

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: P676764

Luminaire Tested: **CCW-SA-1D-835-U-T4W-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676764  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1D-835-U-T4W-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/  
T4W distribution lens and House Side Shield  
Light Source: (16) 3500K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

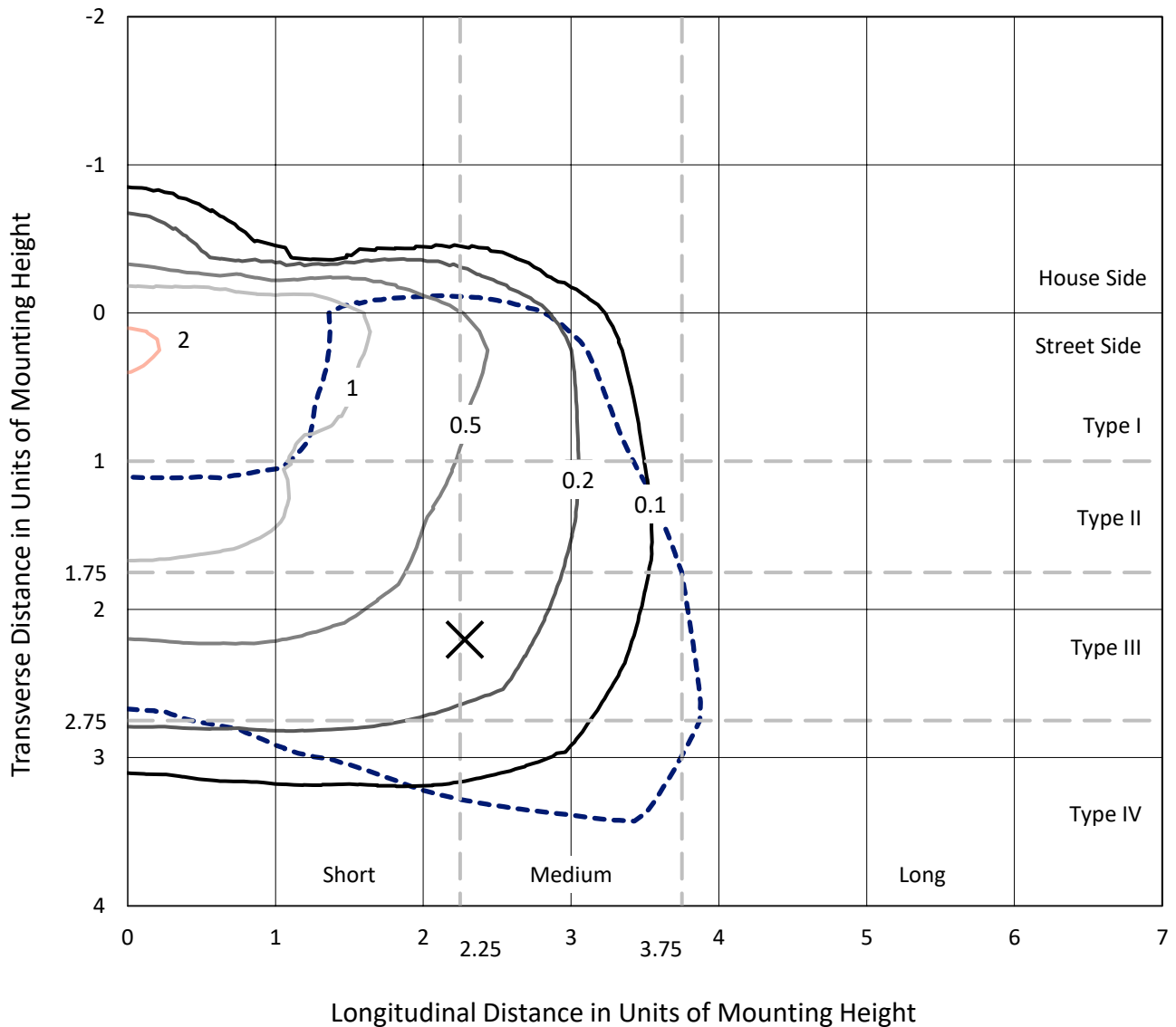
Lumens per Lamp: N/A  
Luminaire Lumens: 3315.5 lumens  
Efficiency: N/A  
Efficacy: 75.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B0 - U0 - G1

Input Watts (W): 44  
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

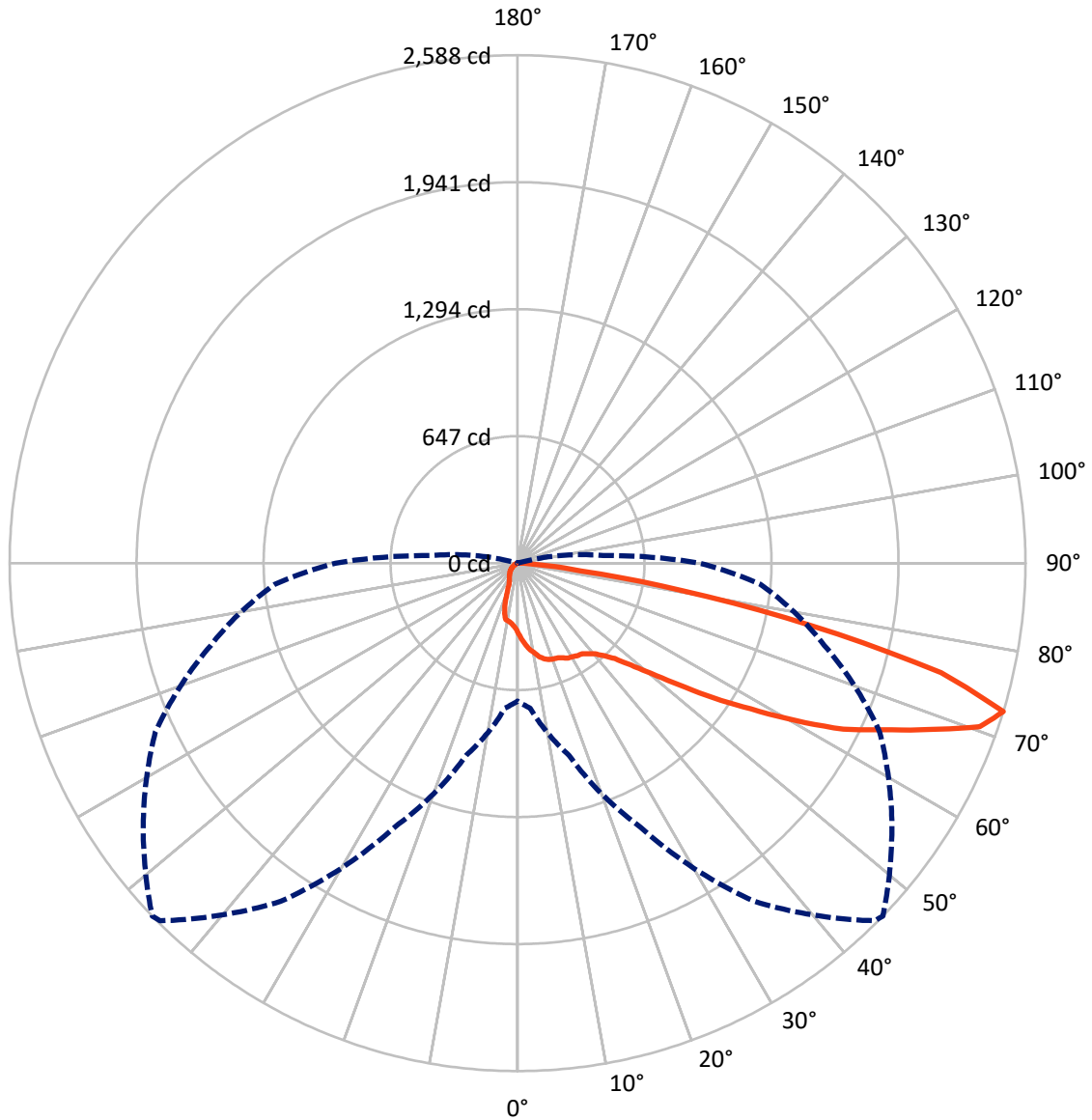
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.3 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	356.9	0.0	356.9
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	2958.5	0.0	2958.5
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	3315.5	0.0	3315.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.5	1.1
10°-20°	107.1	3.2
20°-30°	167.6	5.1
30°-40°	234.7	7.1
40°-50°	387.1	11.7
50°-60°	695.8	21.0
60°-70°	1008.4	30.4
70°-80°	629.4	19.0
80°-90°	49.9	1.5
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°	3315.5	100.0
0°-180°	3315.5	100.0



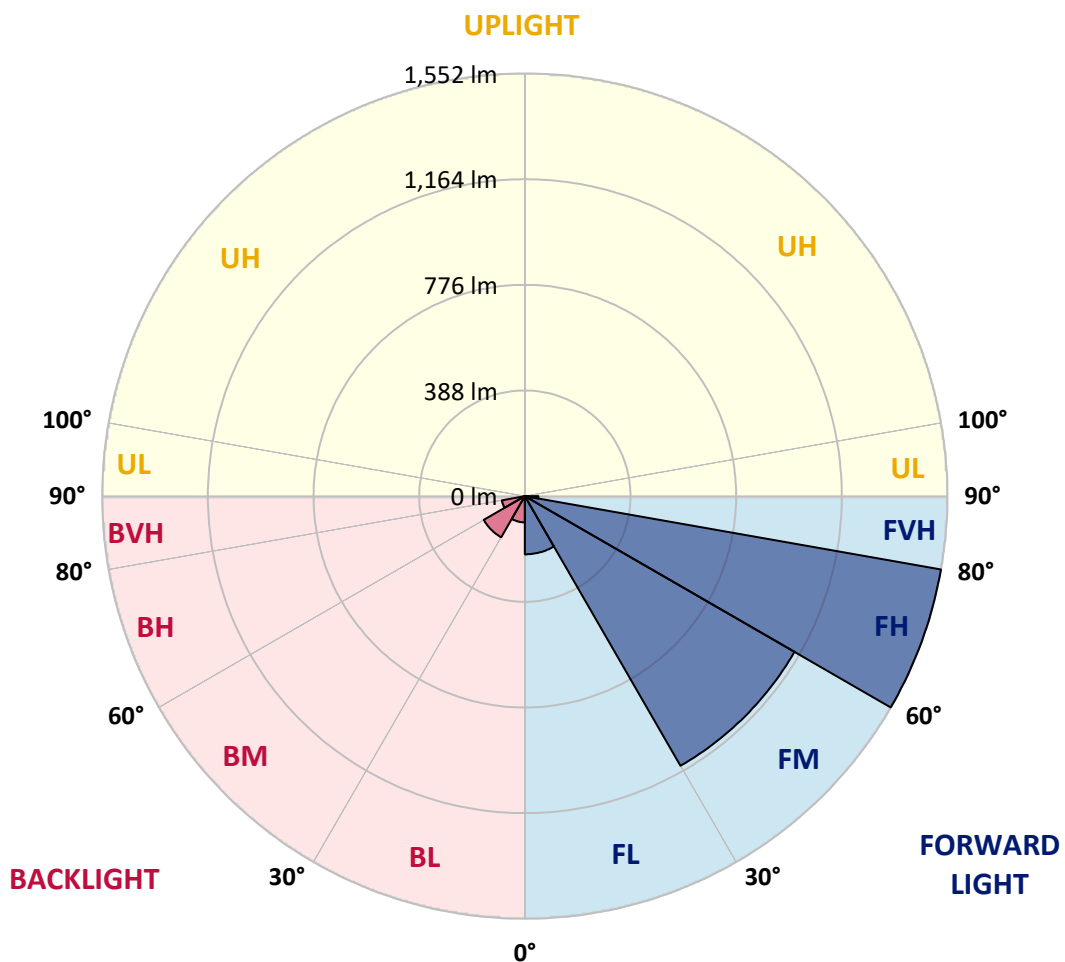
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	213.7	6.4			
FM (30°-60°)	1143.2	34.5			
FH (60°-80°)	1552.0	46.8			G1/1800
FVH (80°-90°)	49.6	1.5			G1/100
BL (0°-30°)	96.5	2.9	B0/110		
BM (30°-60°)	174.4	5.3	B0/220		
BH (60°-80°)	85.8	2.6	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	354.3	354.3	354.3	354.3	354.3	354.3	354.3	354.3	354.3	354.3	354.3
2.5°	396.6	394.9	397.5	396.6	386.5	388.2	387.3	380.6	368.7	362.0	357.7
5°	442.3	446.5	443.1	435.5	429.6	417.8	416.1	405.1	386.5	374.6	362.0
7.5°	489.7	489.7	482.9	471.0	458.4	445.7	444.0	425.4	409.3	389.0	371.3
10°	525.2	520.9	515.9	503.2	488.8	471.9	463.4	449.9	432.1	407.6	384.8
12.5°	556.5	549.7	541.2	522.6	505.7	487.1	488.8	466.8	455.0	433.0	399.2
15°	574.2	568.3	560.7	543.8	517.6	509.1	505.7	492.2	471.0	449.1	416.9
17.5°	578.4	574.2	564.1	542.1	527.7	517.6	516.7	500.6	491.3	472.7	437.2
20°	570.0	562.4	554.8	540.4	526.9	523.5	520.9	520.9	509.1	484.6	449.9
22.5°	555.6	547.2	542.9	534.5	523.5	522.6	524.3	522.6	513.3	497.3	463.4
25°	544.6	540.4	533.6	531.1	524.3	537.0	534.5	531.9	529.4	510.8	484.6
27.5°	548.0	547.2	542.1	531.9	526.9	540.4	548.0	548.8	548.0	529.4	504.0
30°	549.7	545.5	540.4	537.9	539.5	553.1	553.1	571.7	564.1	545.5	523.5
32.5°	569.1	566.6	549.7	543.8	544.6	560.7	561.5	580.1	577.6	564.9	540.4
35°	610.6	593.7	569.1	552.2	552.2	573.4	566.6	593.7	600.4	580.1	552.2
37.5°	672.3	659.6	615.7	577.6	563.2	578.4	585.2	600.4	620.7	603.0	575.9
40°	794.9	792.4	729.8	647.8	591.1	604.7	607.2	630.9	644.4	619.9	612.3
42.5°	974.2	961.5	903.2	773.8	641.9	636.0	645.3	660.5	692.6	672.3	653.7
45°	1149.3	1143.4	1085.0	940.4	734.1	698.5	693.5	720.5	767.9	745.9	731.5
47.5°	1276.1	1264.3	1231.3	1109.5	869.4	772.1	775.5	802.6	862.6	845.7	849.9
50°	1373.4	1367.5	1332.8	1266.0	1040.2	888.0	881.2	908.3	989.5	1000.4	1012.3
52.5°	1479.9	1490.9	1444.4	1387.8	1242.3	1043.6	1028.4	1037.7	1142.5	1167.9	1200.9
55°	1582.3	1600.0	1553.5	1545.9	1453.7	1216.1	1213.6	1191.6	1326.9	1330.3	1348.0
57.5°	1649.1	1643.2	1639.8	1681.2	1665.2	1414.0	1401.3	1379.3	1501.9	1479.9	1533.2
60°	1654.2	1671.1	1727.7	1830.1	1858.8	1646.5	1627.9	1567.9	1653.3	1600.9	1702.4
62.5°	1692.2	1705.7	1810.6	1951.8	1989.1	1851.2	1863.9	1711.7	1782.7	1741.3	1890.1
65°	1595.8	1638.1	1848.7	2046.6	2159.9	2058.4	2045.7	1896.9	1915.5	1876.6	2075.3
67.5°	1508.7	1524.8	1744.6	2075.3	2295.2	2266.4	2261.4	2060.9	2052.5	1980.6	2127.7
70°	1226.2	1245.7	1463.0	1928.2	2340.9	2509.1	2497.3	2291.0	2145.5	1923.9	1858.8
72.5°	702.8	741.7	1014.0	1485.0	2103.2	2576.8	2587.8	2328.2	2035.6	1617.8	1241.5
75°	230.0	241.0	421.2	841.5	1573.0	2247.8	2228.4	2000.9	1642.3	1068.1	560.7
77.5°	77.8	79.5	124.3	304.4	871.9	1518.9	1529.8	1430.1	1008.9	444.0	154.8
80°	39.7	42.3	60.9	114.2	358.6	827.1	844.8	815.2	422.8	131.1	37.2
82.5°	18.6	19.5	35.5	63.4	164.1	324.7	324.7	356.9	149.7	73.6	15.2
85°	6.8	6.8	18.6	36.4	69.3	108.2	109.1	109.9	78.6	55.0	6.8
87.5°	2.5	2.5	9.3	15.2	25.4	33.0	33.0	26.2	39.7	36.4	2.5
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°	354.3	354.3	354.3	354.3	354.3	354.3	354.3	354.3	354.3	354.3	354.3
2.5°	356.0	351.0	346.7	340.8	333.2	329.0	329.8	324.7	324.7	322.2	321.4
5°	356.0	351.0	340.0	329.8	323.1	314.6	310.4	307.0	307.0	305.3	306.1
7.5°	358.6	351.0	335.7	322.2	311.2	302.8	296.0	295.1	293.5	289.2	292.6
10°	373.8	362.8	337.4	318.8	306.1	296.8	285.0	281.6	276.5	268.9	269.8
12.5°	386.5	372.1	349.3	323.9	307.8	292.6	265.5	235.9	223.3	209.7	210.6
15°	405.1	384.8	353.5	330.7	307.8	258.8	209.7	171.7	151.4	141.2	141.2
17.5°	415.2	398.3	365.3	334.9	283.3	210.6	148.8	115.9	112.5	114.2	114.2
20°	436.4	413.5	378.9	338.3	242.7	149.7	109.1	105.7	107.4	110.8	109.9
22.5°	449.9	427.1	389.0	323.1	187.7	107.4	102.3	100.6	102.3	106.6	106.6
25°	460.9	446.5	405.1	285.8	132.8	97.3	95.6	97.3	98.9	100.6	103.2
27.5°	488.0	463.4	416.1	237.6	95.6	90.5	92.2	93.0	93.0	95.6	96.4
30°	505.7	486.3	424.5	183.5	84.6	83.7	85.4	86.3	87.1	89.6	90.5
32.5°	522.6	515.9	413.5	124.3	79.5	77.8	77.0	77.8	81.2	83.7	82.9
35°	547.2	542.9	397.5	86.3	74.4	71.0	69.3	70.2	72.7	75.3	74.4
37.5°	576.8	581.0	358.6	75.3	69.3	65.1	61.7	61.7	62.6	65.1	66.0
40°	611.4	622.4	312.9	70.2	66.0	60.9	57.5	53.3	52.4	51.6	52.4
42.5°	674.9	687.5	261.3	66.8	60.9	55.0	49.9	44.8	40.6	38.1	38.1
45°	763.7	753.5	193.7	63.4	58.4	49.9	42.3	36.4	30.4	27.9	27.9
47.5°	886.3	851.6	132.8	60.0	54.1	44.0	35.5	27.9	22.8	20.3	20.3
50°	1056.3	942.1	86.3	56.7	51.6	38.1	28.8	20.3	16.9	16.1	16.9
52.5°	1216.9	1034.3	68.5	52.4	46.5	33.0	22.0	16.9	15.2	14.4	14.4
55°	1364.9	1080.8	60.9	48.2	42.3	27.1	18.6	14.4	13.5	12.7	12.7
57.5°	1490.1	1096.9	52.4	42.3	33.8	21.1	15.2	12.7	11.0	10.1	10.1
60°	1598.3	1101.1	40.6	33.8	24.5	16.1	12.7	11.0	9.3	7.6	7.6
62.5°	1684.6	1071.5	28.8	23.7	16.9	12.7	11.0	7.6	5.1	3.4	2.5
65°	1753.1	1012.3	19.5	16.1	11.0	9.3	6.8	3.4	0.8	0.0	0.0
67.5°	1672.8	877.8	15.2	11.8	7.6	5.9	3.4	0.8	0.0	0.0	0.0
70°	1364.1	680.8	11.0	7.6	5.1	1.7	0.8	0.0	0.0	0.0	0.0
72.5°	928.6	438.9	8.5	5.1	2.5	0.8	0.0	0.0	0.0	0.0	0.0
75°	416.9	157.3	5.9	3.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	101.5	37.2	4.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	27.1	9.3	2.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.1	3.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	0.8	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)