

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: P676756

Luminaire Tested: **CCW-SA-2A-830-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676756
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-830-U-T4W-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
T4W distribution lens and House Side Shield
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

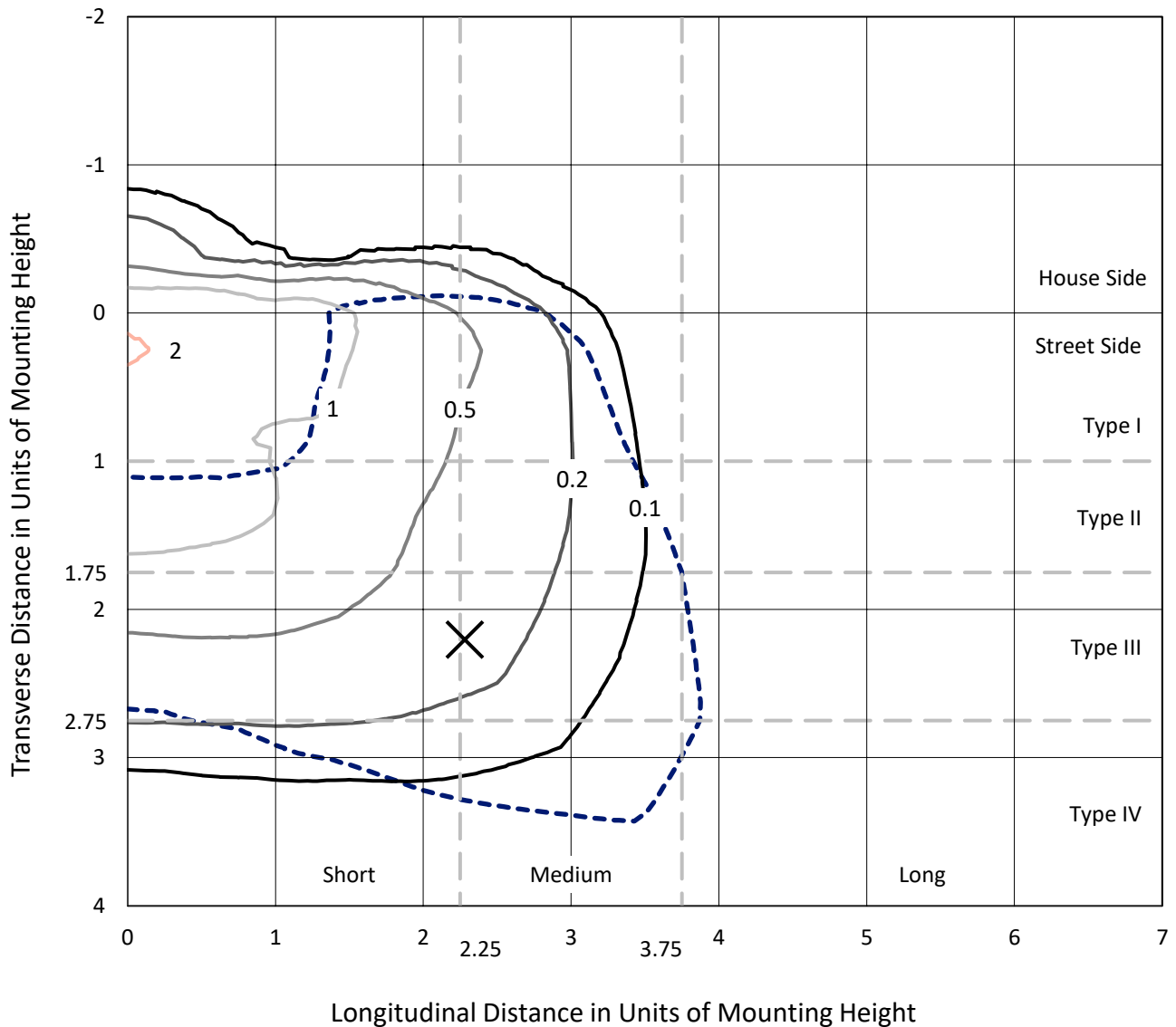
Lumens per Lamp: N/A
Luminaire Lumens: 3136.8 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G1

Input Watts (W): 36.2
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

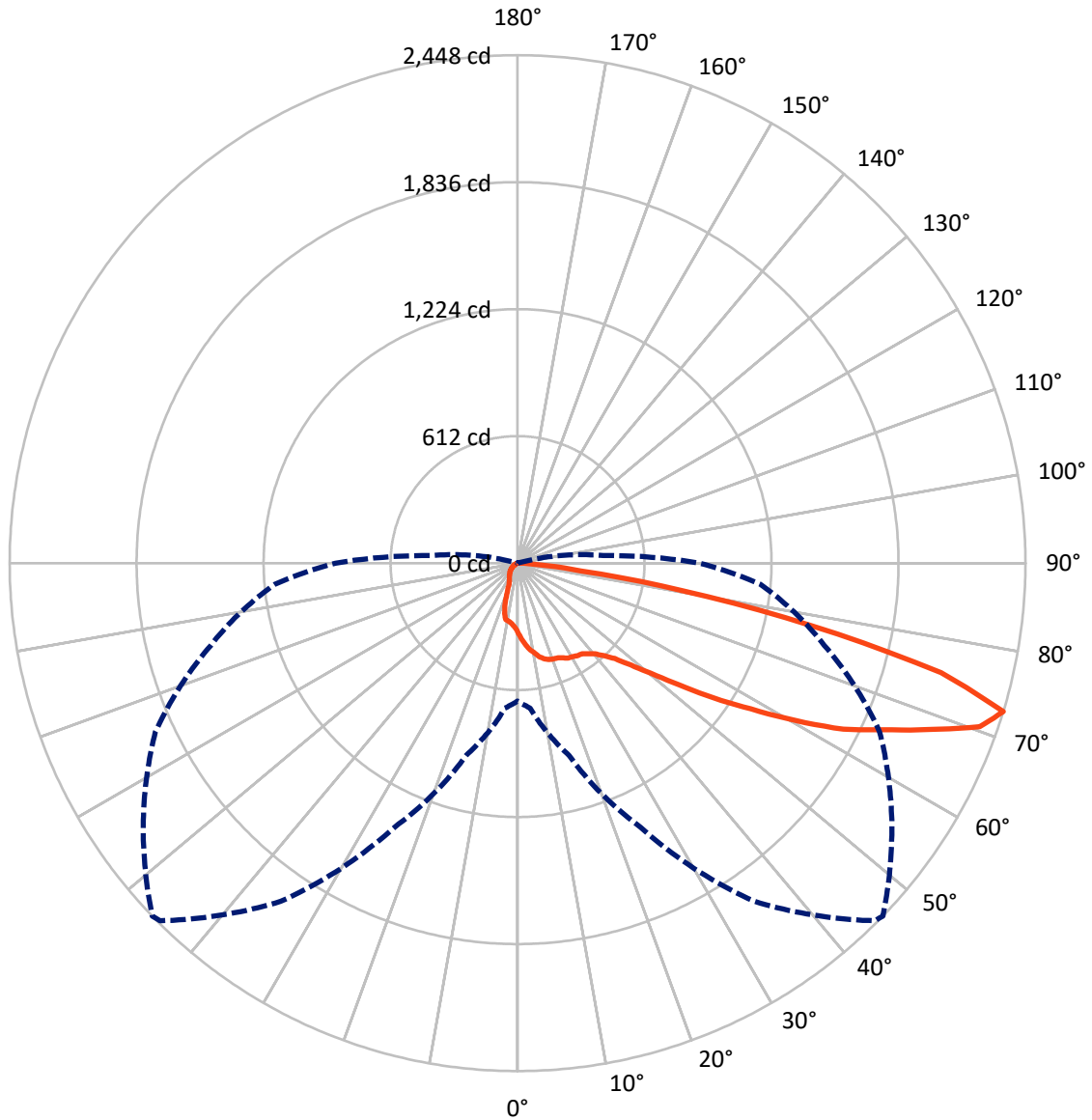
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	337.7	0.0	337.7
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	2799.1	0.0	2799.1
	% Fixture	89.2	0.0	89.2
Total	Lumens	3136.8	0.0	3136.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.6	1.1
10°-20°	101.3	3.2
20°-30°	158.6	5.1
30°-40°	222.1	7.1
40°-50°	366.2	11.7
50°-60°	658.3	21.0
60°-70°	954.1	30.4
70°-80°	595.4	19.0
80°-90°	47.2	1.5
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°	3136.8	100.0
0°-180°	3136.8	100.0

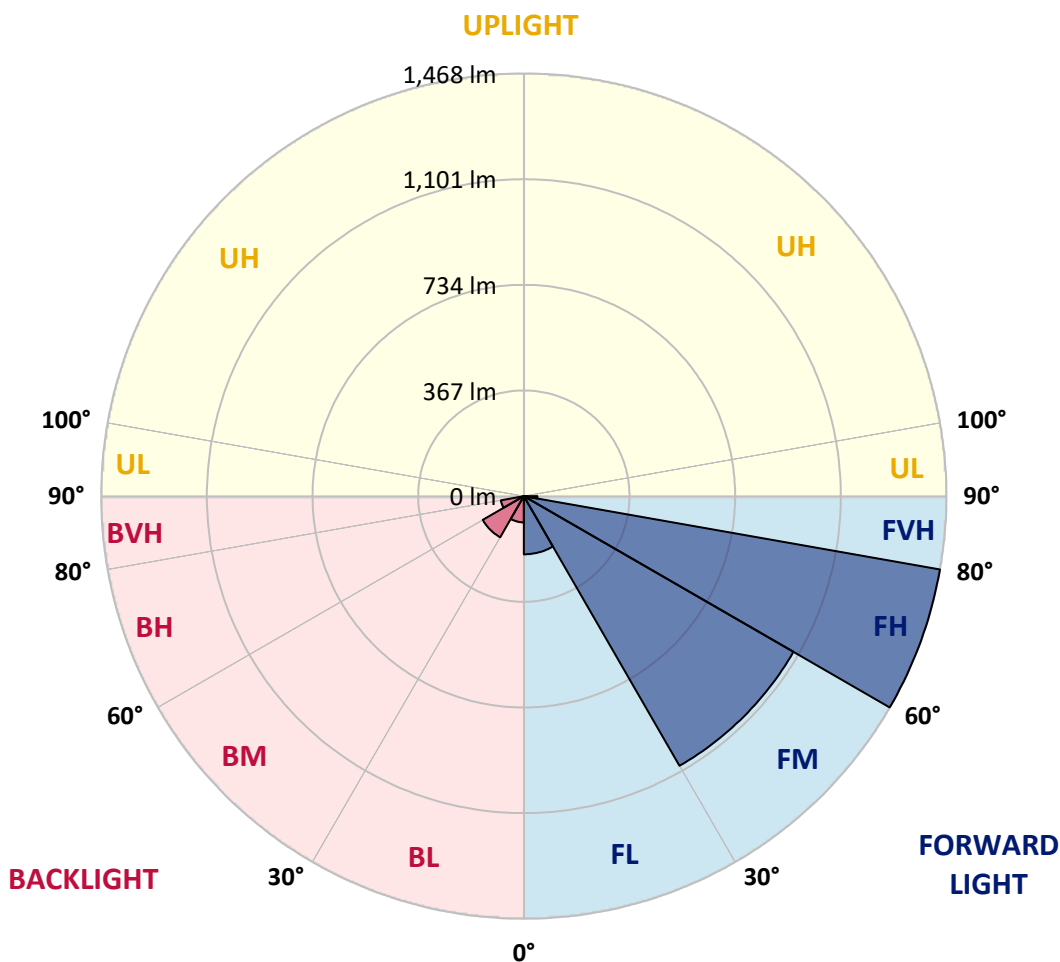


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	202.2	6.4			
FM (30°-60°)	1081.6	34.5			
FH (60°-80°)	1468.3	46.8			G1/1800
FVH (80°-90°)	46.9	1.5			G1/100
BL (0°-30°)	91.3	2.9	B0/110		
BM (30°-60°)	165.0	5.3	B0/220		
BH (60°-80°)	81.2	2.6	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-G1
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	335.2	335.2	335.2	335.2	335.2	335.2	335.2	335.2	335.2	335.2	335.2
2.5°	375.3	373.7	376.1	375.3	365.7	367.3	366.5	360.1	348.9	342.5	338.5
5°	418.5	422.5	419.3	412.1	406.5	395.3	393.7	383.3	365.7	354.5	342.5
7.5°	463.3	463.3	456.9	445.7	433.7	421.7	420.1	402.5	387.3	368.1	351.3
10°	496.9	492.9	488.1	476.1	462.5	446.5	438.5	425.7	408.9	385.7	364.1
12.5°	526.5	520.1	512.1	494.5	478.5	460.9	462.5	441.7	430.5	409.7	377.7
15°	543.3	537.7	530.5	514.5	489.7	481.7	478.5	465.7	445.7	424.9	394.5
17.5°	547.3	543.3	533.7	512.9	499.3	489.7	488.9	473.7	464.9	447.3	413.7
20°	539.3	532.1	524.9	511.3	498.5	495.3	492.9	492.9	481.7	458.5	425.7
22.5°	525.7	517.7	513.7	505.7	495.3	494.5	496.1	494.5	485.7	470.5	438.5
25°	515.3	511.3	504.9	502.5	496.1	508.1	505.7	503.3	500.9	483.3	458.5
27.5°	518.5	517.7	512.9	503.3	498.5	511.3	518.5	519.3	518.5	500.9	476.9
30°	520.1	516.1	511.3	508.9	510.5	523.3	523.3	540.9	533.7	516.1	495.3
32.5°	538.5	536.1	520.1	514.5	515.3	530.5	531.3	548.9	546.5	534.5	511.3
35°	577.7	561.7	538.5	522.5	522.5	542.5	536.1	561.7	568.1	548.9	522.5
37.5°	636.1	624.1	582.5	546.5	532.9	547.3	553.7	568.1	587.3	570.5	544.9
40°	752.1	749.7	690.5	612.9	559.3	572.1	574.5	596.9	609.7	586.5	579.3
42.5°	921.7	909.7	854.5	732.1	607.3	601.7	610.5	624.9	655.3	636.1	618.5
45°	1087.4	1081.8	1026.6	889.7	694.5	660.9	656.1	681.7	726.5	705.7	692.1
47.5°	1207.4	1196.2	1165.0	1049.8	822.5	730.5	733.7	759.3	816.1	800.1	804.1
50°	1299.4	1293.8	1261.0	1197.8	984.1	840.1	833.7	859.3	936.1	946.5	957.7
52.5°	1400.2	1410.6	1366.6	1313.0	1175.4	987.3	972.9	981.7	1081.0	1105.0	1136.2
55°	1497.0	1513.8	1469.8	1462.6	1375.4	1150.6	1148.2	1127.4	1255.4	1258.6	1275.4
57.5°	1560.2	1554.6	1551.4	1590.6	1575.4	1337.8	1325.8	1305.0	1421.0	1400.2	1450.6
60°	1565.0	1581.0	1634.6	1731.5	1758.7	1557.8	1540.2	1483.4	1564.2	1514.6	1610.6
62.5°	1601.0	1613.8	1713.1	1846.7	1881.9	1751.5	1763.5	1619.4	1686.7	1647.4	1788.3
65°	1509.8	1549.8	1749.1	1936.3	2043.5	1947.5	1935.5	1794.7	1812.3	1775.5	1963.5
67.5°	1427.4	1442.6	1650.6	1963.5	2171.5	2144.3	2139.5	1949.9	1941.9	1873.9	2013.1
70°	1160.2	1178.6	1384.2	1824.3	2214.7	2374.0	2362.8	2167.5	2029.9	1820.3	1758.7
72.5°	664.9	701.7	959.3	1405.0	1989.9	2438.0	2448.4	2202.7	1925.9	1530.6	1174.6
75°	217.6	228.0	398.5	796.1	1488.2	2126.7	2108.3	1893.1	1553.8	1010.5	530.5
77.5°	73.6	75.2	117.6	288.0	824.9	1437.0	1447.4	1353.0	954.5	420.1	146.4
80°	37.6	40.0	57.6	108.0	339.3	782.5	799.3	771.3	400.1	124.0	35.2
82.5°	17.6	18.4	33.6	60.0	155.2	307.2	307.2	337.7	141.6	69.6	14.4
85°	6.4	6.4	17.6	34.4	65.6	102.4	103.2	104.0	74.4	52.0	6.4
87.5°	2.4	2.4	8.8	14.4	24.0	31.2	31.2	24.8	37.6	34.4	2.4
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°	335.2	335.2	335.2	335.2	335.2	335.2	335.2	335.2	335.2	335.2	335.2
2.5°	336.8	332.0	328.0	322.4	315.2	311.2	312.0	307.2	307.2	304.8	304.0
5°	336.8	332.0	321.6	312.0	305.6	297.6	293.6	290.4	290.4	288.8	289.6
7.5°	339.3	332.0	317.6	304.8	294.4	286.4	280.0	279.2	277.6	273.6	276.8
10°	353.7	343.3	319.2	301.6	289.6	280.8	269.6	266.4	261.6	254.4	255.2
12.5°	365.7	352.1	330.4	306.4	291.2	276.8	251.2	223.2	211.2	198.4	199.2
15°	383.3	364.1	334.4	312.8	291.2	244.8	198.4	162.4	143.2	133.6	133.6
17.5°	392.9	376.9	345.7	316.8	268.0	199.2	140.8	109.6	106.4	108.0	108.0
20°	412.9	391.3	358.5	320.0	229.6	141.6	103.2	100.0	101.6	104.8	104.0
22.5°	425.7	404.1	368.1	305.6	177.6	101.6	96.8	95.2	96.8	100.8	100.8
25°	436.1	422.5	383.3	270.4	125.6	92.0	90.4	92.0	93.6	95.2	97.6
27.5°	461.7	438.5	393.7	224.8	90.4	85.6	87.2	88.0	88.0	90.4	91.2
30°	478.5	460.1	401.7	173.6	80.0	79.2	80.8	81.6	82.4	84.8	85.6
32.5°	494.5	488.1	391.3	117.6	75.2	73.6	72.8	73.6	76.8	79.2	78.4
35°	517.7	513.7	376.1	81.6	70.4	67.2	65.6	66.4	68.8	71.2	70.4
37.5°	545.7	549.7	339.3	71.2	65.6	61.6	58.4	58.4	59.2	61.6	62.4
40°	578.5	588.9	296.0	66.4	62.4	57.6	54.4	50.4	49.6	48.8	49.6
42.5°	638.5	650.5	247.2	63.2	57.6	52.0	47.2	42.4	38.4	36.0	36.0
45°	722.5	712.9	183.2	60.0	55.2	47.2	40.0	34.4	28.8	26.4	26.4
47.5°	838.5	805.7	125.6	56.8	51.2	41.6	33.6	26.4	21.6	19.2	19.2
50°	999.3	891.3	81.6	53.6	48.8	36.0	27.2	19.2	16.0	15.2	16.0
52.5°	1151.4	978.5	64.8	49.6	44.0	31.2	20.8	16.0	14.4	13.6	13.6
55°	1291.4	1022.6	57.6	45.6	40.0	25.6	17.6	13.6	12.8	12.0	12.0
57.5°	1409.8	1037.8	49.6	40.0	32.0	20.0	14.4	12.0	10.4	9.6	9.6
60°	1512.2	1041.8	38.4	32.0	23.2	15.2	12.0	10.4	8.8	7.2	7.2
62.5°	1593.8	1013.8	27.2	22.4	16.0	12.0	10.4	7.2	4.8	3.2	2.4
65°	1658.6	957.7	18.4	15.2	10.4	8.8	6.4	3.2	0.8	0.0	0.0
67.5°	1582.6	830.5	14.4	11.2	7.2	5.6	3.2	0.8	0.0	0.0	0.0
70°	1290.6	644.1	10.4	7.2	4.8	1.6	0.8	0.0	0.0	0.0	0.0
72.5°	878.5	415.3	8.0	4.8	2.4	0.8	0.0	0.0	0.0	0.0	0.0
75°	394.5	148.8	5.6	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	96.0	35.2	4.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	25.6	8.8	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	9.6	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	0.8	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)