

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: P676533

Luminaire Tested: **CCW-SA-1E-727-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676533
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-727-U-T4FT-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
T4FT distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

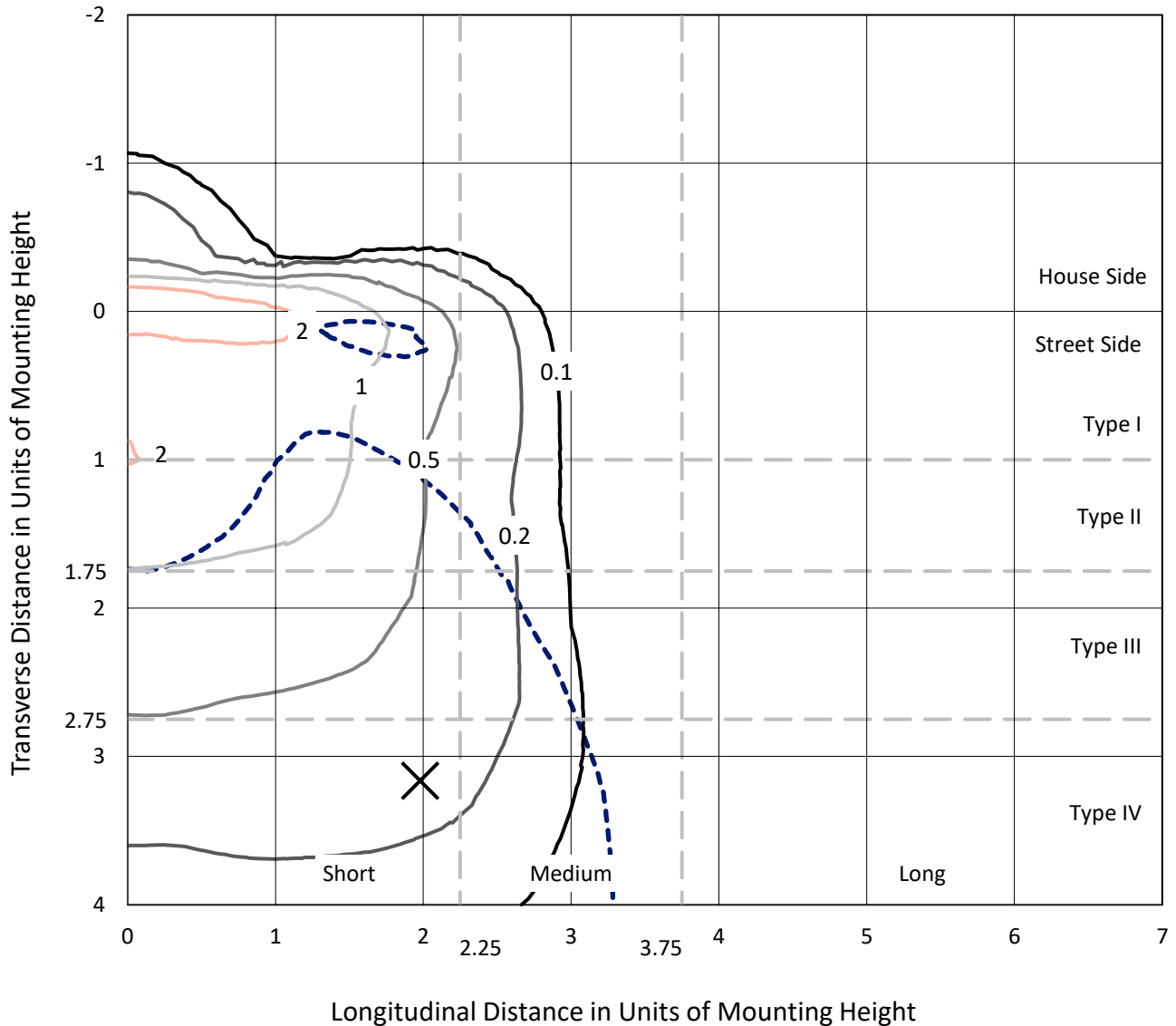
Lumens per Lamp: N/A
Luminaire Lumens: 4105.7 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

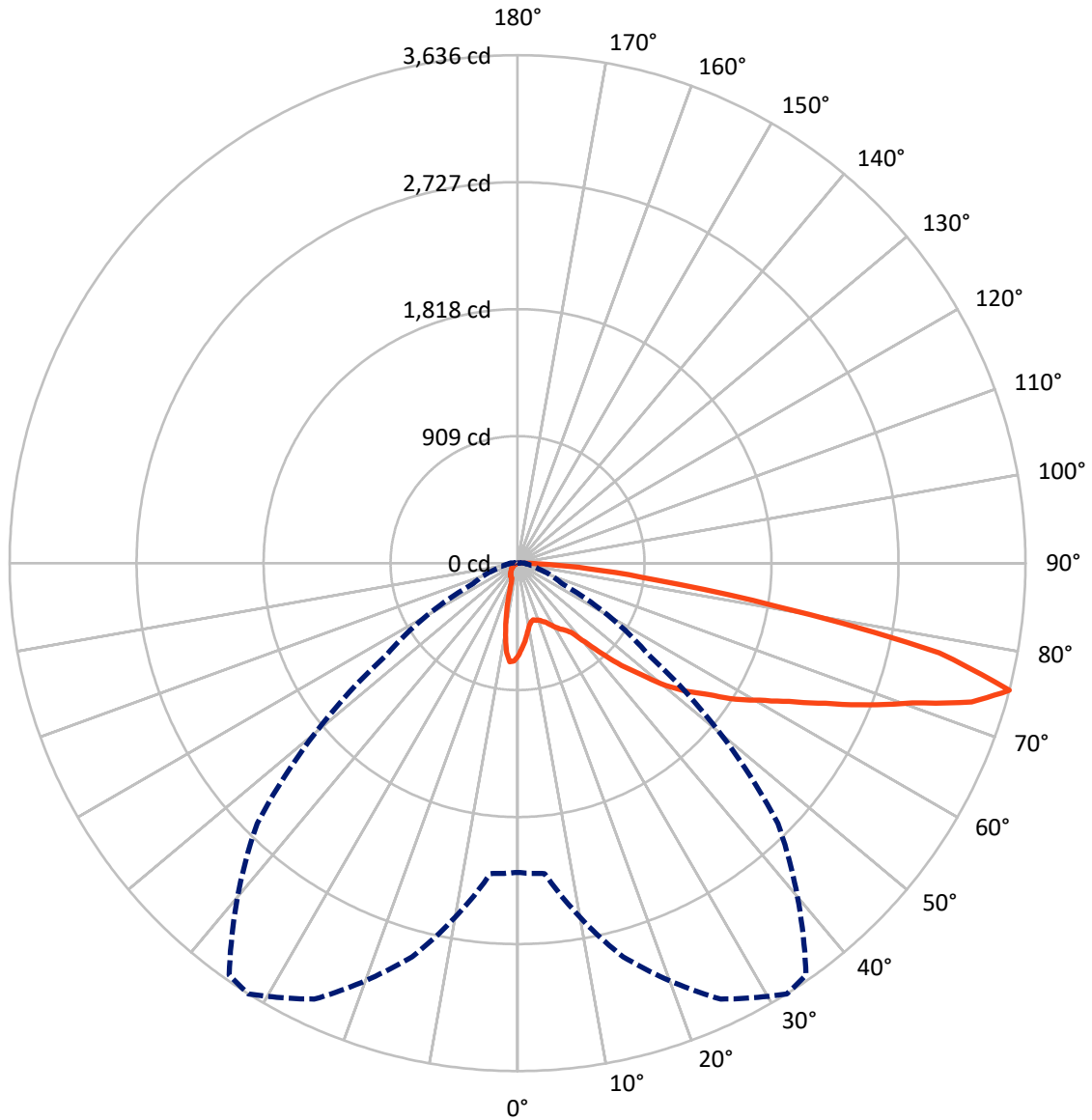
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	443.6	0.0	443.6
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	3662.1	0.0	3662.1
	% Fixture	89.2	0.0	89.2
Total	Lumens	4105.7	0.0	4105.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.3	1.4
10°-20°	132.3	3.2
20°-30°	198.0	4.8
30°-40°	304.0	7.4
40°-50°	531.6	12.9
50°-60°	830.9	20.2
60°-70°	1074.3	26.2
70°-80°	875.0	21.3
80°-90°	101.3	2.5
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°	4105.7	100.0
0°-180°	4105.7	100.0



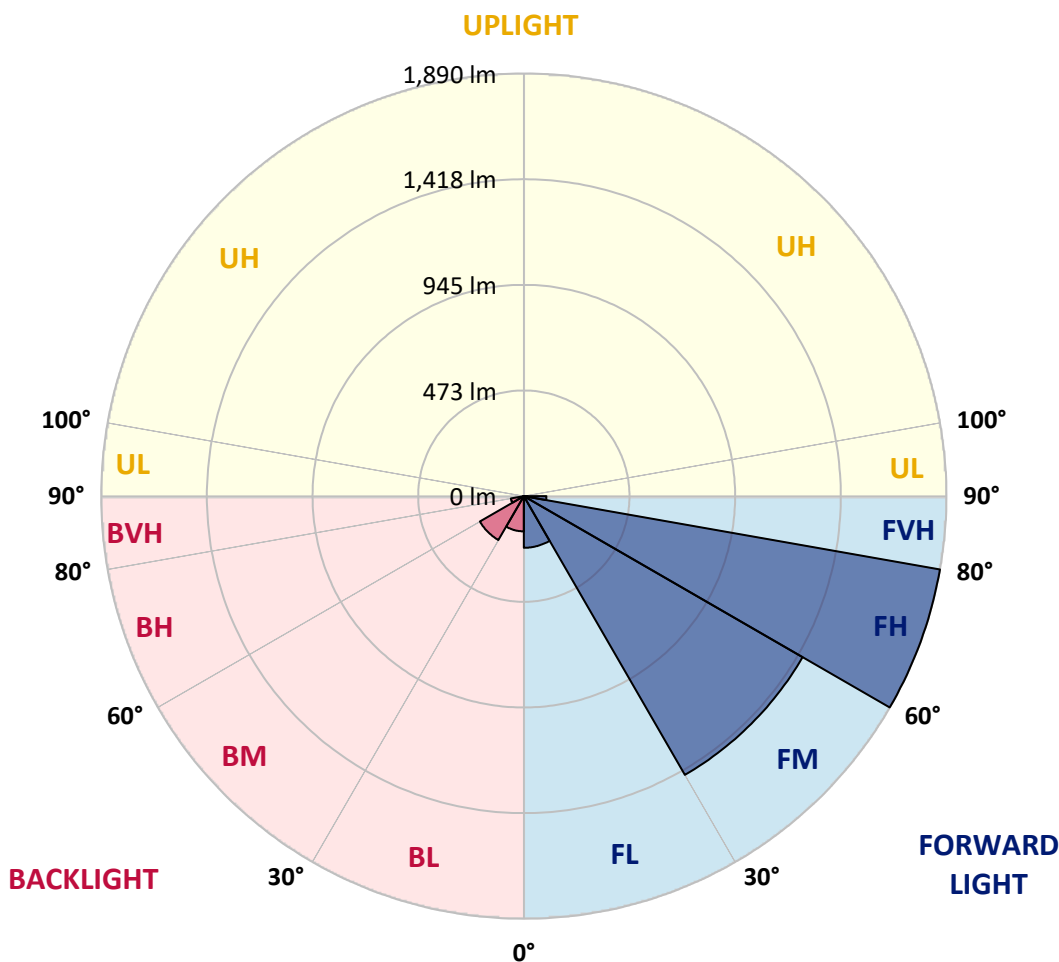
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	231.0	5.6			
FM (30°-60°)	1439.6	35.1			
FH (60°-80°)	1890.3	46.0			G2/5000
FVH (80°-90°)	101.2	2.5			G2/225
BL (0°-30°)	157.6	3.8	B1/500		
BM (30°-60°)	226.9	5.5	B1/1000		
BH (60°-80°)	59.0	1.4	B0/110		G0/110
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	662.9	662.9	662.9	662.9	662.9	662.9	662.9	662.9	662.9	662.9	662.9
2.5°	594.5	603.0	601.9	607.2	608.2	611.4	618.7	618.7	639.8	654.5	664.0
5°	540.9	535.6	537.7	544.0	559.8	558.8	576.6	586.1	611.4	632.4	654.5
7.5°	474.6	473.5	477.7	492.5	504.0	513.5	532.5	556.7	590.3	621.9	660.8
10°	432.5	430.4	438.8	443.0	456.7	463.0	492.5	530.3	570.3	615.6	660.8
12.5°	423.0	415.7	419.9	418.8	431.4	434.6	463.0	509.3	557.7	613.5	669.3
15°	428.3	423.0	418.8	418.8	422.0	424.1	454.6	495.6	550.3	616.6	688.2
17.5°	445.1	442.0	429.3	416.7	430.4	430.4	449.3	492.5	551.4	626.1	711.3
20°	465.1	462.0	439.9	425.1	434.6	445.1	465.1	499.8	554.6	633.5	747.1
22.5°	487.2	487.2	456.7	439.9	452.5	453.5	489.3	523.0	567.2	652.4	770.3
25°	514.6	512.5	483.0	464.1	468.3	479.8	512.5	548.2	590.3	678.7	813.4
27.5°	550.3	547.2	512.5	493.5	498.8	511.4	548.2	584.0	611.4	689.2	850.2
30°	579.8	576.6	548.2	519.8	531.4	543.0	586.1	617.7	637.7	709.2	892.3
32.5°	586.1	580.9	561.9	549.3	561.9	584.0	617.7	650.3	680.8	759.7	972.3
35°	658.7	639.8	590.3	570.3	589.3	596.6	652.4	710.3	739.8	799.7	1061.8
37.5°	797.6	779.7	714.5	658.7	632.4	640.8	713.4	785.0	813.4	874.4	1159.6
40°	968.1	938.6	869.2	794.5	740.8	730.3	777.6	882.9	910.2	968.1	1288.0
42.5°	1162.8	1134.4	1027.0	938.6	883.9	870.2	877.6	996.5	1019.7	1054.4	1372.2
45°	1302.7	1288.0	1167.0	1088.1	1044.9	1030.2	1012.3	1120.7	1150.1	1161.7	1494.2
47.5°	1383.7	1373.2	1305.9	1252.2	1194.3	1178.6	1190.1	1293.3	1273.3	1282.7	1611.0
50°	1492.1	1464.8	1373.2	1390.1	1378.5	1374.3	1394.3	1439.5	1410.1	1382.7	1738.4
52.5°	1579.5	1531.1	1466.9	1507.9	1525.8	1541.6	1612.1	1645.8	1514.2	1472.1	1820.4
55°	1633.1	1586.8	1603.7	1641.6	1660.5	1733.1	1816.2	1791.0	1582.6	1543.7	1929.9
57.5°	1681.5	1684.7	1729.9	1741.5	1838.3	1851.0	2010.9	1928.8	1631.0	1608.9	1973.0
60°	1798.3	1786.8	1823.6	1898.3	1990.9	2061.4	2214.0	2021.4	1655.2	1642.6	1961.5
62.5°	2008.8	1937.2	1949.9	2044.6	2180.3	2257.1	2330.8	2063.5	1648.9	1647.9	1926.7
65°	2276.1	2194.0	2156.1	2244.5	2420.2	2528.6	2462.3	2110.9	1606.8	1636.3	1797.3
67.5°	2498.1	2499.2	2428.7	2478.1	2707.5	2730.7	2586.5	2101.4	1536.3	1544.7	1481.6
70°	2753.8	2788.5	2726.5	2881.1	2995.8	3010.6	2728.6	2023.5	1384.8	1164.9	851.3
72.5°	2819.1	2836.9	3030.6	3268.4	3397.8	3402.0	2868.5	1763.6	911.3	514.6	264.1
75°	2214.0	2230.8	2916.9	3443.1	3635.6	3598.8	2634.9	1144.9	354.6	150.5	63.1
77.5°	1235.4	1240.6	1811.0	2783.3	3084.2	2935.9	1845.7	446.2	143.1	86.3	29.5
80°	337.8	396.7	671.4	1372.2	1883.6	1848.9	878.7	145.2	92.6	67.3	13.7
82.5°	81.0	87.3	215.7	607.2	995.5	1038.6	262.0	73.7	64.2	55.8	7.4
85°	29.5	32.6	66.3	295.7	511.4	469.3	78.9	36.8	47.4	43.1	3.2
87.5°	10.5	10.5	21.0	96.8	149.4	112.6	26.3	12.6	24.2	26.3	1.1
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°	662.9	662.9	662.9	662.9	662.9	662.9	662.9	662.9	662.9	662.9	662.9
2.5°	665.0	665.0	679.8	692.4	696.6	701.9	696.6	708.2	707.1	701.9	704.0
5°	666.1	685.0	697.7	706.1	710.3	709.2	711.3	698.7	691.3	686.1	680.8
7.5°	671.4	689.2	712.4	710.3	698.7	674.5	655.6	621.9	589.3	588.2	583.0
10°	689.2	705.0	718.7	710.3	668.2	594.5	534.6	489.3	448.3	429.3	431.4
12.5°	701.9	731.3	725.0	681.9	594.5	497.7	409.3	343.0	306.2	271.5	271.5
15°	728.2	738.7	736.6	640.8	504.0	388.3	281.0	213.6	174.7	158.9	156.8
17.5°	753.4	765.0	729.2	578.8	414.6	261.0	170.5	132.6	127.3	125.2	126.3
20°	785.0	786.1	722.9	516.7	311.5	165.2	122.1	118.9	120.0	118.9	118.9
22.5°	818.7	826.0	700.8	429.3	207.3	120.0	113.6	114.7	114.7	114.7	117.9
25°	862.9	851.3	666.1	346.2	135.7	110.5	110.5	111.5	111.5	111.5	112.6
27.5°	892.3	876.5	621.9	249.4	106.3	104.2	106.3	106.3	108.4	108.4	108.4
30°	953.4	912.3	566.1	161.0	95.8	98.9	101.0	103.1	104.2	106.3	107.3
32.5°	1000.7	943.9	496.7	107.3	87.3	89.4	94.7	98.9	103.1	102.1	102.1
35°	1087.0	995.5	432.5	85.2	80.0	80.0	85.2	92.6	98.9	101.0	101.0
37.5°	1185.9	1037.5	343.0	77.9	73.7	73.7	76.8	85.2	93.7	97.9	95.8
40°	1268.0	1086.0	253.6	72.6	68.4	68.4	70.5	76.8	86.3	93.7	94.7
42.5°	1325.9	1121.7	171.5	67.3	64.2	63.1	66.3	69.5	76.8	87.3	89.4
45°	1378.5	1140.7	106.3	62.1	60.0	60.0	60.0	63.1	68.4	77.9	80.0
47.5°	1472.1	1161.7	76.8	57.9	54.7	55.8	56.8	57.9	62.1	64.2	65.2
50°	1551.1	1177.5	63.1	53.7	51.6	52.6	52.6	52.6	54.7	51.6	51.6
52.5°	1611.0	1161.7	53.7	49.5	47.4	48.4	47.4	47.4	45.2	41.0	41.0
55°	1655.2	1133.3	43.1	45.2	45.2	45.2	43.1	40.0	35.8	32.6	32.6
57.5°	1666.8	1084.9	33.7	37.9	41.0	41.0	36.8	32.6	27.4	24.2	23.2
60°	1648.9	979.7	25.3	27.4	31.6	32.6	29.5	24.2	18.9	15.8	15.8
62.5°	1584.7	896.5	20.0	17.9	23.2	24.2	21.0	15.8	10.5	7.4	6.3
65°	1462.7	768.2	14.7	12.6	15.8	16.8	13.7	7.4	3.2	1.1	0.0
67.5°	1173.3	578.8	9.5	8.4	10.5	10.5	6.3	2.1	0.0	0.0	0.0
70°	649.3	325.2	6.3	4.2	5.3	3.2	1.1	0.0	0.0	0.0	0.0
72.5°	187.3	92.6	3.2	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	50.5	22.1	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	22.1	8.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	9.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	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)