

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: P676610

Luminaire Tested: **CCW-SA-1E-830-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676610
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-830-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) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

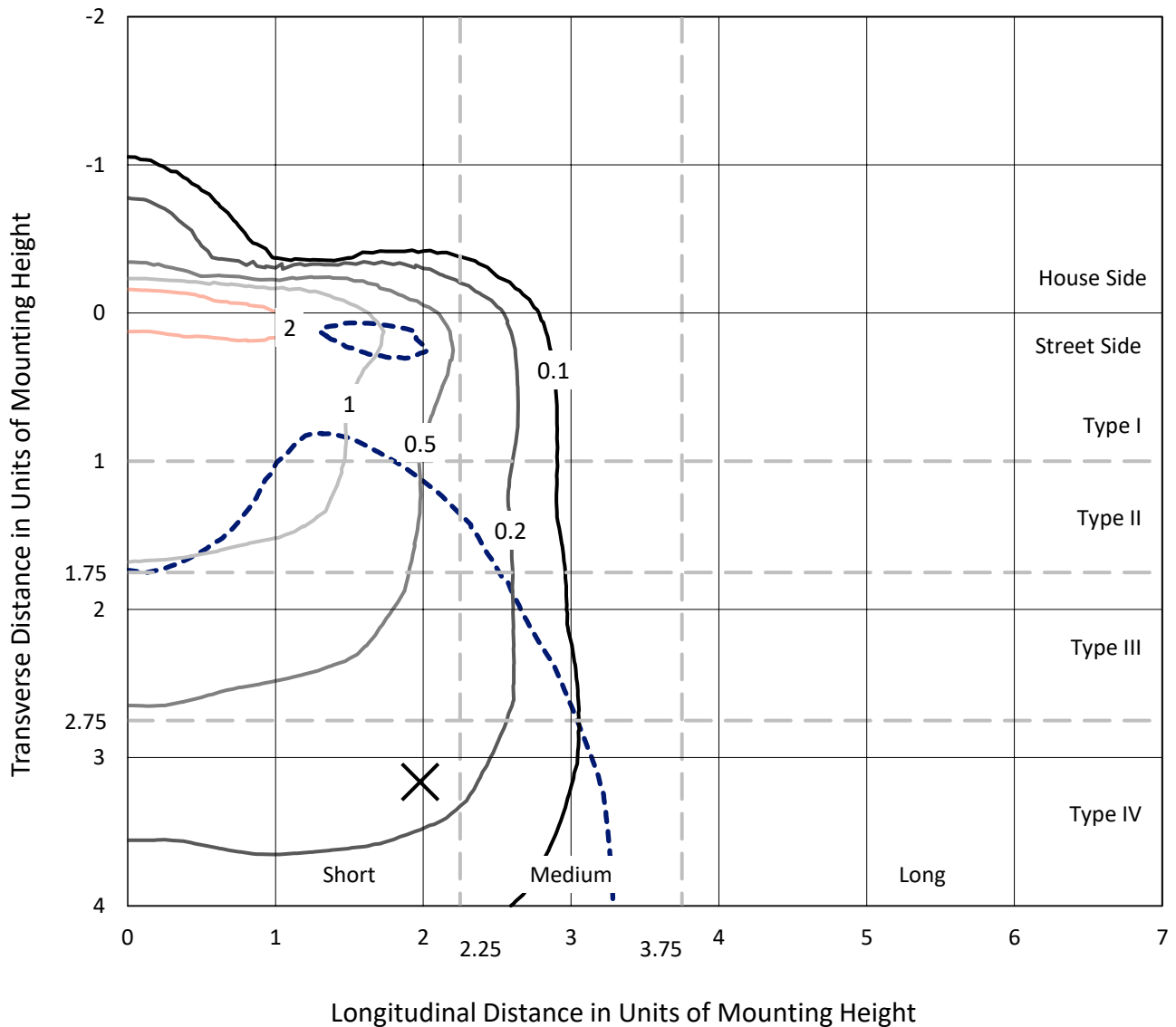
Lumens per Lamp: N/A
Luminaire Lumens: 3901 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

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

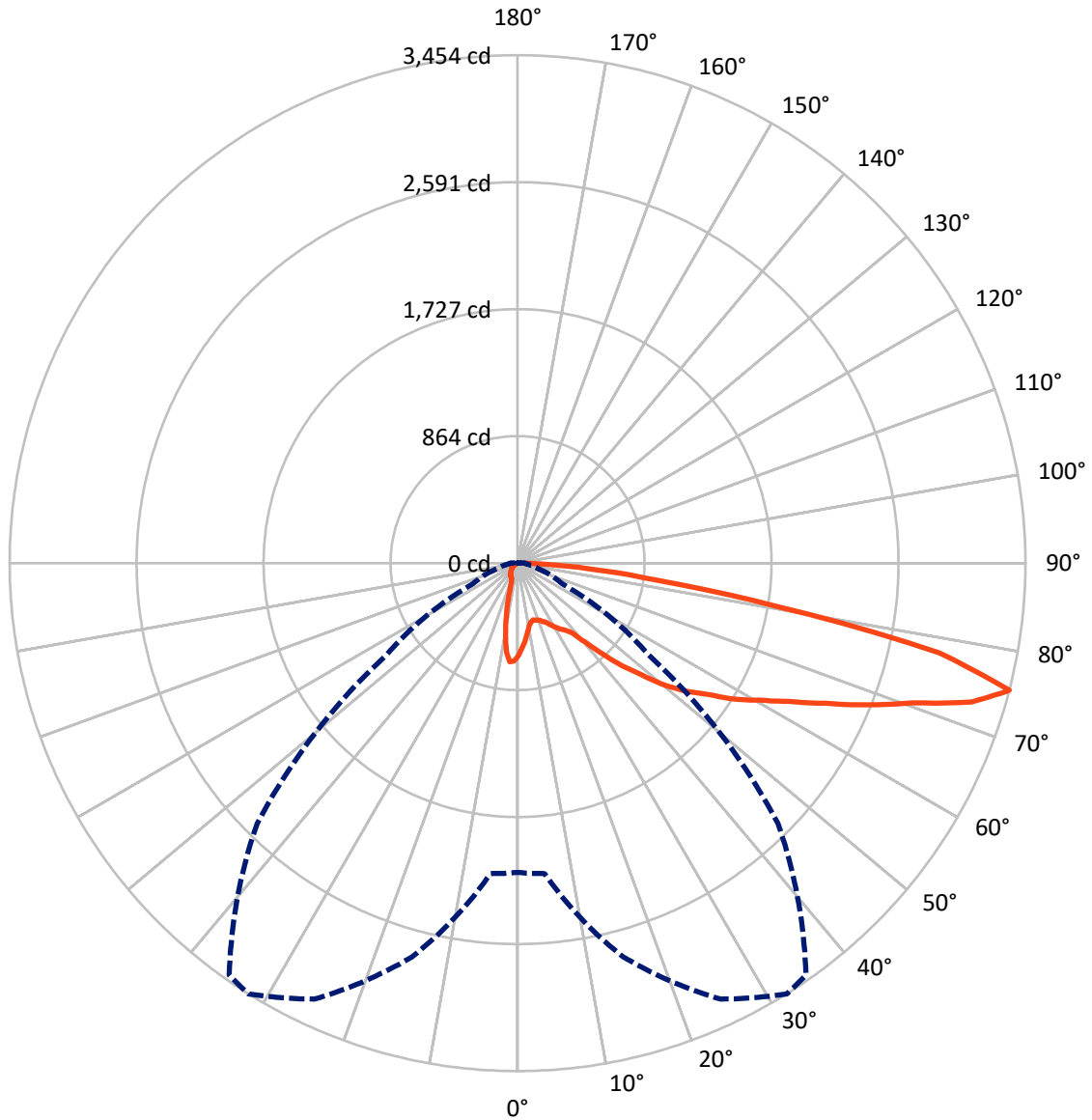
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.8 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	421.4	0.0	421.4
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	3479.5	0.0	3479.5
	% Fixture	89.2	0.0	89.2
Total	Lumens	3901.0	0.0	3901.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.4	1.4
10°-20°	125.7	3.2
20°-30°	188.2	4.8
30°-40°	288.8	7.4
40°-50°	505.1	12.9
50°-60°	789.5	20.2
60°-70°	1020.7	26.2
70°-80°	831.4	21.3
80°-90°	96.2	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°	3901.0	100.0
0°-180°	3901.0	100.0



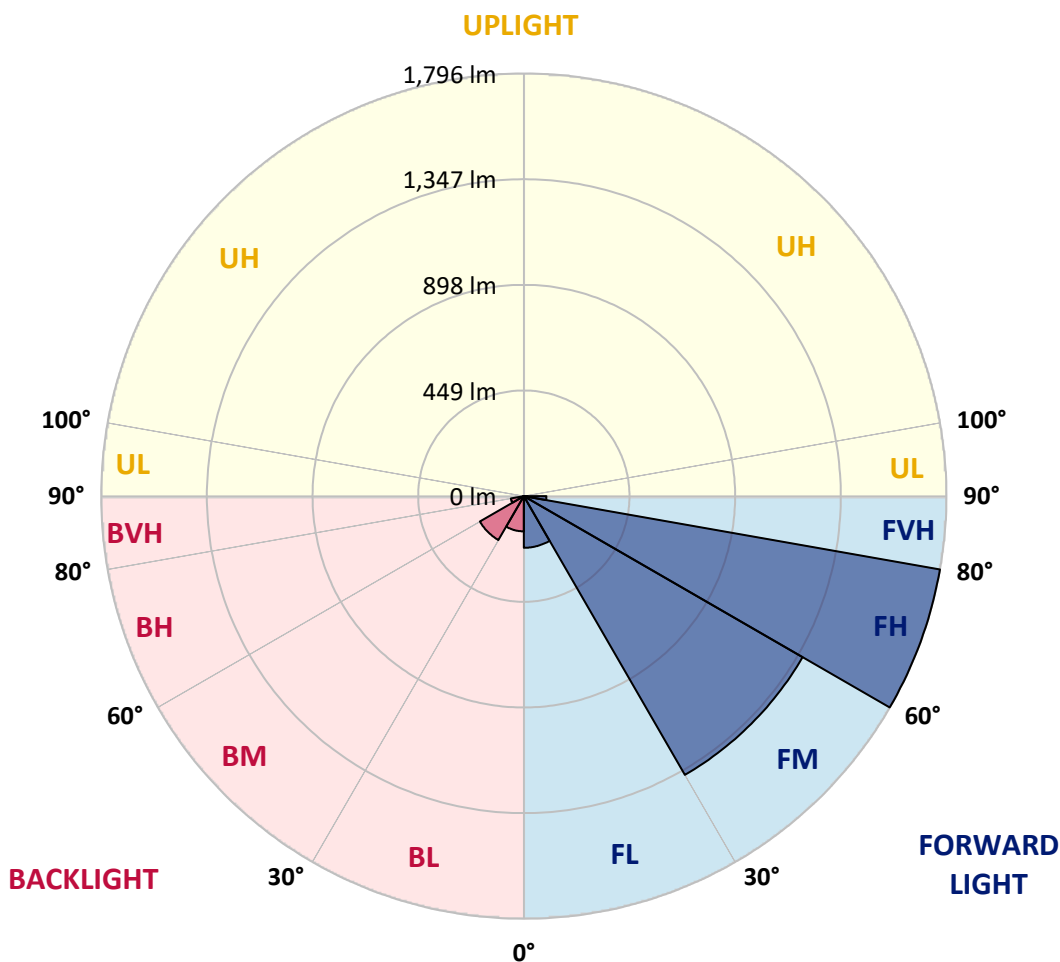
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	219.5	5.6			
FM (30°-60°)	1367.8	35.1			
FH (60°-80°)	1796.0	46.0			G1/1800
FVH (80°-90°)	96.2	2.5			G1/100
BL (0°-30°)	149.7	3.8	B1/500		
BM (30°-60°)	215.6	5.5	B0/220		
BH (60°-80°)	56.1	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-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	629.9	629.9	629.9	629.9	629.9	629.9	629.9	629.9	629.9	629.9	629.9
2.5°	564.9	572.9	571.9	576.9	577.9	580.9	587.9	587.9	607.9	621.9	630.9
5°	513.9	508.9	510.9	516.9	531.9	530.9	547.9	556.9	580.9	600.9	621.9
7.5°	450.9	449.9	453.9	467.9	478.9	487.9	505.9	528.9	560.9	590.9	627.9
10°	410.9	408.9	416.9	420.9	433.9	439.9	467.9	503.9	541.9	584.9	627.9
12.5°	401.9	394.9	398.9	397.9	409.9	412.9	439.9	483.9	529.9	582.9	635.9
15°	406.9	401.9	397.9	397.9	400.9	402.9	431.9	470.9	522.9	585.9	653.9
17.5°	422.9	419.9	407.9	395.9	408.9	408.9	426.9	467.9	523.9	594.9	675.9
20°	441.9	438.9	417.9	403.9	412.9	422.9	441.9	474.9	526.9	601.9	709.9
22.5°	462.9	462.9	433.9	417.9	429.9	430.9	464.9	496.9	538.9	619.9	731.9
25°	488.9	486.9	458.9	440.9	444.9	455.9	486.9	520.9	560.9	644.9	772.9
27.5°	522.9	519.9	486.9	468.9	473.9	485.9	520.9	554.9	580.9	654.9	807.8
30°	550.9	547.9	520.9	493.9	504.9	515.9	556.9	586.9	605.9	673.9	847.8
32.5°	556.9	551.9	533.9	521.9	533.9	554.9	586.9	617.9	646.9	721.9	923.8
35°	625.9	607.9	560.9	541.9	559.9	566.9	619.9	674.9	702.9	759.9	1008.8
37.5°	757.9	740.9	678.9	625.9	600.9	608.9	677.9	745.9	772.9	830.8	1101.8
40°	919.8	891.8	825.8	754.9	703.9	693.9	738.9	838.8	864.8	919.8	1223.8
42.5°	1104.8	1077.8	975.8	891.8	839.8	826.8	833.8	946.8	968.8	1001.8	1303.8
45°	1237.8	1223.8	1108.8	1033.8	992.8	978.8	961.8	1064.8	1092.8	1103.8	1419.7
47.5°	1314.8	1304.8	1240.8	1189.8	1134.8	1119.8	1130.8	1228.8	1209.8	1218.8	1530.7
50°	1417.7	1391.7	1304.8	1320.8	1309.8	1305.8	1324.7	1367.7	1339.7	1313.8	1651.7
52.5°	1500.7	1454.7	1393.7	1432.7	1449.7	1464.7	1531.7	1563.7	1438.7	1398.7	1729.7
55°	1551.7	1507.7	1523.7	1559.7	1577.7	1646.7	1725.7	1701.7	1503.7	1466.7	1833.7
57.5°	1597.7	1600.7	1643.7	1654.7	1746.7	1758.7	1910.6	1832.7	1549.7	1528.7	1874.6
60°	1708.7	1697.7	1732.7	1803.7	1891.6	1958.6	2103.6	1920.6	1572.7	1560.7	1863.6
62.5°	1908.6	1840.7	1852.6	1942.6	2071.6	2144.6	2214.6	1960.6	1566.7	1565.7	1830.7
65°	2162.6	2084.6	2048.6	2132.6	2299.6	2402.5	2339.6	2005.6	1526.7	1554.7	1707.7
67.5°	2373.6	2374.6	2307.6	2354.6	2572.5	2594.5	2457.5	1996.6	1459.7	1467.7	1407.7
70°	2616.5	2649.5	2590.5	2737.5	2846.5	2860.5	2592.5	1922.6	1315.8	1106.8	808.8
72.5°	2678.5	2695.5	2879.5	3105.4	3228.4	3232.4	2725.5	1675.7	865.8	488.9	251.0
75°	2103.6	2119.6	2771.5	3271.4	3454.3	3419.4	2503.5	1087.8	336.9	143.0	60.0
77.5°	1173.8	1178.8	1720.7	2644.5	2930.4	2789.5	1753.7	423.9	136.0	82.0	28.0
80°	320.9	376.9	637.9	1303.8	1789.7	1756.7	834.8	138.0	88.0	64.0	13.0
82.5°	77.0	83.0	205.0	576.9	945.8	986.8	249.0	70.0	61.0	53.0	7.0
85°	28.0	31.0	63.0	280.9	485.9	445.9	75.0	35.0	45.0	41.0	3.0
87.5°	10.0	10.0	20.0	92.0	142.0	107.0	25.0	12.0	23.0	25.0	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°	629.9	629.9	629.9	629.9	629.9	629.9	629.9	629.9	629.9	629.9	629.9
2.5°	631.9	631.9	645.9	657.9	661.9	666.9	661.9	672.9	671.9	666.9	668.9
5°	632.9	650.9	662.9	670.9	674.9	673.9	675.9	663.9	656.9	651.9	646.9
7.5°	637.9	654.9	676.9	674.9	663.9	640.9	622.9	590.9	559.9	558.9	553.9
10°	654.9	669.9	682.9	674.9	634.9	564.9	507.9	464.9	425.9	407.9	409.9
12.5°	666.9	694.9	688.9	647.9	564.9	472.9	388.9	325.9	290.9	258.0	258.0
15°	691.9	701.9	699.9	608.9	478.9	368.9	266.9	203.0	166.0	151.0	149.0
17.5°	715.9	726.9	692.9	549.9	393.9	248.0	162.0	126.0	121.0	119.0	120.0
20°	745.9	746.9	686.9	490.9	295.9	157.0	116.0	113.0	114.0	113.0	113.0
22.5°	777.9	784.9	665.9	407.9	197.0	114.0	108.0	109.0	109.0	109.0	112.0
25°	819.8	808.8	632.9	328.9	129.0	105.0	105.0	106.0	106.0	106.0	107.0
27.5°	847.8	832.8	590.9	237.0	101.0	99.0	101.0	101.0	103.0	103.0	103.0
30°	905.8	866.8	537.9	153.0	91.0	94.0	96.0	98.0	99.0	101.0	102.0
32.5°	950.8	896.8	471.9	102.0	83.0	85.0	90.0	94.0	98.0	97.0	97.0
35°	1032.8	945.8	410.9	81.0	76.0	76.0	81.0	88.0	94.0	96.0	96.0
37.5°	1126.8	985.8	325.9	74.0	70.0	70.0	73.0	81.0	89.0	93.0	91.0
40°	1204.8	1031.8	241.0	69.0	65.0	65.0	67.0	73.0	82.0	89.0	90.0
42.5°	1259.8	1065.8	163.0	64.0	61.0	60.0	63.0	66.0	73.0	83.0	85.0
45°	1309.8	1083.8	101.0	59.0	57.0	57.0	57.0	60.0	65.0	74.0	76.0
47.5°	1398.7	1103.8	73.0	55.0	52.0	53.0	54.0	55.0	59.0	61.0	62.0
50°	1473.7	1118.8	60.0	51.0	49.0	50.0	50.0	50.0	52.0	49.0	49.0
52.5°	1530.7	1103.8	51.0	47.0	45.0	46.0	45.0	45.0	43.0	39.0	39.0
55°	1572.7	1076.8	41.0	43.0	43.0	43.0	41.0	38.0	34.0	31.0	31.0
57.5°	1583.7	1030.8	32.0	36.0	39.0	39.0	35.0	31.0	26.0	23.0	22.0
60°	1566.7	930.8	24.0	26.0	30.0	31.0	28.0	23.0	18.0	15.0	15.0
62.5°	1505.7	851.8	19.0	17.0	22.0	23.0	20.0	15.0	10.0	7.0	6.0
65°	1389.7	729.9	14.0	12.0	15.0	16.0	13.0	7.0	3.0	1.0	0.0
67.5°	1114.8	549.9	9.0	8.0	10.0	10.0	6.0	2.0	0.0	0.0	0.0
70°	616.9	308.9	6.0	4.0	5.0	3.0	1.0	0.0	0.0	0.0	0.0
72.5°	178.0	88.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	48.0	21.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	21.0	8.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	9.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.0	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)