°	266.2	265.6	269.8	279.0	298.6	324.4	352.1	353.7	386.9	426.1	467.3
17.5°	268.7	268.0	270.2	273.5	287.4	315.8	349.7	352.3	391.8	435.4	482.9
20°	295.5	290.9	286.9	283.4	285.4	308.7	348.2	351.0	394.6	442.4	499.4
22.5°	347.3	341.5	331.0	311.4	298.4	309.2	348.6	352.3	401.0	453.9	519.5
25°	431.6	426.1	403.4	363.3	329.0	325.0	354.5	358.5	415.8	471.2	540.8
27.5°	543.3	530.9	503.4	445.9	379.6	350.4	372.4	376.8	436.7	484.7	555.4
30°	636.0	633.1	606.7	536.2	449.4	387.6	392.4	394.8	446.1	492.8	569.9
32.5°	732.2	726.3	702.0	633.5	530.5	440.6	414.9	416.0	458.5	504.9	591.0
35°	815.9	810.4	790.1	723.6	625.2	512.0	452.1	449.7	484.0	531.6	619.7
37.5°	893.4	892.7	874.9	807.1	710.2	586.0	506.9	504.9	523.9	560.9	658.4
40°	969.1	967.4	952.2	890.3	793.9	659.7	559.1	554.0	557.8	601.8	709.5
42.5°	1015.6	1019.4	1024.6	985.4	893.2	746.3	625.2	622.1	621.4	665.9	776.7
45°	1040.7	1047.3	1078.4	1074.8	998.4	854.0	719.2	711.3	708.6	754.0	853.5
47.5°	1065.2	1068.0	1118.9	1140.2	1099.3	966.3	832.8	821.8	811.0	861.5	945.4
50°	1066.7	1071.3	1134.3	1186.3	1183.8	1076.8	960.3	950.6	938.3	992.3	1035.0
52.5°	1045.1	1054.4	1132.3	1215.3	1236.3	1174.4	1092.7	1084.8	1074.6	1114.9	1110.5
55°	896.0	911.7	1093.6	1218.0	1273.0	1258.1	1225.7	1214.7	1204.8	1233.4	1184.5
57.5°	825.1	833.9	976.0	1216.0	1319.9	1335.6	1341.1	1336.0	1322.1	1357.8	1261.8
60°	782.6	795.4	919.8	1194.0	1370.6	1423.2	1457.8	1447.7	1430.7	1479.8	1344.6
62.5°	731.8	741.0	863.9	1130.6	1400.8	1512.4	1567.2	1558.0	1523.0	1592.3	1411.5
65°	637.9	651.8	774.9	1030.8	1360.2	1577.8	1670.3	1667.2	1606.4	1677.3	1429.8
67.5°	519.3	531.8	646.5	894.1	1241.8	1553.4	1728.6	1719.0	1644.3	1683.7	1371.9
70°	389.8	396.6	483.1	683.1	1017.4	1422.8	1686.4	1684.4	1586.8	1589.0	1194.2
72.5°	209.2	228.1	321.3	457.2	715.5	1152.4	1502.9	1495.0	1415.7	1301.4	858.8
75°	73.1	78.6	171.1	256.8	388.7	767.7	1155.7	1137.2	1058.8	846.5	467.9
77.5°	44.9	49.3	76.0	131.2	151.3	333.2	694.3	670.3	619.7	366.0	159.9
80°	31.0	35.0	50.9	68.7	51.5	107.9	319.5	310.5	238.9	87.2	36.8
82.5°	17.4	20.9	38.5	33.7	20.7	28.0	110.8	102.6	63.6	23.6	12.3
85°	10.1	12.1	27.1	23.8	10.6	9.9	28.8	25.8	16.5	8.8	5.9
87.5°	5.3	6.8	19.8	15.9	6.4	3.5	6.6	6.4	4.2	3.1	4.0
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°	409.6	409.6	409.6	409.6	409.6	409.6	409.6	409.6	409.6	409.6	409.6
2.5°	412.7	411.6	417.3	419.3	418.8	418.0	420.2	417.3	417.1	416.4	415.8
5°	420.2	421.9	426.5	426.5	420.4	410.3	404.1	395.7	388.7	384.5	383.8
7.5°	431.4	434.9	438.0	428.5	407.4	382.3	355.6	334.7	316.4	307.0	306.1
10°	447.2	450.5	448.1	421.0	375.7	323.7	280.3	236.7	214.9	203.0	203.0
12.5°	466.2	468.8	454.1	402.3	323.5	248.2	190.3	144.5	122.7	108.6	107.7
15°	486.7	487.3	453.2	369.7	259.0	166.7	109.2	80.2	70.9	68.9	68.5
17.5°	504.5	501.9	443.9	321.5	186.5	99.3	69.4	62.8	61.0	61.0	61.0
20°	521.2	512.4	425.4	265.4	119.6	67.6	59.7	57.9	57.9	58.1	58.1
22.5°	539.7	522.3	399.0	203.0	76.9	57.9	55.9	55.1	54.8	55.5	55.3
25°	561.5	532.0	361.1	140.3	59.5	54.0	53.1	52.2	52.2	52.2	52.2
27.5°	573.6	530.7	318.0	88.5	52.0	50.0	49.1	48.2	47.6	47.3	47.6
30°	584.2	523.0	261.6	61.9	46.9	44.7	44.0	42.9	41.6	41.2	41.2
32.5°	598.1	516.6	202.6	49.8	42.5	40.1	38.1	36.3	34.1	33.3	33.0
35°	613.5	504.9	148.4	43.8	38.5	35.5	32.4	29.5	26.6	25.8	25.5
37.5°	632.7	494.4	100.6	40.5	35.2	31.5	27.3	23.3	20.7	20.3	20.3
40°	658.6	485.6	69.6	37.7	32.2	27.7	22.7	18.5	16.7	16.3	16.3
42.5°	694.1	478.3	52.6	35.2	29.5	24.0	18.3	15.2	13.9	13.4	13.4
45°	735.9	467.1	44.5	33.0	26.9	20.3	15.2	12.8	12.1	12.1	12.1
47.5°	783.9	453.0	40.5	30.8	24.0	16.5	12.8	11.7	11.5	11.5	11.7
50°	832.4	436.2	37.7	28.2	20.7	14.1	11.7	11.0	11.0	11.2	11.2
52.5°	865.2	410.0	34.8	25.3	17.4	12.3	11.0	10.8	10.6	10.6	10.6
55°	897.1	387.1	30.8	22.2	14.5	11.5	10.6	10.3	10.3	10.1	10.1
57.5°	930.4	369.1	25.8	18.5	12.3	10.8	10.1	10.1	9.7	9.5	9.5
60°	968.9	353.2	19.8	14.5	10.8	10.1	9.5	9.2	8.8	8.4	8.4
62.5°	980.2	319.7	15.0	11.7	9.2	8.8	8.6	8.1	7.0	6.2	6.4
65°	950.9	267.1	11.9	9.2	7.5	7.5	6.8	5.7	4.6	4.0	4.0
67.5°	870.0	199.5	9.7	7.3	5.9	5.7	4.8	4.2	2.9	2.4	2.4
70°	717.0	131.9	7.9	5.7	4.8	4.0	3.3	3.1	2.2	1.8	1.8
72.5°	502.5	71.6	6.6	4.6	3.5	2.6	2.2	2.0	1.5	1.3	1.1
75°	265.4	27.5	5.3	3.5	2.2	1.8	1.3	1.3	1.1	0.9	0.9
77.5°	90.9	11.7	3.7	2.0	1.5	1.1	0.9	0.7	0.9	0.7	0.7
80°	21.6	6.8	2.4	1.3	0.9	0.7	0.7	0.4	0.4	0.4	0.4
82.5°	9.5	4.0	1.5	0.9	0.9	0.7	0.4	0.2	0.2	0.2	0.2
85°	6.4	2.4	1.1	0.9	0.7	0.4	0.2	0.2	0.0	0.0	0.0
87.5°	5.1	1.5	0.9	0.9	0.7	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)