

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: P676625

Luminaire Tested: **CCW-SA-2C-835-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676625
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2C-835-U-T4FT-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
T4FT distribution lens and House Side Shield
Light Source: (32) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

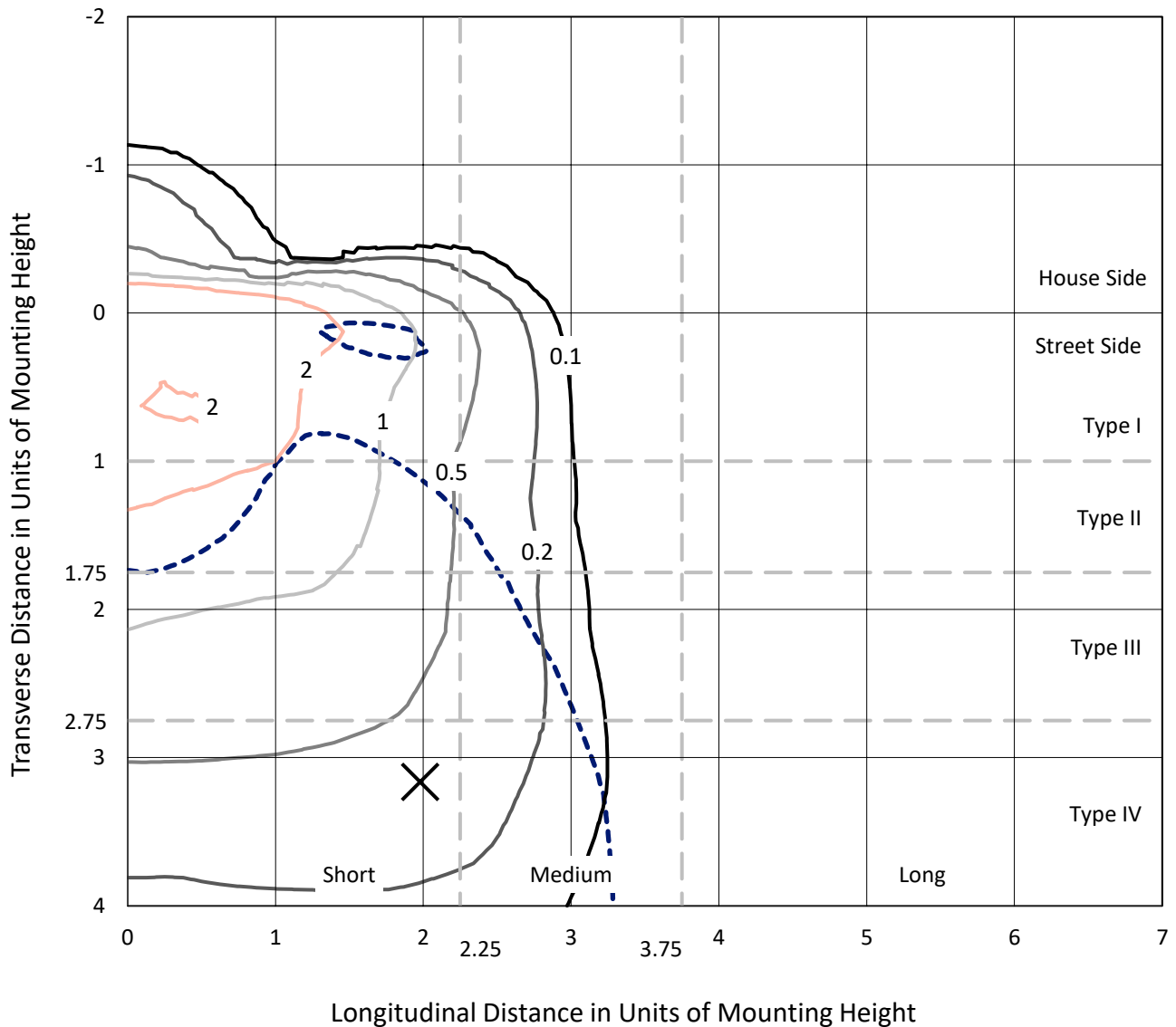
Lumens per Lamp: N/A
Luminaire Lumens: 5349.6 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 62.1
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

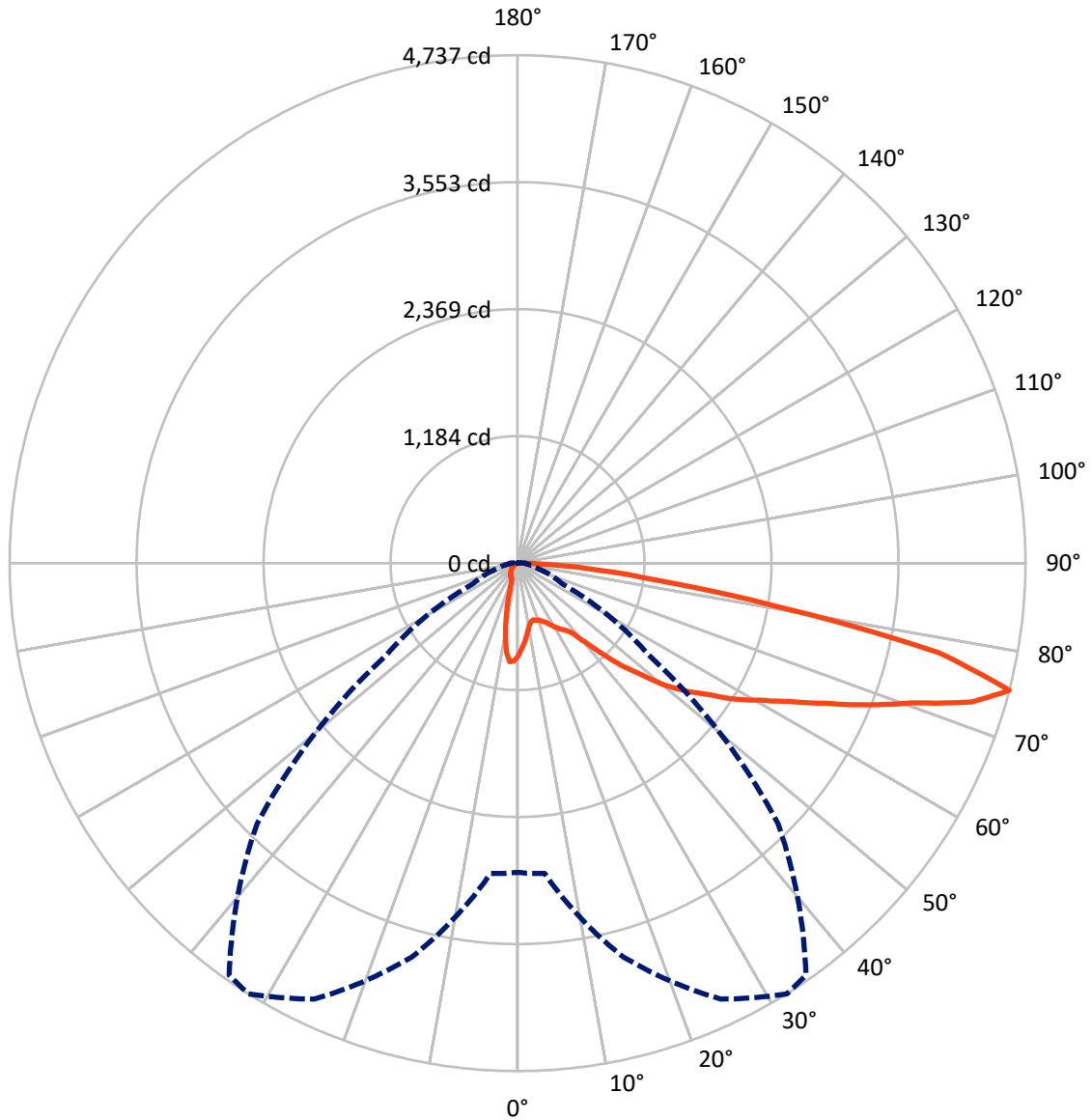
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.8 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	577.9	0.0	577.9
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	4771.7	0.0	4771.7
	% Fixture	89.2	0.0	89.2
Total	Lumens	5349.6	0.0	5349.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.9	1.4
10°-20°	172.3	3.2
20°-30°	258.0	4.8
30°-40°	396.1	7.4
40°-50°	692.7	12.9
50°-60°	1082.7	20.2
60°-70°	1399.8	26.2
70°-80°	1140.1	21.3
80°-90°	132.0	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°	5349.6	100.0
0°-180°	5349.6	100.0



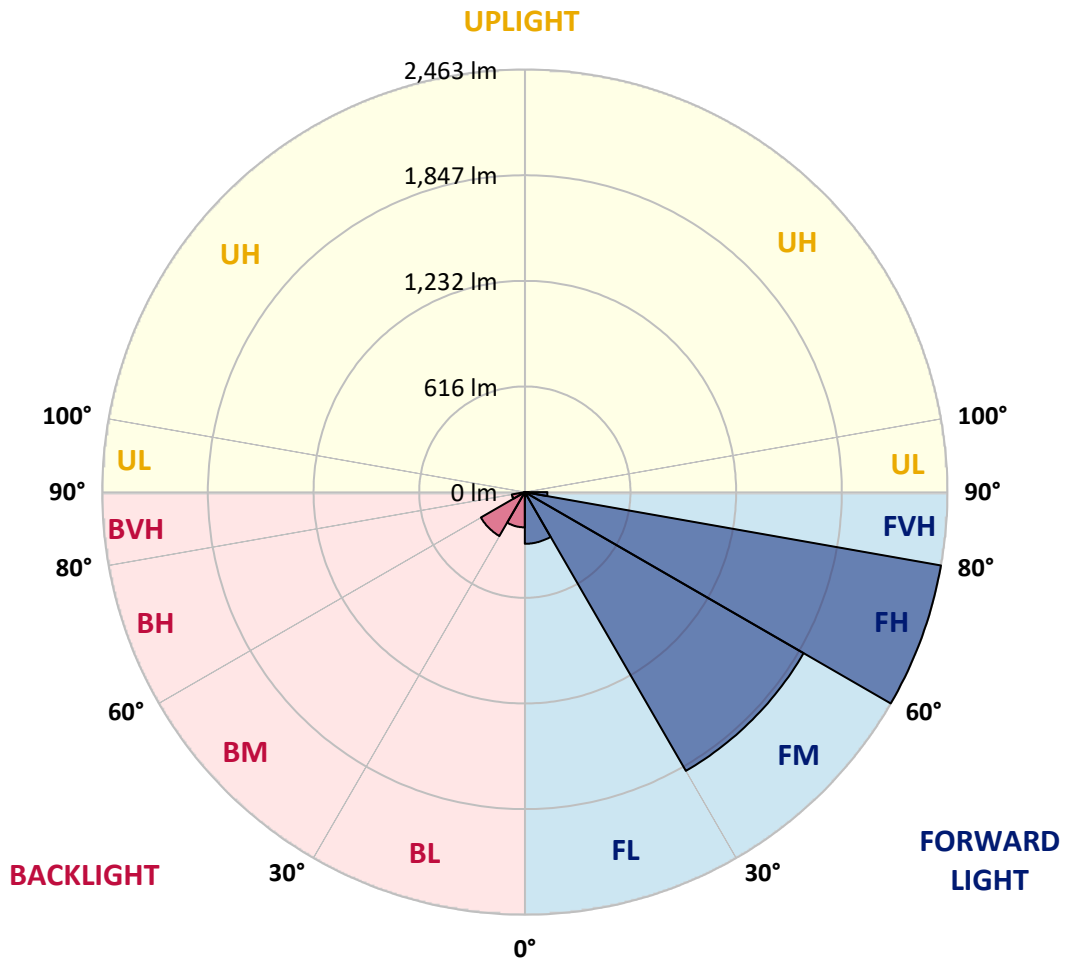
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	301.0	5.6			
FM (30°-60°)	1875.8	35.1			
FH (60°-80°)	2463.0	46.0			G2/5000
FVH (80°-90°)	131.9	2.5			G2/225
BL (0°-30°)	205.3	3.8	B1/500		
BM (30°-60°)	295.7	5.5	B1/1000		
BH (60°-80°)	76.9	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°	863.8	863.8	863.8	863.8	863.8	863.8	863.8	863.8	863.8	863.8	863.8
2.5°	774.7	785.6	784.3	791.1	792.5	796.6	806.2	806.2	833.6	852.8	865.2
5°	704.7	697.9	700.6	708.9	729.4	728.1	751.4	763.7	796.6	824.0	852.8
7.5°	618.4	617.0	622.5	641.7	656.8	669.1	693.8	725.3	769.2	810.3	861.1
10°	563.5	560.8	571.8	577.2	595.1	603.3	641.7	691.0	743.1	802.1	861.1
12.5°	551.2	541.6	547.1	545.7	562.2	566.3	603.3	663.6	726.7	799.4	872.0
15°	558.0	551.2	545.7	545.7	549.8	552.6	592.3	645.8	717.1	803.5	896.7
17.5°	580.0	575.9	559.4	543.0	560.8	560.8	585.5	641.7	718.5	815.8	926.9
20°	606.0	601.9	573.1	553.9	566.3	580.0	606.0	651.3	722.6	825.4	973.5
22.5°	634.8	634.8	595.1	573.1	589.6	590.9	637.6	681.4	739.0	850.1	1003.6
25°	670.5	667.7	629.3	604.7	610.1	625.2	667.7	714.3	769.2	884.4	1059.9
27.5°	717.1	713.0	667.7	643.0	649.9	666.4	714.3	761.0	796.6	898.1	1107.9
30°	755.5	751.4	714.3	677.3	692.4	707.5	763.7	804.8	830.9	924.1	1162.7
32.5°	763.7	756.8	732.2	715.7	732.2	761.0	804.8	847.3	887.1	989.9	1266.9
35°	858.3	833.6	769.2	743.1	767.8	777.4	850.1	925.5	963.9	1042.0	1383.4
37.5°	1039.3	1016.0	931.0	858.3	824.0	835.0	929.6	1022.8	1059.9	1139.4	1511.0
40°	1261.4	1223.0	1132.5	1035.2	965.3	951.5	1013.2	1150.4	1186.0	1261.4	1678.2
42.5°	1515.1	1478.1	1338.2	1223.0	1151.7	1133.9	1143.5	1298.4	1328.6	1373.8	1787.9
45°	1697.4	1678.2	1520.6	1417.7	1361.5	1342.3	1319.0	1460.2	1498.6	1513.7	1947.0
47.5°	1803.0	1789.3	1701.5	1631.6	1556.2	1535.6	1550.7	1685.1	1659.0	1671.4	2099.2
50°	1944.2	1908.6	1789.3	1811.2	1796.1	1790.7	1816.7	1875.7	1837.3	1801.6	2265.1
52.5°	2058.0	1995.0	1911.3	1964.8	1988.1	2008.7	2100.5	2144.4	1973.0	1918.2	2372.0
55°	2128.0	2067.6	2089.6	2138.9	2163.6	2258.2	2366.5	2333.6	2062.1	2011.4	2514.6
57.5°	2191.0	2195.1	2254.1	2269.2	2395.3	2411.8	2620.2	2513.2	2125.2	2096.4	2570.8
60°	2343.2	2328.1	2376.1	2473.5	2594.1	2686.0	2884.8	2633.9	2156.7	2140.3	2555.7
62.5°	2617.4	2524.2	2540.7	2664.1	2840.9	2941.0	3037.0	2688.7	2148.5	2147.1	2510.5
65°	2965.7	2858.8	2809.4	2924.6	3153.5	3294.8	3208.4	2750.4	2093.7	2132.1	2341.8
67.5°	3255.0	3256.4	3164.5	3229.0	3527.9	3558.0	3370.2	2738.1	2001.8	2012.8	1930.5
70°	3588.2	3633.4	3552.5	3754.1	3903.5	3922.7	3555.3	2636.6	1804.4	1517.8	1109.2
72.5°	3673.2	3696.5	3948.8	4258.7	4427.3	4432.8	3737.6	2298.0	1187.4	670.5	344.1
75°	2884.8	2906.7	3800.7	4486.3	4737.2	4689.2	3433.2	1491.8	462.1	196.1	82.3
77.5°	1609.7	1616.5	2359.7	3626.6	4018.7	3825.4	2404.9	581.3	186.5	112.4	38.4
80°	440.1	516.9	874.8	1787.9	2454.3	2409.0	1144.9	189.2	120.7	87.8	17.8
82.5°	105.6	113.8	281.1	791.1	1297.1	1353.3	341.4	96.0	83.6	72.7	9.6
85°	38.4	42.5	86.4	385.3	666.4	611.5	102.8	48.0	61.7	56.2	4.1
87.5°	13.7	13.7	27.4	126.1	194.7	146.7	34.3	16.5	31.5	34.3	1.4
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°	863.8	863.8	863.8	863.8	863.8	863.8	863.8	863.8	863.8	863.8	863.8
2.5°	866.5	866.5	885.7	902.2	907.7	914.5	907.7	922.8	921.4	914.5	917.3
5°	867.9	892.6	909.0	920.0	925.5	924.1	926.9	910.4	900.8	894.0	887.1
7.5°	874.8	898.1	928.2	925.5	910.4	878.9	854.2	810.3	767.8	766.4	759.6
10°	898.1	918.6	936.5	925.5	870.7	774.7	696.5	637.6	584.1	559.4	562.2
12.5°	914.5	952.9	944.7	888.5	774.7	648.5	533.4	447.0	399.0	353.7	353.7
15°	948.8	962.5	959.8	835.0	656.8	505.9	366.1	278.3	227.6	207.0	204.3
17.5°	981.7	996.8	950.2	754.1	540.2	340.0	222.1	172.8	165.9	163.2	164.5
20°	1022.8	1024.2	941.9	673.2	405.8	215.3	159.0	154.9	156.3	154.9	154.9
22.5°	1066.7	1076.3	913.2	559.4	270.1	156.3	148.1	149.5	149.5	149.5	153.6
25°	1124.3	1109.2	867.9	451.1	176.9	144.0	144.0	145.3	145.3	145.3	146.7
27.5°	1162.7	1142.1	810.3	325.0	138.5	135.7	138.5	138.5	141.2	141.2	141.2
30°	1242.2	1188.7	737.7	209.8	124.8	128.9	131.6	134.4	135.7	138.5	139.9
32.5°	1303.9	1229.9	647.2	139.9	113.8	116.5	123.4	128.9	134.4	133.0	133.0
35°	1416.4	1297.1	563.5	111.1	104.2	104.2	111.1	120.7	128.9	131.6	131.6
37.5°	1545.2	1351.9	447.0	101.5	96.0	96.0	100.1	111.1	122.0	127.5	124.8
40°	1652.2	1415.0	330.4	94.6	89.1	89.1	91.9	100.1	112.4	122.0	123.4
42.5°	1727.6	1461.6	223.5	87.8	83.6	82.3	86.4	90.5	100.1	113.8	116.5
45°	1796.1	1486.3	138.5	80.9	78.2	78.2	78.2	82.3	89.1	101.5	104.2
47.5°	1918.2	1513.7	100.1	75.4	71.3	72.7	74.0	75.4	80.9	83.6	85.0
50°	2021.0	1534.3	82.3	69.9	67.2	68.6	68.6	68.6	71.3	67.2	67.2
52.5°	2099.2	1513.7	69.9	64.4	61.7	63.1	61.7	61.7	59.0	53.5	53.5
55°	2156.7	1476.7	56.2	59.0	59.0	59.0	56.2	52.1	46.6	42.5	42.5
57.5°	2171.8	1413.6	43.9	49.4	53.5	53.5	48.0	42.5	35.6	31.5	30.2
60°	2148.5	1276.5	32.9	35.6	41.1	42.5	38.4	31.5	24.7	20.6	20.6
62.5°	2064.9	1168.2	26.1	23.3	30.2	31.5	27.4	20.6	13.7	9.6	8.2
65°	1905.8	1000.9	19.2	16.5	20.6	21.9	17.8	9.6	4.1	1.4	0.0
67.5°	1528.8	754.1	12.3	11.0	13.7	13.7	8.2	2.7	0.0	0.0	0.0
70°	846.0	423.7	8.2	5.5	6.9	4.1	1.4	0.0	0.0	0.0	0.0
72.5°	244.1	120.7	4.1	2.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	65.8	28.8	2.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	28.8	11.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	12.3	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	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)