

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: P676534

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676534
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-727-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, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

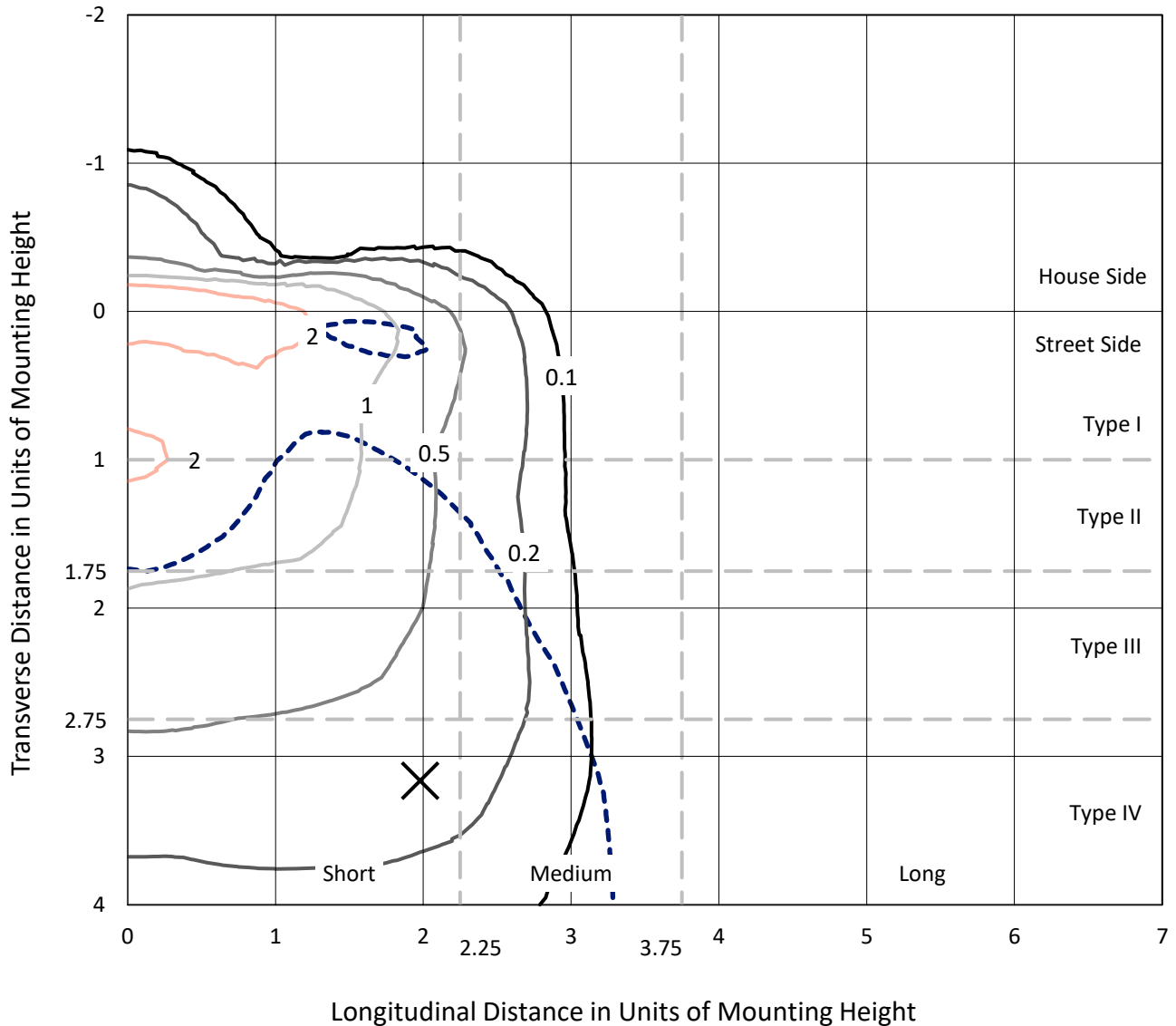
Lumens per Lamp: N/A
Luminaire Lumens: 4502.4 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

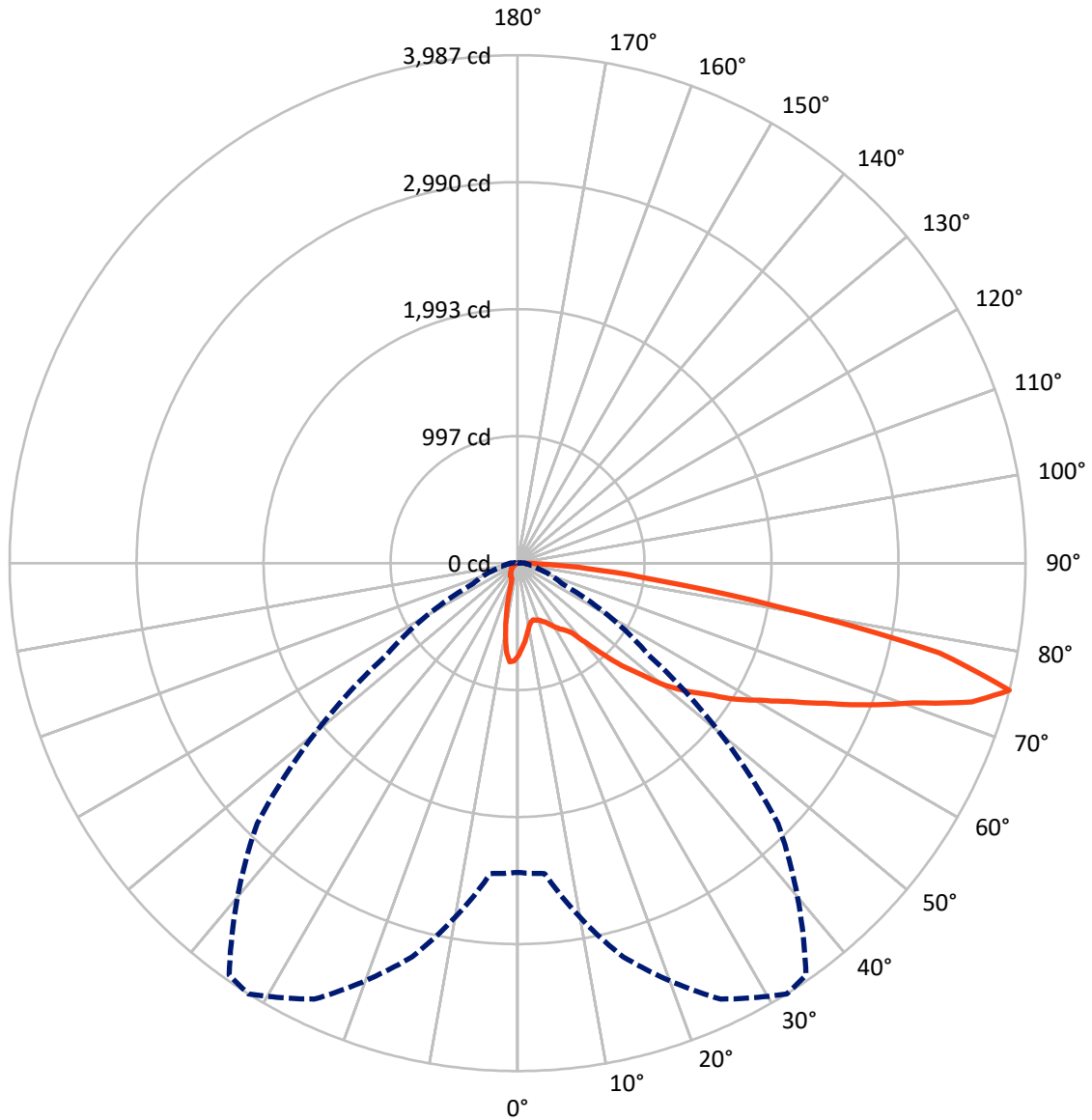
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.2 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	486.4	0.0	486.4
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	4016.0	0.0	4016.0
	% Fixture	89.2	0.0	89.2
Total	Lumens	4502.4	0.0	4502.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	1.4
10°-20°	145.0	3.2
20°-30°	217.2	4.8
30°-40°	333.4	7.4
40°-50°	583.0	12.9
50°-60°	911.2	20.2
60°-70°	1178.1	26.2
70°-80°	959.5	21.3
80°-90°	111.1	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°	4502.4	100.0
0°-180°	4502.4	100.0



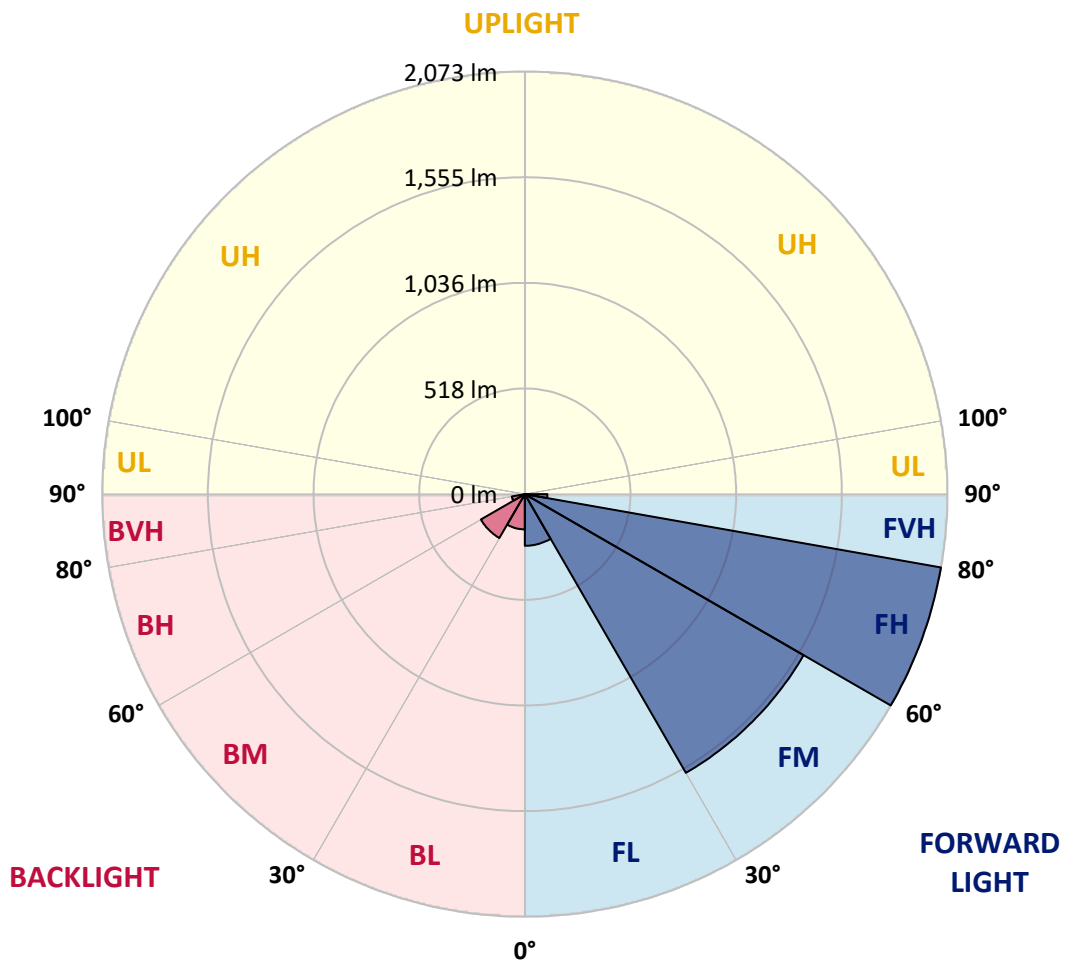
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	253.3	5.6			
FM (30°-60°)	1578.7	35.1			
FH (60°-80°)	2072.9	46.0			G2/5000
FVH (80°-90°)	111.0	2.5			G2/225
BL (0°-30°)	172.8	3.8	B1/500		
BM (30°-60°)	248.8	5.5	B1/1000		
BH (60°-80°)	64.7	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°	727.0	727.0	727.0	727.0	727.0	727.0	727.0	727.0	727.0	727.0	727.0
2.5°	652.0	661.2	660.1	665.8	667.0	670.5	678.5	678.5	701.6	717.8	728.1
5°	593.1	587.4	589.7	596.6	613.9	612.8	632.4	642.8	670.5	693.5	717.8
7.5°	520.4	519.3	523.9	540.1	552.7	563.1	583.9	610.4	647.4	682.0	724.7
10°	474.3	472.0	481.2	485.8	500.8	507.7	540.1	581.6	625.4	675.1	724.7
12.5°	463.9	455.8	460.4	459.3	473.1	476.6	507.7	558.5	611.6	672.8	733.9
15°	469.7	463.9	459.3	459.3	462.7	465.0	498.5	543.5	603.5	676.2	754.7
17.5°	488.1	484.7	470.8	457.0	472.0	472.0	492.7	540.1	604.7	686.6	780.1
20°	510.1	506.6	482.4	466.2	476.6	488.1	510.1	548.1	608.1	694.7	819.3
22.5°	534.3	534.3	500.8	482.4	496.2	497.4	536.6	573.5	622.0	715.5	844.7
25°	564.3	562.0	529.7	508.9	513.5	526.2	562.0	601.2	647.4	744.3	892.0
27.5°	603.5	600.1	562.0	541.2	547.0	560.8	601.2	640.4	670.5	755.8	932.4
30°	635.8	632.4	601.2	570.1	582.7	595.4	642.8	677.4	699.3	777.8	978.6
32.5°	642.8	637.0	616.2	602.4	616.2	640.4	677.4	713.1	746.6	833.2	1066.3
35°	722.4	701.6	647.4	625.4	646.2	654.3	715.5	778.9	811.2	877.0	1164.3
37.5°	874.7	855.1	783.5	722.4	693.5	702.8	782.4	860.9	892.0	958.9	1271.7
40°	1061.6	1029.3	953.2	871.2	812.4	800.8	852.8	968.2	998.2	1061.6	1412.4
42.5°	1275.1	1244.0	1126.3	1029.3	969.3	954.3	962.4	1092.8	1118.2	1156.3	1504.8
45°	1428.6	1412.4	1279.7	1193.2	1145.9	1129.7	1110.1	1229.0	1261.3	1274.0	1638.6
47.5°	1517.5	1505.9	1432.1	1373.2	1309.7	1292.4	1305.1	1418.2	1396.3	1406.7	1766.7
50°	1636.3	1606.3	1505.9	1524.4	1511.7	1507.1	1529.0	1578.6	1546.3	1516.3	1906.3
52.5°	1732.1	1679.0	1608.6	1653.6	1673.2	1690.6	1767.9	1804.8	1660.5	1614.4	1996.3
55°	1790.9	1740.2	1758.6	1800.2	1820.9	1900.6	1991.7	1964.0	1735.6	1692.9	2116.4
57.5°	1844.0	1847.5	1897.1	1909.8	2016.0	2029.8	2205.2	2115.2	1788.6	1764.4	2163.7
60°	1972.1	1959.4	1999.8	2081.7	2183.3	2260.6	2427.9	2216.8	1815.2	1801.3	2151.0
62.5°	2202.9	2124.4	2138.3	2242.1	2391.0	2475.2	2556.0	2262.9	1808.3	1807.1	2112.9
65°	2496.0	2406.0	2364.5	2461.4	2654.1	2773.0	2700.3	2314.8	1762.1	1794.4	1971.0
67.5°	2739.5	2740.7	2663.3	2717.6	2969.1	2994.5	2836.4	2304.5	1684.8	1694.0	1624.8
70°	3019.9	3058.0	2989.9	3159.5	3285.3	3301.5	2992.2	2219.1	1518.6	1277.4	933.6
72.5°	3091.5	3111.1	3323.4	3584.2	3726.1	3730.8	3145.7	1934.0	999.3	564.3	289.6
75°	2427.9	2446.4	3198.8	3775.8	3986.9	3946.5	2889.5	1255.5	388.9	165.0	69.2
77.5°	1354.7	1360.5	1986.0	3052.2	3382.3	3219.5	2024.0	489.3	156.9	94.6	32.3
80°	370.4	435.0	736.2	1504.8	2065.6	2027.5	963.6	159.2	101.5	73.9	15.0
82.5°	88.9	95.8	236.6	665.8	1091.6	1139.0	287.3	80.8	70.4	61.2	8.1
85°	32.3	35.8	72.7	324.3	560.8	514.7	86.5	40.4	51.9	47.3	3.5
87.5°	11.5	11.5	23.1	106.2	163.9	123.5	28.8	13.8	26.5	28.8	1.2
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°	727.0	727.0	727.0	727.0	727.0	727.0	727.0	727.0	727.0	727.0	727.0
2.5°	729.3	729.3	745.5	759.3	763.9	769.7	763.9	776.6	775.5	769.7	772.0
5°	730.5	751.2	765.1	774.3	778.9	777.8	780.1	766.2	758.2	752.4	746.6
7.5°	736.2	755.8	781.2	778.9	766.2	739.7	718.9	682.0	646.2	645.1	639.3
10°	755.8	773.2	788.2	778.9	732.8	652.0	586.2	536.6	491.6	470.8	473.1
12.5°	769.7	802.0	795.1	747.8	652.0	545.8	448.9	376.2	335.8	297.7	297.7
15°	798.5	810.1	807.8	702.8	552.7	425.8	308.1	234.3	191.6	174.2	171.9
17.5°	826.2	838.9	799.7	634.7	454.7	286.2	186.9	145.4	139.6	137.3	138.5
20°	860.9	862.0	792.8	566.6	341.6	181.2	133.9	130.4	131.6	130.4	130.4
22.5°	897.8	905.9	768.5	470.8	227.3	131.6	124.6	125.8	125.8	125.8	129.2
25°	946.2	933.6	730.5	379.7	148.9	121.2	121.2	122.3	122.3	122.3	123.5
27.5°	978.6	961.2	682.0	273.5	116.5	114.2	116.5	116.5	118.9	118.9	118.9
30°	1045.5	1000.5	620.8	176.6	105.0	108.5	110.8	113.1	114.2	116.5	117.7
32.5°	1097.4	1035.1	544.7	117.7	95.8	98.1	103.9	108.5	113.1	111.9	111.9
35°	1192.0	1091.6	474.3	93.5	87.7	87.7	93.5	101.5	108.5	110.8	110.8
37.5°	1300.5	1137.8	376.2	85.4	80.8	80.8	84.2	93.5	102.7	107.3	105.0
40°	1390.5	1190.9	278.1	79.6	75.0	75.0	77.3	84.2	94.6	102.7	103.9
42.5°	1454.0	1230.1	188.1	73.9	70.4	69.2	72.7	76.2	84.2	95.8	98.1
45°	1511.7	1250.9	116.5	68.1	65.8	65.8	65.8	69.2	75.0	85.4	87.7
47.5°	1614.4	1274.0	84.2	63.5	60.0	61.2	62.3	63.5	68.1	70.4	71.5
50°	1700.9	1291.3	69.2	58.9	56.5	57.7	57.7	57.7	60.0	56.5	56.5
52.5°	1766.7	1274.0	58.9	54.2	51.9	53.1	51.9	51.9	49.6	45.0	45.0
55°	1815.2	1242.8	47.3	49.6	49.6	49.6	47.3	43.9	39.2	35.8	35.8
57.5°	1827.9	1189.7	36.9	41.5	45.0	45.0	40.4	35.8	30.0	26.5	25.4
60°	1808.3	1074.3	27.7	30.0	34.6	35.8	32.3	26.5	20.8	17.3	17.3
62.5°	1737.9	983.2	21.9	19.6	25.4	26.5	23.1	17.3	11.5	8.1	6.9
65°	1604.0	842.4	16.2	13.8	17.3	18.5	15.0	8.1	3.5	1.2	0.0
67.5°	1286.7	634.7	10.4	9.2	11.5	11.5	6.9	2.3	0.0	0.0	0.0
70°	712.0	356.6	6.9	4.6	5.8	3.5	1.2	0.0	0.0	0.0	0.0
72.5°	205.4	101.5	3.5	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	55.4	24.2	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	24.2	9.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	10.4	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	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)