

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: P674458

Luminaire Tested: **CCP-SA-1A-830-U-AFL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674458
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1A-830-U-AFL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @350mA w/ AFL distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

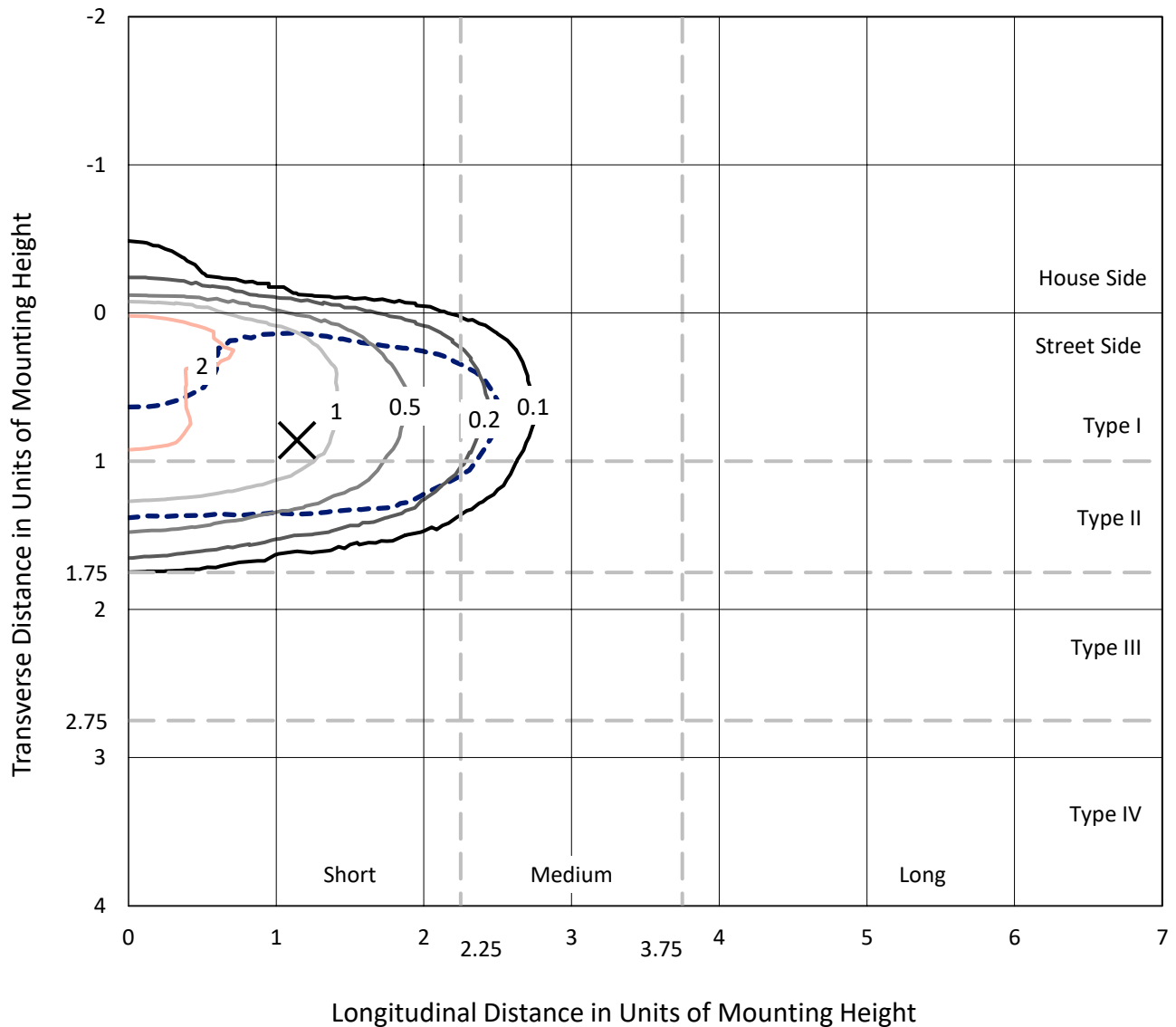
Lumens per Lamp: N/A
Luminaire Lumens: 1802.7 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

Input Watts (W): 18
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

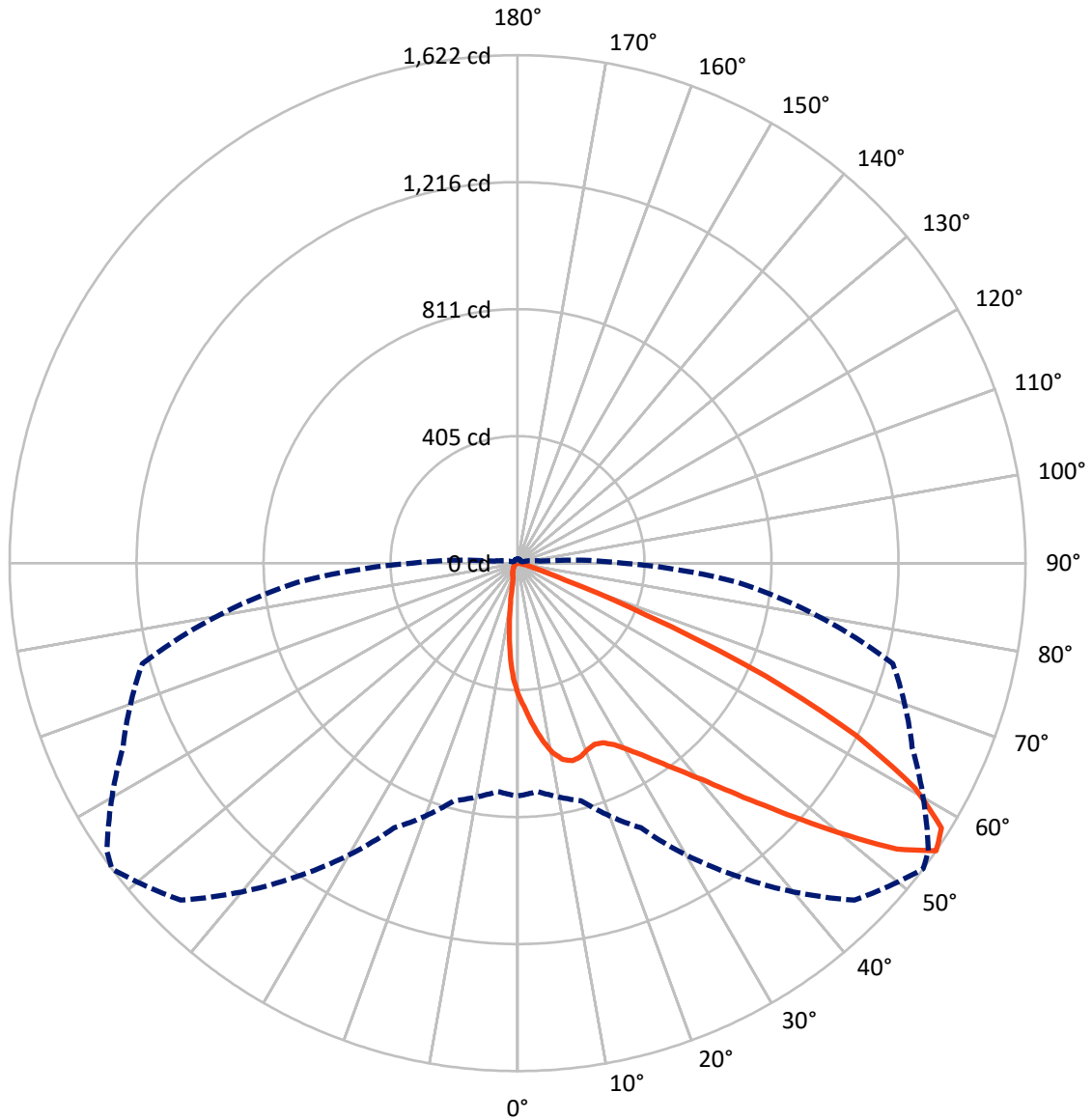
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	97.4	0.0	97.4
	% Fixture	5.4	0.0	5.4
Street Side	Lumens	1705.3	0.0	1705.3
	% Fixture	94.6	0.0	94.6
Total	Lumens	1802.7	0.0	1802.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.7	2.1
10°-20°	98.6	5.5
20°-30°	165.0	9.2
30°-40°	269.9	15.0
40°-50°	433.8	24.1
50°-60°	489.8	27.2
60°-70°	261.3	14.5
70°-80°	42.9	2.4
80°-90°	3.8	0.2
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°	1802.7	100.0
0°-180°	1802.7	100.0



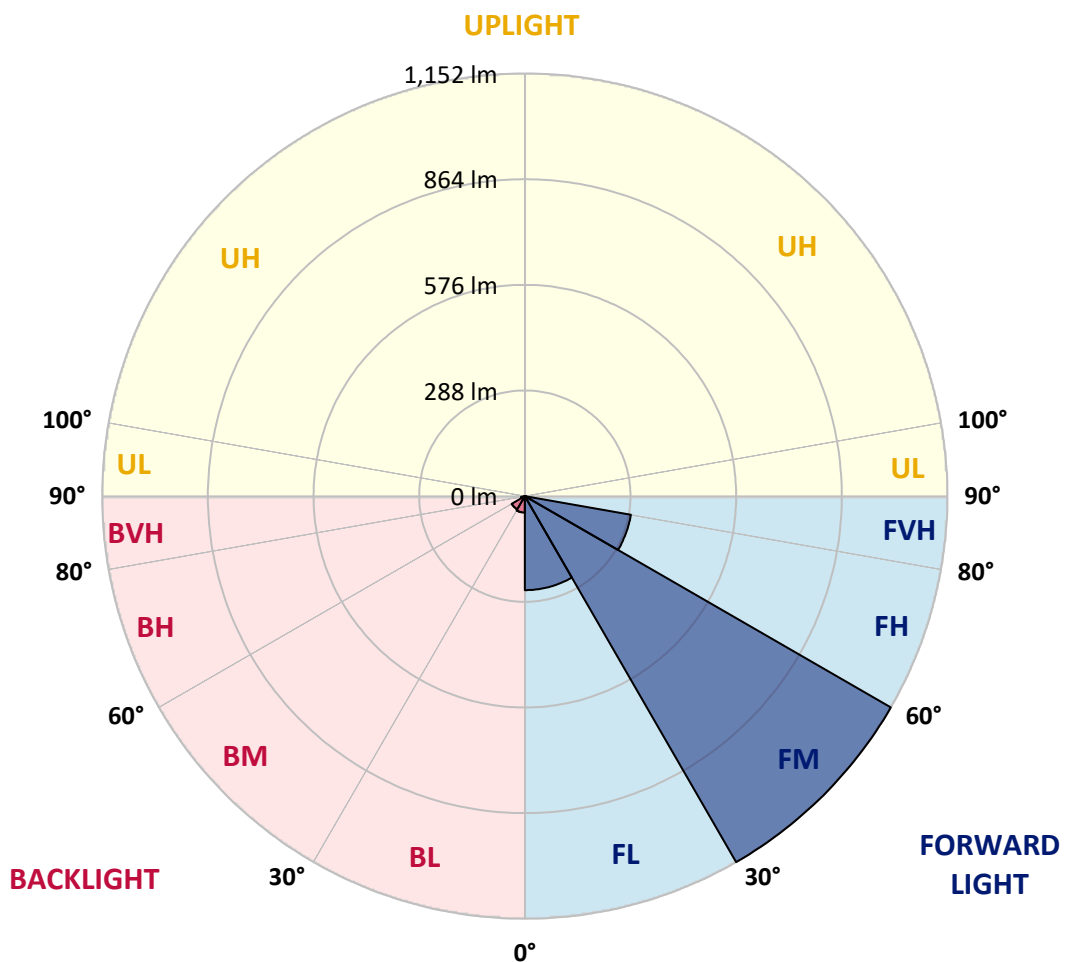
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	256.3	14.2			
FM (30°-60°)	1151.9	63.9			
FH (60°-80°)	293.5	16.3			G0/660
FVH (80°-90°)	3.5	0.2			G0/10
BL (0°-30°)	45.0	2.5	B0/110		
BM (30°-60°)	41.5	2.3	B0/220		
BH (60°-80°)	10.7	0.6	B0/110		G0/110
BVH (80°-90°)	0.3	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-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	421.9	421.9	421.9	421.9	421.9	421.9	421.9	421.9	421.9	421.9	421.9
2.5°	505.9	502.9	504.6	500.1	491.7	481.3	465.6	466.4	454.1	443.4	428.5
5°	589.5	586.3	585.3	573.7	562.0	543.2	520.0	516.2	493.6	466.3	435.1
7.5°	633.5	630.8	632.9	628.6	617.1	600.0	570.7	567.8	532.9	491.5	445.7
10°	613.3	612.4	621.0	631.2	640.5	638.4	614.9	610.5	571.3	519.3	456.6
12.5°	559.0	562.0	573.0	591.7	620.4	647.4	643.6	644.4	610.5	549.5	468.6
15°	527.1	530.7	537.0	546.7	582.0	630.0	654.5	662.4	648.1	583.1	482.8
17.5°	524.4	527.4	528.3	532.0	552.7	602.1	650.1	665.1	681.5	614.9	498.8
20°	545.1	546.3	545.5	542.9	550.3	586.9	636.2	657.7	709.2	648.7	512.9
22.5°	584.1	582.2	579.8	569.9	569.4	591.2	628.6	651.1	725.6	676.6	522.2
25°	632.4	628.5	625.2	611.1	604.5	613.5	635.4	653.4	740.5	703.8	528.8
27.5°	685.2	686.4	678.2	659.3	648.8	646.9	656.4	669.9	754.8	728.1	532.4
30°	741.6	742.2	731.5	711.9	702.4	690.2	689.6	697.6	770.3	756.1	535.9
32.5°	805.8	807.6	790.0	769.7	753.1	737.3	729.6	736.3	798.1	792.6	543.0
35°	898.7	891.1	867.4	836.6	813.1	792.4	780.6	785.0	835.1	836.3	557.2
37.5°	994.4	993.6	967.4	923.0	884.5	858.8	838.5	845.8	887.0	894.9	580.0
40°	1083.7	1085.7	1063.0	1024.3	974.7	930.5	908.8	913.7	956.1	966.0	607.6
42.5°	1142.0	1140.8	1142.6	1131.5	1081.8	1029.7	997.1	999.8	1036.3	1041.5	642.2
45°	1168.8	1164.5	1179.4	1214.5	1194.7	1139.9	1102.8	1099.5	1119.5	1118.1	673.6
47.5°	1145.6	1137.7	1171.8	1256.3	1294.5	1277.9	1224.9	1218.9	1201.8	1190.4	706.3
50°	1030.1	1026.7	1099.6	1236.4	1357.2	1405.6	1366.6	1344.3	1275.3	1243.8	723.6
52.5°	920.4	910.7	960.0	1134.8	1329.3	1508.2	1516.3	1476.6	1336.2	1259.1	717.7
55°	743.5	731.6	785.3	932.4	1218.6	1521.3	1621.5	1600.8	1389.6	1240.2	705.9
57.5°	451.6	439.9	518.9	667.8	974.5	1412.4	1595.6	1616.6	1430.7	1219.3	698.1
60°	189.9	182.4	213.4	318.7	622.3	1160.7	1458.2	1510.6	1438.4	1190.8	701.3
62.5°	98.7	95.4	97.1	127.6	251.6	764.3	1213.7	1305.0	1360.4	1178.1	704.4
65°	74.1	71.5	66.0	70.1	97.8	330.4	872.2	994.4	1191.2	1146.1	683.1
67.5°	60.8	58.4	54.5	53.2	57.7	114.7	445.3	604.1	933.5	1009.4	606.7
70°	48.5	47.7	46.4	44.1	43.3	55.6	159.7	246.2	617.3	711.9	439.7
72.5°	40.4	40.6	39.2	37.1	34.3	35.9	63.7	84.2	298.7	341.3	184.2
75°	33.8	33.8	34.3	31.4	28.6	24.6	35.4	41.1	95.9	78.8	39.3
77.5°	26.5	26.9	28.9	26.5	22.9	15.5	19.3	22.0	28.4	22.7	14.4
80°	21.2	20.8	20.1	23.8	20.5	10.9	9.2	10.1	13.3	10.9	7.1
82.5°	14.8	14.7	14.1	16.1	16.0	8.1	6.0	6.2	8.1	6.9	4.4
85°	3.6	4.3	9.0	7.6	6.6	4.7	3.6	3.9	5.2	4.6	2.4
87.5°	1.6	1.6	4.1	4.9	3.2	2.1	1.6	1.7	2.7	2.7	1.4
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°	421.9	421.9	421.9	421.9	421.9	421.9	421.9	421.9	421.9	421.9	421.9
2.5°	423.3	413.0	400.1	386.3	372.3	355.4	344.6	335.8	328.8	323.5	321.6
5°	424.9	405.1	375.8	339.3	302.2	267.4	240.6	220.7	204.2	195.2	191.3
7.5°	424.7	398.5	345.4	284.3	224.0	173.9	138.4	116.4	101.7	95.7	92.1
10°	424.6	389.8	310.8	223.3	149.7	100.8	74.2	61.9	56.5	54.5	54.2
12.5°	429.1	379.9	272.1	164.4	94.0	62.7	51.6	48.8	47.5	46.9	46.8
15°	431.7	370.7	231.4	116.1	63.3	49.6	46.1	44.9	44.4	44.1	43.9
17.5°	434.4	356.5	192.7	84.0	50.7	45.0	43.0	42.2	41.9	41.9	41.9
20°	434.8	341.2	154.3	61.9	45.0	42.0	40.0	39.2	38.7	38.4	38.4
22.5°	431.4	323.0	121.3	50.2	41.7	39.2	37.0	35.7	34.9	34.7	34.7
25°	422.7	297.3	93.0	44.1	39.0	36.3	33.6	32.2	31.6	31.6	31.6
27.5°	410.2	266.9	71.9	39.2	35.5	32.9	30.5	29.2	29.1	28.9	29.1
30°	396.0	237.7	55.0	34.7	31.4	29.2	27.3	26.7	27.0	27.0	27.2
32.5°	381.8	208.5	43.0	31.3	27.8	25.9	25.0	25.0	25.4	25.4	25.4
35°	369.6	179.9	36.0	28.4	25.3	23.7	23.2	23.7	24.0	24.2	24.2
37.5°	362.8	155.3	31.7	25.9	23.2	22.0	21.8	22.3	22.9	23.4	23.5
40°	360.3	136.3	29.2	24.0	21.3	20.5	20.4	21.0	22.1	22.9	23.1
42.5°	360.4	119.6	27.0	22.1	20.1	19.0	19.0	19.9	21.0	21.8	21.8
45°	361.5	105.2	24.8	20.2	19.0	17.1	17.2	18.5	19.3	20.1	20.1
47.5°	362.5	93.7	22.4	18.2	16.4	15.5	15.8	16.7	17.8	19.1	19.1
50°	357.0	85.4	20.1	16.0	14.4	14.1	14.7	15.5	17.1	18.3	18.5
52.5°	343.7	78.0	18.0	14.2	13.0	13.1	13.9	14.4	15.6	15.8	16.0
55°	337.8	74.2	16.4	13.0	11.8	12.3	12.8	13.0	12.6	11.8	11.8
57.5°	336.6	71.7	14.8	11.7	10.9	11.5	11.4	10.4	9.5	8.5	8.4
60°	337.8	68.2	13.6	10.1	10.0	10.1	9.6	7.9	6.6	6.0	5.7
62.5°	330.6	63.2	12.5	8.7	8.7	8.5	7.3	5.4	4.3	3.8	3.6
65°	306.6	53.2	11.4	7.3	7.1	6.8	4.9	3.6	2.8	2.4	2.2
67.5°	259.3	41.2	10.3	6.0	5.7	4.7	3.2	2.4	1.6	1.4	1.3
70°	176.9	25.6	8.7	4.7	4.3	3.0	1.9	1.4	0.9	0.8	0.6
72.5°	64.1	14.8	7.3	3.6	2.8	1.9	1.1	0.6	0.5	0.5	0.3
75°	15.2	10.4	5.5	2.7	1.9	1.1	0.6	0.5	0.3	0.3	0.2
77.5°	6.9	8.1	3.6	1.6	1.3	0.8	0.5	0.3	0.2	0.2	0.0
80°	3.9	5.7	1.7	1.1	0.9	0.6	0.3	0.2	0.2	0.0	0.0
82.5°	2.1	3.2	1.3	0.9	0.8	0.5	0.3	0.0	0.0	0.0	0.0
85°	1.4	1.6	0.9	0.8	0.6	0.5	0.3	0.0	0.0	0.0	0.0
87.5°	1.1	1.1	0.9	0.8	0.6	0.5	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)