

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: P674769

Luminaire Tested: **CCP-SA-1B-840-U-T3R-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674769
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1B-840-U-T3R-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ T3R distribution lens and House Side Shield
Light Source: (16) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

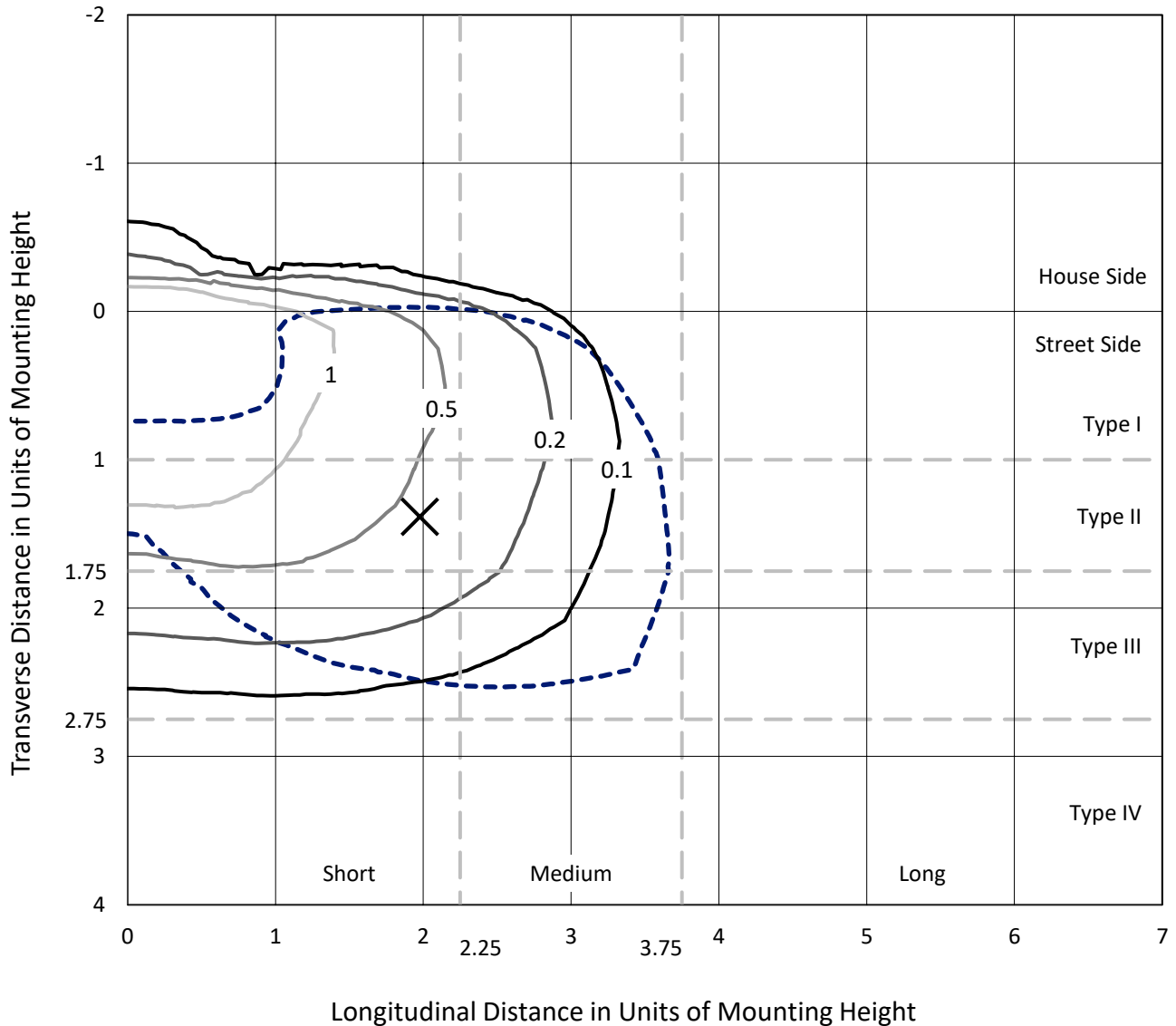
Lumens per Lamp: N/A
Luminaire Lumens: 2335.3 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

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

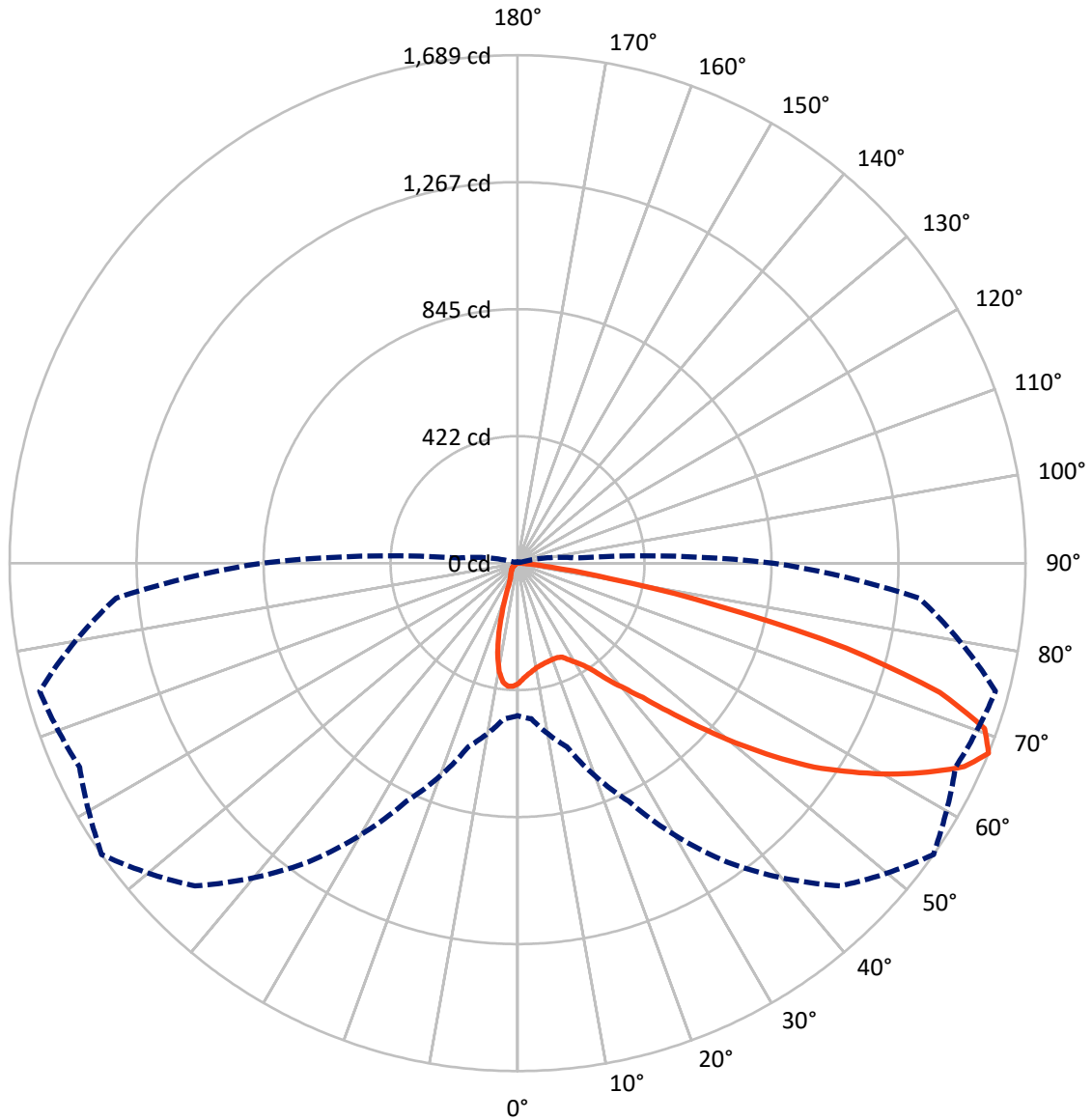
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.9 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
House Side	Lumens	209.8	0.0	209.8
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	2125.5	0.0	2125.5
	% Fixture	91.0	0.0	91.0
Total	Lumens	2335.3	0.0	2335.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.1	1.5
10°-20°	80.0	3.4
20°-30°	128.3	5.5
30°-40°	222.5	9.5
40°-50°	371.0	15.9
50°-60°	542.6	23.2
60°-70°	632.7	27.1
70°-80°	307.0	13.1
80°-90°	16.0	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°	2335.3	100.0
0°-180°	2335.3	100.0



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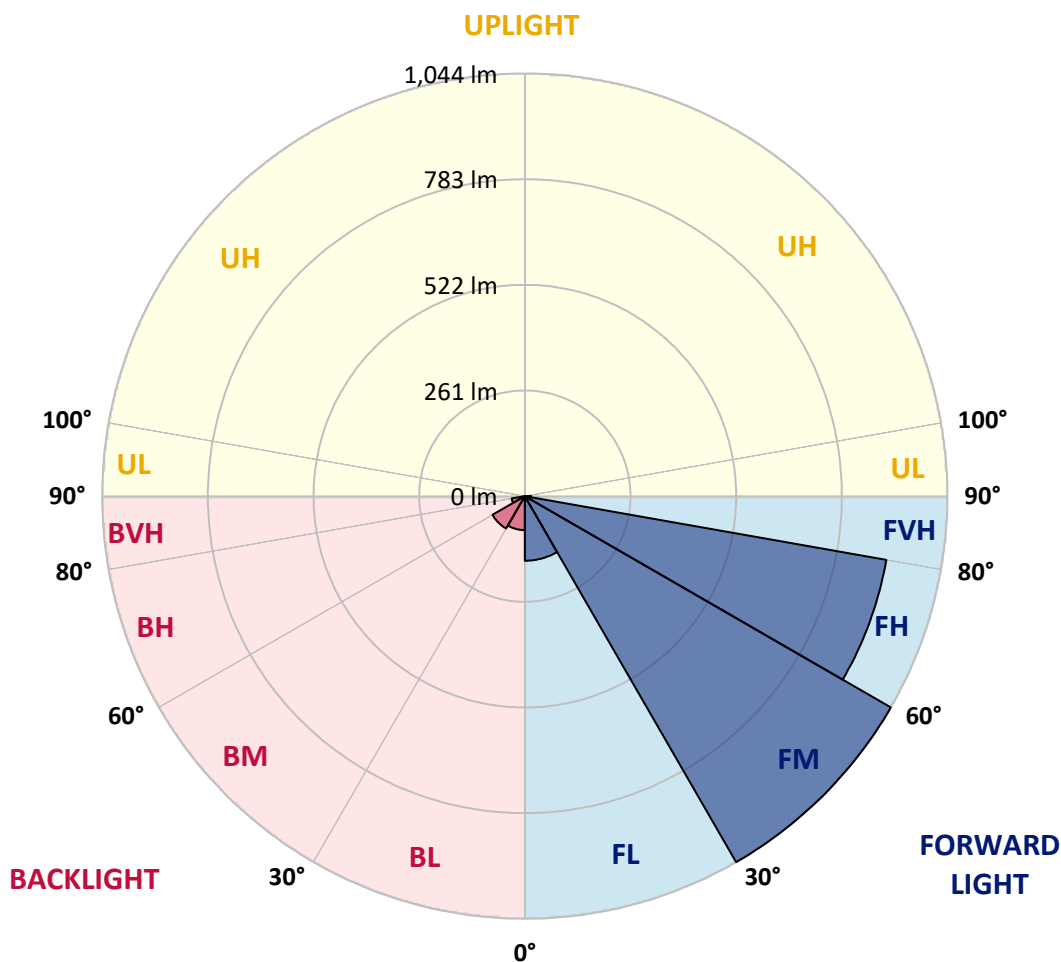
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	159.5	6.8			
FM (30°-60°)	1043.8	44.7			
FH (60°-80°)	906.6	38.8			G1/1800
FVH (80°-90°)	15.6	0.7			G1/100
BL (0°-30°)	83.9	3.6	B0/110		
BM (30°-60°)	92.4	4.0	B0/220		
BH (60°-80°)	33.1	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°	400.2	400.2	400.2	400.2	400.2	400.2	400.2	400.2	400.2	400.2	400.2
2.5°	369.4	371.8	374.8	375.9	379.5	384.7	383.2	382.1	387.9	395.9	398.5
5°	346.4	346.6	351.4	354.8	361.0	366.0	371.4	370.9	381.5	395.0	403.6
7.5°	323.8	324.2	329.2	334.6	343.6	353.3	361.5	361.0	378.0	396.1	412.5
10°	294.1	296.3	302.3	311.8	326.0	341.2	352.7	353.7	374.2	400.2	424.5
12.5°	270.2	271.3	278.0	290.3	307.0	327.0	348.3	347.7	375.0	407.7	440.2
15°	260.1	259.5	263.6	272.6	291.8	316.9	344.0	345.6	378.0	416.3	456.6
17.5°	262.5	261.9	264.0	267.2	280.8	308.5	341.7	344.3	382.8	425.4	471.9
20°	288.7	284.2	280.4	276.9	278.9	301.7	340.2	343.0	385.6	432.3	488.0
22.5°	339.3	333.7	323.4	304.2	291.5	302.1	340.6	344.3	391.8	443.4	507.6
25°	421.7	416.3	394.2	355.0	321.5	317.6	346.4	350.3	406.2	460.4	528.4
27.5°	530.8	518.8	491.9	435.7	370.9	342.3	363.8	368.1	426.7	473.6	542.6
30°	621.4	618.6	592.8	523.9	439.1	378.7	383.4	385.8	435.9	481.5	556.8
32.5°	715.4	709.6	685.9	619.0	518.3	430.5	405.4	406.4	448.0	493.4	577.5
35°	797.2	791.8	772.0	707.0	610.8	500.3	441.7	439.4	472.9	519.4	605.5
37.5°	872.9	872.3	854.8	788.6	693.9	572.5	495.3	493.4	511.9	548.0	643.3
40°	946.9	945.2	930.4	869.9	775.7	644.6	546.3	541.3	545.0	588.0	693.3
42.5°	992.3	996.0	1001.2	962.9	872.7	729.2	610.8	607.8	607.2	650.7	758.9
45°	1016.9	1023.3	1053.7	1050.2	975.5	834.4	702.7	695.0	692.4	736.7	834.0
47.5°	1040.7	1043.5	1093.2	1114.1	1074.1	944.1	813.7	803.0	792.4	841.7	923.7
50°	1042.2	1046.8	1108.3	1159.1	1156.7	1052.1	938.3	928.9	916.8	969.5	1011.3
52.5°	1021.2	1030.2	1106.4	1187.5	1207.9	1147.5	1067.6	1059.9	1050.0	1089.4	1085.1
55°	875.5	890.8	1068.5	1190.1	1243.9	1229.2	1197.6	1186.8	1177.2	1205.1	1157.4
57.5°	806.2	814.8	953.6	1188.1	1289.7	1305.0	1310.3	1305.4	1291.8	1326.7	1232.9
60°	764.7	777.2	898.7	1166.6	1339.2	1390.6	1424.4	1414.5	1397.9	1445.9	1313.8
62.5°	715.0	724.0	844.1	1104.6	1368.6	1477.7	1531.3	1522.3	1488.1	1555.8	1379.2
65°	623.3	636.9	757.2	1007.2	1329.1	1541.6	1632.0	1629.0	1569.6	1638.9	1397.0
67.5°	507.4	519.6	631.7	873.6	1213.3	1517.8	1689.0	1679.6	1606.6	1645.1	1340.5
70°	380.8	387.5	472.1	667.4	994.1	1390.2	1647.7	1645.8	1550.5	1552.6	1166.8
72.5°	204.4	222.9	313.9	446.7	699.1	1125.9	1468.5	1460.7	1383.3	1271.6	839.1
75°	71.4	76.8	167.2	250.9	379.8	750.1	1129.2	1111.1	1034.5	827.1	457.2
77.5°	43.9	48.2	74.2	128.2	147.8	325.5	678.4	655.0	605.5	357.6	156.2
80°	30.3	34.2	49.7	67.1	50.3	105.4	312.2	303.4	233.5	85.2	35.9
82.5°	17.0	20.4	37.7	32.9	20.2	27.3	108.2	100.3	62.2	23.0	12.0
85°	9.9	11.8	26.5	23.2	10.3	9.7	28.2	25.2	16.1	8.6	5.8
87.5°	5.2	6.7	19.4	15.5	6.2	3.4	6.5	6.2	4.1	3.0	3.9
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°	400.2	400.2	400.2	400.2	400.2	400.2	400.2	400.2	400.2	400.2	400.2
2.5°	403.2	402.1	407.7	409.7	409.2	408.4	410.5	407.7	407.5	406.9	406.2
5°	410.5	412.3	416.8	416.8	410.7	400.8	394.8	386.6	379.8	375.7	375.0
7.5°	421.5	424.9	428.0	418.7	398.1	373.5	347.5	327.0	309.2	299.9	299.1
10°	437.0	440.2	437.9	411.4	367.1	316.3	273.9	231.3	210.0	198.4	198.4
12.5°	455.5	458.1	443.7	393.1	316.1	242.5	185.9	141.1	119.8	106.1	105.2
15°	475.5	476.2	442.8	361.3	253.0	162.9	106.7	78.3	69.3	67.3	66.9
17.5°	492.9	490.4	433.8	314.1	182.2	97.0	67.8	61.3	59.6	59.6	59.6
20°	509.3	500.7	415.7	259.3	116.8	66.1	58.3	56.6	56.6	56.8	56.8
22.5°	527.4	510.4	389.9	198.4	75.1	56.6	54.7	53.8	53.6	54.2	54.0
25°	548.7	519.8	352.9	137.1	58.1	52.7	51.9	51.0	51.0	51.0	51.0
27.5°	560.5	518.5	310.7	86.5	50.8	48.8	48.0	47.1	46.5	46.3	46.5
30°	570.8	511.0	255.6	60.5	45.8	43.7	43.0	42.0	40.7	40.2	40.2
32.5°	584.4	504.8	197.9	48.6	41.5	39.2	37.2	35.5	33.4	32.5	32.3
35°	599.4	493.4	145.0	42.8	37.7	34.6	31.6	28.8	26.0	25.2	25.0
37.5°	618.2	483.0	98.3	39.6	34.4	30.8	26.7	22.8	20.2	19.8	19.8
40°	643.6	474.4	68.0	36.8	31.4	27.1	22.2	18.1	16.4	15.9	15.9
42.5°	678.2	467.3	51.4	34.4	28.8	23.5	17.9	14.8	13.6	13.1	13.1
45°	719.1	456.4	43.5	32.3	26.2	19.8	14.8	12.5	11.8	11.8	11.8
47.5°	766.0	442.6	39.6	30.1	23.5	16.1	12.5	11.4	11.2	11.2	11.4
50°	813.3	426.2	36.8	27.5	20.2	13.8	11.4	10.8	10.8	11.0	11.0
52.5°	845.4	400.6	34.0	24.7	17.0	12.0	10.8	10.5	10.3	10.3	10.3
55°	876.6	378.3	30.1	21.7	14.2	11.2	10.3	10.1	10.1	9.9	9.9
57.5°	909.1	360.6	25.2	18.1	12.0	10.5	9.9	9.9	9.5	9.3	9.3
60°	946.7	345.1	19.4	14.2	10.5	9.9	9.3	9.0	8.6	8.2	8.2
62.5°	957.7	312.4	14.6	11.4	9.0	8.6	8.4	8.0	6.9	6.0	6.2
65°	929.1	261.0	11.6	9.0	7.3	7.3	6.7	5.6	4.5	3.9	3.9
67.5°	850.1	194.9	9.5	7.1	5.8	5.6	4.7	4.1	2.8	2.4	2.4
70°	700.6	128.9	7.7	5.6	4.7	3.9	3.2	3.0	2.2	1.7	1.7
72.5°	491.0	69.9	6.5	4.5	3.4	2.6	2.2	1.9	1.5	1.3	1.1
75°	259.3	26.9	5.2	3.4	2.2	1.7	1.3	1.3	1.1	0.9	0.9
77.5°	88.9	11.4	3.7	1.9	1.5	1.1	0.9	0.6	0.9	0.6	0.6
80°	21.1	6.7	2.4	1.3	0.9	0.6	0.6	0.4	0.4	0.4	0.4
82.5°	9.3	3.9	1.5	0.9	0.9	0.6	0.4	0.2	0.2	0.2	0.2
85°	6.2	2.4	1.1	0.9	0.6	0.4	0.2	0.2	0.0	0.0	0.0
87.5°	4.9	1.5	0.9	0.9	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)