

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: P677184

Luminaire Tested: **CCW-SA-1C-830-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677184
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-830-U-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
SL4 distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

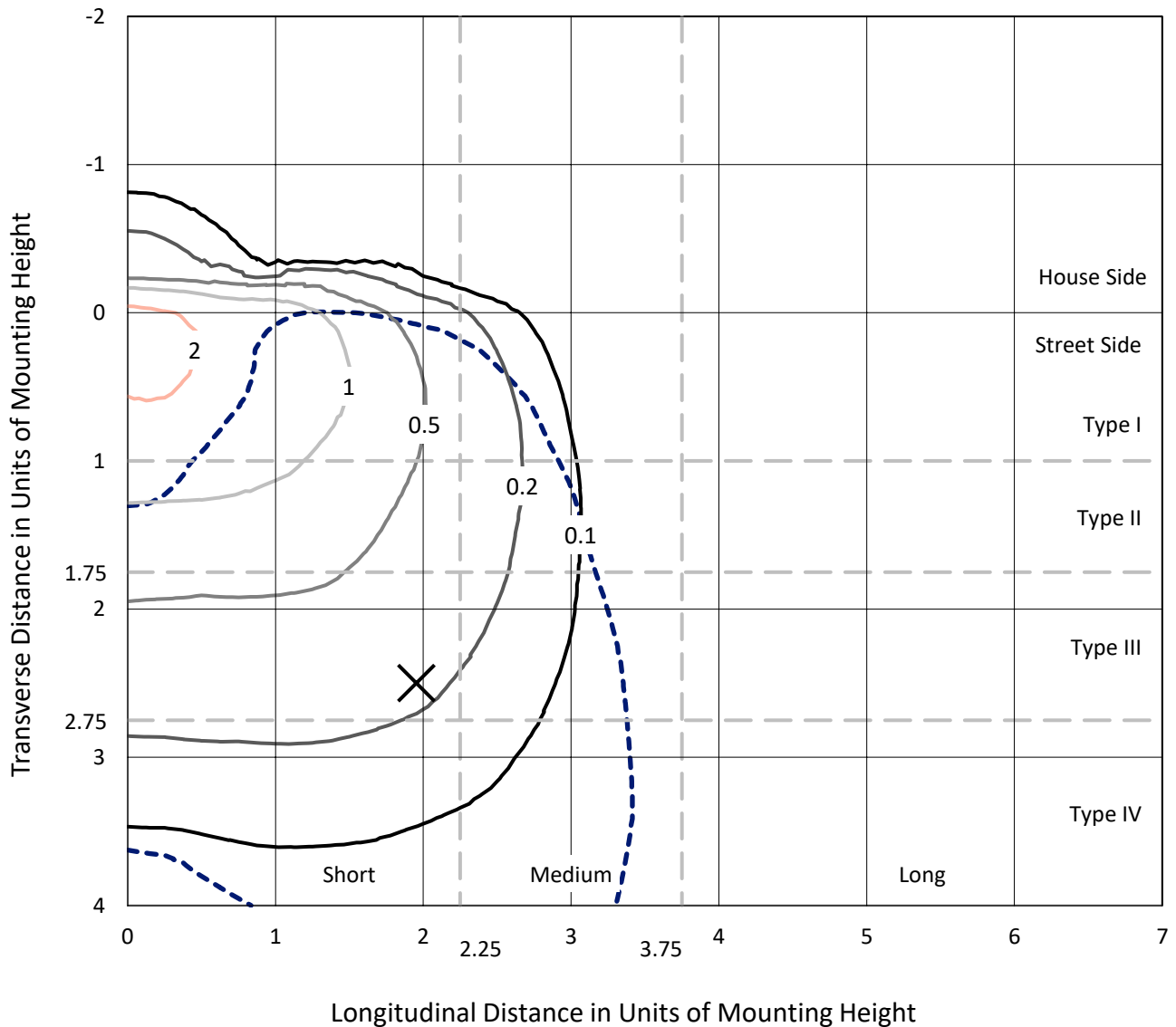
Lumens per Lamp: N/A
Luminaire Lumens: 2967.6 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 32
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

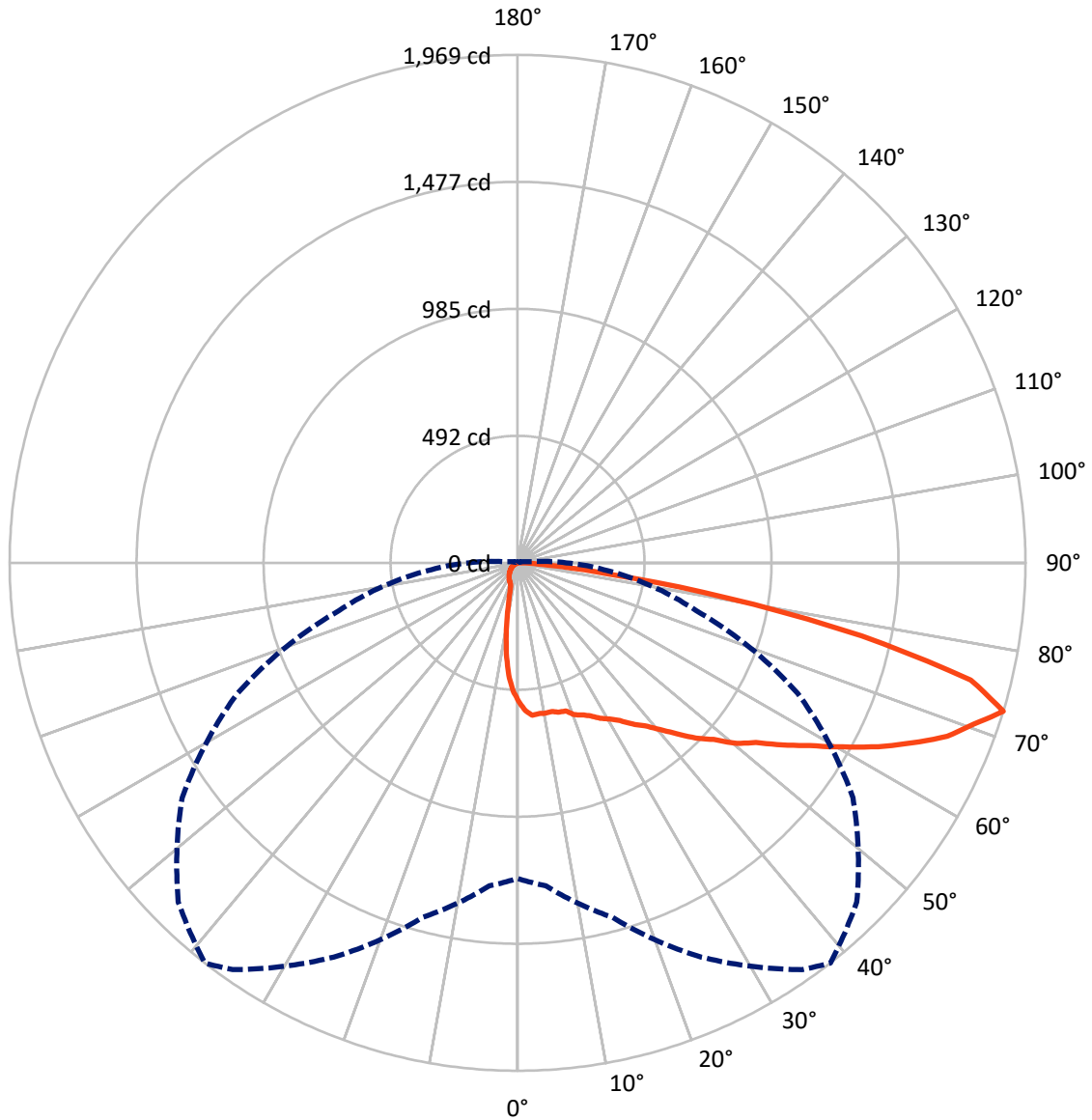
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	248.5	0.0	248.5
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	2719.0	0.0	2719.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	2967.6	0.0	2967.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.0	1.6
10°-20°	115.0	3.9
20°-30°	184.4	6.2
30°-40°	278.4	9.4
40°-50°	423.6	14.3
50°-60°	596.5	20.1
60°-70°	728.6	24.6
70°-80°	529.0	17.8
80°-90°	65.2	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°	2967.6	100.0
0°-180°	2967.6	100.0

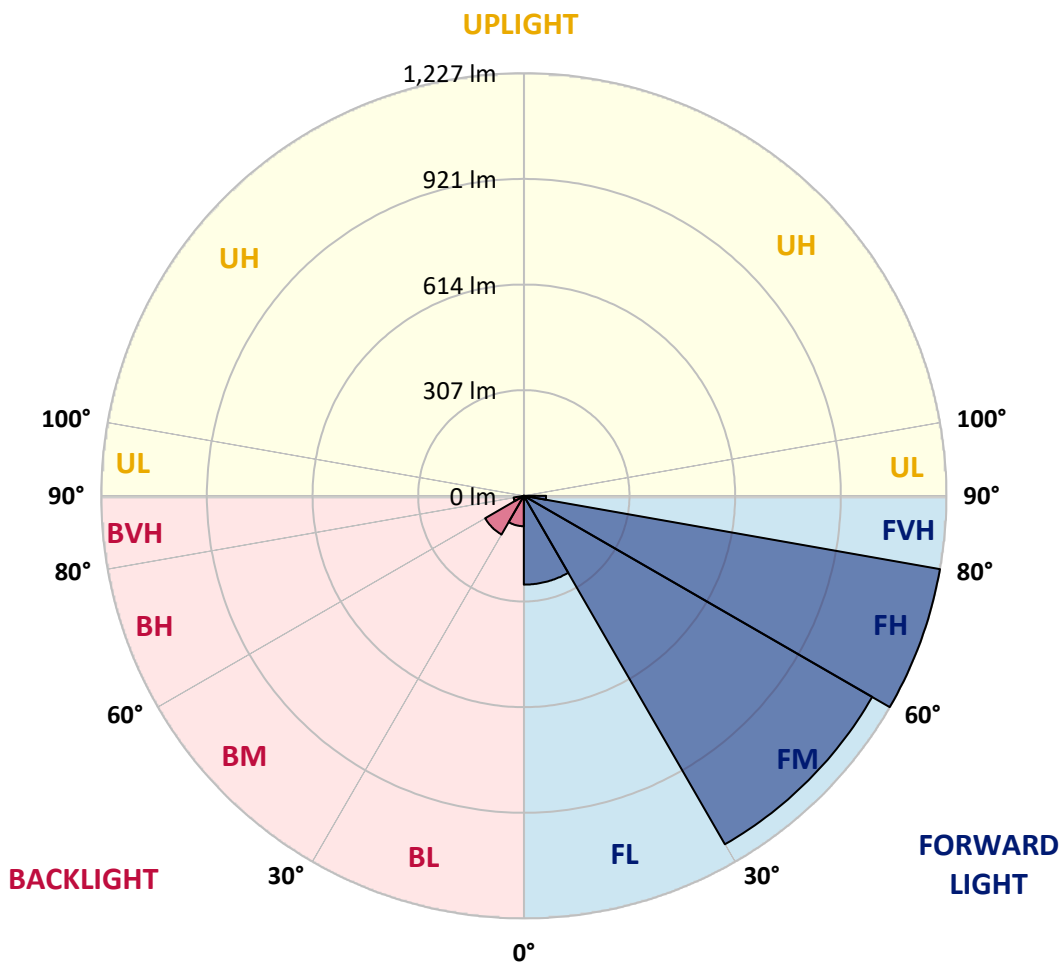


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	258.1	8.7			
FM (30°-60°)	1168.6	39.4			
FH (60°-80°)	1227.5	41.4			G1/1800
FVH (80°-90°)	64.8	2.2			G1/100
BL (0°-30°)	88.2	3.0	B0/110		
BM (30°-60°)	129.8	4.4	B0/220		
BH (60°-80°)	30.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	536.7	536.7	536.7	536.7	536.7	536.7	536.7	536.7	536.7	536.7	536.7
2.5°	589.6	589.6	595.1	589.6	587.5	574.2	574.9	568.0	561.0	551.3	542.2
5°	596.5	601.4	604.9	600.0	592.3	593.7	598.6	585.4	566.6	554.8	534.6
7.5°	593.7	604.2	601.4	598.6	593.7	590.2	583.3	577.7	568.7	557.5	533.9
10°	591.6	595.1	595.8	593.7	583.3	593.0	585.4	576.3	565.2	552.0	522.7
12.5°	584.0	584.0	590.2	585.4	586.8	591.6	588.2	586.1	574.2	563.1	537.4
15°	575.6	578.4	588.2	595.8	602.8	600.7	598.6	592.3	581.9	569.4	542.2
17.5°	577.7	579.1	594.4	608.3	604.9	603.5	614.6	601.4	590.9	577.0	546.4
20°	585.4	589.6	607.0	625.1	628.5	628.5	624.4	616.7	602.1	583.3	554.1
22.5°	593.0	594.4	623.0	645.9	649.4	640.4	643.8	621.6	607.7	597.2	561.7
25°	622.3	619.5	650.1	668.2	666.1	657.1	653.6	634.1	628.5	609.7	578.4
27.5°	661.9	650.1	680.0	691.2	680.0	682.8	673.1	652.2	640.4	629.2	586.1
30°	686.3	693.3	709.3	720.4	701.6	702.3	697.4	674.5	656.4	659.2	611.8
32.5°	723.9	728.8	740.6	745.5	730.9	729.5	724.6	706.5	693.3	690.5	646.6
35°	764.3	773.3	774.0	775.4	762.2	767.7	760.8	735.0	742.0	746.9	688.4
37.5°	803.9	795.6	809.5	815.8	801.2	801.2	803.2	785.8	798.4	813.0	747.6
40°	819.3	822.7	847.1	842.2	859.6	849.2	856.8	852.7	863.1	896.5	831.1
42.5°	835.3	839.4	872.1	881.2	902.1	905.6	916.7	917.4	948.0	1003.0	911.1
45°	865.9	858.9	903.5	925.7	959.9	969.6	982.8	994.0	1042.0	1106.7	1002.3
47.5°	893.7	884.0	934.8	979.3	1021.1	1023.2	1059.4	1071.2	1128.3	1202.1	1092.8
50°	932.7	936.2	957.8	1034.3	1076.8	1101.2	1126.2	1165.2	1228.5	1307.2	1158.2
52.5°	973.1	969.6	1005.8	1081.0	1147.8	1156.8	1213.2	1257.1	1326.0	1385.1	1187.5
55°	1022.5	1026.7	1040.6	1139.4	1224.4	1245.9	1309.3	1355.2	1430.4	1418.5	1197.2
57.5°	1071.9	1067.7	1099.1	1204.9	1320.4	1336.4	1420.6	1447.8	1498.6	1440.8	1172.8
60°	1120.6	1128.3	1141.5	1278.6	1425.5	1449.2	1516.0	1529.9	1541.1	1451.3	1154.1
62.5°	1176.3	1158.2	1199.3	1356.6	1520.2	1569.6	1622.5	1567.5	1557.8	1432.5	1110.9
65°	1204.2	1209.7	1263.3	1445.7	1646.2	1682.4	1689.3	1618.3	1568.2	1390.7	1070.5
67.5°	1247.3	1255.0	1323.2	1536.9	1775.6	1795.8	1770.7	1664.3	1559.2	1336.4	925.0
70°	1252.9	1271.7	1403.2	1632.2	1857.1	1874.5	1855.0	1694.9	1486.1	1122.7	684.9
72.5°	1223.7	1257.1	1422.7	1686.5	1925.3	1969.1	1859.8	1587.0	1197.9	716.2	350.8
75°	924.4	952.2	1302.3	1605.8	1804.2	1814.6	1632.9	1211.1	682.1	244.3	89.8
77.5°	478.9	526.9	869.4	1227.1	1374.7	1363.6	1136.6	713.5	234.6	64.0	36.2
80°	274.9	286.8	380.0	689.1	864.5	822.0	628.5	307.7	103.0	32.0	23.7
82.5°	135.7	152.4	204.6	308.3	432.2	355.7	236.0	184.5	57.8	17.4	20.9
85°	29.2	30.6	104.4	147.6	175.4	115.5	80.7	155.2	20.9	10.4	20.2
87.5°	20.9	20.2	29.2	66.1	48.7	29.9	48.0	81.4	4.9	4.9	4.2
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°	536.7	536.7	536.7	536.7	536.7	536.7	536.7	536.7	536.7	536.7	536.7
2.5°	536.7	530.4	523.4	510.2	506.7	504.6	492.8	492.1	490.0	485.1	483.1
5°	522.0	511.6	498.4	484.5	473.3	453.1	428.8	416.2	400.9	401.6	396.7
7.5°	519.9	500.5	481.7	452.4	416.9	379.3	341.8	317.4	300.0	289.6	291.6
10°	510.2	495.6	465.0	410.7	353.6	296.5	248.5	212.3	191.4	175.4	180.3
12.5°	514.4	485.8	442.7	370.3	288.9	218.6	158.7	123.9	108.6	103.0	104.4
15°	511.6	485.8	429.5	326.4	226.9	148.3	103.0	91.9	89.1	89.1	87.7
17.5°	519.9	491.4	407.2	283.3	162.9	98.8	88.4	86.3	84.2	84.2	84.2
20°	531.8	494.2	391.9	235.3	114.8	87.0	82.8	81.4	80.7	80.7	80.0
22.5°	532.5	491.4	363.3	182.4	88.4	82.1	78.7	78.0	78.0	76.6	76.6
25°	536.7	494.2	332.7	137.1	82.1	77.3	74.5	73.8	74.5	73.8	73.1
27.5°	547.1	499.1	302.1	100.2	77.3	73.1	71.0	70.3	70.3	70.3	68.9
30°	560.3	499.1	268.0	82.8	73.1	68.9	66.8	66.1	65.4	65.4	65.4
32.5°	588.2	515.1	226.2	73.8	67.5	64.0	61.9	61.9	61.3	61.3	60.6
35°	623.0	526.2	183.8	68.2	62.6	59.2	57.1	57.1	56.4	56.4	55.7
37.5°	666.1	554.1	140.6	64.0	57.8	54.3	52.2	52.2	52.2	51.5	51.5
40°	727.4	582.6	104.4	58.5	52.9	49.4	48.0	47.3	46.6	46.6	45.2
42.5°	792.8	626.4	78.0	54.3	48.7	45.9	43.9	41.8	41.8	39.7	39.7
45°	863.8	664.7	63.3	49.4	44.5	41.1	39.0	37.6	35.5	34.1	34.1
47.5°	933.4	688.4	55.7	43.9	40.4	37.6	35.5	32.7	29.9	29.2	28.5
50°	989.8	695.4	49.4	39.7	36.9	34.1	31.3	27.8	25.1	23.7	23.0
52.5°	989.8	657.1	44.5	35.5	33.4	30.6	27.1	23.0	19.5	18.1	17.4
55°	989.8	596.5	39.7	32.7	29.9	27.8	23.0	18.8	15.3	13.2	12.5
57.5°	975.2	523.4	35.5	29.2	26.4	23.7	19.5	14.6	11.1	9.0	9.0
60°	934.8	446.9	30.6	25.8	23.0	19.5	15.3	10.4	7.0	4.9	4.9
62.5°	883.3	355.7	26.4	21.6	18.8	16.0	11.8	7.0	2.8	1.4	1.4
65°	793.5	262.4	23.0	18.1	14.6	11.8	7.7	2.8	0.0	0.0	0.0
67.5°	655.0	175.4	18.1	14.6	12.5	8.4	4.9	0.7	0.0	0.0	0.0
70°	460.8	99.5	13.9	10.4	9.0	5.6	1.4	0.0	0.0	0.0	0.0
72.5°	189.3	43.9	9.7	7.7	6.3	2.8	0.0	0.0	0.0	0.0	0.0
75°	51.5	19.5	6.3	4.2	3.5	0.7	0.0	0.0	0.0	0.0	0.0
77.5°	29.9	13.2	2.8	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	23.7	6.3	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	23.7	3.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	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)