

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: P676743

Luminaire Tested: **CCW-SA-1E-827-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676743
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-827-U-T4W-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
T4W distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

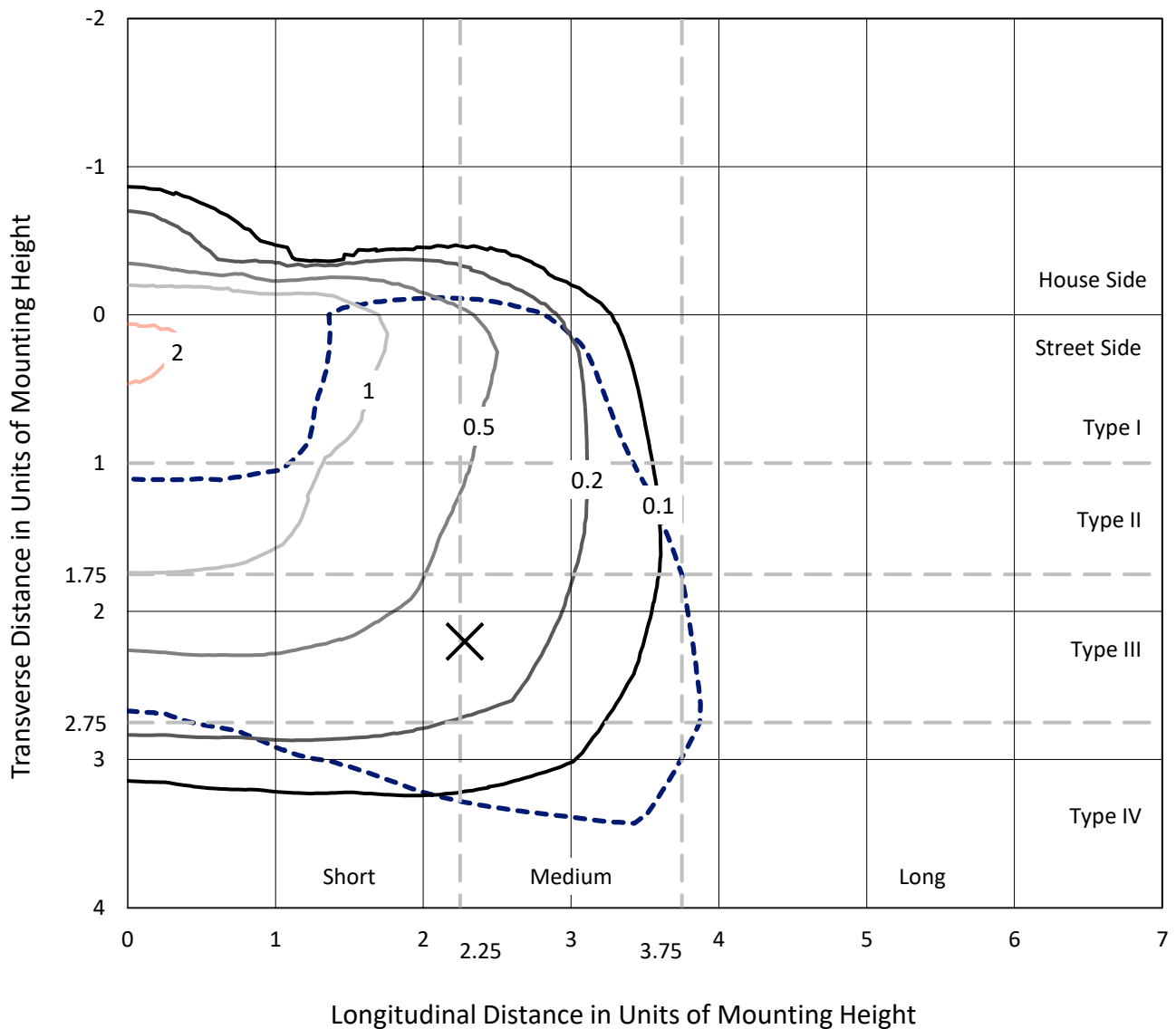
Lumens per Lamp: N/A
Luminaire Lumens: 3626.1 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G1

Input Watts (W): 56.1
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

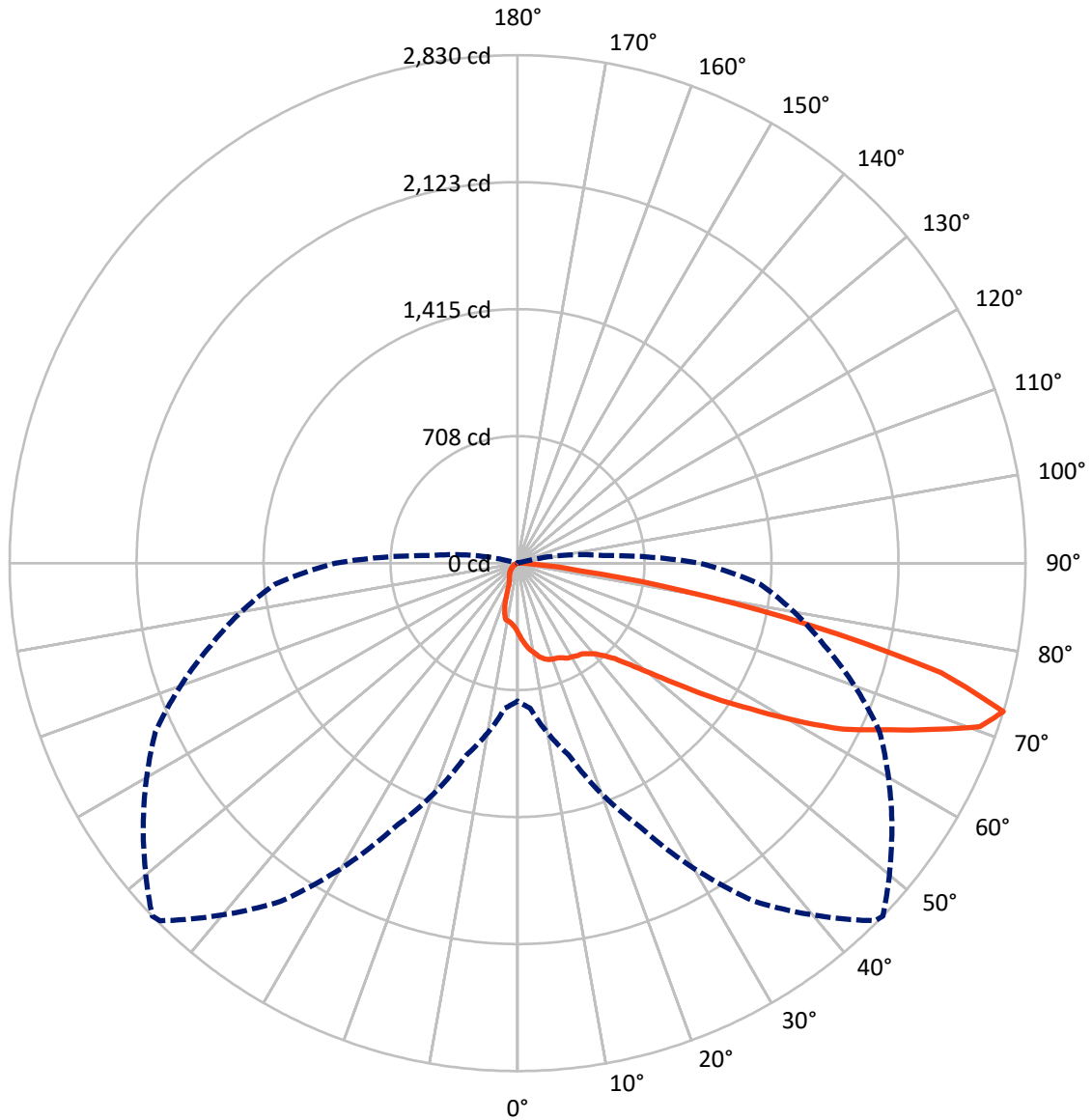
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.5 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	390.4	0.0	390.4
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	3235.7	0.0	3235.7
	% Fixture	89.2	0.0	89.2
Total	Lumens	3626.1	0.0	3626.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.8	1.1
10°-20°	117.1	3.2
20°-30°	183.3	5.1
30°-40°	256.7	7.1
40°-50°	423.4	11.7
50°-60°	760.9	21.0
60°-70°	1102.9	30.4
70°-80°	688.3	19.0
80°-90°	54.6	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°	3626.1	100.0
0°-180°	3626.1	100.0



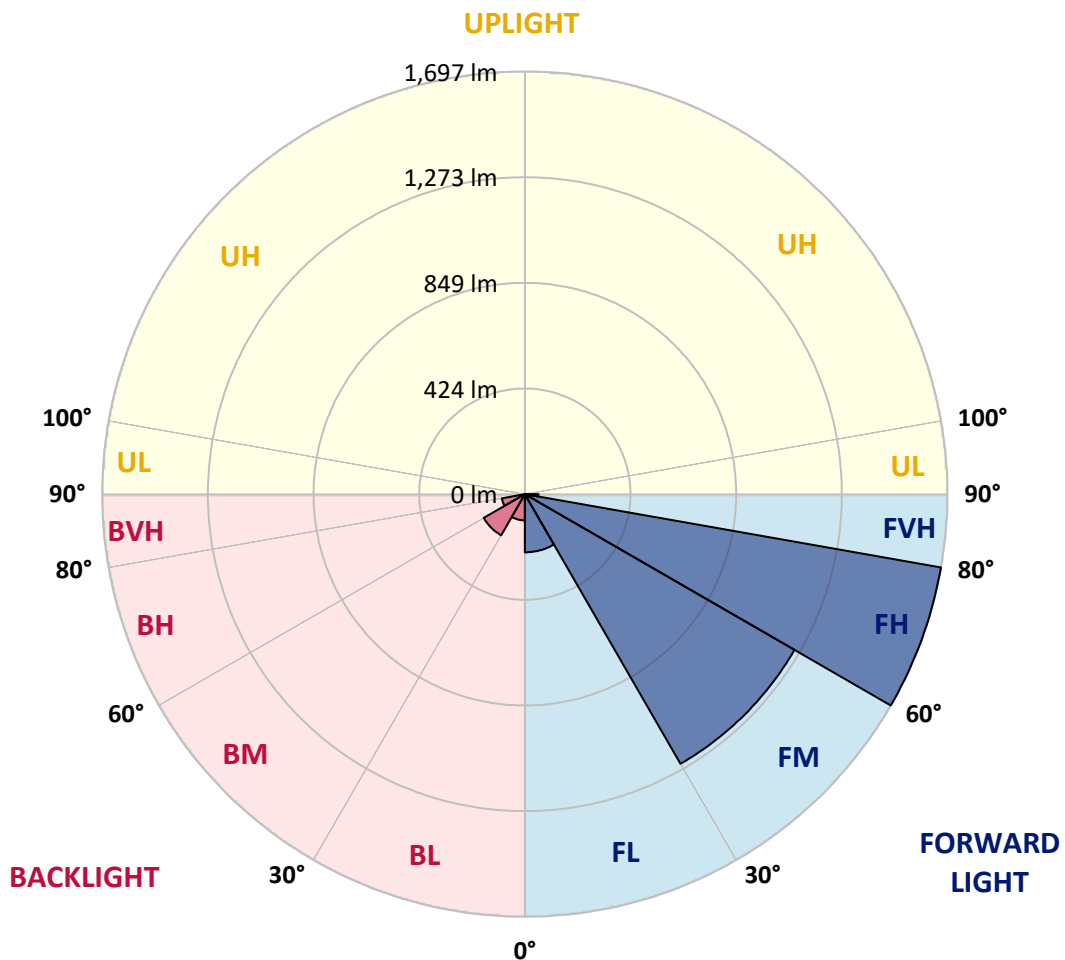
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	233.7	6.4			
FM (30°-60°)	1250.4	34.5			
FH (60°-80°)	1697.4	46.8			G1/1800
FVH (80°-90°)	54.3	1.5			G1/100
BL (0°-30°)	105.5	2.9	B0/110		
BM (30°-60°)	190.7	5.3	B0/220		
BH (60°-80°)	93.9	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°	387.5	387.5	387.5	387.5	387.5	387.5	387.5	387.5	387.5	387.5	387.5
2.5°	433.8	431.9	434.7	433.8	422.7	424.5	423.6	416.2	403.3	395.9	391.2
5°	483.7	488.4	484.7	476.3	469.9	456.9	455.1	443.0	422.7	409.7	395.9
7.5°	535.5	535.5	528.1	515.2	501.3	487.4	485.6	465.2	447.7	425.5	406.0
10°	574.4	569.7	564.2	550.3	534.6	516.1	506.9	492.1	472.6	445.8	420.8
12.5°	608.6	601.2	591.9	571.6	553.1	532.8	534.6	510.6	497.6	473.6	436.6
15°	628.0	621.5	613.2	594.7	566.0	556.8	553.1	538.3	515.2	491.1	456.0
17.5°	632.6	628.0	616.9	592.9	577.1	566.0	565.1	547.6	537.4	517.0	478.2
20°	623.4	615.1	606.7	591.0	576.2	572.5	569.7	569.7	556.8	530.0	492.1
22.5°	607.7	598.4	593.8	584.5	572.5	571.6	573.4	571.6	561.4	543.9	506.9
25°	595.6	591.0	583.6	580.8	573.4	587.3	584.5	581.8	579.0	558.7	530.0
27.5°	599.3	598.4	592.9	581.8	576.2	591.0	599.3	600.3	599.3	579.0	551.3
30°	601.2	596.6	591.0	588.2	590.1	604.9	604.9	625.2	616.9	596.6	572.5
32.5°	622.5	619.7	601.2	594.7	595.6	613.2	614.1	634.5	631.7	617.8	591.0
35°	667.8	649.3	622.5	604.0	604.0	627.1	619.7	649.3	656.7	634.5	604.0
37.5°	735.3	721.4	673.3	631.7	616.0	632.6	640.0	656.7	678.9	659.5	629.9
40°	869.4	866.6	798.2	708.5	646.5	661.3	664.1	690.0	704.8	678.0	669.6
42.5°	1065.5	1051.6	987.8	846.3	702.0	695.5	705.7	722.4	757.5	735.3	715.0
45°	1257.0	1250.5	1186.7	1028.5	802.8	764.0	758.4	788.0	839.8	815.8	800.1
47.5°	1395.7	1382.8	1346.7	1213.5	950.8	844.4	848.1	877.7	943.4	924.9	929.5
50°	1502.1	1495.6	1457.7	1384.6	1137.6	971.2	963.8	993.4	1082.2	1094.2	1107.1
52.5°	1618.6	1630.6	1579.8	1517.8	1358.7	1141.3	1124.7	1134.9	1249.6	1277.3	1313.4
55°	1730.5	1749.9	1699.1	1690.7	1589.9	1330.0	1327.3	1303.2	1451.2	1454.9	1474.3
57.5°	1803.6	1797.1	1793.4	1838.7	1821.2	1546.5	1532.6	1508.5	1642.7	1618.6	1676.9
60°	1809.1	1827.6	1889.6	2001.5	2033.0	1800.8	1780.5	1714.8	1808.2	1750.9	1861.9
62.5°	1850.8	1865.6	1980.2	2134.7	2175.4	2024.6	2038.5	1872.0	1949.7	1904.4	2067.2
65°	1745.3	1791.6	2021.9	2238.3	2362.2	2251.2	2237.4	2074.6	2094.9	2052.4	2269.7
67.5°	1650.1	1667.6	1908.1	2269.7	2510.2	2478.8	2473.2	2254.0	2244.8	2166.2	2327.1
70°	1341.1	1362.4	1600.1	2108.8	2560.2	2744.2	2731.3	2505.6	2346.5	2104.2	2033.0
72.5°	768.6	811.2	1109.0	1624.2	2300.3	2818.2	2830.2	2546.3	2226.3	1769.4	1357.8
75°	251.6	263.6	460.6	920.3	1720.3	2458.4	2437.2	2188.4	1796.2	1168.2	613.2
77.5°	85.1	86.9	136.0	333.0	953.6	1661.2	1673.2	1564.0	1103.4	485.6	169.3
80°	43.5	46.2	66.6	124.9	392.2	904.6	924.0	891.6	462.5	143.4	40.7
82.5°	20.3	21.3	38.8	69.4	179.4	355.2	355.2	390.3	163.7	80.5	16.6
85°	7.4	7.4	20.3	39.8	75.8	118.4	119.3	120.2	86.0	60.1	7.4
87.5°	2.8	2.8	10.2	16.6	27.7	36.1	36.1	28.7	43.5	39.8	2.8
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°	387.5	387.5	387.5	387.5	387.5	387.5	387.5	387.5	387.5	387.5	387.5
2.5°	389.4	383.8	379.2	372.7	364.4	359.8	360.7	355.2	355.2	352.4	351.5
5°	389.4	383.8	371.8	360.7	353.3	344.1	339.4	335.7	335.7	333.9	334.8
7.5°	392.2	383.8	367.2	352.4	340.4	331.1	323.7	322.8	320.9	316.3	320.0
10°	408.8	396.8	369.0	348.7	334.8	324.6	311.7	308.0	302.4	294.1	295.0
12.5°	422.7	407.0	382.0	354.2	336.7	320.0	290.4	258.1	244.2	229.4	230.3
15°	443.0	420.8	386.6	361.6	336.7	283.0	229.4	187.8	165.6	154.5	154.5
17.5°	454.1	435.6	399.6	366.3	309.8	230.3	162.8	126.7	123.0	124.9	124.9
20°	477.3	452.3	414.4	370.0	265.5	163.7	119.3	115.6	117.5	121.2	120.2
22.5°	492.1	467.1	425.5	353.3	205.3	117.5	111.9	110.1	111.9	116.5	116.5
25°	504.1	488.4	443.0	312.6	145.2	106.4	104.5	106.4	108.2	110.1	112.8
27.5°	533.7	506.9	455.1	259.9	104.5	99.0	100.8	101.7	101.7	104.5	105.4
30°	553.1	531.8	464.3	200.7	92.5	91.6	93.4	94.3	95.3	98.0	99.0
32.5°	571.6	564.2	452.3	136.0	86.9	85.1	84.2	85.1	88.8	91.6	90.6
35°	598.4	593.8	434.7	94.3	81.4	77.7	75.8	76.8	79.5	82.3	81.4
37.5°	630.8	635.4	392.2	82.3	75.8	71.2	67.5	67.5	68.4	71.2	72.1
40°	668.7	680.7	342.2	76.8	72.1	66.6	62.9	58.3	57.3	56.4	57.3
42.5°	738.1	752.0	285.8	73.1	66.6	60.1	54.6	49.0	44.4	41.6	41.6
45°	835.2	824.1	211.8	69.4	63.8	54.6	46.2	39.8	33.3	30.5	30.5
47.5°	969.3	931.4	145.2	65.7	59.2	48.1	38.8	30.5	25.0	22.2	22.2
50°	1155.2	1030.4	94.3	62.0	56.4	41.6	31.4	22.2	18.5	17.6	18.5
52.5°	1331.0	1131.2	74.9	57.3	50.9	36.1	24.0	18.5	16.6	15.7	15.7
55°	1492.8	1182.0	66.6	52.7	46.2	29.6	20.3	15.7	14.8	13.9	13.9
57.5°	1629.7	1199.6	57.3	46.2	37.0	23.1	16.6	13.9	12.0	11.1	11.1
60°	1748.1	1204.2	44.4	37.0	26.8	17.6	13.9	12.0	10.2	8.3	8.3
62.5°	1842.4	1171.9	31.4	25.9	18.5	13.9	12.0	8.3	5.5	3.7	2.8
65°	1917.4	1107.1	21.3	17.6	12.0	10.2	7.4	3.7	0.9	0.0	0.0
67.5°	1829.5	960.1	16.6	12.9	8.3	6.5	3.7	0.9	0.0	0.0	0.0
70°	1491.9	744.6	12.0	8.3	5.5	1.8	0.9	0.0	0.0	0.0	0.0
72.5°	1015.6	480.0	9.2	5.5	2.8	0.9	0.0	0.0	0.0	0.0	0.0
75°	456.0	172.0	6.5	3.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	111.0	40.7	4.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	29.6	10.2	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	11.1	3.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.6	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)