

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: P676791

Luminaire Tested: **CCW-SA-2C-850-U-T4W-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676791  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2C-850-U-T4W-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/  
T4W distribution lens and House Side Shield  
Light Source: (32) 5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

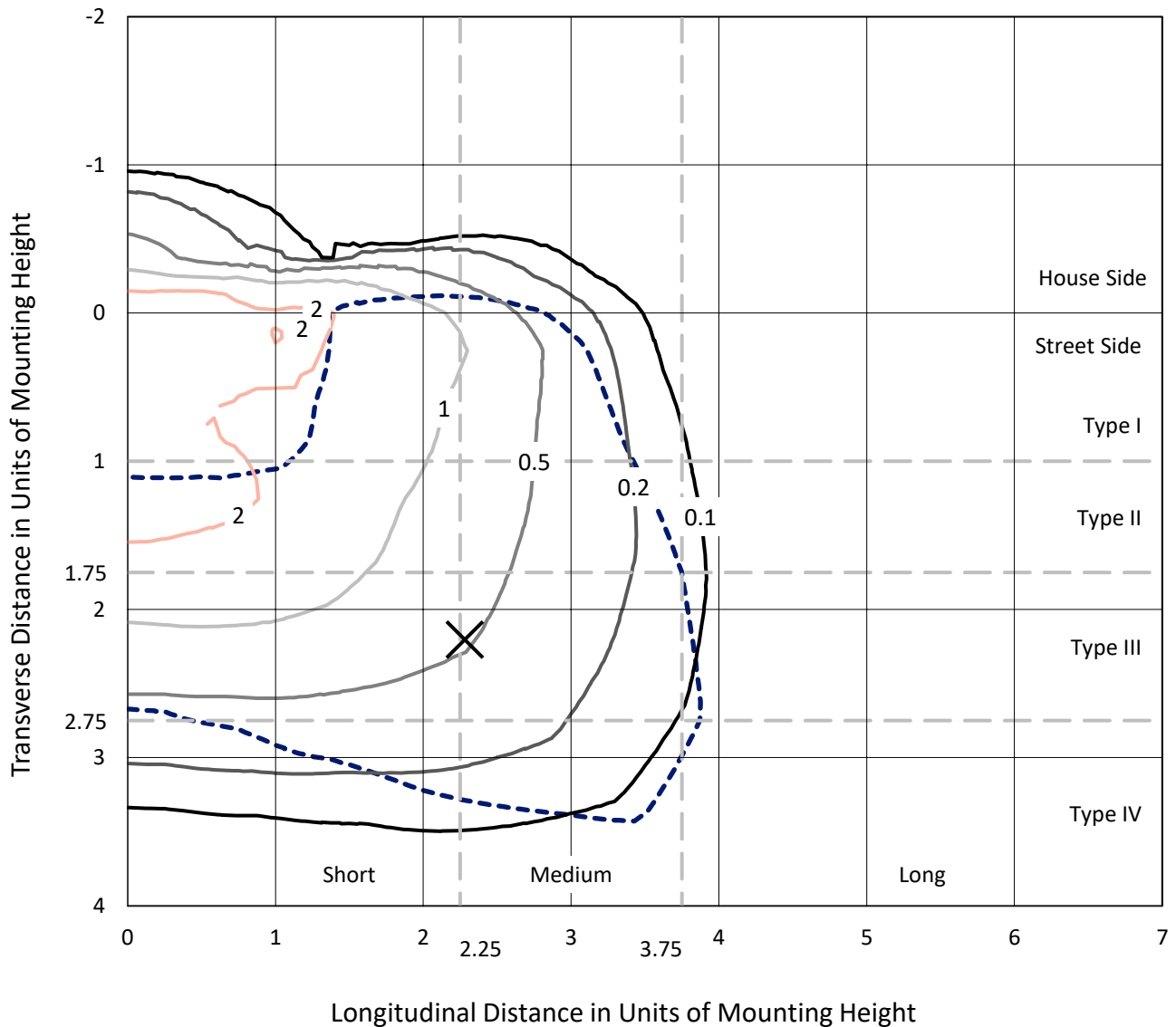
Lumens per Lamp: N/A  
Luminaire Lumens: 5692.2 lumens  
Efficiency: N/A  
Efficacy: 91.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

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

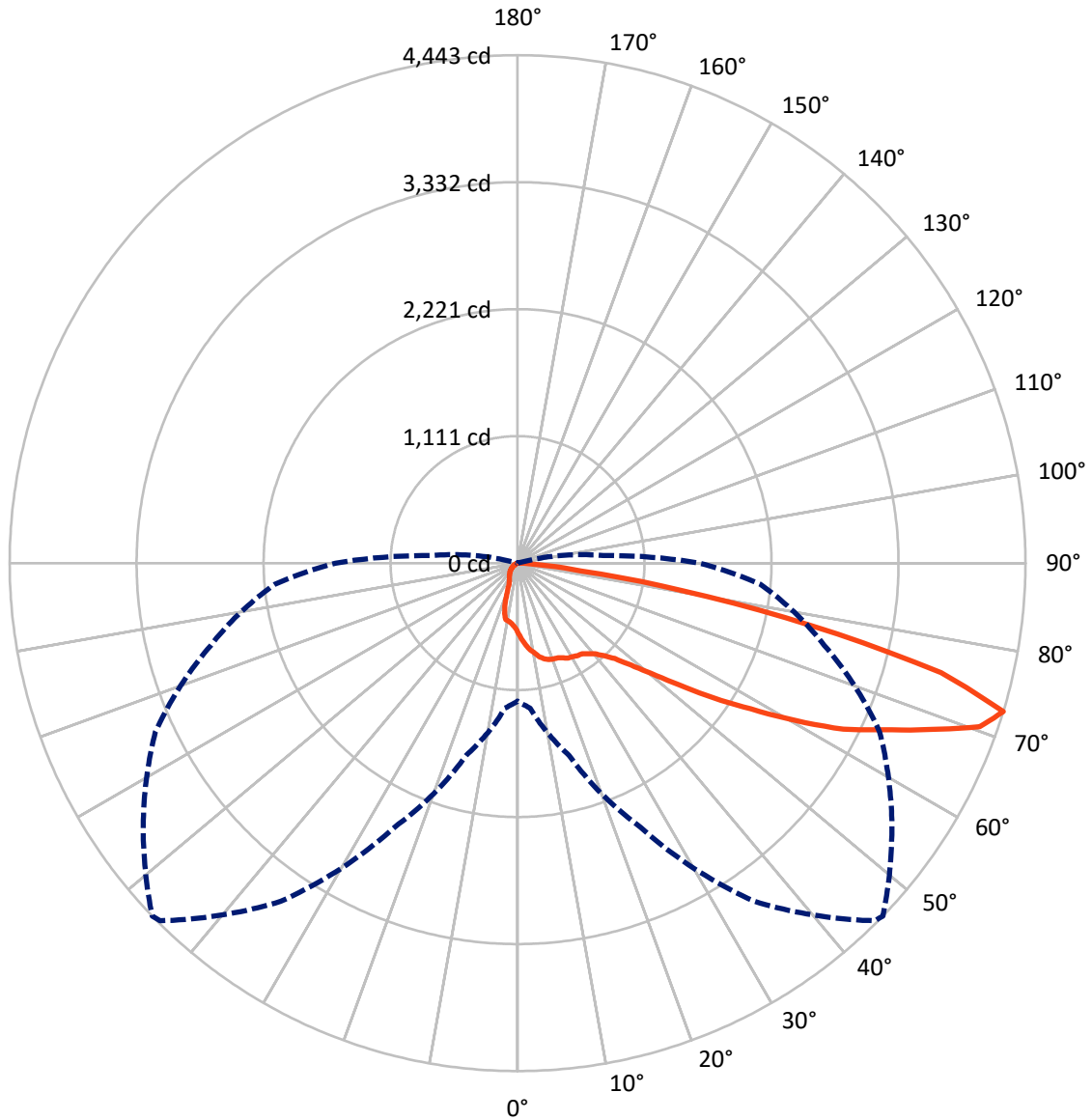
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4 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	612.8	0.0	612.8
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	5079.4	0.0	5079.4
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	5692.2	0.0	5692.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.9	1.1
10°-20°	183.8	3.2
20°-30°	287.8	5.1
30°-40°	403.0	7.1
40°-50°	664.6	11.7
50°-60°	1194.5	21.0
60°-70°	1731.3	30.4
70°-80°	1080.5	19.0
80°-90°	85.6	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°	5692.2	100.0
0°-180°	5692.2	100.0



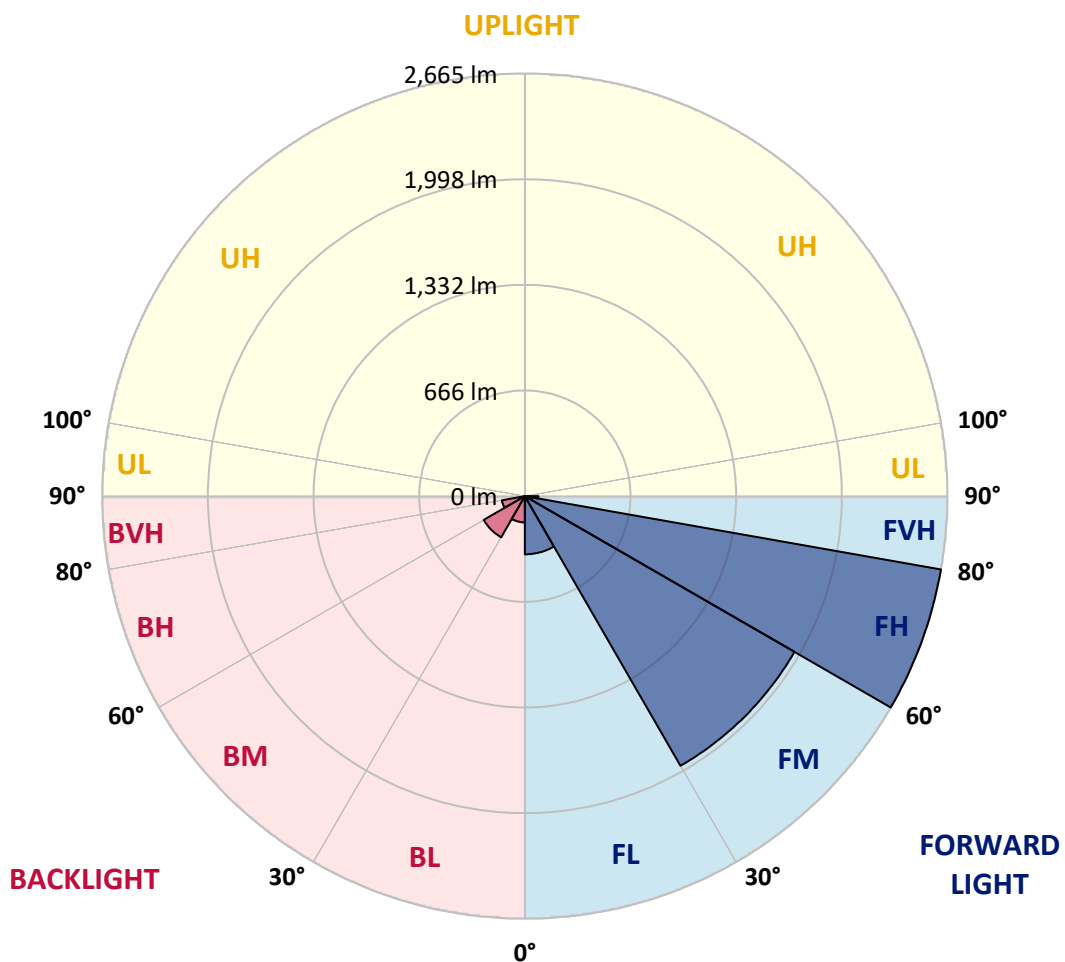
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	366.9	6.4			
FM (30°-60°)	1962.8	34.5			
FH (60°-80°)	2664.5	46.8			G2/5000
FVH (80°-90°)	85.2	1.5			G1/100
BL (0°-30°)	165.6	2.9	B1/500		
BM (30°-60°)	299.4	5.3	B1/1000		
BH (60°-80°)	147.4	2.6	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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	608.4	608.4	608.4	608.4	608.4	608.4	608.4	608.4	608.4	608.4	608.4
2.5°	681.0	678.1	682.4	681.0	663.5	666.4	665.0	653.4	633.0	621.4	614.2
5°	759.4	766.6	760.8	747.7	737.6	717.3	714.3	695.5	663.5	643.2	621.4
7.5°	840.7	840.7	829.1	808.7	786.9	765.2	762.3	730.3	702.7	667.9	637.4
10°	901.6	894.4	885.7	863.9	839.2	810.2	795.7	772.4	741.9	699.8	660.6
12.5°	955.4	943.8	929.2	897.3	868.3	836.3	839.2	801.5	781.1	743.4	685.3
15°	985.9	975.7	962.6	933.6	888.6	874.1	868.3	845.0	808.7	771.0	715.8
17.5°	993.1	985.9	968.4	930.7	906.0	888.6	887.1	859.5	843.6	811.6	750.6
20°	978.6	965.5	952.5	927.8	904.6	898.7	894.4	894.4	874.1	832.0	772.4
22.5°	953.9	939.4	932.1	917.6	898.7	897.3	900.2	897.3	881.3	853.7	795.7
25°	935.0	927.8	916.2	911.8	900.2	922.0	917.6	913.3	908.9	877.0	832.0
27.5°	940.9	939.4	930.7	913.3	904.6	927.8	940.9	942.3	940.9	908.9	865.4
30°	943.8	936.5	927.8	923.4	926.3	949.6	949.6	981.5	968.4	936.5	898.7
32.5°	977.1	972.8	943.8	933.6	935.0	962.6	964.1	996.0	991.7	969.9	927.8
35°	1048.3	1019.3	977.1	948.1	948.1	984.4	972.8	1019.3	1030.9	996.0	948.1
37.5°	1154.3	1132.5	1057.0	991.7	967.0	993.1	1004.7	1030.9	1065.7	1035.2	988.8
40°	1364.8	1360.5	1253.0	1112.2	1014.9	1038.1	1042.5	1083.1	1106.4	1064.3	1051.2
42.5°	1672.6	1650.8	1550.7	1328.5	1102.0	1091.9	1107.8	1134.0	1189.1	1154.3	1122.3
45°	1973.2	1963.0	1862.8	1614.5	1260.3	1199.3	1190.6	1237.0	1318.4	1280.6	1255.9
47.5°	2191.0	2170.6	2114.0	1904.9	1492.6	1325.6	1331.4	1377.9	1481.0	1451.9	1459.2
50°	2357.9	2347.8	2288.2	2173.5	1785.9	1524.5	1512.9	1559.4	1698.8	1717.6	1738.0
52.5°	2540.9	2559.8	2479.9	2382.6	2132.9	1791.7	1765.5	1781.5	1961.6	2005.1	2061.7
55°	2716.6	2747.1	2667.2	2654.1	2495.9	2087.9	2083.5	2045.8	2278.1	2283.9	2314.4
57.5°	2831.3	2821.1	2815.3	2886.4	2858.9	2427.6	2405.8	2368.1	2578.6	2540.9	2632.4
60°	2840.0	2869.0	2966.3	3142.0	3191.3	2826.9	2795.0	2691.9	2838.5	2748.5	2922.7
62.5°	2905.3	2928.5	3108.6	3351.1	3414.9	3178.3	3200.1	2938.7	3060.7	2989.5	3245.1
65°	2739.8	2812.4	3173.9	3513.7	3708.2	3534.0	3512.2	3256.7	3288.6	3221.8	3563.0
67.5°	2590.2	2617.8	2995.3	3563.0	3940.5	3891.2	3882.5	3538.4	3523.8	3400.4	3653.1
70°	2105.3	2138.7	2511.8	3310.4	4018.9	4307.9	4287.6	3933.3	3683.5	3303.1	3191.3
72.5°	1206.6	1273.3	1740.9	2549.6	3611.0	4424.0	4442.9	3997.2	3494.8	2777.5	2131.4
75°	394.9	413.8	723.1	1444.7	2700.6	3859.2	3825.8	3435.3	2819.6	1833.8	962.6
77.5°	133.6	136.5	213.4	522.7	1496.9	2607.7	2626.5	2455.2	1732.2	762.3	265.7
80°	68.2	72.6	104.5	196.0	615.6	1420.0	1450.5	1399.7	726.0	225.0	63.9
82.5°	31.9	33.4	61.0	108.9	281.7	557.5	557.5	612.7	257.0	126.3	26.1
85°	11.6	11.6	31.9	62.4	119.1	185.8	187.3	188.8	135.0	94.4	11.6
87.5°	4.4	4.4	16.0	26.1	43.6	56.6	56.6	45.0	68.2	62.4	4.4
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°	608.4	608.4	608.4	608.4	608.4	608.4	608.4	608.4	608.4	608.4	608.4
2.5°	611.3	602.6	595.3	585.1	572.1	564.8	566.3	557.5	557.5	553.2	551.7
5°	611.3	602.6	583.7	566.3	554.6	540.1	532.9	527.1	527.1	524.1	525.6
7.5°	615.6	602.6	576.4	553.2	534.3	519.8	508.2	506.7	503.8	496.6	502.4
10°	641.8	622.9	579.3	547.4	525.6	509.6	489.3	483.5	474.8	461.7	463.2
12.5°	663.5	638.8	599.6	556.1	528.5	502.4	455.9	405.1	383.3	360.1	361.5
15°	695.5	660.6	606.9	567.7	528.5	444.3	360.1	294.7	259.9	242.5	242.5
17.5°	712.9	683.9	627.2	575.0	486.4	361.5	255.5	198.9	193.1	196.0	196.0
20°	749.2	710.0	650.5	580.8	416.7	257.0	187.3	181.5	184.4	190.2	188.8
22.5°	772.4	733.2	667.9	554.6	322.3	184.4	175.7	172.8	175.7	182.9	182.9
25°	791.3	766.6	695.5	490.8	228.0	167.0	164.1	167.0	169.9	172.8	177.1
27.5°	837.8	795.7	714.3	408.0	164.1	155.4	158.3	159.7	159.7	164.1	165.5
30°	868.3	834.9	728.9	315.1	145.2	143.7	146.6	148.1	149.5	153.9	155.4
32.5°	897.3	885.7	710.0	213.4	136.5	133.6	132.1	133.6	139.4	143.7	142.3
35°	939.4	932.1	682.4	148.1	127.8	122.0	119.1	120.5	124.9	129.2	127.8
37.5°	990.2	997.5	615.6	129.2	119.1	111.8	106.0	106.0	107.4	111.8	113.3
40°	1049.7	1068.6	537.2	120.5	113.3	104.5	98.7	91.5	90.0	88.6	90.0
42.5°	1158.6	1180.4	448.6	114.7	104.5	94.4	85.7	77.0	69.7	65.3	65.3
45°	1311.1	1293.7	332.5	108.9	100.2	85.7	72.6	62.4	52.3	47.9	47.9
47.5°	1521.6	1462.1	228.0	103.1	92.9	75.5	61.0	47.9	39.2	34.8	34.8
50°	1813.5	1617.5	148.1	97.3	88.6	65.3	49.4	34.8	29.0	27.6	29.0
52.5°	2089.3	1775.7	117.6	90.0	79.9	56.6	37.8	29.0	26.1	24.7	24.7
55°	2343.4	1855.6	104.5	82.8	72.6	46.5	31.9	24.7	23.2	21.8	21.8
57.5°	2558.3	1883.2	90.0	72.6	58.1	36.3	26.1	21.8	18.9	17.4	17.4
60°	2744.1	1890.4	69.7	58.1	42.1	27.6	21.8	18.9	16.0	13.1	13.1
62.5°	2892.2	1839.6	49.4	40.7	29.0	21.8	18.9	13.1	8.7	5.8	4.4
65°	3009.9	1738.0	33.4	27.6	18.9	16.0	11.6	5.8	1.5	0.0	0.0
67.5°	2871.9	1507.1	26.1	20.3	13.1	10.2	5.8	1.5	0.0	0.0	0.0
70°	2342.0	1168.8	18.9	13.1	8.7	2.9	1.5	0.0	0.0	0.0	0.0
72.5°	1594.2	753.6	14.5	8.7	4.4	1.5	0.0	0.0	0.0	0.0	0.0
75°	715.8	270.1	10.2	5.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	174.2	63.9	7.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	46.5	16.0	4.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	17.4	5.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.9	1.5	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)