

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: P676758

Luminaire Tested: **CCW-SA-2C-830-U-T4W-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676758  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2C-830-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) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

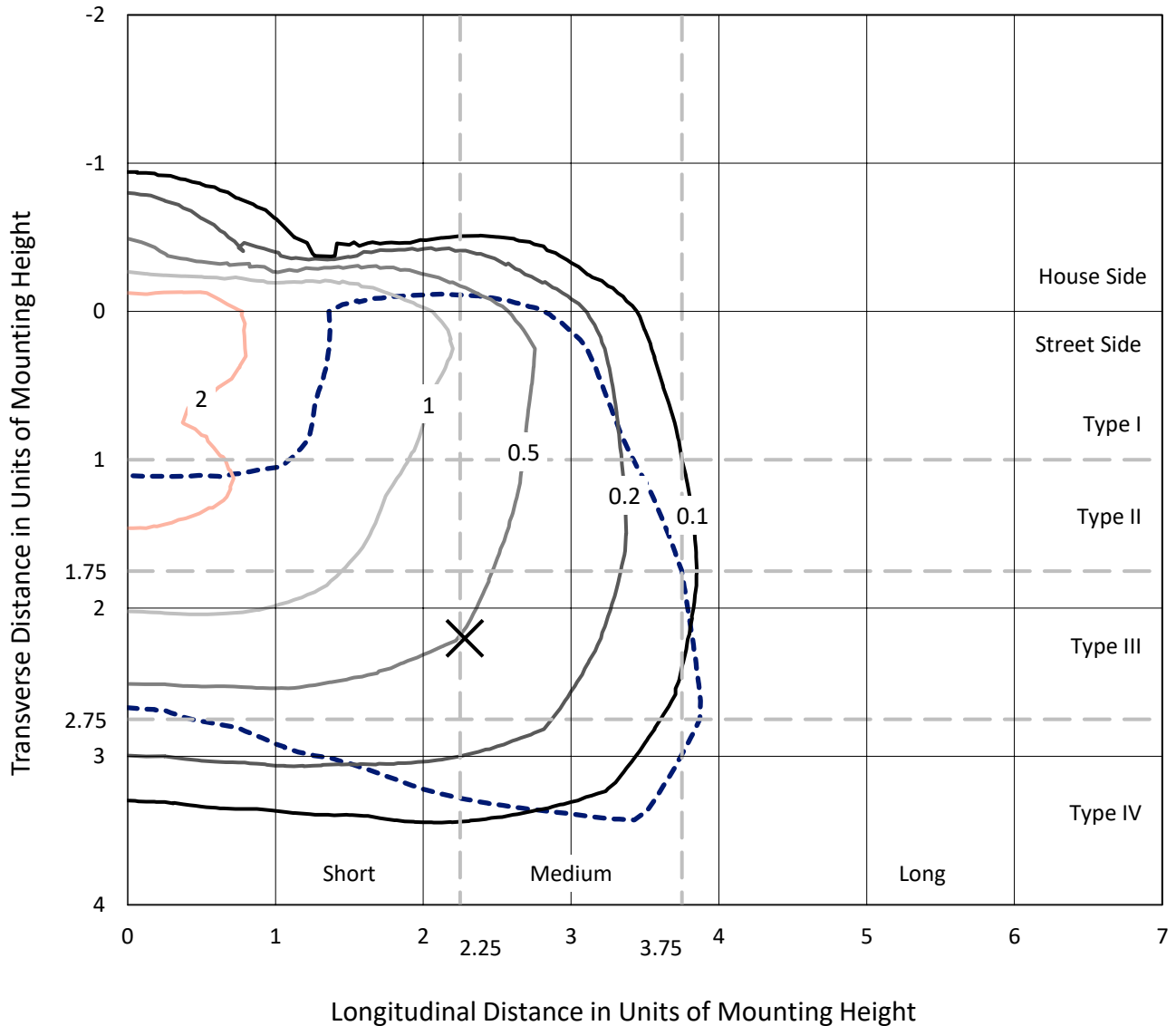
Lumens per Lamp: N/A  
Luminaire Lumens: 5183.4 lumens  
Efficiency: N/A  
Efficacy: 83.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

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

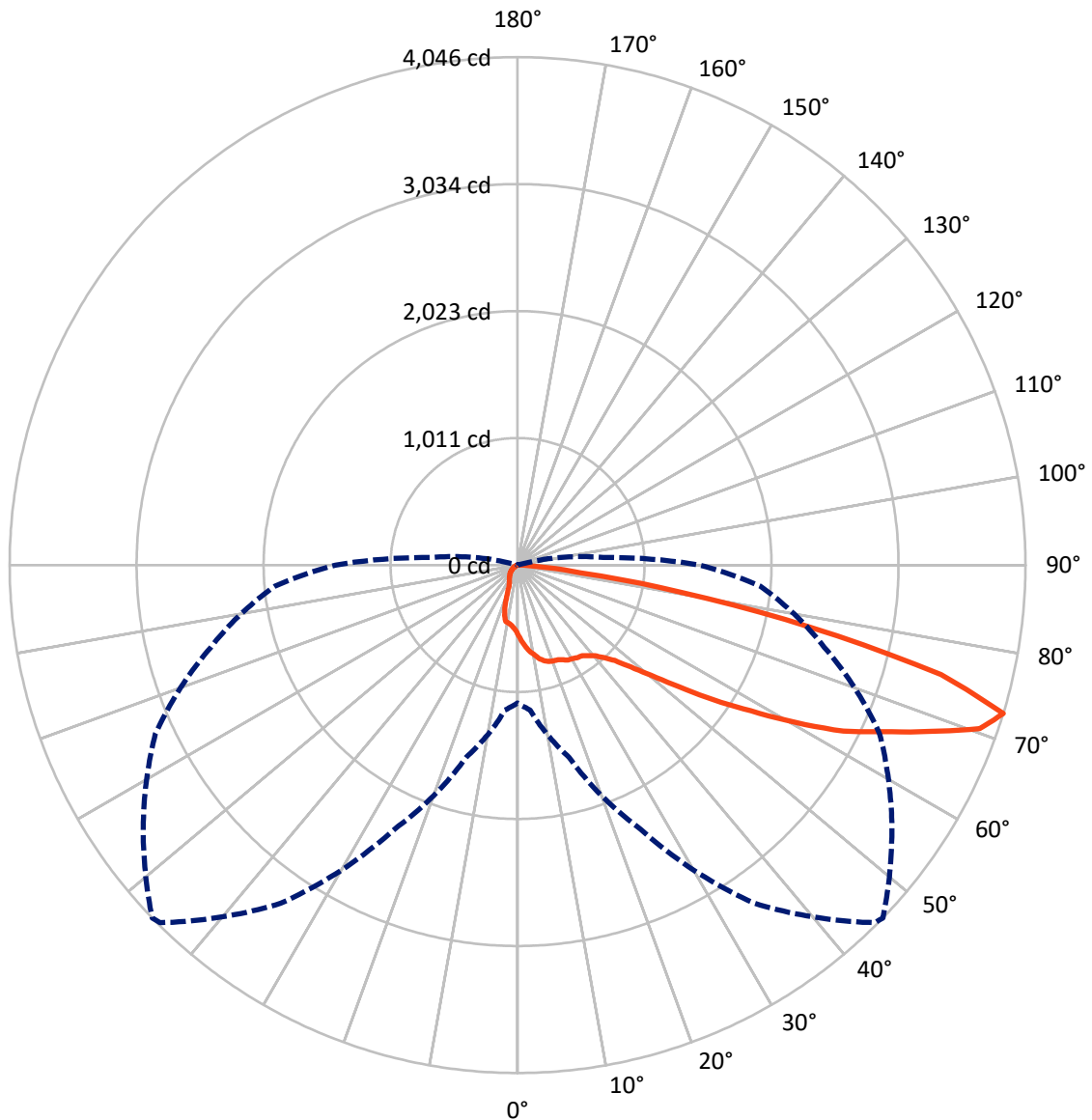
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.6 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	558.0	0.0	558.0
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	4625.4	0.0	4625.4
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	5183.4	0.0	5183.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.5	1.1
10°-20°	167.4	3.2
20°-30°	262.1	5.1
30°-40°	367.0	7.1
40°-50°	605.2	11.7
50°-60°	1087.8	21.0
60°-70°	1576.6	30.4
70°-80°	983.9	19.0
80°-90°	78.0	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°	5183.4	100.0
0°-180°	5183.4	100.0



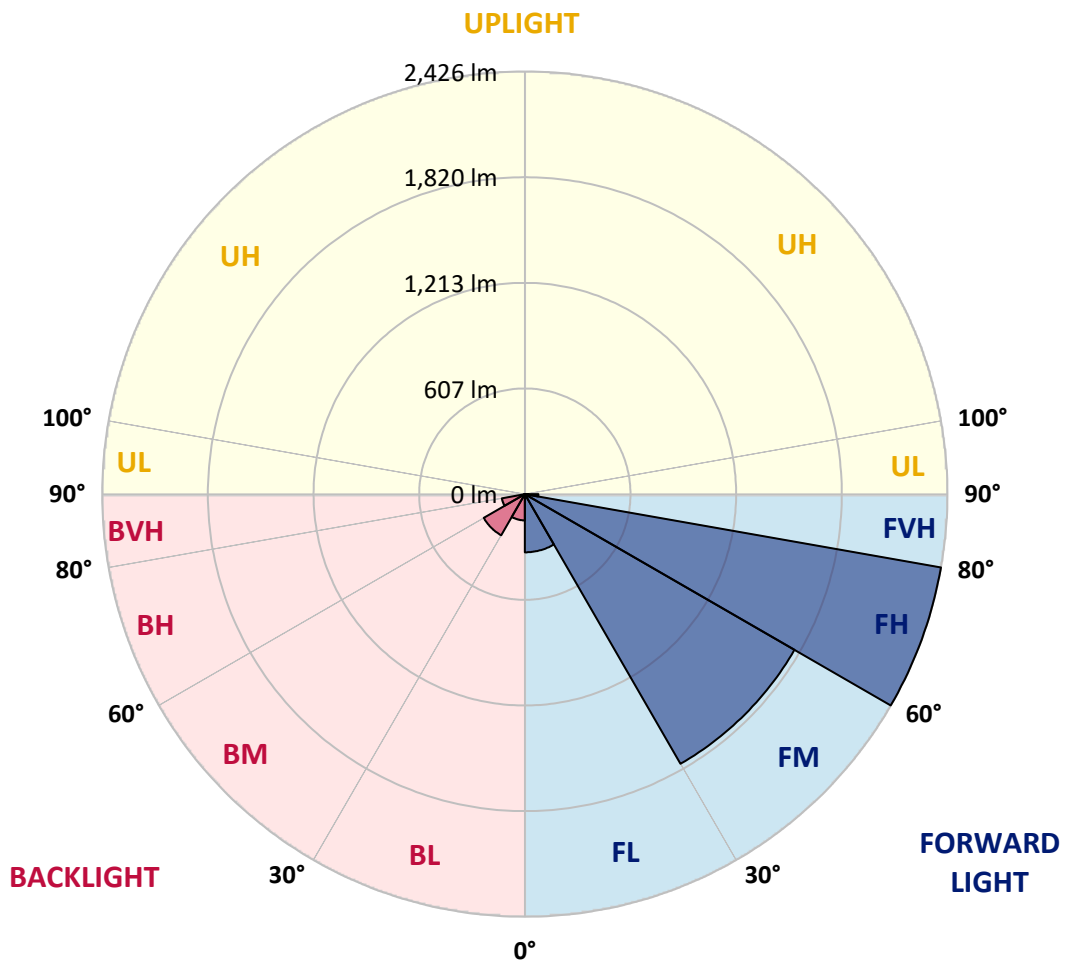
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	334.1	6.4			
FM (30°-60°)	1787.3	34.5			
FH (60°-80°)	2426.3	46.8			G2/5000
FVH (80°-90°)	77.6	1.5			G1/100
BL (0°-30°)	150.8	2.9	B1/500		
BM (30°-60°)	272.6	5.3	B1/1000		
BH (60°-80°)	134.2	2.6	B1/500		G1/500
BVH (80°-90°)	0.4	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°	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0
2.5°	620.1	617.4	621.4	620.1	604.2	606.9	605.5	595.0	576.5	565.9	559.3
5°	691.5	698.1	692.8	680.9	671.6	653.1	650.5	633.3	604.2	585.7	565.9
7.5°	765.5	765.5	754.9	736.4	716.6	696.8	694.1	665.0	639.9	608.2	580.4
10°	821.1	814.4	806.5	786.7	764.2	737.8	724.5	703.4	675.6	637.3	601.6
12.5°	870.0	859.4	846.2	817.1	790.6	761.6	764.2	729.8	711.3	676.9	624.1
15°	897.7	888.5	876.6	850.1	809.2	795.9	790.6	769.5	736.4	702.1	651.8
17.5°	904.3	897.7	881.9	847.5	825.0	809.2	807.8	782.7	768.2	739.1	683.5
20°	891.1	879.2	867.3	844.9	823.7	818.4	814.4	814.4	795.9	757.6	703.4
22.5°	868.6	855.4	848.8	835.6	818.4	817.1	819.7	817.1	802.5	777.4	724.5
25°	851.5	844.9	834.3	830.3	819.7	839.6	835.6	831.6	827.7	798.6	757.6
27.5°	856.8	855.4	847.5	831.6	823.7	844.9	856.8	858.1	856.8	827.7	788.0
30°	859.4	852.8	844.9	840.9	843.5	864.7	864.7	893.8	881.9	852.8	818.4
32.5°	889.8	885.8	859.4	850.1	851.5	876.6	877.9	907.0	903.0	883.2	844.9
35°	954.6	928.1	889.8	863.4	863.4	896.4	885.8	928.1	938.7	907.0	863.4
37.5°	1051.1	1031.3	962.5	903.0	880.5	904.3	914.9	938.7	970.5	942.7	900.4
40°	1242.8	1238.9	1141.0	1012.8	924.2	945.3	949.3	986.3	1007.5	969.1	957.2
42.5°	1523.1	1503.3	1412.1	1209.8	1003.5	994.3	1008.8	1032.6	1082.8	1051.1	1022.0
45°	1796.8	1787.5	1696.3	1470.2	1147.6	1092.1	1084.2	1126.5	1200.5	1166.1	1143.7
47.5°	1995.1	1976.6	1925.0	1734.7	1359.2	1207.1	1212.4	1254.7	1348.6	1322.1	1328.8
50°	2147.2	2137.9	2083.7	1979.3	1626.2	1388.3	1377.7	1420.0	1546.9	1564.1	1582.6
52.5°	2313.8	2330.9	2258.2	2169.6	1942.2	1631.5	1607.7	1622.3	1786.2	1825.9	1877.4
55°	2473.7	2501.5	2428.8	2416.9	2272.8	1901.2	1897.3	1862.9	2074.4	2079.7	2107.5
57.5°	2578.2	2568.9	2563.6	2628.4	2603.3	2210.6	2190.8	2156.4	2348.1	2313.8	2397.1
60°	2586.1	2612.6	2701.1	2861.1	2906.1	2574.2	2545.1	2451.3	2584.8	2502.8	2661.5
62.5°	2645.6	2666.8	2830.7	3051.5	3109.7	2894.2	2914.0	2676.0	2787.1	2722.3	2955.0
65°	2494.9	2561.0	2890.2	3199.6	3376.8	3218.1	3198.3	2965.6	2994.7	2933.8	3244.5
67.5°	2358.7	2383.8	2727.6	3244.5	3588.3	3543.4	3535.4	3222.1	3208.8	3096.5	3326.5
70°	1917.1	1947.5	2287.3	3014.5	3659.7	3922.8	3904.3	3581.7	3354.3	3007.9	2906.1
72.5°	1098.7	1159.5	1585.3	2321.7	3288.2	4028.6	4045.8	3639.9	3182.4	2529.3	1940.9
75°	359.6	376.8	658.4	1315.5	2459.2	3514.3	3483.9	3128.2	2567.6	1669.9	876.6
77.5°	121.6	124.3	194.4	476.0	1363.1	2374.6	2391.8	2235.7	1577.3	694.1	242.0
80°	62.1	66.1	95.2	178.5	560.6	1293.1	1320.8	1274.5	661.1	204.9	58.2
82.5°	29.1	30.4	55.5	99.2	256.5	507.7	507.7	557.9	234.0	115.0	23.8
85°	10.6	10.6	29.1	56.9	108.4	169.2	170.6	171.9	123.0	85.9	10.6
87.5°	4.0	4.0	14.5	23.8	39.7	51.6	51.6	41.0	62.1	56.9	4.0
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°	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0
2.5°	556.6	548.7	542.1	532.8	520.9	514.3	515.6	507.7	507.7	503.7	502.4
5°	556.6	548.7	531.5	515.6	505.1	491.8	485.2	479.9	479.9	477.3	478.6
7.5°	560.6	548.7	524.9	503.7	486.5	473.3	462.8	461.4	458.8	452.2	457.5
10°	584.4	567.2	527.5	498.4	478.6	464.1	445.6	440.3	432.3	420.4	421.8
12.5°	604.2	581.7	546.0	506.4	481.3	457.5	415.2	368.9	349.0	327.9	329.2
15°	633.3	601.6	552.7	517.0	481.3	404.6	327.9	268.4	236.7	220.8	220.8
17.5°	649.2	622.7	571.2	523.6	442.9	329.2	232.7	181.1	175.8	178.5	178.5
20°	682.2	646.5	592.3	528.9	379.5	234.0	170.6	165.3	167.9	173.2	171.9
22.5°	703.4	667.7	608.2	505.1	293.5	167.9	160.0	157.3	160.0	166.6	166.6
25°	720.6	698.1	633.3	446.9	207.6	152.0	149.4	152.0	154.7	157.3	161.3
27.5°	762.9	724.5	650.5	371.5	149.4	141.5	144.1	145.4	145.4	149.4	150.7
30°	790.6	760.2	663.7	286.9	132.2	130.9	133.5	134.9	136.2	140.1	141.5
32.5°	817.1	806.5	646.5	194.4	124.3	121.6	120.3	121.6	126.9	130.9	129.6
35°	855.4	848.8	621.4	134.9	116.3	111.1	108.4	109.7	113.7	117.7	116.3
37.5°	901.7	908.3	560.6	117.7	108.4	101.8	96.5	96.5	97.8	101.8	103.1
40°	955.9	973.1	489.2	109.7	103.1	95.2	89.9	83.3	82.0	80.7	82.0
42.5°	1055.1	1074.9	408.5	104.4	95.2	85.9	78.0	70.1	63.5	59.5	59.5
45°	1193.9	1178.0	302.8	99.2	91.2	78.0	66.1	56.9	47.6	43.6	43.6
47.5°	1385.6	1331.4	207.6	93.9	84.6	68.8	55.5	43.6	35.7	31.7	31.7
50°	1651.4	1472.9	134.9	88.6	80.7	59.5	45.0	31.7	26.4	25.1	26.4
52.5°	1902.6	1617.0	107.1	82.0	72.7	51.6	34.4	26.4	23.8	22.5	22.5
55°	2133.9	1689.7	95.2	75.4	66.1	42.3	29.1	22.5	21.2	19.8	19.8
57.5°	2329.6	1714.8	82.0	66.1	52.9	33.1	23.8	19.8	17.2	15.9	15.9
60°	2498.9	1721.4	63.5	52.9	38.3	25.1	19.8	17.2	14.5	11.9	11.9
62.5°	2633.7	1675.2	45.0	37.0	26.4	19.8	17.2	11.9	7.9	5.3	4.0
65°	2740.8	1582.6	30.4	25.1	17.2	14.5	10.6	5.3	1.3	0.0	0.0
67.5°	2615.2	1372.4	23.8	18.5	11.9	9.3	5.3	1.3	0.0	0.0	0.0
70°	2132.6	1064.3	17.2	11.9	7.9	2.6	1.3	0.0	0.0	0.0	0.0
72.5°	1451.7	686.2	13.2	7.9	4.0	1.3	0.0	0.0	0.0	0.0	0.0
75°	651.8	245.9	9.3	5.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	158.7	58.2	6.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	42.3	14.5	4.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	15.9	5.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	1.3	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)