

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: P677176

Luminaire Tested: **CCW-SA-1F-827-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677176
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-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/
SL4 distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

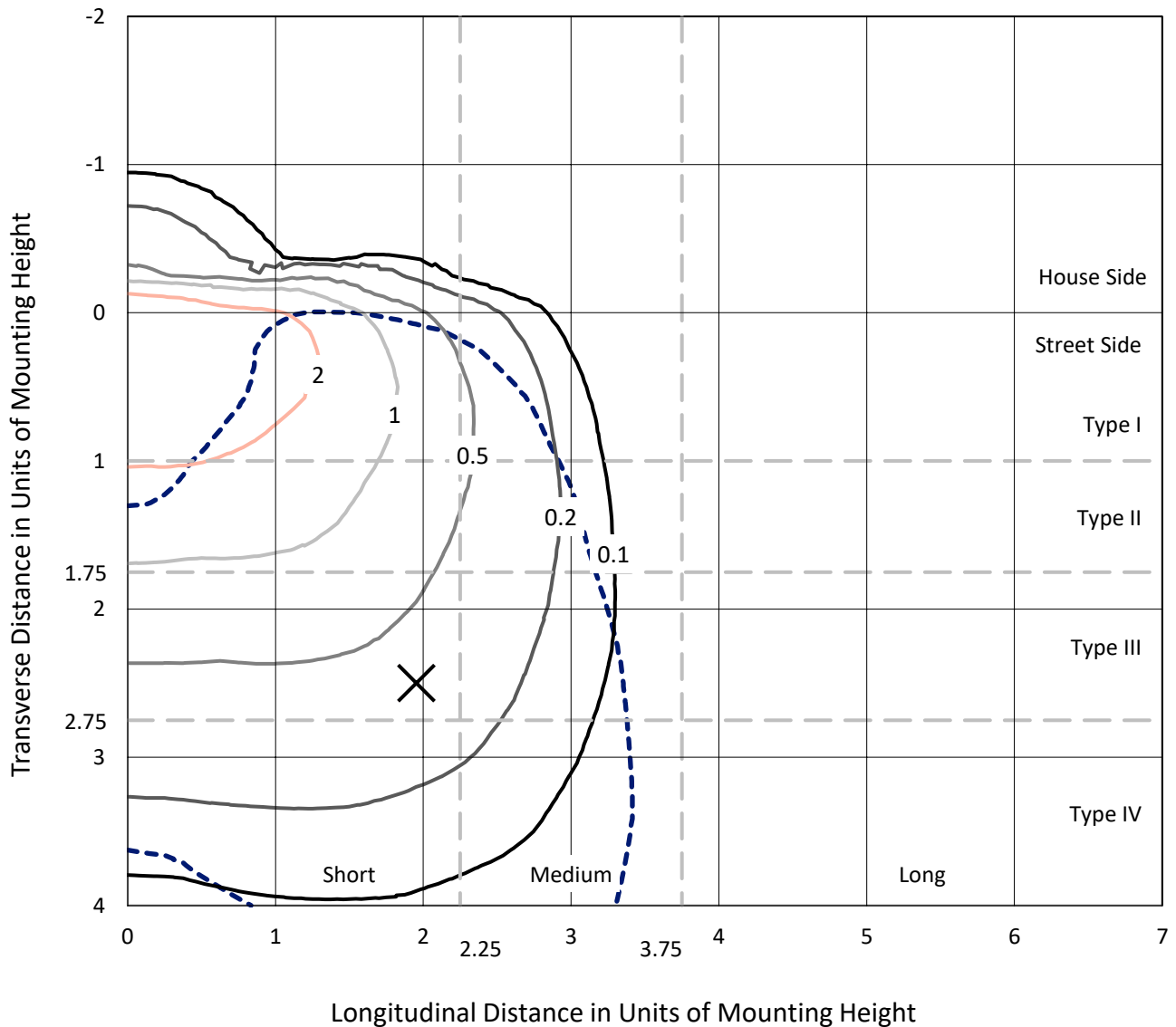
Lumens per Lamp: N/A
Luminaire Lumens: 4552.7 lumens
Efficiency: N/A
Efficacy: 68.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

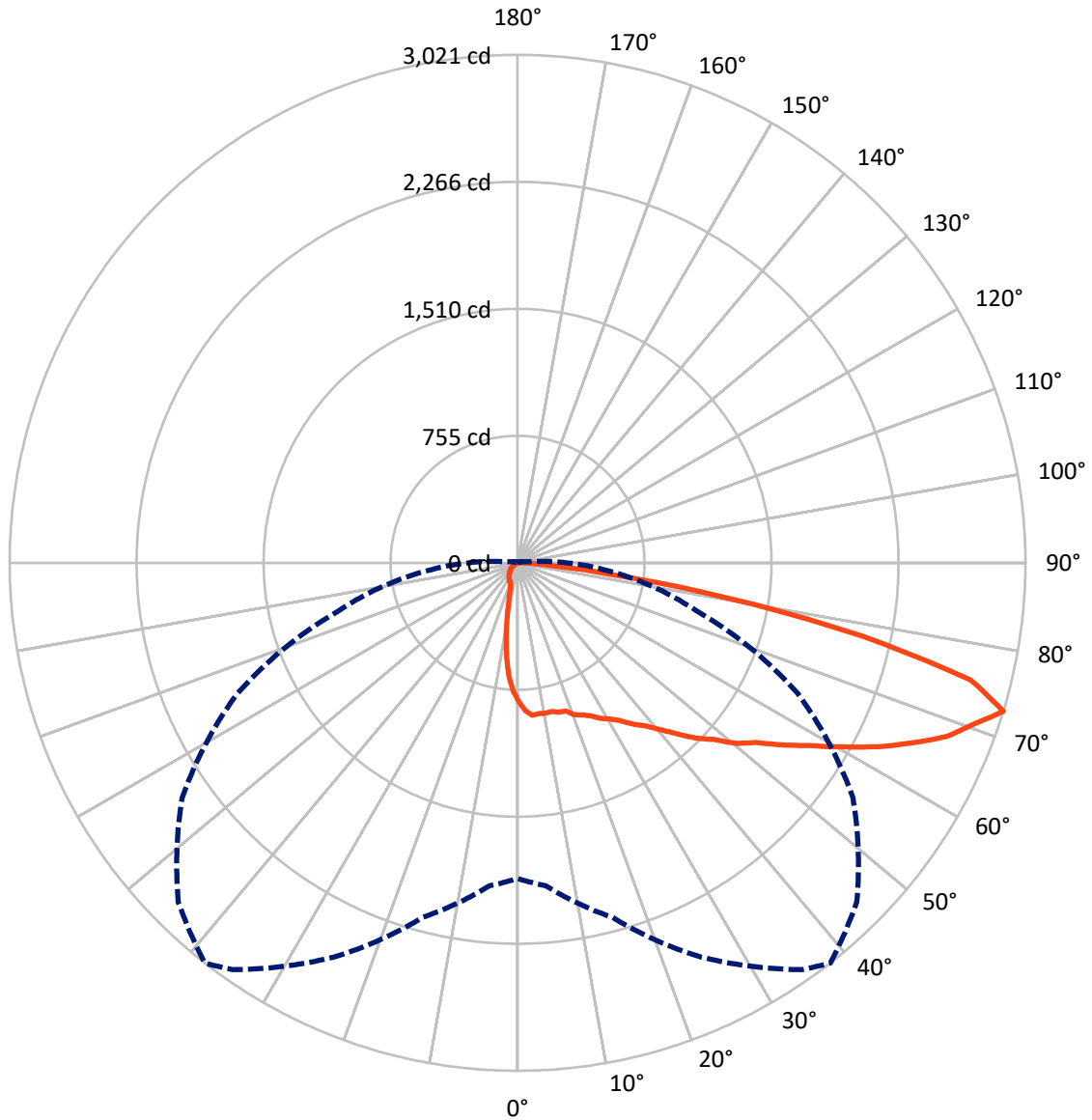
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	381.3	0.0	381.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	4171.4	0.0	4171.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	4552.7	0.0	4552.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.1	1.6
10°-20°	176.4	3.9
20°-30°	282.9	6.2
30°-40°	427.0	9.4
40°-50°	649.9	14.3
50°-60°	915.0	20.1
60°-70°	1117.7	24.6
70°-80°	811.6	17.8
80°-90°	100.0	2.2
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°	4552.7	100.0
0°-180°	4552.7	100.0

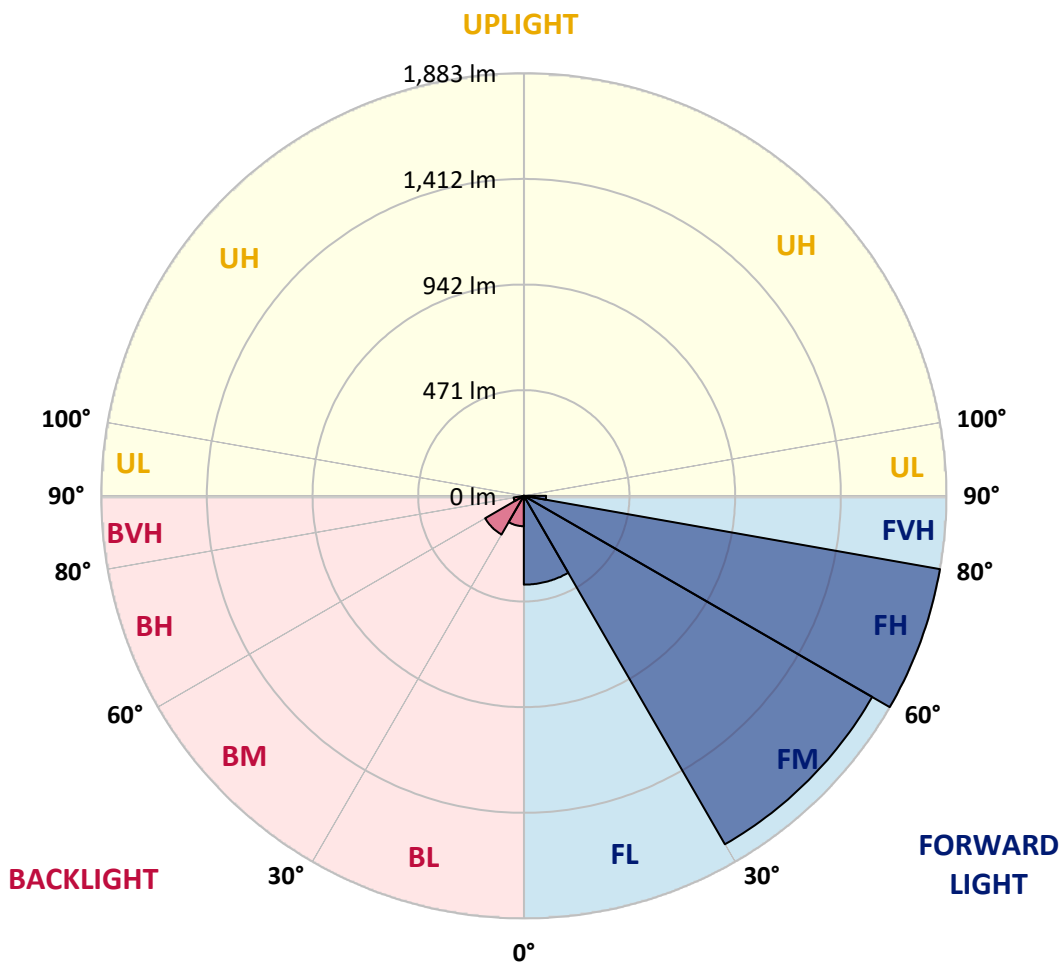


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	396.0	8.7			
FM (30°-60°)	1792.9	39.4			
FH (60°-80°)	1883.1	41.4			G2/5000
FVH (80°-90°)	99.4	2.2			G1/100
BL (0°-30°)	135.4	3.0	B1/500		
BM (30°-60°)	199.2	4.4	B0/220		
BH (60°-80°)	46.2	1.0	B0/110		G0/110
BVH (80°-90°)	0.5	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°	35°	38°	45°	55°	65°	75°	85°
0°	823.3	823.3	823.3	823.3	823.3	823.3	823.3	823.3	823.3	823.3	823.3
2.5°	904.5	904.5	913.0	904.5	901.3	881.0	882.0	871.4	860.7	845.7	831.8
5°	915.1	922.6	928.0	920.5	908.7	910.9	918.3	898.1	869.2	851.1	820.1
7.5°	910.9	926.9	922.6	918.3	910.9	905.5	894.8	886.3	872.4	855.3	819.0
10°	907.7	913.0	914.1	910.9	894.8	909.8	898.1	884.2	867.1	846.8	801.9
12.5°	895.9	895.9	905.5	898.1	900.2	907.7	902.3	899.1	881.0	863.9	824.4
15°	883.1	887.4	902.3	914.1	924.7	921.5	918.3	908.7	892.7	873.5	831.8
17.5°	886.3	888.4	911.9	933.3	928.0	925.8	942.9	922.6	906.6	885.2	838.3
20°	898.1	904.5	931.2	958.9	964.3	964.3	957.8	946.1	923.7	894.8	850.0
22.5°	909.8	911.9	955.7	991.0	996.3	982.4	987.7	953.6	932.2	916.2	861.7
25°	954.6	950.4	997.4	1025.1	1021.9	1008.0	1002.7	972.8	964.3	935.4	887.4
27.5°	1015.5	997.4	1043.3	1060.4	1043.3	1047.5	1032.6	1000.6	982.4	965.3	899.1
30°	1052.9	1063.6	1088.1	1105.2	1076.4	1077.4	1070.0	1034.7	1007.0	1011.2	938.6
32.5°	1110.6	1118.0	1136.2	1143.7	1121.2	1119.1	1111.6	1083.9	1063.6	1059.3	992.0
35°	1172.5	1186.4	1187.4	1189.6	1169.3	1177.8	1167.1	1127.6	1138.3	1145.8	1056.1
37.5°	1233.4	1220.5	1241.9	1251.5	1229.1	1229.1	1232.3	1205.6	1224.8	1247.2	1146.9
40°	1256.8	1262.2	1299.6	1292.1	1318.8	1302.8	1314.5	1308.1	1324.1	1375.4	1275.0
42.5°	1281.4	1287.8	1338.0	1351.9	1383.9	1389.3	1406.3	1407.4	1454.4	1538.8	1397.8
45°	1328.4	1317.7	1386.1	1420.2	1472.5	1487.5	1507.8	1524.9	1598.6	1697.9	1537.7
47.5°	1371.1	1356.2	1434.1	1502.4	1566.5	1569.7	1625.2	1643.4	1731.0	1844.2	1676.5
50°	1430.9	1436.2	1469.3	1586.8	1651.9	1689.3	1727.8	1787.6	1884.7	2005.4	1776.9
52.5°	1492.8	1487.5	1543.0	1658.4	1760.9	1774.7	1861.2	1928.5	2034.2	2125.0	1821.7
55°	1568.7	1575.1	1596.4	1748.0	1878.3	1911.4	2008.6	2079.1	2194.4	2176.3	1836.7
57.5°	1644.5	1638.1	1686.1	1848.4	2025.7	2050.2	2179.5	2221.1	2299.1	2210.4	1799.3
60°	1719.2	1731.0	1751.3	1961.6	2186.9	2223.2	2325.7	2347.1	2364.2	2226.4	1770.5
62.5°	1804.6	1776.9	1839.9	2081.2	2332.2	2408.0	2489.1	2404.8	2389.8	2197.6	1704.3
65°	1847.4	1855.9	1938.1	2217.9	2525.4	2581.0	2591.6	2482.7	2405.8	2133.5	1642.3
67.5°	1913.6	1925.3	2030.0	2357.8	2724.1	2755.0	2716.6	2553.2	2392.0	2050.2	1419.2
70°	1922.1	1950.9	2152.8	2504.1	2849.0	2875.7	2845.8	2600.2	2279.8	1722.4	1050.8
72.5°	1877.3	1928.5	2182.7	2587.4	2953.6	3020.9	2853.3	2434.7	1837.7	1098.8	538.2
75°	1418.1	1460.8	1997.9	2463.5	2767.8	2783.9	2505.1	1858.0	1046.5	374.8	137.8
77.5°	734.7	808.4	1333.7	1882.6	2109.0	2091.9	1743.8	1094.5	359.9	98.2	55.5
80°	421.8	439.9	583.0	1057.2	1326.3	1261.1	964.3	472.0	158.0	49.1	36.3
82.5°	208.2	233.9	313.9	473.1	663.1	545.7	362.0	283.0	88.6	26.7	32.0
85°	44.8	47.0	160.2	226.4	269.1	177.3	123.9	238.1	32.0	16.0	31.0
87.5°	32.0	31.0	44.8	101.4	74.7	45.9	73.7	124.9	7.5	7.5	6.4
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°	823.3	823.3	823.3	823.3	823.3	823.3	823.3	823.3	823.3	823.3	823.3
2.5°	823.3	813.7	803.0	782.7	777.4	774.2	756.0	755.0	751.8	744.3	741.1
5°	800.9	784.9	764.6	743.2	726.1	695.2	657.8	638.6	615.1	616.1	608.7
7.5°	797.7	767.8	738.9	694.1	639.6	582.0	524.3	486.9	460.2	444.2	447.4
10°	782.7	760.3	713.3	630.0	542.5	454.9	381.2	325.7	293.7	269.1	276.6
12.5°	789.1	745.4	679.1	568.1	443.2	335.3	243.5	190.1	166.6	158.0	160.2
15°	784.9	745.4	658.9	500.8	348.1	227.4	158.0	141.0	136.7	136.7	134.5
17.5°	797.7	753.9	624.7	434.6	249.9	151.6	135.6	132.4	129.2	129.2	129.2
20°	815.8	758.2	601.2	360.9	176.2	133.5	127.1	124.9	123.9	123.9	122.8
22.5°	816.9	753.9	557.4	279.8	135.6	126.0	120.7	119.6	119.6	117.5	117.5
25°	823.3	758.2	510.4	210.4	126.0	118.5	114.3	113.2	114.3	113.2	112.1
27.5°	839.3	765.6	463.4	153.8	118.5	112.1	108.9	107.9	107.9	107.9	105.7
30°	859.6	765.6	411.1	127.1	112.1	105.7	102.5	101.4	100.4	100.4	100.4
32.5°	902.3	790.2	347.0	113.2	103.6	98.2	95.0	95.0	94.0	94.0	92.9
35°	955.7	807.3	281.9	104.6	96.1	90.8	87.6	87.6	86.5	86.5	85.4
37.5°	1021.9	850.0	215.7	98.2	88.6	83.3	80.1	80.1	80.1	79.0	79.0
40°	1115.9	893.8	160.2	89.7	81.2	75.8	73.7	72.6	71.5	71.5	69.4
42.5°	1216.3	961.1	119.6	83.3	74.7	70.5	67.3	64.1	64.1	60.9	60.9
45°	1325.2	1019.8	97.2	75.8	68.3	63.0	59.8	57.7	54.5	52.3	52.3
47.5°	1432.0	1056.1	85.4	67.3	61.9	57.7	54.5	50.2	45.9	44.8	43.8
50°	1518.5	1066.8	75.8	60.9	56.6	52.3	48.1	42.7	38.4	36.3	35.2
52.5°	1518.5	1008.0	68.3	54.5	51.3	47.0	41.6	35.2	29.9	27.8	26.7
55°	1518.5	915.1	60.9	50.2	45.9	42.7	35.2	28.8	23.5	20.3	19.2
57.5°	1496.0	803.0	54.5	44.8	40.6	36.3	29.9	22.4	17.1	13.9	13.9
60°	1434.1	685.6	47.0	39.5	35.2	29.9	23.5	16.0	10.7	7.5	7.5
62.5°	1355.1	545.7	40.6	33.1	28.8	24.6	18.2	10.7	4.3	2.1	2.1
65°	1217.3	402.6	35.2	27.8	22.4	18.2	11.7	4.3	0.0	0.0	0.0
67.5°	1004.8	269.1	27.8	22.4	19.2	12.8	7.5	1.1	0.0	0.0	0.0
70°	706.9	152.7	21.4	16.0	13.9	8.5	2.1	0.0	0.0	0.0	0.0
72.5°	290.5	67.3	14.9	11.7	9.6	4.3	0.0	0.0	0.0	0.0	0.0
75°	79.0	29.9	9.6	6.4	5.3	1.1	0.0	0.0	0.0	0.0	0.0
77.5°	45.9	20.3	4.3	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	36.3	9.6	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	36.3	5.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	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)