

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: P673950

Luminaire Tested: **CCP-SA-1B-727-U-SL4-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P673950
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1B-727-U-SL4-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ SL4 distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

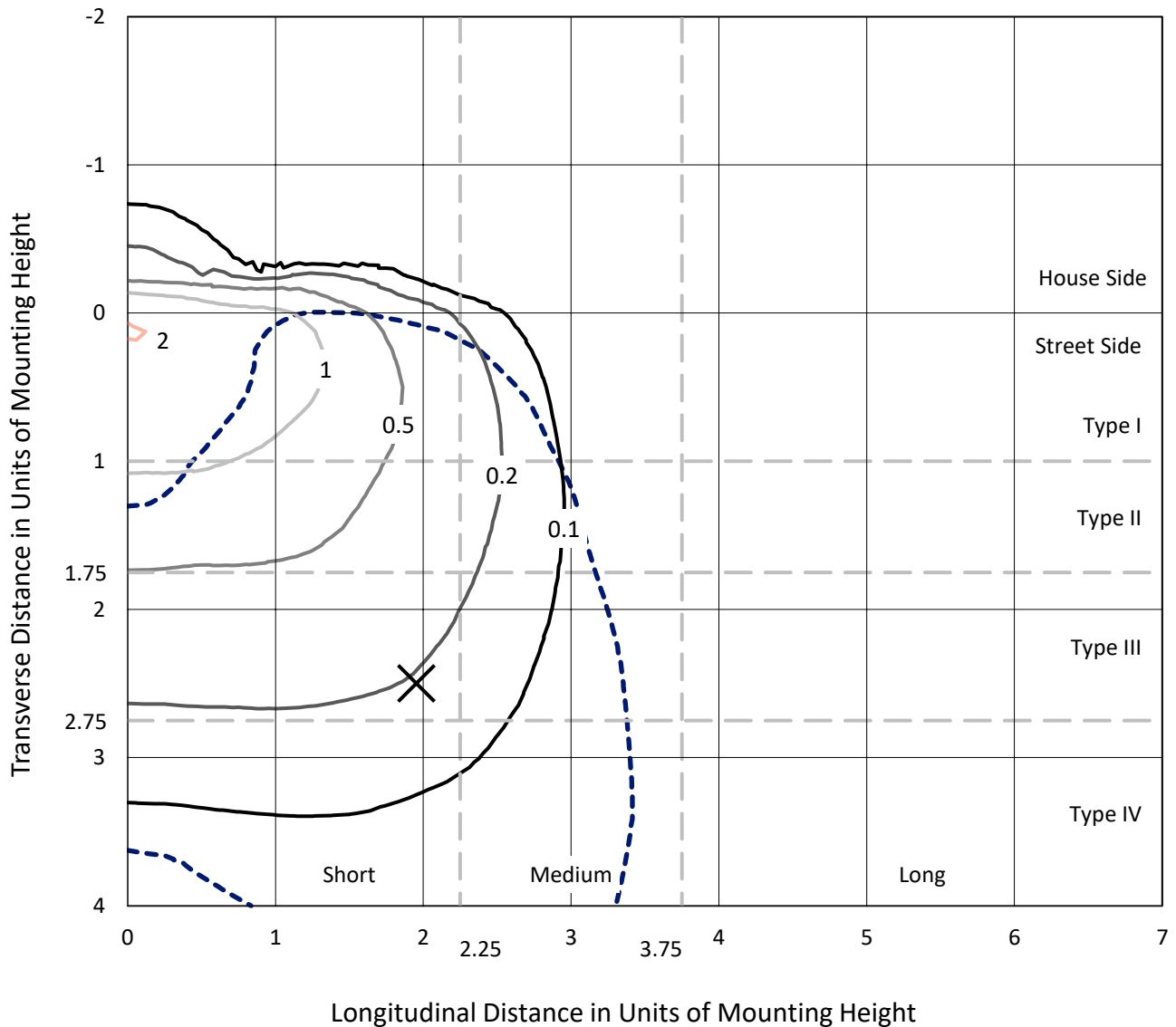
Lumens per Lamp: N/A
Luminaire Lumens: 2385.8 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

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

REPORT NUMBER: P673950
 CATALOG NUMBER: CCP-SA-1B-727-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

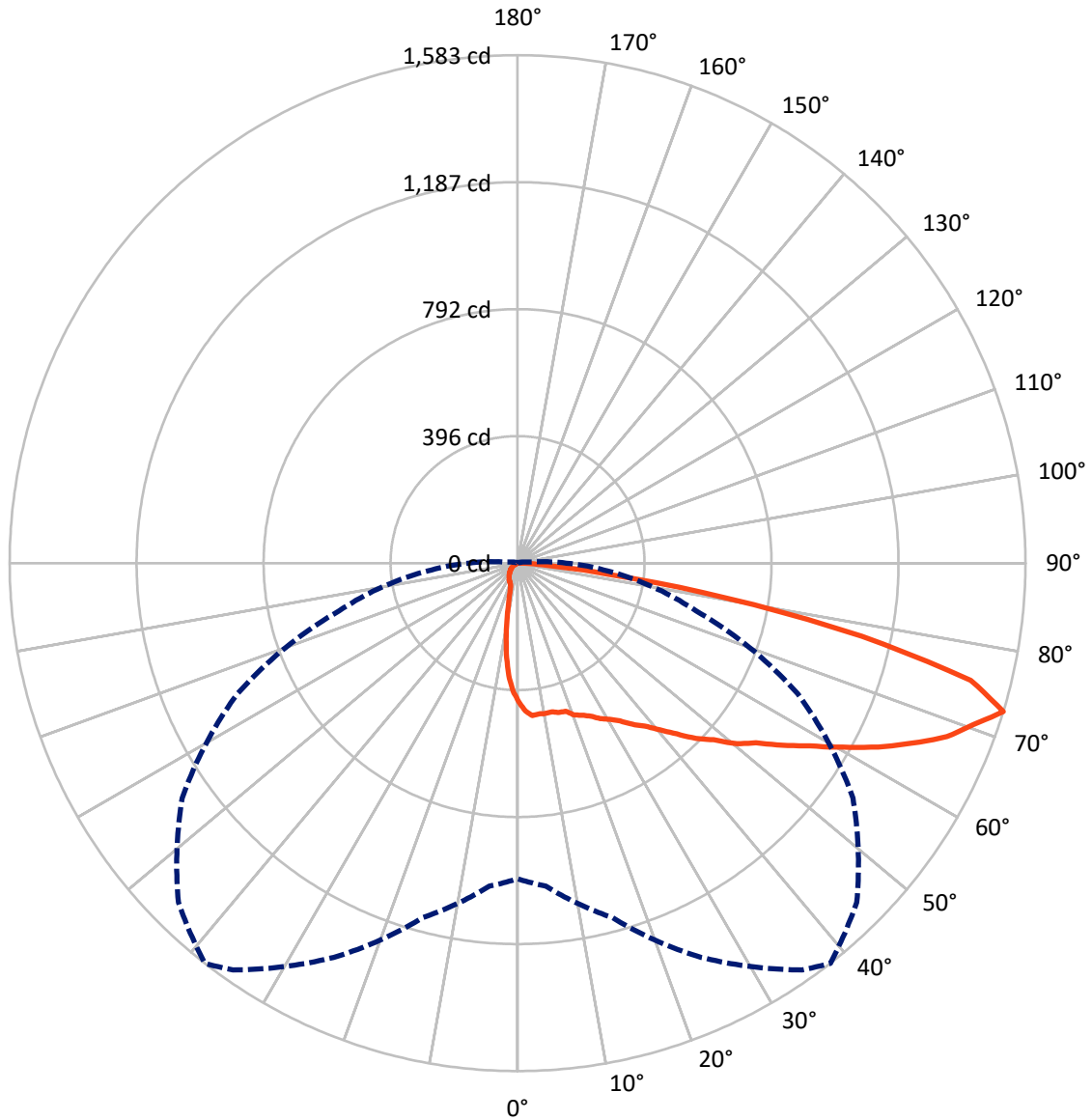
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P673950
CATALOG NUMBER: CCP-SA-1B-727-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P673950
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	199.8	0.0	199.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	2185.9	0.0	2185.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	2385.8	0.0	2385.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.8	1.6
10°-20°	92.5	3.9
20°-30°	148.2	6.2
30°-40°	223.8	9.4
40°-50°	340.6	14.3
50°-60°	479.5	20.1
60°-70°	585.7	24.6
70°-80°	425.3	17.8
80°-90°	52.4	2.2
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°	2385.8	100.0
0°-180°	2385.8	100.0



REPORT NUMBER: P673950

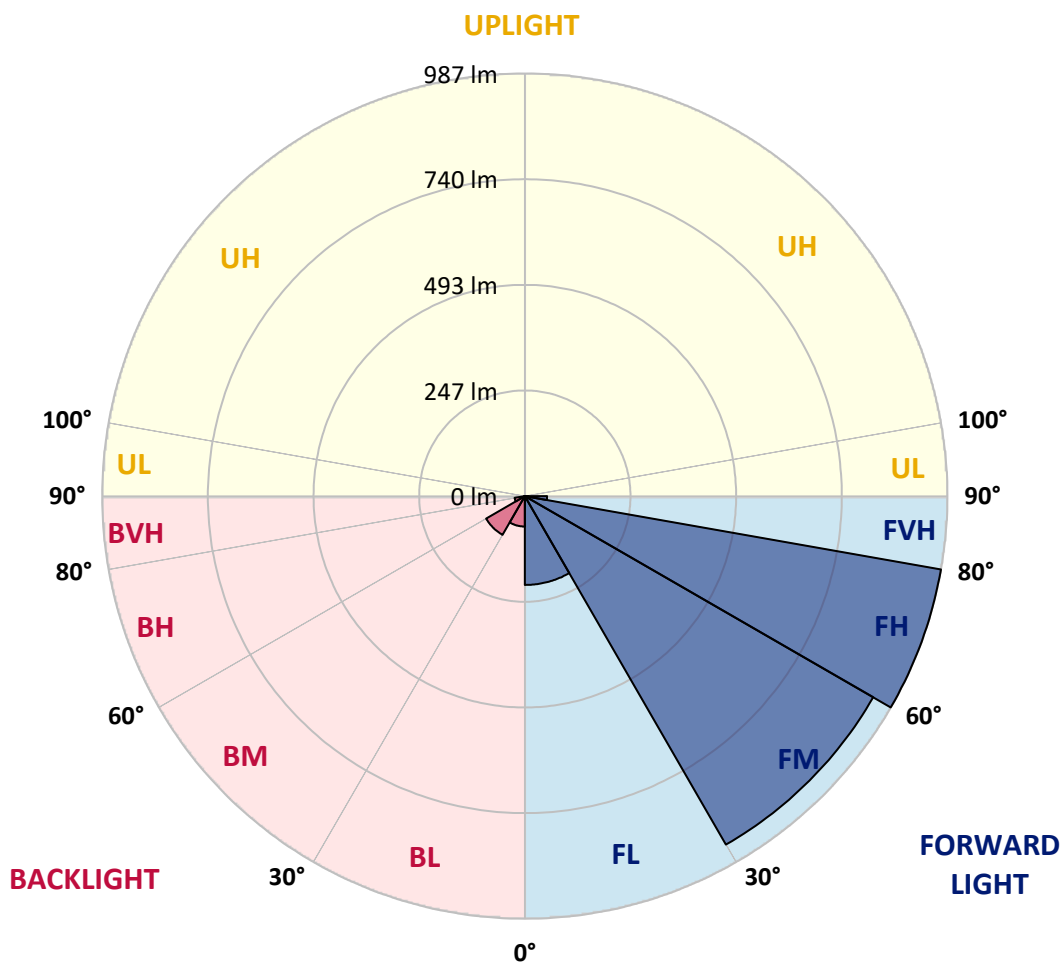
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	207.5	8.7			
FM (30°-60°)	939.5	39.4			
FH (60°-80°)	986.8	41.4			G1/1800
FVH (80°-90°)	52.1	2.2			G1/100
BL (0°-30°)	70.9	3.0	B0/110		
BM (30°-60°)	104.4	4.4	B0/220		
BH (60°-80°)	24.2	1.0	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-G1

Type IV Short





REPORT NUMBER: P673950

CATALOG NUMBER: CCP-SA-1B-727-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4
2.5°	474.0	474.0	478.4	474.0	472.3	461.7	462.2	456.6	451.0	443.2	435.9
5°	479.6	483.5	486.3	482.4	476.2	477.3	481.2	470.6	455.5	446.0	429.8
7.5°	477.3	485.7	483.5	481.2	477.3	474.5	468.9	464.5	457.2	448.2	429.2
10°	475.6	478.4	479.0	477.3	468.9	476.8	470.6	463.3	454.4	443.8	420.2
12.5°	469.5	469.5	474.5	470.6	471.7	475.6	472.8	471.2	461.7	452.7	432.0
15°	462.8	465.0	472.8	479.0	484.6	482.9	481.2	476.2	467.8	457.7	435.9
17.5°	464.5	465.6	477.9	489.1	486.3	485.2	494.1	483.5	475.1	463.9	439.3
20°	470.6	474.0	488.0	502.5	505.3	505.3	501.9	495.8	484.0	468.9	445.4
22.5°	476.8	477.9	500.8	519.3	522.1	514.8	517.6	499.7	488.5	480.1	451.6
25°	500.3	498.0	522.7	537.2	535.5	528.2	525.5	509.8	505.3	490.2	465.0
27.5°	532.2	522.7	546.7	555.7	546.7	549.0	541.1	524.3	514.8	505.9	471.2
30°	551.8	557.3	570.2	579.2	564.1	564.6	560.7	542.2	527.7	529.9	491.9
32.5°	582.0	585.9	595.4	599.3	587.6	586.4	582.5	568.0	557.3	555.1	519.9
35°	614.4	621.7	622.3	623.4	612.7	617.2	611.6	590.9	596.5	600.4	553.4
37.5°	646.3	639.6	650.8	655.8	644.1	644.1	645.8	631.8	641.8	653.6	601.0
40°	658.6	661.4	681.0	677.1	691.1	682.7	688.8	685.5	693.9	720.7	668.1
42.5°	671.5	674.9	701.2	708.4	725.2	728.0	737.0	737.5	762.2	806.4	732.5
45°	696.1	690.5	726.3	744.2	771.7	779.5	790.1	799.1	837.7	889.7	805.8
47.5°	718.5	710.7	751.5	787.3	820.9	822.6	851.7	861.2	907.1	966.4	878.5
50°	749.8	752.6	770.0	831.5	865.7	885.3	905.4	936.7	987.7	1050.9	931.2
52.5°	782.3	779.5	808.6	869.0	922.8	930.0	975.4	1010.6	1066.0	1113.6	954.7
55°	822.0	825.4	836.6	916.0	984.3	1001.7	1052.6	1089.5	1149.9	1140.4	962.5
57.5°	861.8	858.4	883.6	968.6	1061.5	1074.4	1142.1	1163.9	1204.8	1158.3	942.9
60°	900.9	907.1	917.7	1028.0	1146.0	1165.1	1218.8	1230.0	1238.9	1166.7	927.8
62.5°	945.7	931.2	964.2	1090.6	1222.1	1261.9	1304.4	1260.2	1252.4	1151.6	893.1
65°	968.1	972.6	1015.6	1162.3	1323.4	1352.5	1358.1	1301.0	1260.7	1118.1	860.6
67.5°	1002.8	1008.9	1063.8	1235.6	1427.5	1443.7	1423.6	1338.0	1253.5	1074.4	743.7
70°	1007.3	1022.4	1128.1	1312.2	1493.0	1507.0	1491.3	1362.6	1194.7	902.6	550.6
72.5°	983.8	1010.6	1143.8	1355.9	1547.8	1583.1	1495.2	1275.9	963.0	575.8	282.0
75°	743.1	765.5	1047.0	1291.0	1450.4	1458.8	1312.8	973.7	548.4	196.4	72.2
77.5°	385.0	423.6	698.9	986.5	1105.2	1096.2	913.8	573.6	188.6	51.5	29.1
80°	221.0	230.5	305.5	554.0	695.0	660.9	505.3	247.3	82.8	25.7	19.0
82.5°	109.1	122.5	164.5	247.9	347.5	285.9	189.7	148.3	46.4	14.0	16.8
85°	23.5	24.6	83.9	118.6	141.0	92.9	64.9	124.8	16.8	8.4	16.2
87.5°	16.8	16.2	23.5	53.2	39.2	24.1	38.6	65.5	3.9	3.9	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P673950
 CATALOG NUMBER: CCP-SA-1B-727-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4
2.5°	431.4	426.4	420.8	410.2	407.4	405.7	396.2	395.6	393.9	390.0	388.4
5°	419.7	411.3	400.7	389.5	380.5	364.3	344.7	334.6	322.3	322.9	319.0
7.5°	418.0	402.3	387.2	363.7	335.2	305.0	274.8	255.2	241.2	232.8	234.5
10°	410.2	398.4	373.8	330.2	284.3	238.4	199.8	170.7	153.9	141.0	144.9
12.5°	413.5	390.6	355.9	297.7	232.2	175.7	127.6	99.6	87.3	82.8	83.9
15°	411.3	390.6	345.3	262.4	182.4	119.2	82.8	73.9	71.6	71.6	70.5
17.5°	418.0	395.1	327.4	227.8	130.9	79.5	71.1	69.4	67.7	67.7	67.7
20°	427.5	397.3	315.0	189.1	92.3	69.9	66.6	65.5	64.9	64.9	64.4
22.5°	428.1	395.1	292.1	146.6	71.1	66.0	63.2	62.7	62.7	61.6	61.6
25°	431.4	397.3	267.5	110.2	66.0	62.1	59.9	59.3	59.9	59.3	58.8
27.5°	439.8	401.2	242.9	80.6	62.1	58.8	57.1	56.5	56.5	56.5	55.4
30°	450.5	401.2	215.4	66.6	58.8	55.4	53.7	53.2	52.6	52.6	52.6
32.5°	472.8	414.1	181.9	59.3	54.3	51.5	49.8	49.8	49.2	49.2	48.7
35°	500.8	423.0	147.7	54.8	50.4	47.6	45.9	45.9	45.3	45.3	44.8
37.5°	535.5	445.4	113.0	51.5	46.4	43.6	42.0	42.0	42.0	41.4	41.4
40°	584.8	468.4	83.9	47.0	42.5	39.7	38.6	38.1	37.5	37.5	36.4
42.5°	637.4	503.6	62.7	43.6	39.2	36.9	35.3	33.6	33.6	31.9	31.9
45°	694.4	534.4	50.9	39.7	35.8	33.0	31.3	30.2	28.5	27.4	27.4
47.5°	750.4	553.4	44.8	35.3	32.5	30.2	28.5	26.3	24.1	23.5	22.9
50°	795.7	559.0	39.7	31.9	29.7	27.4	25.2	22.4	20.1	19.0	18.5
52.5°	795.7	528.2	35.8	28.5	26.9	24.6	21.8	18.5	15.7	14.5	14.0
55°	795.7	479.6	31.9	26.3	24.1	22.4	18.5	15.1	12.3	10.6	10.1
57.5°	784.0	420.8	28.5	23.5	21.3	19.0	15.7	11.8	9.0	7.3	7.3
60°	751.5	359.3	24.6	20.7	18.5	15.7	12.3	8.4	5.6	3.9	3.9
62.5°	710.1	285.9	21.3	17.3	15.1	12.9	9.5	5.6	2.2	1.1	1.1
65°	637.9	211.0	18.5	14.5	11.8	9.5	6.2	2.2	0.0	0.0	0.0
67.5°	526.6	141.0	14.5	11.8	10.1	6.7	3.9	0.6	0.0	0.0	0.0
70°	370.4	80.0	11.2	8.4	7.3	4.5	1.1	0.0	0.0	0.0	0.0
72.5°	152.2	35.3	7.8	6.2	5.0	2.2	0.0	0.0	0.0	0.0	0.0
75°	41.4	15.7	5.0	3.4	2.8	0.6	0.0	0.0	0.0	0.0	0.0
77.5°	24.1	10.6	2.2	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	19.0	5.0	1.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	19.0	2.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	0.0	0.0	0.0	0.0	0.0	0.0	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)