

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: P673447

Luminaire Tested: **CCP-SA-2C-827-U-T4FT-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P673447
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2C-827-U-T4FT-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @615mA w/ T4FT distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

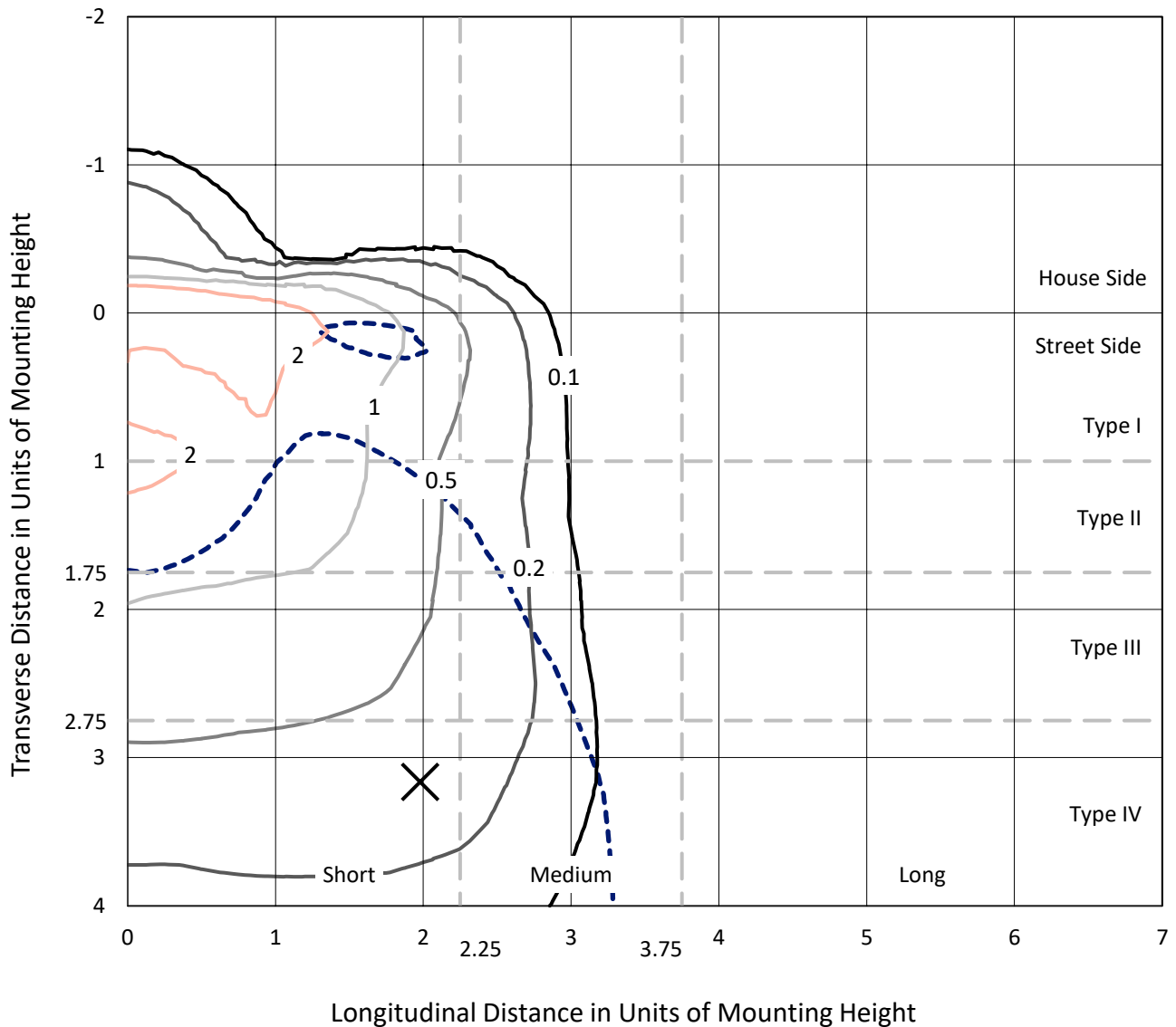
Lumens per Lamp: N/A
Luminaire Lumens: 4772.4 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

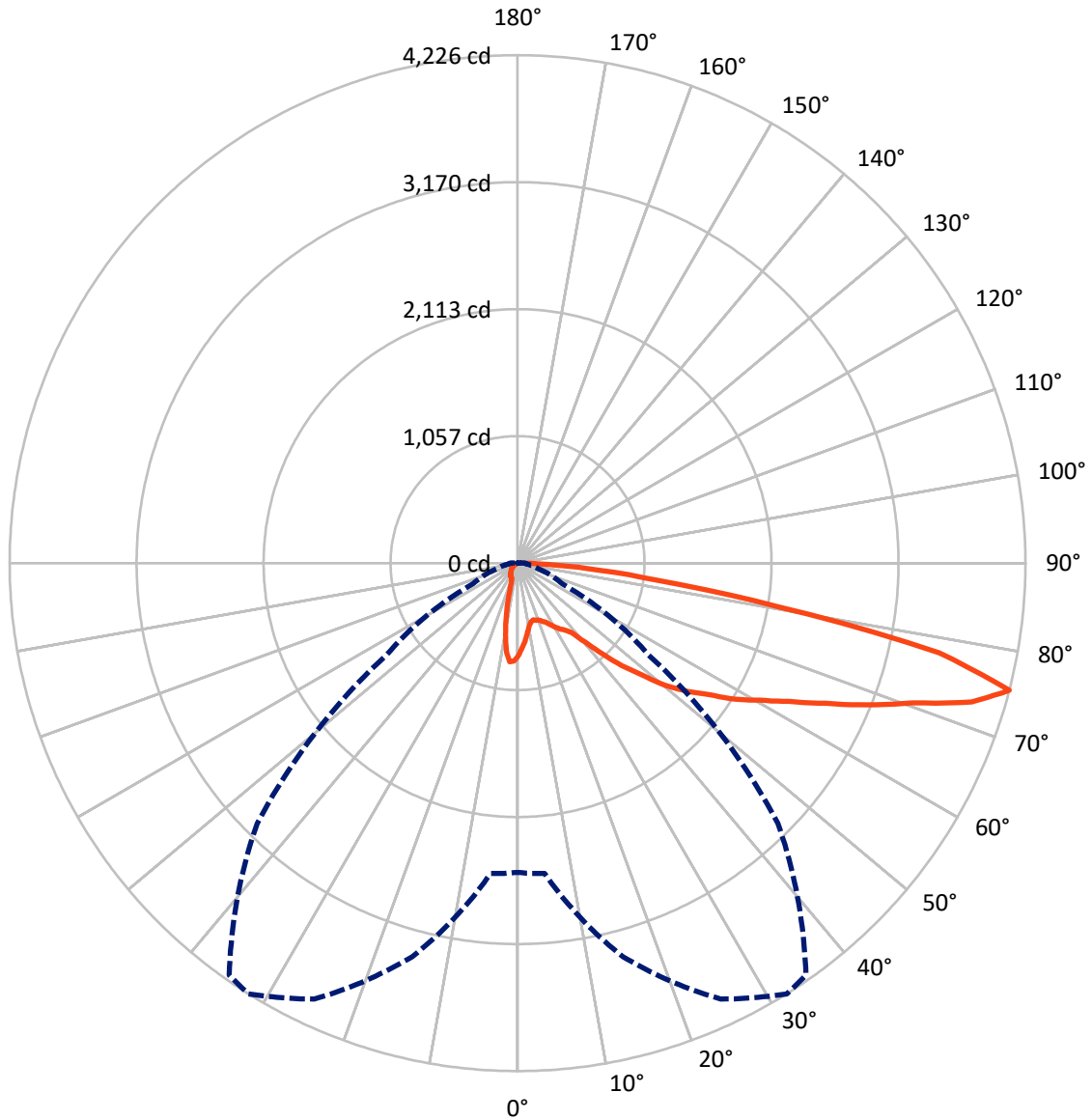
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.4 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	515.6	0.0	515.6
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	4256.9	0.0	4256.9
	% Fixture	89.2	0.0	89.2
Total	Lumens	4772.4	0.0	4772.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.7	1.4
10°-20°	153.7	3.2
20°-30°	230.2	4.8
30°-40°	353.4	7.4
40°-50°	617.9	12.9
50°-60°	965.9	20.2
60°-70°	1248.8	26.2
70°-80°	1017.1	21.3
80°-90°	117.7	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°	4772.4	100.0
0°-180°	4772.4	100.0



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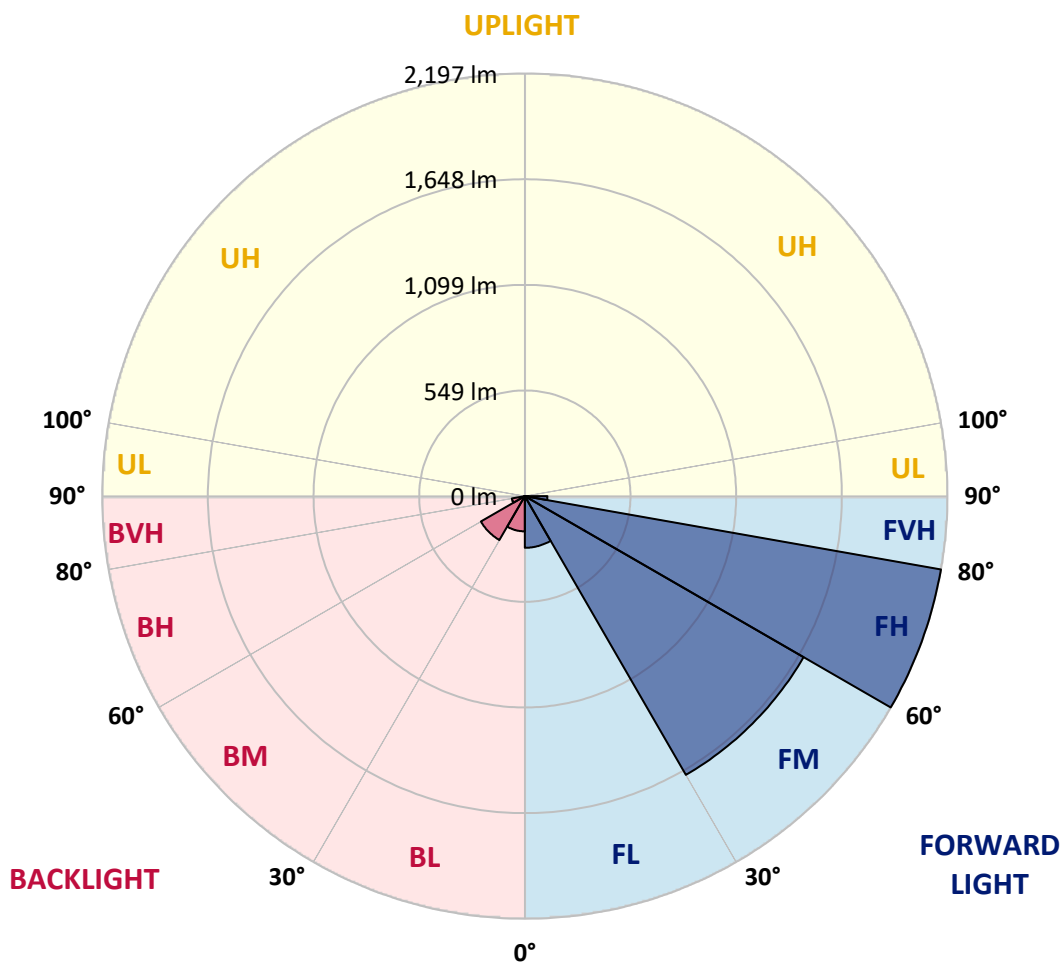
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	268.5	5.6			
FM (30°-60°)	1673.4	35.1			
FH (60°-80°)	2197.3	46.0			G2/5000
FVH (80°-90°)	117.6	2.5			G2/225
BL (0°-30°)	183.1	3.8	B1/500		
BM (30°-60°)	263.8	5.5	B1/1000		
BH (60°-80°)	68.6	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°	770.6	770.6	770.6	770.6	770.6	770.6	770.6	770.6	770.6	770.6	770.6
2.5°	691.1	700.9	699.7	705.8	707.0	710.7	719.2	719.2	743.7	760.8	771.8
5°	628.7	622.6	625.0	632.4	650.7	649.5	670.3	681.3	710.7	735.1	760.8
7.5°	551.7	550.4	555.3	572.4	585.9	596.9	618.9	647.1	686.2	722.9	768.2
10°	502.7	500.3	510.1	515.0	530.9	538.2	572.4	616.5	663.0	715.6	768.2
12.5°	491.7	483.2	488.0	486.8	501.5	505.2	538.2	592.0	648.3	713.1	777.9
15°	497.8	491.7	486.8	486.8	490.5	492.9	528.4	576.1	639.7	716.8	800.0
17.5°	517.4	513.7	499.1	484.4	500.3	500.3	522.3	572.4	640.9	727.8	826.9
20°	540.6	537.0	511.3	494.2	505.2	517.4	540.6	581.0	644.6	736.4	868.5
22.5°	566.3	566.3	530.9	511.3	526.0	527.2	568.8	607.9	659.3	758.4	895.4
25°	598.1	595.7	561.4	539.4	544.3	557.8	595.7	637.3	686.2	788.9	945.5
27.5°	639.7	636.1	595.7	573.7	579.8	594.5	637.3	678.9	710.7	801.2	988.3
30°	674.0	670.3	637.3	604.3	617.7	631.2	681.3	718.0	741.2	824.4	1037.3
32.5°	681.3	675.2	653.2	638.5	653.2	678.9	718.0	755.9	791.4	883.1	1130.2
35°	765.7	743.7	686.2	663.0	685.0	693.5	758.4	825.6	859.9	929.6	1234.2
37.5°	927.2	906.4	830.5	765.7	735.1	744.9	829.3	912.5	945.5	1016.5	1347.9
40°	1125.3	1091.1	1010.3	923.5	861.1	848.9	903.9	1026.2	1058.0	1125.3	1497.2
42.5°	1351.6	1318.6	1193.8	1091.1	1027.5	1011.6	1020.1	1158.3	1185.3	1225.6	1595.0
45°	1514.3	1497.2	1356.5	1264.8	1214.6	1197.5	1176.7	1302.7	1336.9	1350.4	1736.9
47.5°	1608.5	1596.2	1518.0	1455.6	1388.3	1370.0	1383.4	1503.3	1480.0	1491.1	1872.7
50°	1734.5	1702.7	1596.2	1615.8	1602.4	1597.5	1620.7	1673.3	1639.1	1607.3	2020.7
52.5°	1836.0	1779.7	1705.1	1752.8	1773.6	1792.0	1873.9	1913.1	1760.2	1711.2	2116.1
55°	1898.4	1844.6	1864.1	1908.2	1930.2	2014.6	2111.2	2081.8	1839.7	1794.4	2243.3
57.5°	1954.6	1958.3	2010.9	2024.4	2136.9	2151.6	2337.5	2242.1	1895.9	1870.2	2293.5
60°	2090.4	2077.0	2119.8	2206.6	2314.3	2396.2	2573.6	2349.7	1924.1	1909.4	2280.0
62.5°	2335.0	2251.9	2266.5	2376.6	2534.4	2623.7	2709.3	2398.7	1916.7	1915.5	2239.6
65°	2645.7	2550.3	2506.3	2609.0	2813.3	2939.3	2862.2	2453.7	1867.8	1902.0	2089.2
67.5°	2903.8	2905.0	2823.1	2880.6	3147.2	3174.1	3006.6	2442.7	1785.8	1795.6	1722.2
70°	3201.1	3241.4	3169.3	3349.1	3482.4	3499.5	3171.7	2352.2	1609.7	1354.1	989.6
72.5°	3276.9	3297.7	3522.8	3799.2	3949.6	3954.5	3334.4	2050.0	1059.3	598.1	307.0
75°	2573.6	2593.1	3390.6	4002.2	4226.1	4183.3	3062.8	1330.8	412.2	174.9	73.4
77.5°	1436.0	1442.1	2105.1	3235.3	3585.1	3412.7	2145.5	518.6	166.4	100.3	34.2
80°	392.6	461.1	780.4	1595.0	2189.5	2149.1	1021.4	168.8	107.6	78.3	15.9
82.5°	94.2	101.5	250.8	705.8	1157.1	1207.3	304.6	85.6	74.6	64.8	8.6
85°	34.2	37.9	77.1	343.7	594.5	545.5	91.7	42.8	55.0	50.2	3.7
87.5°	12.2	12.2	24.5	112.5	173.7	130.9	30.6	14.7	28.1	30.6	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°	770.6	770.6	770.6	770.6	770.6	770.6	770.6	770.6	770.6	770.6	770.6
2.5°	773.0	773.0	790.2	804.9	809.7	815.9	809.7	823.2	822.0	815.9	818.3
5°	774.3	796.3	811.0	820.8	825.6	824.4	826.9	812.2	803.6	797.5	791.4
7.5°	780.4	801.2	828.1	825.6	812.2	784.1	762.0	722.9	685.0	683.8	677.6
10°	801.2	819.5	835.4	825.6	776.7	691.1	621.4	568.8	521.1	499.1	501.5
12.5°	815.9	850.1	842.8	792.6	691.1	578.6	475.8	398.8	355.9	315.6	315.6
15°	846.4	858.7	856.2	744.9	585.9	451.4	326.6	248.3	203.0	184.7	182.3
17.5°	875.8	889.3	847.7	672.7	481.9	303.3	198.2	154.1	148.0	145.6	146.8
20°	912.5	913.7	840.3	600.6	362.1	192.0	141.9	138.2	139.4	138.2	138.2
22.5°	951.6	960.2	814.6	499.1	241.0	139.4	132.1	133.3	133.3	133.3	137.0
25°	1003.0	989.6	774.3	402.4	157.8	128.4	128.4	129.7	129.7	129.7	130.9
27.5°	1037.3	1018.9	722.9	289.9	123.5	121.1	123.5	123.5	126.0	126.0	126.0
30°	1108.2	1060.5	658.1	187.1	111.3	115.0	117.4	119.9	121.1	123.5	124.8
32.5°	1163.2	1097.2	577.3	124.8	101.5	104.0	110.1	115.0	119.9	118.6	118.6
35°	1263.5	1157.1	502.7	99.1	93.0	93.0	99.1	107.6	115.0	117.4	117.4
37.5°	1378.5	1206.1	398.8	90.5	85.6	85.6	89.3	99.1	108.9	113.8	111.3
40°	1473.9	1262.3	294.8	84.4	79.5	79.5	82.0	89.3	100.3	108.9	110.1
42.5°	1541.2	1303.9	199.4	78.3	74.6	73.4	77.1	80.7	89.3	101.5	104.0
45°	1602.4	1325.9	123.5	72.2	69.7	69.7	69.7	73.4	79.5	90.5	93.0
47.5°	1711.2	1350.4	89.3	67.3	63.6	64.8	66.1	67.3	72.2	74.6	75.8
50°	1803.0	1368.7	73.4	62.4	59.9	61.2	61.2	61.2	63.6	59.9	59.9
52.5°	1872.7	1350.4	62.4	57.5	55.0	56.3	55.0	55.0	52.6	47.7	47.7
55°	1924.1	1317.4	50.2	52.6	52.6	52.6	50.2	46.5	41.6	37.9	37.9
57.5°	1937.5	1261.1	39.1	44.0	47.7	47.7	42.8	37.9	31.8	28.1	26.9
60°	1916.7	1138.8	29.4	31.8	36.7	37.9	34.2	28.1	22.0	18.3	18.3
62.5°	1842.1	1042.1	23.2	20.8	26.9	28.1	24.5	18.3	12.2	8.6	7.3
65°	1700.2	892.9	17.1	14.7	18.3	19.6	15.9	8.6	3.7	1.2	0.0
67.5°	1363.8	672.7	11.0	9.8	12.2	12.2	7.3	2.4	0.0	0.0	0.0
70°	754.7	378.0	7.3	4.9	6.1	3.7	1.2	0.0	0.0	0.0	0.0
72.5°	217.7	107.6	3.7	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	58.7	25.7	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	25.7	9.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	11.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.4	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)