

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: P676600

Luminaire Tested: **CCW-SA-1F-827-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676600
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-827-U-T4FT-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/
T4FT distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

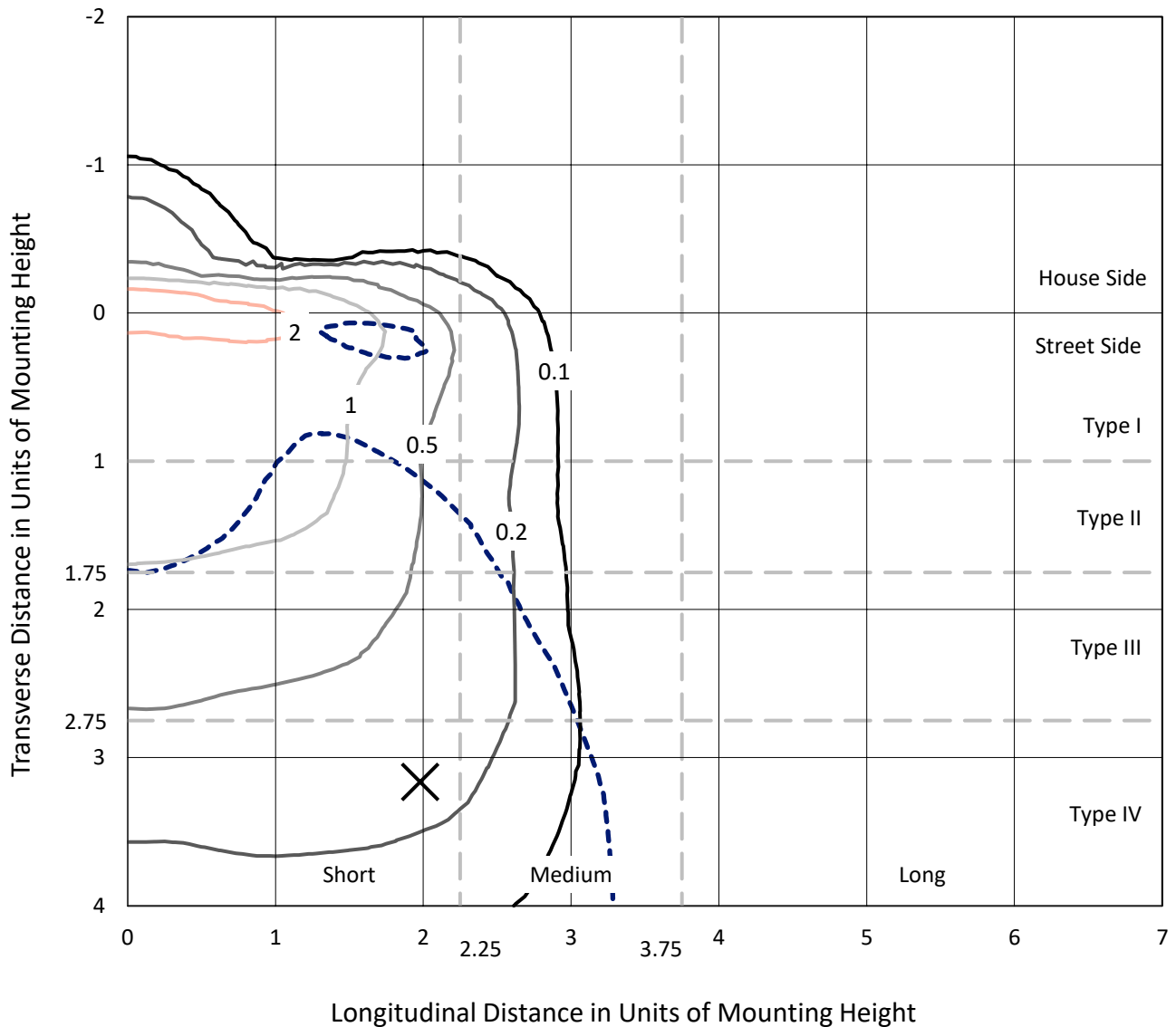
Lumens per Lamp: N/A
Luminaire Lumens: 3957.5 lumens
Efficiency: N/A
Efficacy: 59.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
Input Voltage (V): 120
Input Current (A_{in}): 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

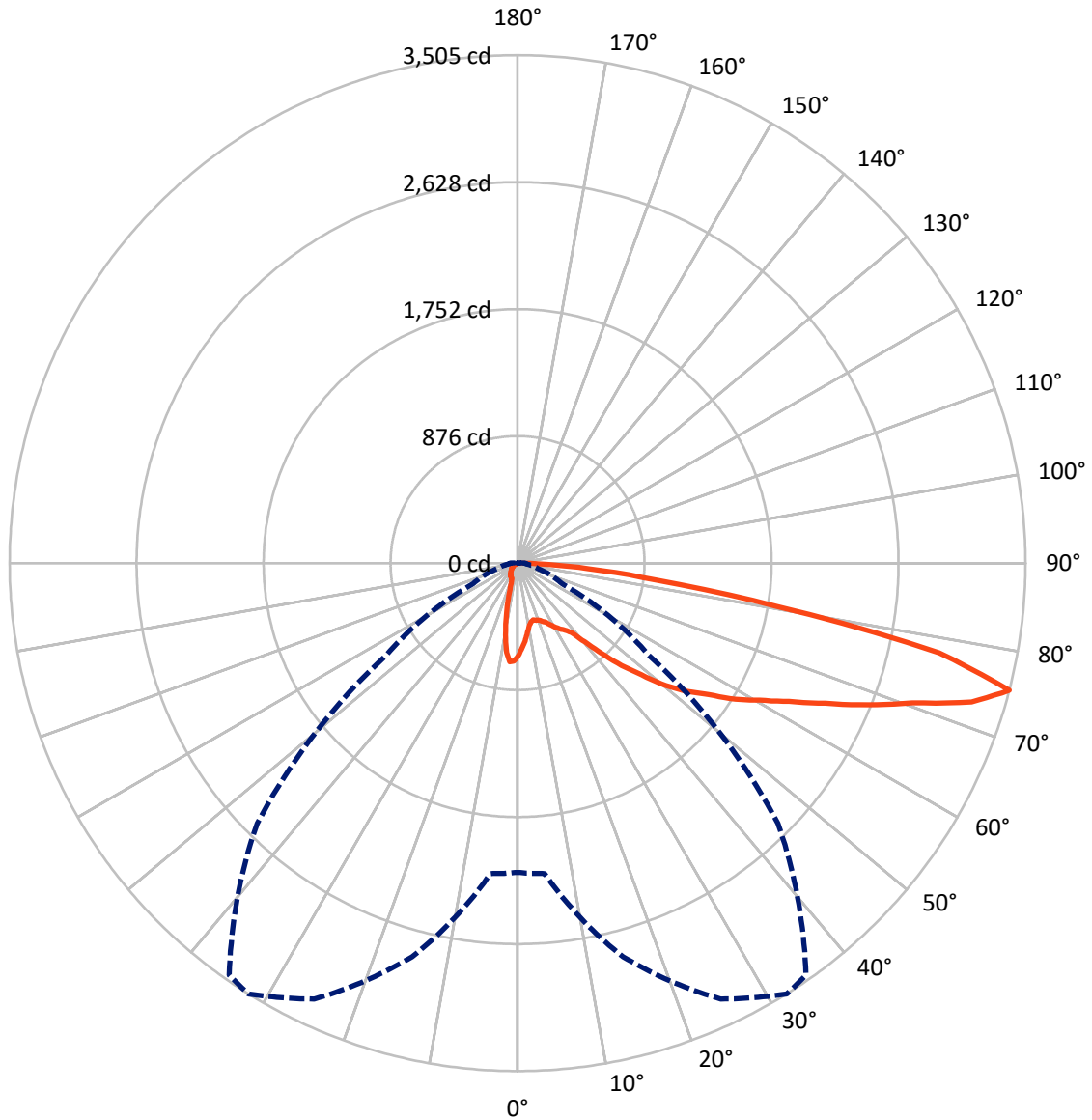
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.8 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	427.5	0.0	427.5
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	3530.0	0.0	3530.0
	% Fixture	89.2	0.0	89.2
Total	Lumens	3957.5	0.0	3957.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.2	1.4
10°-20°	127.5	3.2
20°-30°	190.9	4.8
30°-40°	293.0	7.4
40°-50°	512.4	12.9
50°-60°	801.0	20.2
60°-70°	1035.5	26.2
70°-80°	843.4	21.3
80°-90°	97.6	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°	3957.5	100.0
0°-180°	3957.5	100.0



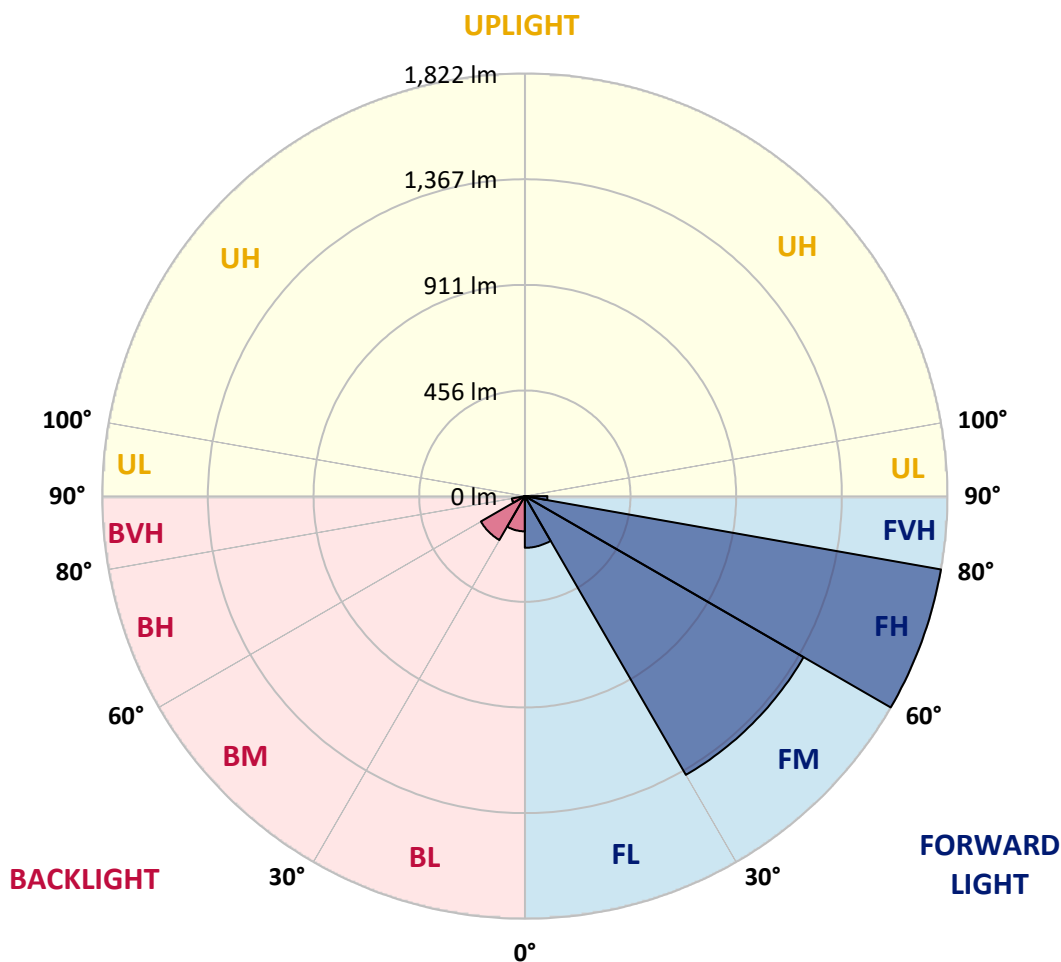
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	222.7	5.6			
FM (30°-60°)	1387.7	35.1			
FH (60°-80°)	1822.1	46.0			G2/5000
FVH (80°-90°)	97.6	2.5			G1/100
BL (0°-30°)	151.9	3.8	B1/500		
BM (30°-60°)	218.7	5.5	B0/220		
BH (60°-80°)	56.9	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°	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0
2.5°	573.1	581.2	580.2	585.3	586.3	589.3	596.4	596.4	616.7	630.9	640.0
5°	521.4	516.3	518.3	524.4	539.6	538.6	555.8	565.0	589.3	609.6	630.9
7.5°	457.5	456.4	460.5	474.7	485.9	495.0	513.2	536.6	569.0	599.5	637.0
10°	416.9	414.9	423.0	427.0	440.2	446.3	474.7	511.2	549.8	593.4	637.0
12.5°	407.8	400.7	404.7	403.7	415.9	418.9	446.3	490.9	537.6	591.3	645.1
15°	412.8	407.8	403.7	403.7	406.7	408.8	438.2	477.7	530.5	594.4	663.4
17.5°	429.1	426.0	413.8	401.7	414.9	414.9	433.1	474.7	531.5	603.5	685.7
20°	448.3	445.3	424.0	409.8	418.9	429.1	448.3	481.8	534.5	610.6	720.2
22.5°	469.6	469.6	440.2	424.0	436.2	437.2	471.7	504.1	546.7	628.9	742.5
25°	496.0	494.0	465.6	447.3	451.4	462.5	494.0	528.5	569.0	654.2	784.1
27.5°	530.5	527.4	494.0	475.7	480.8	493.0	528.5	562.9	589.3	664.4	819.6
30°	558.9	555.8	528.5	501.1	512.2	523.4	565.0	595.4	614.7	683.7	860.1
32.5°	565.0	559.9	541.6	529.5	541.6	562.9	595.4	626.8	656.3	732.3	937.2
35°	635.0	616.7	569.0	549.8	568.0	575.1	628.9	684.7	713.1	770.9	1023.4
37.5°	768.9	751.6	688.7	635.0	609.6	617.7	687.7	756.7	784.1	842.9	1117.8
40°	933.2	904.8	837.8	765.8	714.1	703.9	749.6	851.0	877.4	933.2	1241.5
42.5°	1120.8	1093.4	990.0	904.8	852.0	838.8	845.9	960.6	982.9	1016.3	1322.7
45°	1255.7	1241.5	1124.9	1048.8	1007.2	993.0	975.8	1080.3	1108.7	1119.8	1440.3
47.5°	1333.8	1323.7	1258.8	1207.0	1151.3	1136.0	1147.2	1246.6	1227.3	1236.5	1552.9
50°	1438.3	1411.9	1323.7	1339.9	1328.8	1324.7	1344.0	1387.6	1359.2	1332.8	1675.7
52.5°	1522.5	1475.8	1414.0	1453.5	1470.8	1486.0	1553.9	1586.4	1459.6	1419.0	1754.8
55°	1574.2	1529.6	1545.8	1582.3	1600.6	1670.6	1750.7	1726.4	1525.5	1488.0	1860.3
57.5°	1620.9	1623.9	1667.5	1678.7	1772.0	1784.2	1938.4	1859.2	1572.2	1550.9	1901.8
60°	1733.5	1722.3	1757.8	1829.8	1919.1	1987.1	2134.1	1948.5	1595.5	1583.4	1890.7
62.5°	1936.3	1867.4	1879.5	1970.8	2101.7	2175.7	2246.7	1989.1	1589.4	1588.4	1857.2
65°	2194.0	2114.9	2078.3	2163.5	2332.9	2437.4	2373.5	2034.7	1548.9	1577.3	1732.5
67.5°	2408.0	2409.0	2341.0	2388.7	2609.8	2632.2	2493.2	2025.6	1480.9	1489.0	1428.2
70°	2654.5	2687.9	2628.1	2777.2	2887.8	2902.0	2630.1	1950.5	1334.8	1122.9	820.6
72.5°	2717.4	2734.6	2921.2	3150.5	3275.2	3279.3	2765.0	1700.0	878.4	496.0	254.6
75°	2134.1	2150.4	2811.7	3318.9	3504.5	3469.0	2539.9	1103.6	341.8	145.0	60.9
77.5°	1190.8	1195.9	1745.6	2682.9	2973.0	2830.0	1779.1	430.1	137.9	83.2	28.4
80°	325.6	382.4	647.1	1322.7	1815.6	1782.2	847.0	140.0	89.3	64.9	13.2
82.5°	78.1	84.2	207.9	585.3	959.5	1001.1	252.6	71.0	61.9	53.8	7.1
85°	28.4	31.4	63.9	285.0	493.0	452.4	76.1	35.5	45.6	41.6	3.0
87.5°	10.1	10.1	20.3	93.3	144.0	108.5	25.4	12.2	23.3	25.4	1.0
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°	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0
2.5°	641.1	641.1	655.3	667.4	671.5	676.6	671.5	682.6	681.6	676.6	678.6
5°	642.1	660.3	672.5	680.6	684.7	683.7	685.7	673.5	666.4	661.3	656.3
7.5°	647.1	664.4	686.7	684.7	673.5	650.2	631.9	599.5	568.0	567.0	561.9
10°	664.4	679.6	692.8	684.7	644.1	573.1	515.3	471.7	432.1	413.8	415.9
12.5°	676.6	705.0	698.9	657.3	573.1	479.8	394.6	330.7	295.2	261.7	261.7
15°	701.9	712.1	710.0	617.7	485.9	374.3	270.8	205.9	168.4	153.2	151.1
17.5°	726.3	737.4	702.9	557.9	399.6	251.6	164.3	127.8	122.7	120.7	121.7
20°	756.7	757.7	696.8	498.0	300.2	159.2	117.7	114.6	115.6	114.6	114.6
22.5°	789.1	796.2	675.5	413.8	199.8	115.6	109.5	110.6	110.6	110.6	113.6
25°	831.7	820.6	642.1	333.7	130.8	106.5	106.5	107.5	107.5	107.5	108.5
27.5°	860.1	844.9	599.5	240.4	102.4	100.4	102.4	102.4	104.5	104.5	104.5
30°	919.0	879.4	545.7	155.2	92.3	95.3	97.4	99.4	100.4	102.4	103.5
32.5°	964.6	909.8	478.8	103.5	84.2	86.2	91.3	95.3	99.4	98.4	98.4
35°	1047.8	959.5	416.9	82.2	77.1	77.1	82.2	89.3	95.3	97.4	97.4
37.5°	1143.1	1000.1	330.7	75.1	71.0	71.0	74.0	82.2	90.3	94.3	92.3
40°	1222.3	1046.8	244.5	70.0	65.9	65.9	68.0	74.0	83.2	90.3	91.3
42.5°	1278.0	1081.3	165.3	64.9	61.9	60.9	63.9	66.9	74.0	84.2	86.2
45°	1328.8	1099.5	102.4	59.8	57.8	57.8	57.8	60.9	65.9	75.1	77.1
47.5°	1419.0	1119.8	74.0	55.8	52.7	53.8	54.8	55.8	59.8	61.9	62.9
50°	1495.1	1135.0	60.9	51.7	49.7	50.7	50.7	50.7	52.7	49.7	49.7
52.5°	1552.9	1119.8	51.7	47.7	45.6	46.7	45.6	45.6	43.6	39.6	39.6
55°	1595.5	1092.4	41.6	43.6	43.6	43.6	41.6	38.5	34.5	31.4	31.4
57.5°	1606.7	1045.8	32.5	36.5	39.6	39.6	35.5	31.4	26.4	23.3	22.3
60°	1589.4	944.3	24.3	26.4	30.4	31.4	28.4	23.3	18.3	15.2	15.2
62.5°	1527.6	864.2	19.3	17.2	22.3	23.3	20.3	15.2	10.1	7.1	6.1
65°	1409.9	740.5	14.2	12.2	15.2	16.2	13.2	7.1	3.0	1.0	0.0
67.5°	1131.0	557.9	9.1	8.1	10.1	10.1	6.1	2.0	0.0	0.0	0.0
70°	625.8	313.4	6.1	4.1	5.1	3.0	1.0	0.0	0.0	0.0	0.0
72.5°	180.5	89.3	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	48.7	21.3	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	21.3	8.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	9.1	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	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)