

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: P676789

Luminaire Tested: **CCW-SA-2A-850-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676789
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-850-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) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

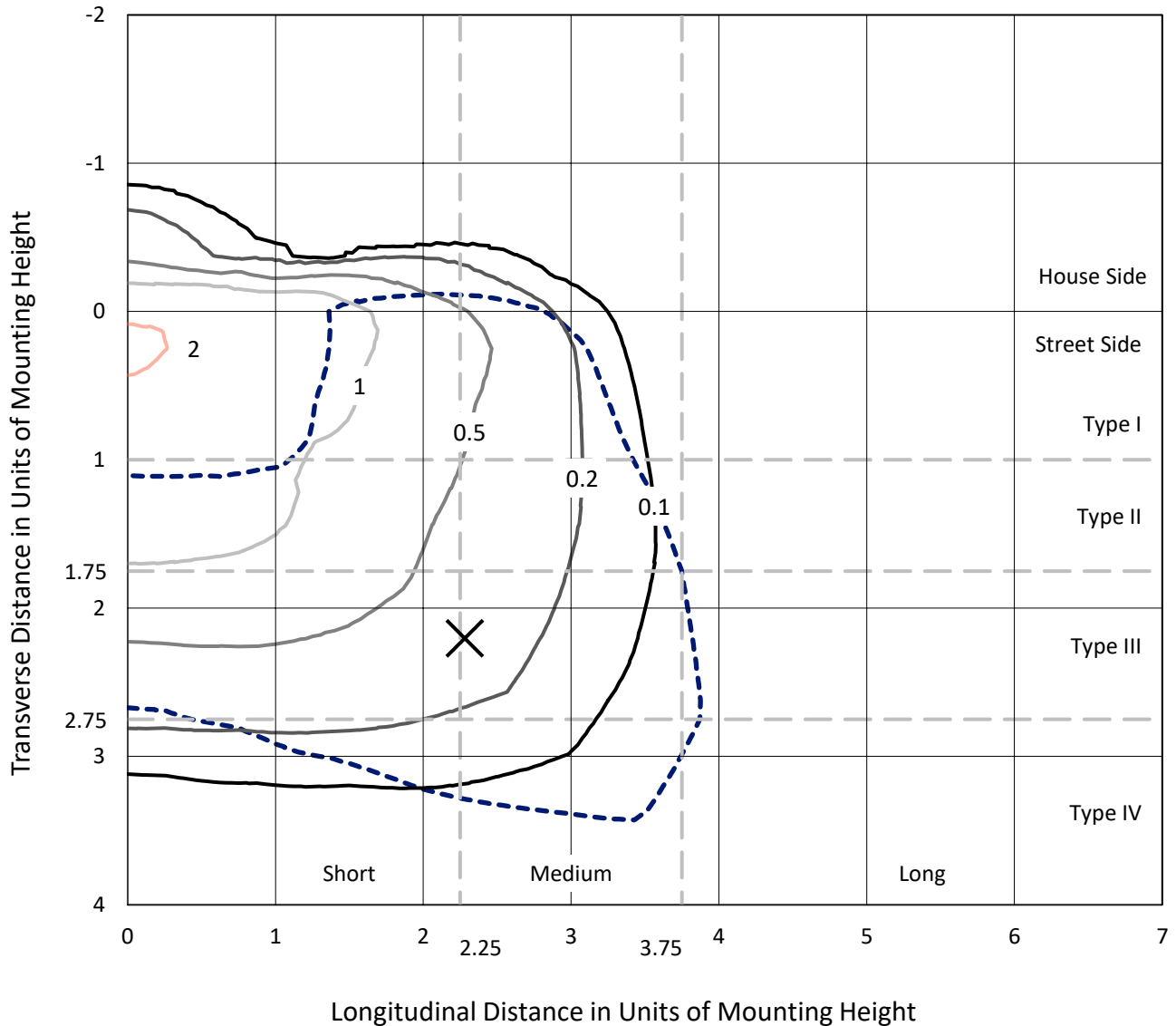
Lumens per Lamp: N/A
Luminaire Lumens: 3444.7 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G1

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

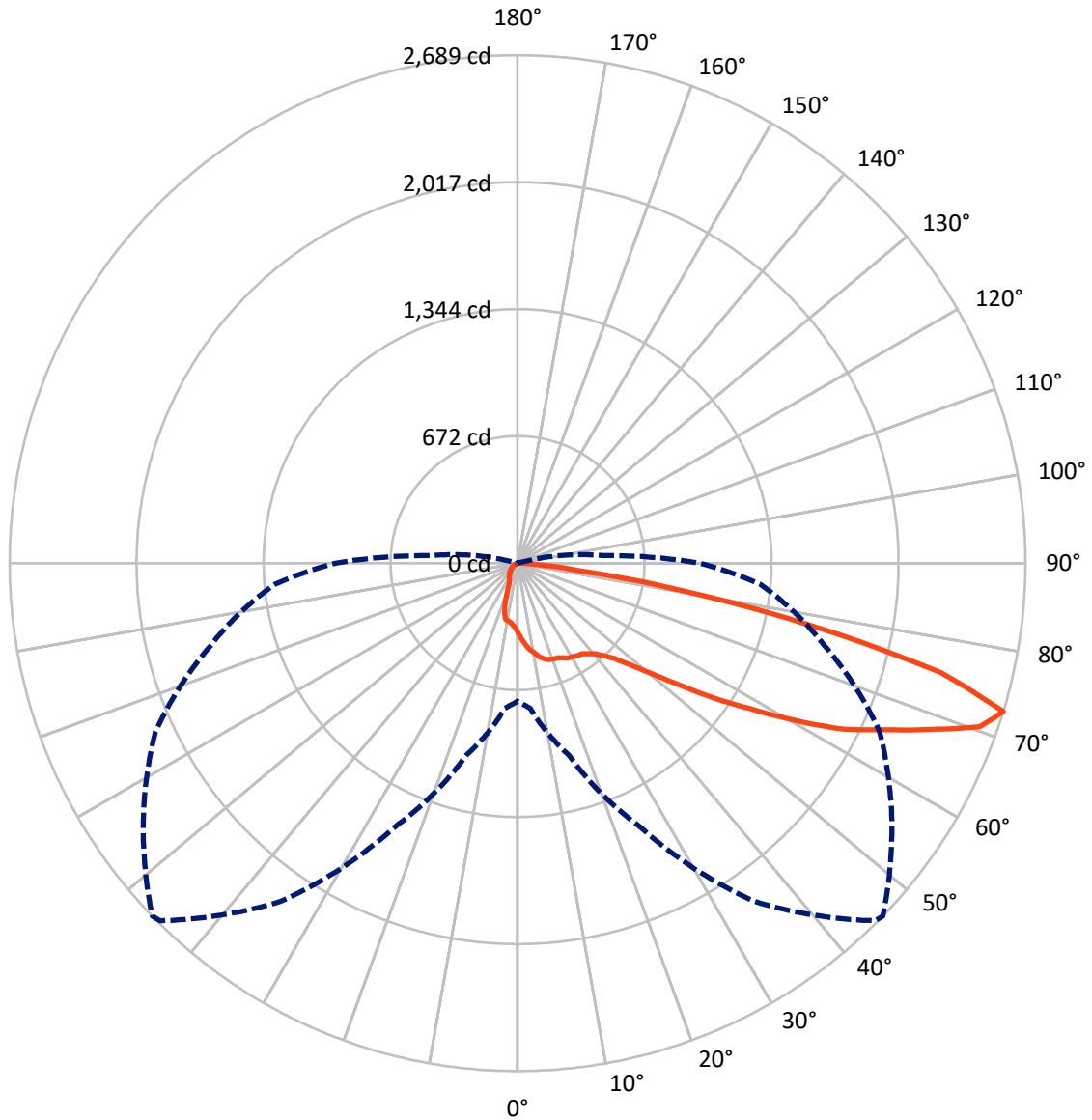
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.4 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	370.9	0.0	370.9
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	3073.9	0.0	3073.9
	% Fixture	89.2	0.0	89.2
Total	Lumens	3444.7	0.0	3444.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.9	1.1
10°-20°	111.2	3.2
20°-30°	174.2	5.1
30°-40°	243.9	7.1
40°-50°	402.2	11.7
50°-60°	722.9	21.0
60°-70°	1047.8	30.4
70°-80°	653.9	19.0
80°-90°	51.8	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°	3444.7	100.0
0°-180°	3444.7	100.0

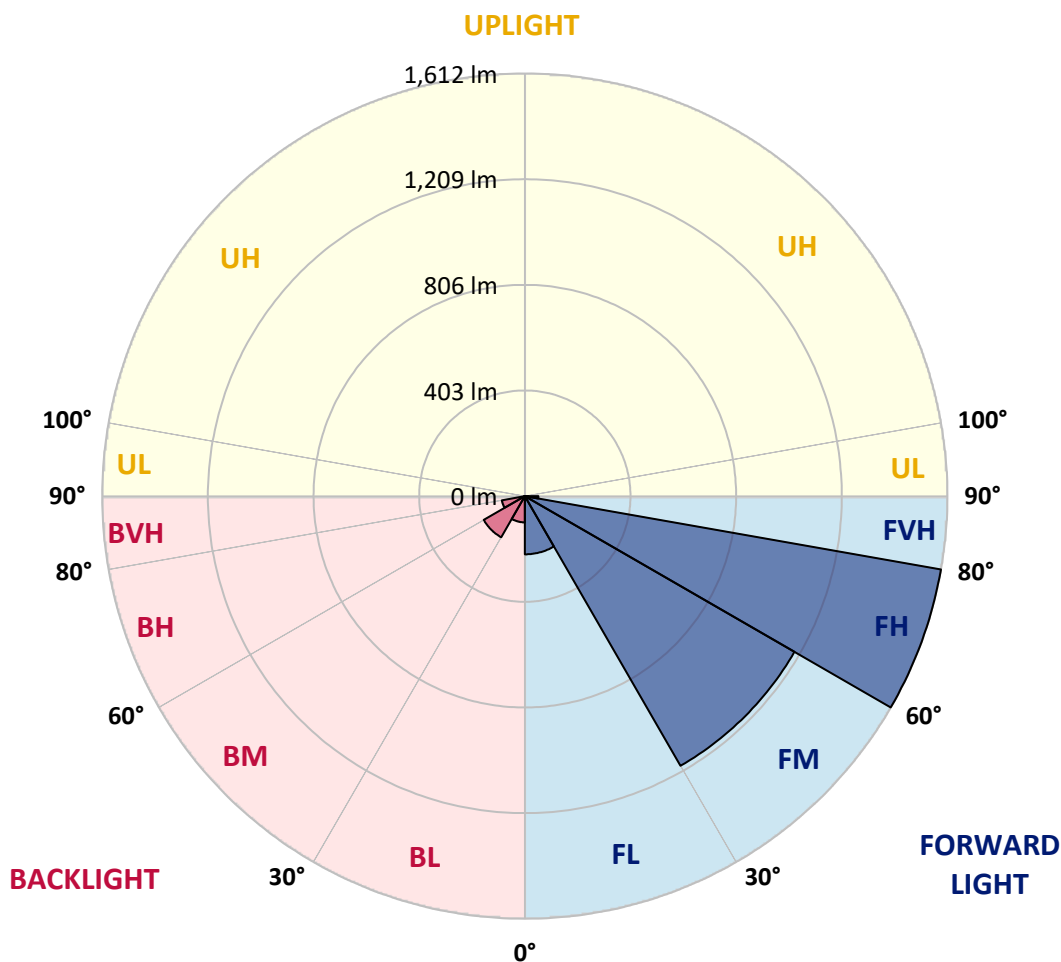


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	222.0	6.4			
FM (30°-60°)	1187.8	34.5			
FH (60°-80°)	1612.5	46.8			G1/1800
FVH (80°-90°)	51.6	1.5			G1/100
BL (0°-30°)	100.2	2.9	B0/110		
BM (30°-60°)	181.2	5.3	B0/220		
BH (60°-80°)	89.2	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°	368.2	368.2	368.2	368.2	368.2	368.2	368.2	368.2	368.2	368.2	368.2
2.5°	412.1	410.3	413.0	412.1	401.5	403.3	402.4	395.4	383.1	376.1	371.7
5°	459.5	463.9	460.4	452.5	446.4	434.1	432.3	420.9	401.5	389.2	376.1
7.5°	508.7	508.7	501.7	489.4	476.2	463.1	461.3	442.0	425.3	404.2	385.7
10°	545.6	541.3	536.0	522.8	507.9	490.3	481.5	467.4	449.0	423.5	399.8
12.5°	578.2	571.1	562.3	543.0	525.4	506.1	507.9	485.0	472.7	449.9	414.7
15°	596.6	590.5	582.6	565.0	537.7	529.0	525.4	511.4	489.4	466.6	433.2
17.5°	601.0	596.6	586.1	563.2	548.3	537.7	536.9	520.2	510.5	491.2	454.3
20°	592.2	584.3	576.4	561.5	547.4	543.9	541.3	541.3	529.0	503.5	467.4
22.5°	577.3	568.5	564.1	555.3	543.9	543.0	544.8	543.0	533.3	516.7	481.5
25°	565.9	561.5	554.4	551.8	544.8	557.9	555.3	552.7	550.0	530.7	503.5
27.5°	569.4	568.5	563.2	552.7	547.4	561.5	569.4	570.3	569.4	550.0	523.7
30°	571.1	566.7	561.5	558.8	560.6	574.6	574.6	594.0	586.1	566.7	543.9
32.5°	591.3	588.7	571.1	565.0	565.9	582.6	583.4	602.8	600.1	586.9	561.5
35°	634.4	616.8	591.3	573.8	573.8	595.7	588.7	616.8	623.8	602.8	573.8
37.5°	698.5	685.4	639.7	600.1	585.2	601.0	608.0	623.8	644.9	626.5	598.4
40°	825.9	823.3	758.3	673.1	614.2	628.2	630.9	655.5	669.5	644.1	636.2
42.5°	1012.2	999.0	938.4	804.0	666.9	660.8	670.4	686.2	719.6	698.5	679.2
45°	1194.1	1187.9	1127.3	977.1	762.7	725.8	720.5	748.6	797.8	775.0	760.0
47.5°	1325.9	1313.6	1279.3	1152.8	903.3	802.2	805.7	833.8	896.2	878.7	883.1
50°	1426.9	1420.8	1384.8	1315.4	1080.8	922.6	915.6	943.7	1028.0	1039.5	1051.8
52.5°	1537.7	1549.1	1500.8	1441.9	1290.8	1084.3	1068.5	1078.1	1187.1	1213.4	1247.7
55°	1644.0	1662.4	1614.1	1606.2	1510.4	1263.5	1260.9	1238.0	1378.6	1382.1	1400.6
57.5°	1713.4	1707.2	1703.7	1746.8	1730.1	1469.1	1455.9	1433.1	1560.5	1537.7	1593.0
60°	1718.7	1736.2	1795.1	1901.4	1931.3	1710.8	1691.4	1629.0	1717.8	1663.3	1768.7
62.5°	1758.2	1772.3	1881.2	2027.9	2066.6	1923.4	1936.6	1778.4	1852.2	1809.2	1963.8
65°	1658.0	1702.0	1920.8	2126.4	2244.1	2138.7	2125.5	1970.8	1990.2	1949.7	2156.2
67.5°	1567.5	1584.2	1812.7	2156.2	2384.7	2354.8	2349.5	2141.3	2132.5	2057.8	2210.7
70°	1274.1	1294.3	1520.1	2003.3	2432.1	2607.0	2594.7	2380.3	2229.2	1999.0	1931.3
72.5°	730.2	770.6	1053.5	1542.9	2185.2	2677.3	2688.7	2419.0	2114.9	1680.9	1289.9
75°	239.0	250.4	437.6	874.3	1634.3	2335.5	2315.3	2078.9	1706.4	1109.7	582.6
77.5°	80.8	82.6	129.2	316.3	905.9	1578.1	1589.5	1485.8	1048.2	461.3	160.8
80°	41.3	43.9	63.3	118.6	372.6	859.3	877.8	847.0	439.3	136.2	38.7
82.5°	19.3	20.2	36.9	65.9	170.5	337.4	337.4	370.8	155.5	76.4	15.8
85°	7.0	7.0	19.3	37.8	72.1	112.5	113.3	114.2	81.7	57.1	7.0
87.5°	2.6	2.6	9.7	15.8	26.4	34.3	34.3	27.2	41.3	37.8	2.6
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°	368.2	368.2	368.2	368.2	368.2	368.2	368.2	368.2	368.2	368.2	368.2
2.5°	369.9	364.6	360.3	354.1	346.2	341.8	342.7	337.4	337.4	334.8	333.9
5°	369.9	364.6	353.2	342.7	335.6	326.9	322.5	319.0	319.0	317.2	318.1
7.5°	372.6	364.6	348.8	334.8	323.3	314.6	307.5	306.7	304.9	300.5	304.0
10°	388.4	376.9	350.6	331.3	318.1	308.4	296.1	292.6	287.3	279.4	280.3
12.5°	401.5	386.6	362.9	336.5	319.8	304.0	275.9	245.1	232.0	217.9	218.8
15°	420.9	399.8	367.3	343.6	319.8	268.9	217.9	178.4	157.3	146.7	146.7
17.5°	431.4	413.8	379.6	347.9	294.4	218.8	154.6	120.4	116.9	118.6	118.6
20°	453.4	429.7	393.6	351.5	252.2	155.5	113.3	109.8	111.6	115.1	114.2
22.5°	467.4	443.7	404.2	335.6	195.1	111.6	106.3	104.6	106.3	110.7	110.7
25°	478.9	463.9	420.9	297.0	137.9	101.0	99.3	101.0	102.8	104.6	107.2
27.5°	507.0	481.5	432.3	246.9	99.3	94.0	95.8	96.7	96.7	99.3	100.2
30°	525.4	505.2	441.1	190.7	87.9	87.0	88.7	89.6	90.5	93.1	94.0
32.5°	543.0	536.0	429.7	129.2	82.6	80.8	80.0	80.8	84.4	87.0	86.1
35°	568.5	564.1	413.0	89.6	77.3	73.8	72.1	72.9	75.6	78.2	77.3
37.5°	599.2	603.6	372.6	78.2	72.1	67.7	64.1	64.1	65.0	67.7	68.5
40°	635.3	646.7	325.1	72.9	68.5	63.3	59.7	55.4	54.5	53.6	54.5
42.5°	701.2	714.4	271.5	69.4	63.3	57.1	51.8	46.6	42.2	39.5	39.5
45°	793.4	782.9	201.2	65.9	60.6	51.8	43.9	37.8	31.6	29.0	29.0
47.5°	920.8	884.8	137.9	62.4	56.2	45.7	36.9	29.0	23.7	21.1	21.1
50°	1097.4	978.8	89.6	58.9	53.6	39.5	29.9	21.1	17.6	16.7	17.6
52.5°	1264.4	1074.6	71.2	54.5	48.3	34.3	22.8	17.6	15.8	14.9	14.9
55°	1418.2	1122.9	63.3	50.1	43.9	28.1	19.3	14.9	14.1	13.2	13.2
57.5°	1548.2	1139.6	54.5	43.9	35.1	22.0	15.8	13.2	11.4	10.5	10.5
60°	1660.7	1144.0	42.2	35.1	25.5	16.7	13.2	11.4	9.7	7.9	7.9
62.5°	1750.3	1113.3	29.9	24.6	17.6	13.2	11.4	7.9	5.3	3.5	2.6
65°	1821.5	1051.8	20.2	16.7	11.4	9.7	7.0	3.5	0.9	0.0	0.0
67.5°	1738.0	912.0	15.8	12.3	7.9	6.2	3.5	0.9	0.0	0.0	0.0
70°	1417.3	707.3	11.4	7.9	5.3	1.8	0.9	0.0	0.0	0.0	0.0
72.5°	964.8	456.0	8.8	5.3	2.6	0.9	0.0	0.0	0.0	0.0	0.0
75°	433.2	163.4	6.2	3.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	105.4	38.7	4.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	28.1	9.7	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.5	3.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	0.9	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)