

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: P676500

Luminaire Tested: **CCW-SA-1F-850-U-T3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676500  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1F-850-U-T3-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/  
T3 distribution lens and House Side Shield  
Light Source: (16) 5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

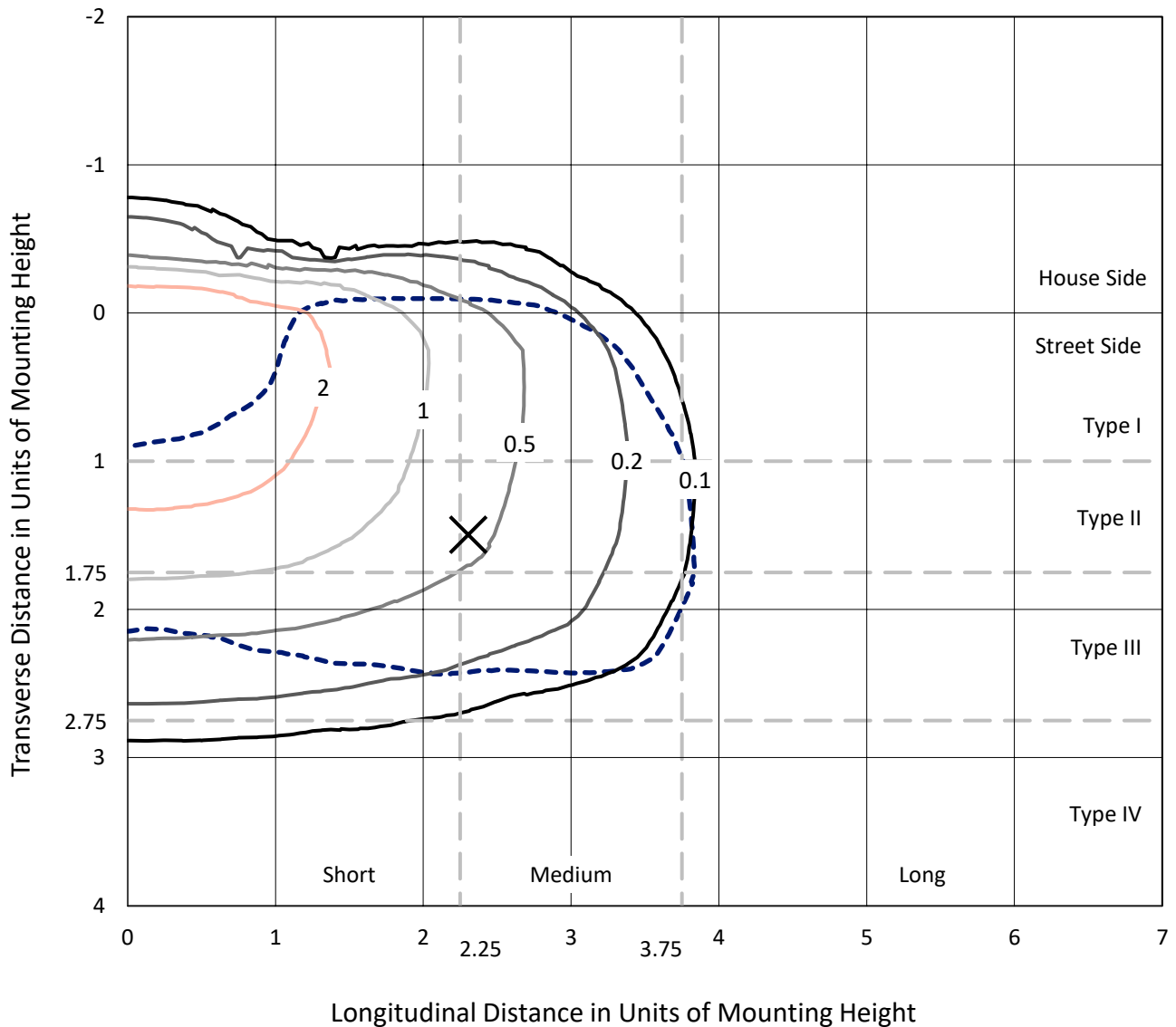
Lumens per Lamp: N/A  
Luminaire Lumens: 4713.3 lumens  
Efficiency: N/A  
Efficacy: 70.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

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

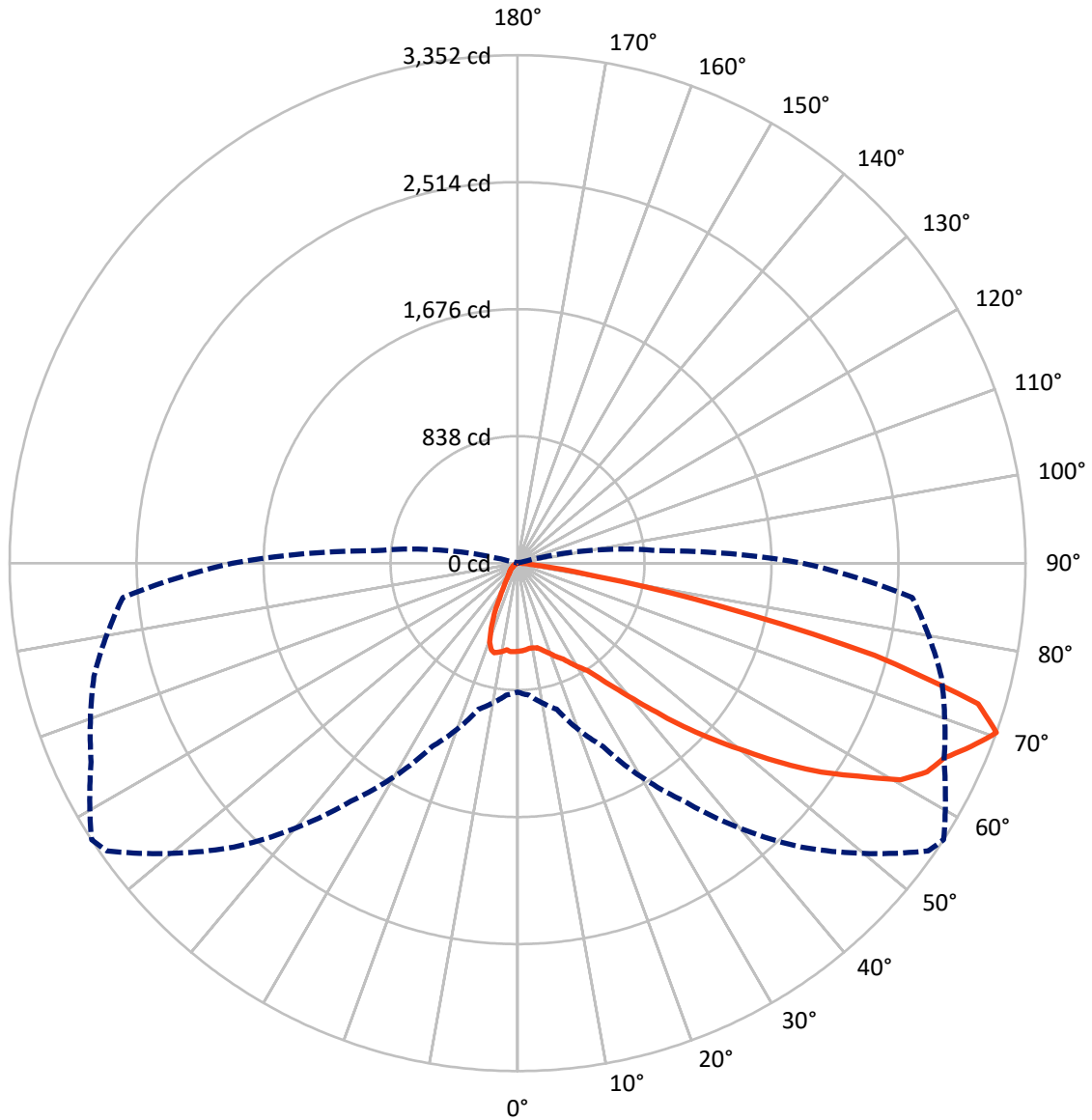
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.3 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	555.6	0.0	555.6
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	4157.7	0.0	4157.7
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	4713.3	0.0	4713.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.4	1.2
10°-20°	151.9	3.2
20°-30°	255.9	5.4
30°-40°	438.0	9.3
40°-50°	735.5	15.6
50°-60°	1129.0	24.0
60°-70°	1303.5	27.7
70°-80°	615.7	13.1
80°-90°	29.2	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°	4713.3	100.0
0°-180°	4713.3	100.0



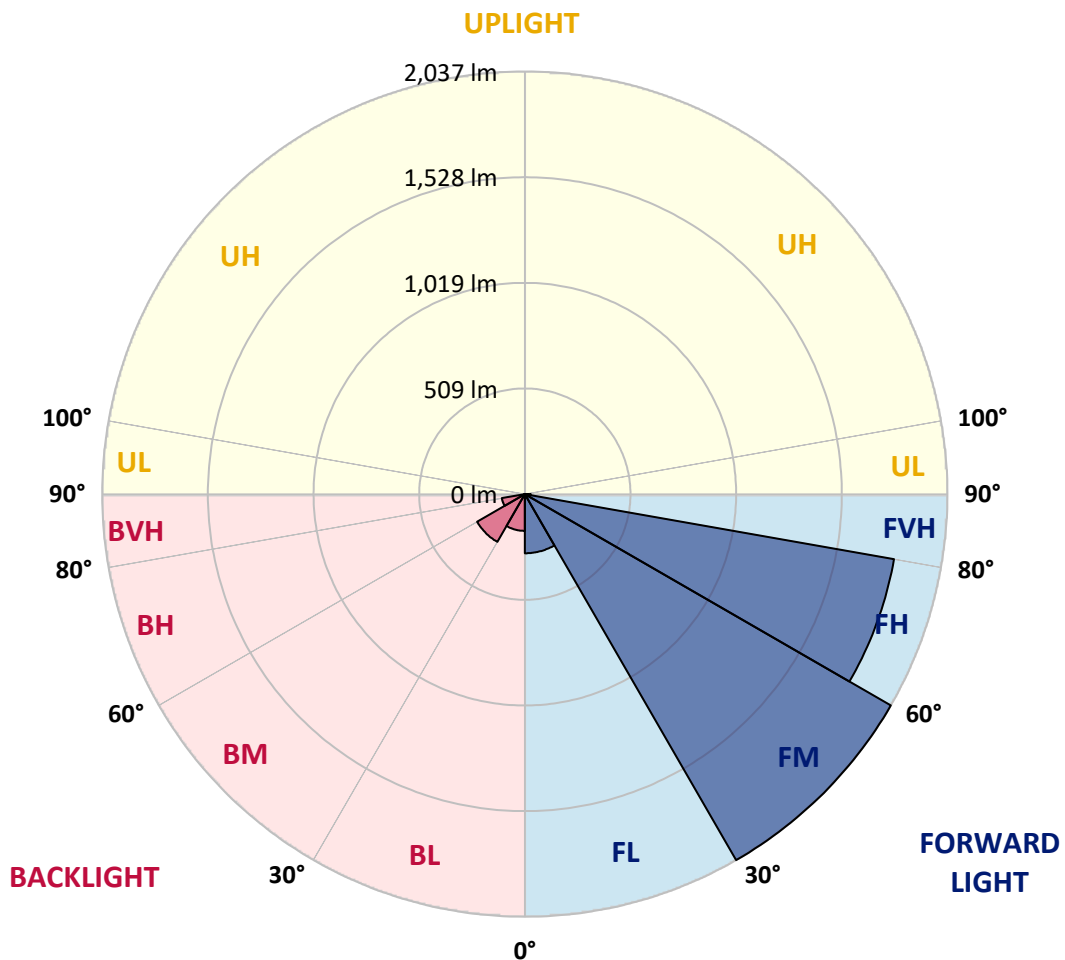
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	285.1	6.0			
FM	(30°-60°)	2037.0	43.2			
FH	(60°-80°)	1806.9	38.3			G2/5000
FVH	(80°-90°)	28.7	0.6			G1/100
BL	(0°-30°)	177.1	3.8	B1/500		
BM	(30°-60°)	265.6	5.6	B1/1000		
BH	(60°-80°)	112.4	2.4	B1/500		G1/500
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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	581.6	581.6	581.6	581.6	581.6	581.6	581.6	581.6	581.6	581.6	581.6
2.5°	573.1	569.5	573.1	577.9	573.1	576.7	575.5	579.1	574.3	574.3	577.9
5°	535.8	541.8	544.2	550.3	556.3	567.1	574.3	574.3	581.6	585.2	590.0
7.5°	522.6	512.9	522.6	527.4	533.4	551.5	562.3	567.1	576.7	590.0	597.2
10°	503.3	510.5	510.5	526.2	534.6	545.4	564.7	568.3	590.0	603.2	610.5
12.5°	502.1	502.1	508.1	518.9	535.8	556.3	580.4	573.1	596.0	620.1	632.1
15°	505.7	514.1	514.1	528.6	541.8	570.7	591.2	592.4	624.9	649.0	659.8
17.5°	521.4	517.7	522.6	531.0	551.5	579.1	612.9	616.5	653.8	686.3	702.0
20°	553.9	559.9	552.7	547.8	556.3	592.4	635.7	643.0	685.1	716.4	732.1
22.5°	675.5	670.7	641.8	608.0	593.6	610.5	657.4	674.3	723.6	761.0	774.2
25°	812.7	804.3	770.6	720.0	653.8	646.6	700.8	700.8	771.8	812.7	809.1
27.5°	942.8	940.4	900.6	847.7	753.7	702.0	735.7	748.9	826.0	859.7	844.0
30°	1075.2	1077.6	1041.5	977.7	879.0	791.1	785.0	795.9	866.9	919.9	887.4
32.5°	1229.3	1207.7	1182.4	1094.5	1004.2	905.4	848.9	844.0	912.7	960.8	917.5
35°	1366.6	1353.4	1325.7	1246.2	1142.6	1024.6	945.2	933.1	970.5	1034.3	987.3
37.5°	1487.0	1473.8	1437.6	1384.7	1304.0	1172.7	1060.8	1042.7	1058.4	1125.8	1069.2
40°	1590.6	1594.2	1584.5	1532.8	1458.1	1338.9	1210.1	1181.2	1167.9	1228.1	1164.3
42.5°	1665.2	1700.1	1702.5	1638.7	1578.5	1513.5	1369.0	1346.1	1314.8	1365.4	1320.8
45°	1821.7	1802.5	1814.5	1791.6	1725.4	1715.8	1552.0	1538.8	1495.4	1512.3	1465.3
47.5°	1944.5	1940.9	1963.8	1926.5	1908.4	1909.6	1760.3	1737.4	1676.0	1707.3	1654.4
50°	2015.6	1996.3	2079.4	2108.3	2104.7	2119.1	1971.0	1951.8	1892.8	1938.5	1825.3
52.5°	2032.4	2067.4	2145.6	2250.4	2294.9	2325.0	2201.0	2193.8	2130.0	2158.9	2002.3
55°	2074.6	2108.3	2154.0	2326.2	2491.2	2498.4	2427.4	2434.6	2378.0	2370.8	2170.9
57.5°	2073.4	2066.2	2192.6	2392.4	2621.2	2724.8	2686.2	2651.3	2589.9	2518.9	2279.3
60°	1997.5	1993.9	2125.1	2400.9	2692.3	2929.5	2945.1	2904.2	2750.1	2645.3	2406.9
62.5°	1847.0	1861.5	1993.9	2328.6	2759.7	3002.9	3060.7	3033.0	2841.6	2729.6	2557.4
65°	1674.8	1644.7	1798.9	2148.0	2608.0	2981.2	3106.4	3096.8	2949.9	2821.1	2695.9
67.5°	1343.7	1357.0	1475.0	1848.2	2349.1	2901.8	3213.6	3228.1	3036.6	2901.8	2738.0
70°	851.3	875.3	998.2	1335.3	1918.1	2651.3	3309.9	3352.1	3105.2	2894.5	2615.2
72.5°	248.0	257.7	425.0	665.8	1222.1	2126.4	3155.8	3177.5	2971.6	2627.2	2022.8
75°	81.9	86.7	125.2	216.7	479.2	1099.3	2331.0	2433.4	2364.8	1904.8	1157.1
77.5°	54.2	56.6	68.6	103.5	181.8	344.4	1249.8	1359.4	1332.9	892.2	373.3
80°	39.7	40.9	50.6	69.8	110.8	124.0	461.2	533.4	515.3	204.7	74.7
82.5°	25.3	25.3	37.3	49.4	69.8	61.4	133.6	148.1	144.5	78.3	28.9
85°	16.9	18.1	27.7	38.5	38.5	28.9	38.5	44.5	48.2	42.1	13.2
87.5°	4.8	6.0	15.7	26.5	15.7	14.4	13.2	14.4	16.9	22.9	7.2
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°	581.6	581.6	581.6	581.6	581.6	581.6	581.6	581.6	581.6	581.6	581.6
2.5°	581.6	586.4	585.2	587.6	584.0	580.4	584.0	584.0	584.0	580.4	577.9
5°	586.4	584.0	586.4	581.6	586.4	581.6	579.1	571.9	570.7	570.7	575.5
7.5°	593.6	596.0	585.2	585.2	574.3	576.7	570.7	571.9	569.5	565.9	563.5
10°	604.4	614.1	603.2	599.6	587.6	577.9	563.5	556.3	556.3	551.5	556.3
12.5°	634.5	630.9	624.9	612.9	598.4	579.1	544.2	509.3	480.4	458.7	469.6
15°	658.6	657.4	649.0	626.1	606.8	547.8	459.9	369.6	321.5	299.8	296.2
17.5°	695.9	692.3	677.9	647.8	584.0	453.9	315.5	239.6	192.6	181.8	178.2
20°	730.9	729.7	698.3	659.8	526.2	331.1	205.9	157.7	144.5	145.7	143.3
22.5°	768.2	762.2	724.8	645.4	419.0	220.3	146.9	140.9	136.1	134.9	137.3
25°	810.3	788.7	751.3	612.9	308.2	151.7	138.5	133.6	128.8	127.6	127.6
27.5°	827.2	812.7	763.4	534.6	195.1	132.4	130.0	124.0	118.0	114.4	113.2
30°	865.7	841.6	775.4	420.2	138.5	121.6	118.0	110.8	102.3	96.3	96.3
32.5°	904.2	875.3	776.6	293.8	115.6	109.6	103.5	93.9	83.1	77.1	78.3
35°	952.4	912.7	763.4	190.2	103.5	96.3	84.3	73.4	63.8	59.0	59.0
37.5°	1034.3	997.0	709.2	125.2	93.9	81.9	69.8	57.8	49.4	45.8	45.8
40°	1137.8	1089.7	634.5	98.7	83.1	69.8	55.4	44.5	39.7	36.1	36.1
42.5°	1261.8	1201.6	523.8	87.9	73.4	57.8	43.3	34.9	30.1	30.1	28.9
45°	1385.9	1287.1	410.6	80.7	65.0	48.2	33.7	27.7	25.3	24.1	24.1
47.5°	1562.9	1390.7	293.8	73.4	56.6	37.3	27.7	22.9	20.5	19.3	20.5
50°	1732.6	1488.2	208.3	66.2	47.0	30.1	22.9	20.5	18.1	16.9	16.9
52.5°	1881.9	1555.6	145.7	57.8	39.7	25.3	20.5	18.1	16.9	15.7	15.7
55°	1963.8	1532.8	99.9	49.4	32.5	21.7	18.1	15.7	14.4	13.2	13.2
57.5°	2048.1	1468.9	75.9	40.9	26.5	20.5	16.9	14.4	13.2	12.0	12.0
60°	2119.1	1422.0	59.0	32.5	21.7	16.9	14.4	12.0	10.8	9.6	8.4
62.5°	2122.7	1328.1	43.3	24.1	16.9	14.4	12.0	9.6	6.0	4.8	3.6
65°	2137.2	1229.3	31.3	18.1	12.0	10.8	8.4	4.8	2.4	0.0	0.0
67.5°	2086.6	1112.5	25.3	13.2	8.4	6.0	3.6	1.2	0.0	0.0	0.0
70°	1880.7	939.2	19.3	9.6	6.0	3.6	1.2	0.0	0.0	0.0	0.0
72.5°	1346.1	610.5	13.2	7.2	2.4	1.2	0.0	0.0	0.0	0.0	0.0
75°	717.6	260.1	9.6	4.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	225.2	66.2	6.0	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	49.4	18.1	3.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.9	7.2	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.0	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	1.2	1.2	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)