

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: P676480

Luminaire Tested: **CCW-SA-2B-835-U-T3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676480  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2B-835-U-T3-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/  
T3 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: 4099.6 lumens  
Efficiency: N/A  
Efficacy: 89.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

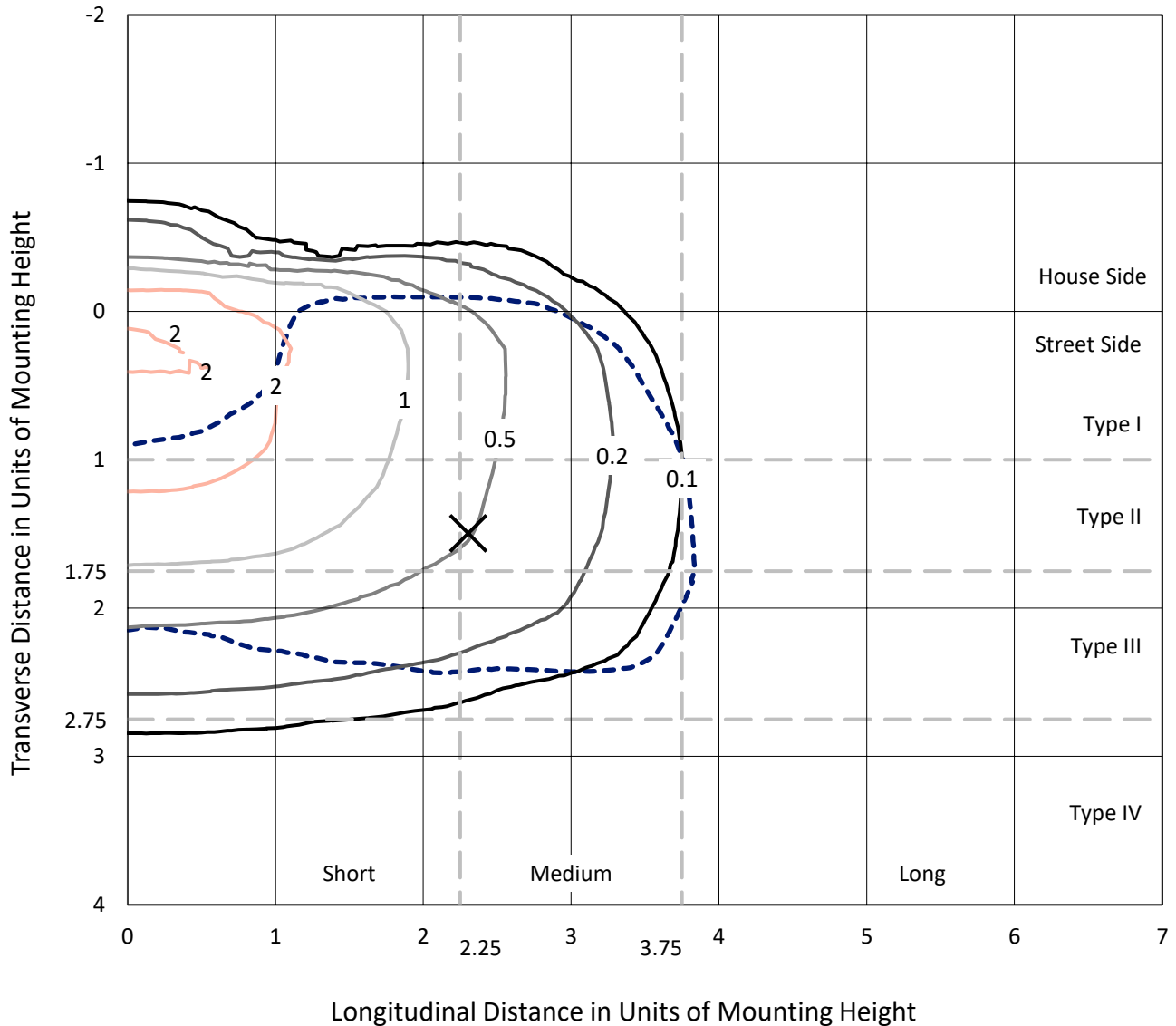
Input Watts (W): 46  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

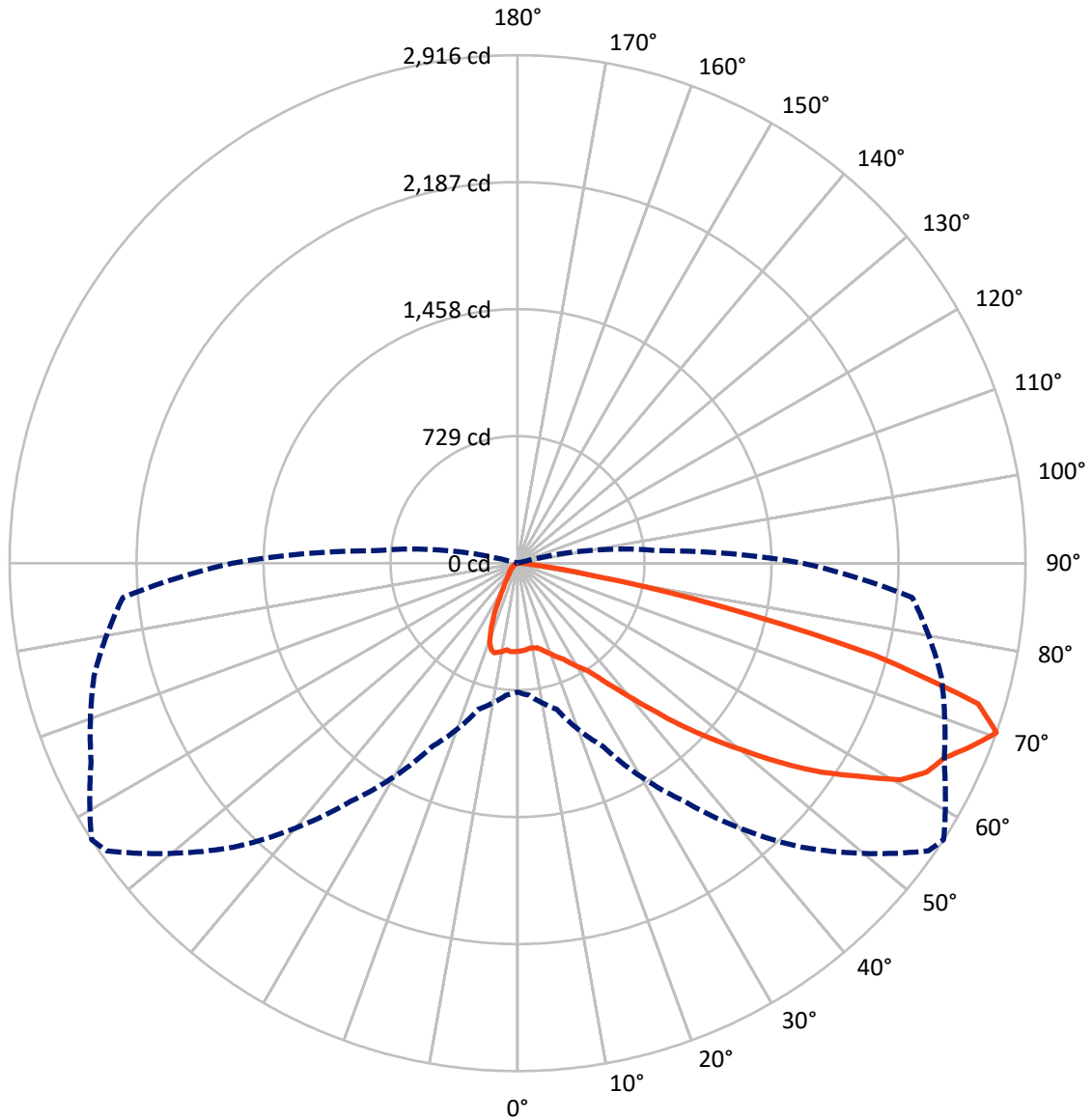
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	483.2	0.0	483.2
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	3616.4	0.0	3616.4
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	4099.6	0.0	4099.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.3	1.2
10°-20°	132.2	3.2
20°-30°	222.6	5.4
30°-40°	381.0	9.3
40°-50°	639.8	15.6
50°-60°	982.0	24.0
60°-70°	1133.8	27.7
70°-80°	535.6	13.1
80°-90°	25.4	0.6
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°	4099.6	100.0
0°-180°	4099.6	100.0



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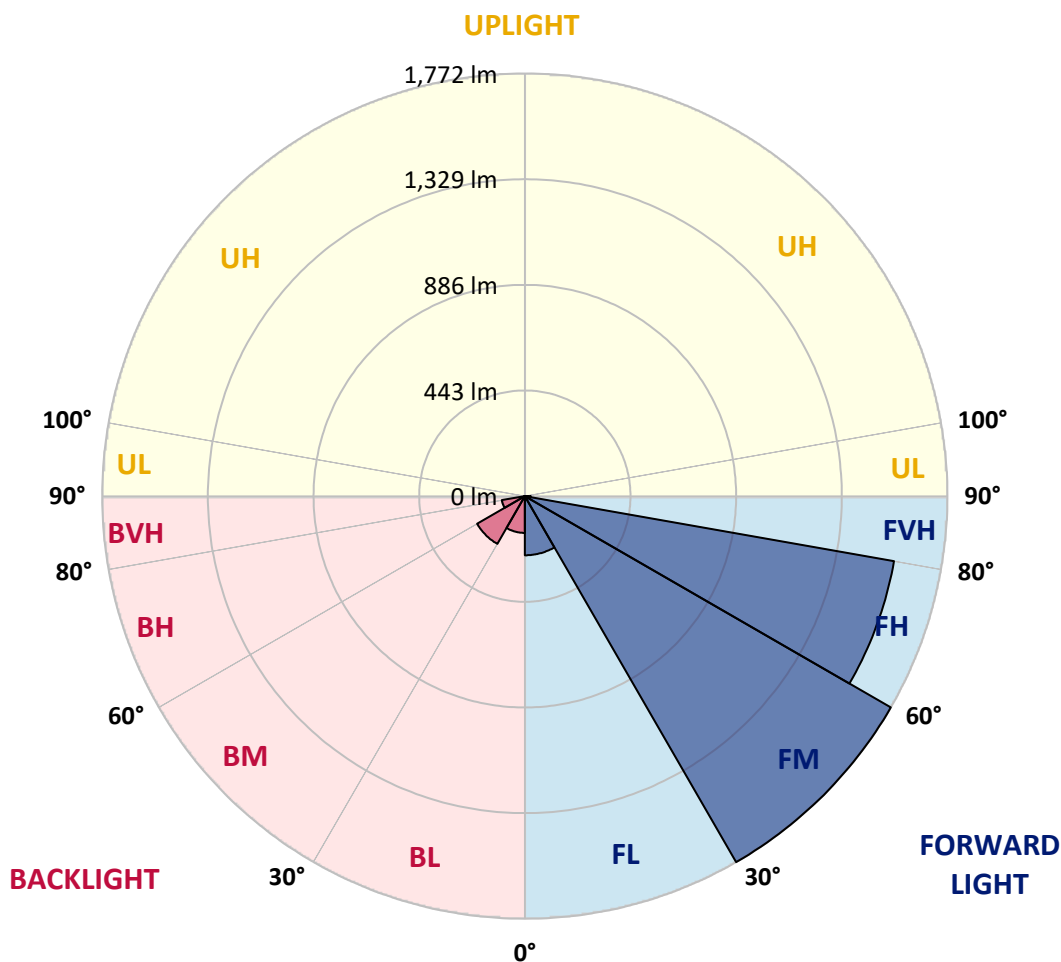
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	248.0	6.0			
FM (30°-60°)	1771.8	43.2			
FH (60°-80°)	1571.6	38.3			G1/1800
FVH (80°-90°)	25.0	0.6			G1/100
BL (0°-30°)	154.1	3.8	B1/500		
BM (30°-60°)	231.0	5.6	B1/1000		
BH (60°-80°)	97.7	2.4	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-G1**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8
2.5°	498.5	495.4	498.5	502.7	498.5	501.7	500.6	503.7	499.6	499.6	502.7
5°	466.0	471.3	473.4	478.6	483.9	493.3	499.6	499.6	505.8	509.0	513.2
7.5°	454.5	446.1	454.5	458.7	464.0	479.7	489.1	493.3	501.7	513.2	519.5
10°	437.8	444.1	444.1	457.7	465.0	474.4	491.2	494.3	513.2	524.7	531.0
12.5°	436.7	436.7	442.0	451.4	466.0	483.9	504.8	498.5	518.4	539.4	549.8
15°	439.9	447.2	447.2	459.8	471.3	496.4	514.2	515.3	543.5	564.5	573.9
17.5°	453.5	450.3	454.5	461.9	479.7	503.7	533.1	536.2	568.7	597.0	610.6
20°	481.8	487.0	480.7	476.5	483.9	515.3	553.0	559.3	595.9	623.1	636.8
22.5°	587.5	583.3	558.2	528.9	516.3	531.0	571.8	586.5	629.4	661.9	673.4
25°	706.9	699.6	670.3	626.3	568.7	562.4	609.5	609.5	671.3	706.9	703.8
27.5°	820.0	817.9	783.4	737.3	655.6	610.6	639.9	651.4	718.4	747.8	734.2
30°	935.2	937.3	905.9	850.4	764.5	688.1	682.8	692.3	754.1	800.1	771.9
32.5°	1069.3	1050.4	1028.4	952.0	873.4	787.6	738.3	734.2	793.9	835.7	798.0
35°	1188.7	1177.2	1153.1	1084.0	993.9	891.2	822.1	811.7	844.1	899.6	858.8
37.5°	1293.4	1281.9	1250.5	1204.4	1134.2	1020.1	922.7	907.0	920.6	979.2	930.0
40°	1383.5	1386.6	1378.2	1333.2	1268.3	1164.6	1052.5	1027.4	1015.9	1068.2	1012.7
42.5°	1448.4	1478.8	1480.9	1425.4	1373.0	1316.5	1190.8	1170.9	1143.6	1187.6	1148.9
45°	1584.6	1567.8	1578.3	1558.4	1500.8	1492.4	1350.0	1338.4	1300.7	1315.4	1274.6
47.5°	1691.4	1688.2	1708.1	1675.7	1660.0	1661.0	1531.1	1511.2	1457.8	1485.1	1439.0
50°	1753.2	1736.4	1808.7	1833.8	1830.7	1843.2	1714.4	1697.7	1646.3	1686.1	1587.7
52.5°	1767.8	1798.2	1866.3	1957.4	1996.1	2022.3	1914.5	1908.2	1852.7	1877.8	1741.7
55°	1804.5	1833.8	1873.6	2023.4	2166.9	2173.1	2111.3	2117.6	2068.4	2062.1	1888.3
57.5°	1803.4	1797.2	1907.1	2081.0	2280.0	2370.0	2336.5	2306.1	2252.7	2190.9	1982.5
60°	1737.5	1734.3	1848.5	2088.3	2341.8	2548.1	2561.7	2526.1	2392.0	2300.9	2093.5
62.5°	1606.6	1619.1	1734.3	2025.5	2400.4	2612.0	2662.2	2638.1	2471.6	2374.2	2224.5
65°	1456.8	1430.6	1564.7	1868.4	2268.4	2593.1	2702.0	2693.6	2565.9	2453.8	2344.9
67.5°	1168.8	1180.3	1282.9	1607.6	2043.3	2524.0	2795.2	2807.8	2641.3	2524.0	2381.6
70°	740.4	761.4	868.2	1161.5	1668.3	2306.1	2879.0	2915.7	2701.0	2517.7	2274.7
72.5°	215.7	224.1	369.7	579.2	1063.0	1849.5	2745.0	2763.8	2584.7	2285.2	1759.5
75°	71.2	75.4	108.9	188.5	416.8	956.2	2027.6	2116.6	2056.9	1656.8	1006.5
77.5°	47.1	49.2	59.7	90.1	158.1	299.5	1087.1	1182.4	1159.4	776.0	324.7
80°	34.6	35.6	44.0	60.7	96.4	107.9	401.1	464.0	448.2	178.0	64.9
82.5°	22.0	22.0	32.5	42.9	60.7	53.4	116.2	128.8	125.7	68.1	25.1
85°	14.7	15.7	24.1	33.5	33.5	25.1	33.5	38.7	41.9	36.7	11.5
87.5°	4.2	5.2	13.6	23.0	13.6	12.6	11.5	12.6	14.7	19.9	6.3
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°	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8
2.5°	505.8	510.0	509.0	511.1	507.9	504.8	507.9	507.9	507.9	504.8	502.7
5°	510.0	507.9	510.0	505.8	510.0	505.8	503.7	497.5	496.4	496.4	500.6
7.5°	516.3	518.4	509.0	509.0	499.6	501.7	496.4	497.5	495.4	492.2	490.1
10°	525.7	534.1	524.7	521.6	511.1	502.7	490.1	483.9	483.9	479.7	483.9
12.5°	551.9	548.8	543.5	533.1	520.5	503.7	473.4	443.0	417.9	399.0	408.4
15°	572.9	571.8	564.5	544.6	527.8	476.5	400.1	321.5	279.6	260.8	257.6
17.5°	605.3	602.2	589.6	563.4	507.9	394.8	274.4	208.4	167.6	158.1	155.0
20°	635.7	634.7	607.4	573.9	457.7	288.0	179.1	137.2	125.7	126.7	124.6
22.5°	668.2	662.9	630.5	561.4	364.5	191.7	127.8	122.5	118.3	117.3	119.4
25°	704.8	686.0	653.5	533.1	268.1	132.0	120.4	116.2	112.1	111.0	111.0
27.5°	719.5	706.9	664.0	465.0	169.7	115.2	113.1	107.9	102.6	99.5	98.4
30°	753.0	732.1	674.5	365.5	120.4	105.8	102.6	96.4	89.0	83.8	83.8
32.5°	786.5	761.4	675.5	255.5	100.5	95.3	90.1	81.7	72.3	67.0	68.1
35°	828.4	793.9	664.0	165.5	90.1	83.8	73.3	63.9	55.5	51.3	51.3
37.5°	899.6	867.2	616.9	108.9	81.7	71.2	60.7	50.3	42.9	39.8	39.8
40°	989.7	947.8	551.9	85.9	72.3	60.7	48.2	38.7	34.6	31.4	31.4
42.5°	1097.6	1045.2	455.6	76.5	63.9	50.3	37.7	30.4	26.2	26.2	25.1
45°	1205.4	1119.6	357.1	70.2	56.6	41.9	29.3	24.1	22.0	20.9	20.9
47.5°	1359.4	1209.6	255.5	63.9	49.2	32.5	24.1	19.9	17.8	16.8	17.8
50°	1507.1	1294.5	181.2	57.6	40.8	26.2	19.9	17.8	15.7	14.7	14.7
52.5°	1636.9	1353.1	126.7	50.3	34.6	22.0	17.8	15.7	14.7	13.6	13.6
55°	1708.1	1333.2	86.9	42.9	28.3	18.9	15.7	13.6	12.6	11.5	11.5
57.5°	1781.4	1277.7	66.0	35.6	23.0	17.8	14.7	12.6	11.5	10.5	10.5
60°	1843.2	1236.9	51.3	28.3	18.9	14.7	12.6	10.5	9.4	8.4	7.3
62.5°	1846.4	1155.2	37.7	20.9	14.7	12.6	10.5	8.4	5.2	4.2	3.1
65°	1858.9	1069.3	27.2	15.7	10.5	9.4	7.3	4.2	2.1	0.0	0.0
67.5°	1815.0	967.7	22.0	11.5	7.3	5.2	3.1	1.0	0.0	0.0	0.0
70°	1635.9	816.9	16.8	8.4	5.2	3.1	1.0	0.0	0.0	0.0	0.0
72.5°	1170.9	531.0	11.5	6.3	2.1	1.0	0.0	0.0	0.0	0.0	0.0
75°	624.2	226.2	8.4	4.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	195.8	57.6	5.2	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	42.9	15.7	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	14.7	6.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.2	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	1.0	1.0	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)