

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: P676849

Luminaire Tested: **CCW-SA-2E-735-U-SL2-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676849  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2E-735-U-SL2-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/  
SL2 distribution lens and House Side Shield  
Light Source: (32) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

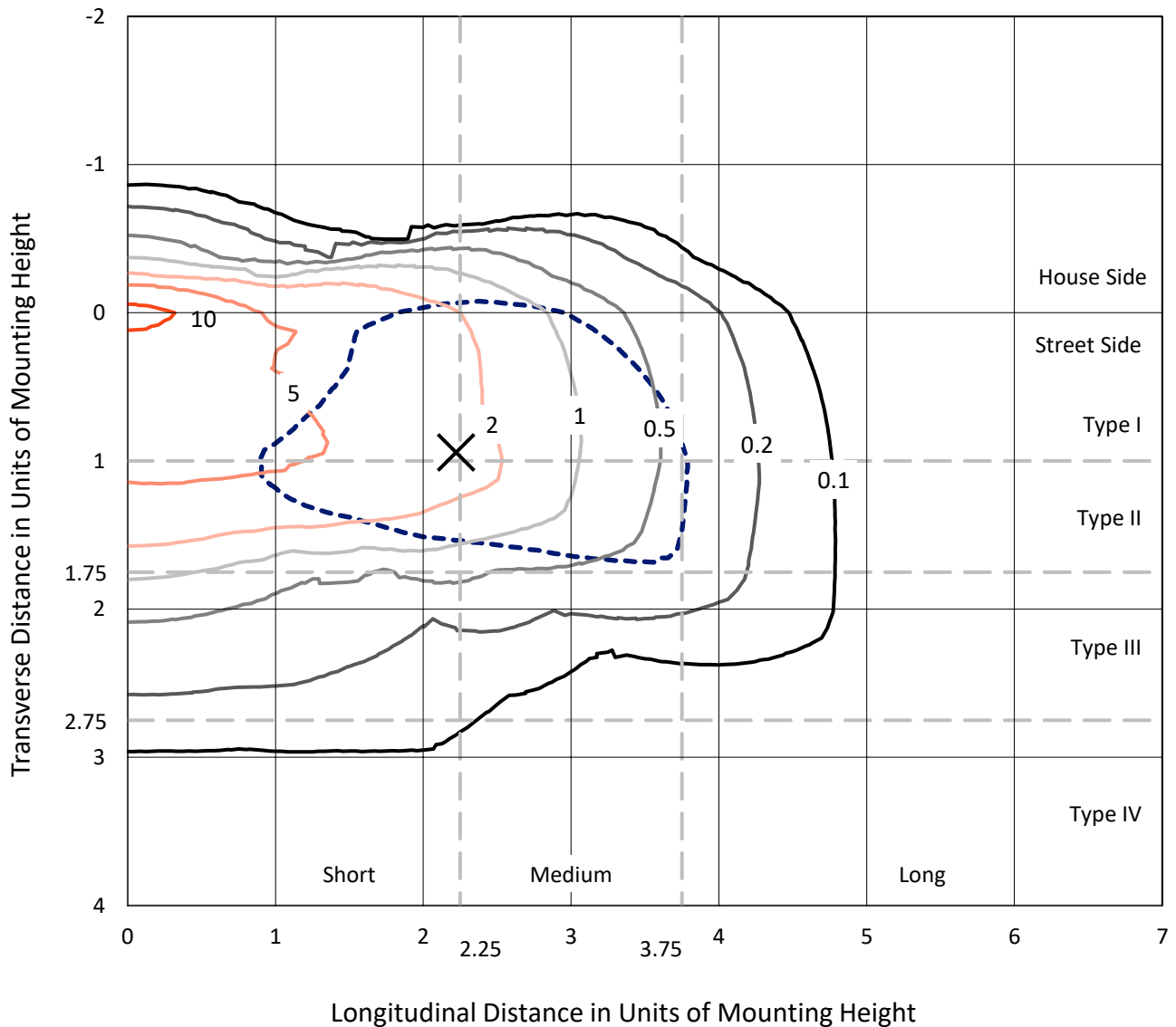
Lumens per Lamp: N/A  
Luminaire Lumens: 10844.7 lumens  
Efficiency: N/A  
Efficacy: 101.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 106.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

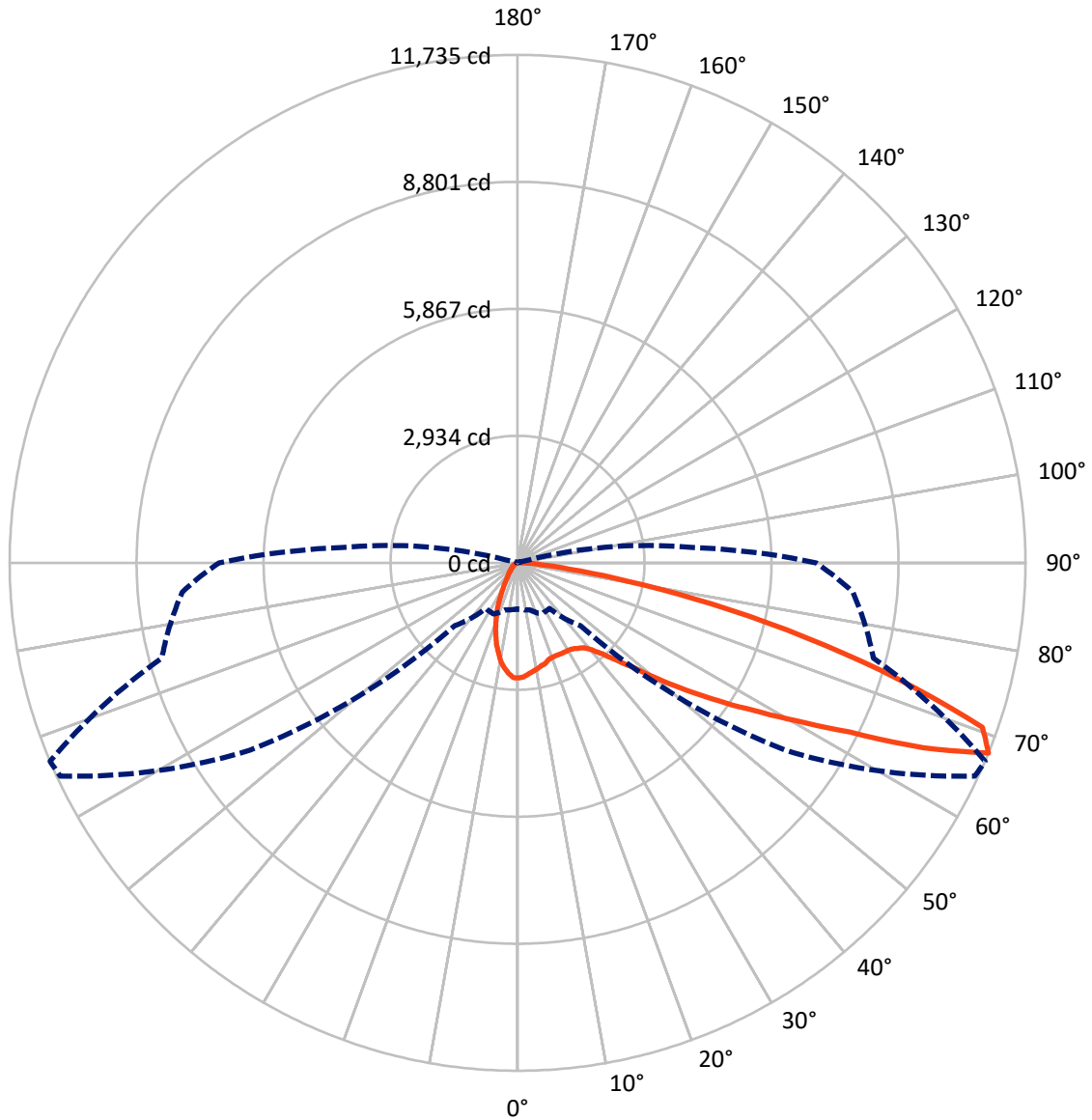
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 11.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1364.8	0.0	1364.8
	% Fixture	12.6	0.0	12.6
<b>Street Side</b>	Lumens	9479.8	0.0	9479.8
	% Fixture	87.4	0.0	87.4
<b>Total</b>	Lumens	10844.7	0.0	10844.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.1	2.1
10°-20°	497.9	4.6
20°-30°	708.0	6.5
30°-40°	1030.9	9.5
40°-50°	1595.5	14.7
50°-60°	2448.6	22.6
60°-70°	2654.2	24.5
70°-80°	1497.4	13.8
80°-90°	188.1	1.7
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°	10844.7	100.0
0°-180°	10844.7	100.0

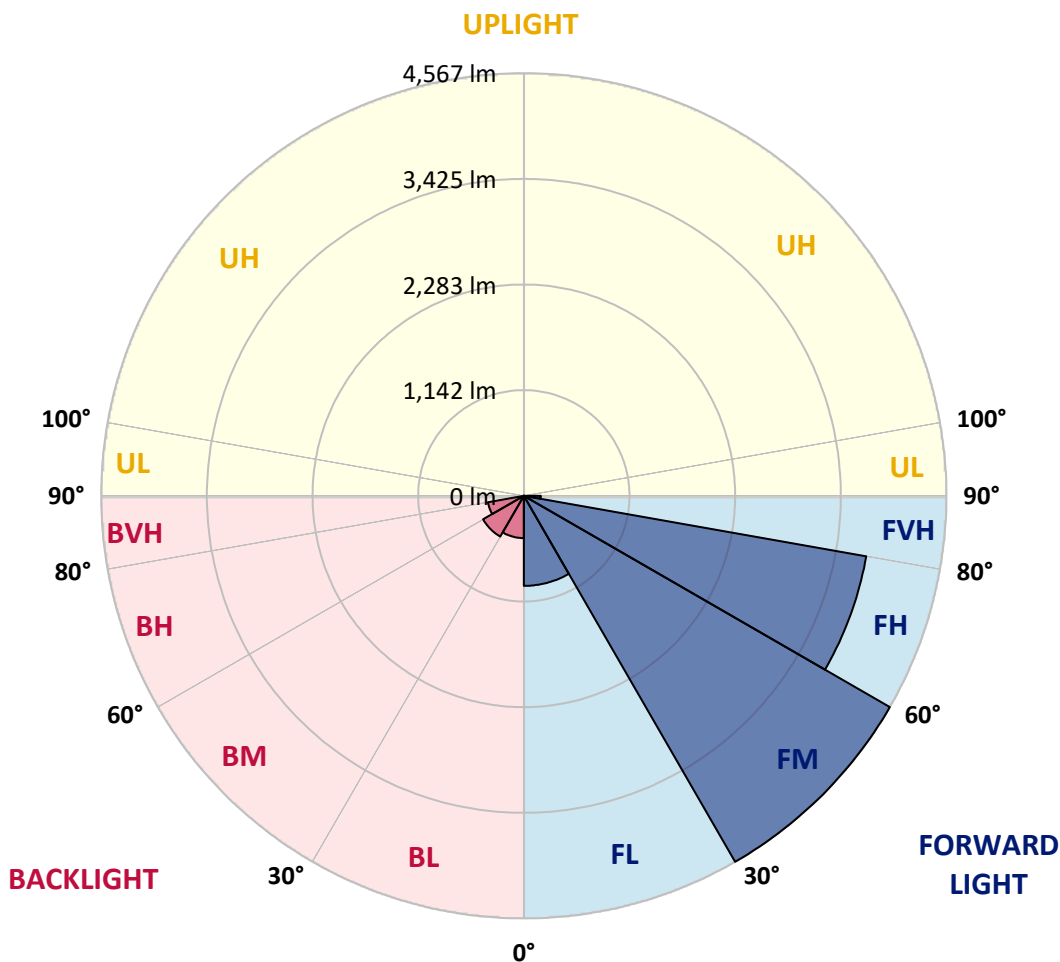


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	973.1	9.0			
FM (30°-60°)	4566.5	42.1			
FH (60°-80°)	3757.5	34.6			G2/5000
FVH (80°-90°)	182.7	1.7			G2/225
BL (0°-30°)	456.9	4.2	B1/500		
BM (30°-60°)	508.4	4.7	B1/1000		
BH (60°-80°)	394.2	3.6	B1/500		G1/500
BVH (80°-90°)	5.4	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2660.0	2660.0	2660.0	2660.0	2660.0	2660.0	2660.0	2660.0	2660.0	2660.0	2660.0
2.5°	2545.0	2558.1	2576.4	2602.5	2620.8	2610.3	2618.2	2662.6	2639.1	2660.0	2649.5
5°	2403.9	2417.0	2443.1	2440.5	2461.4	2500.6	2552.9	2610.3	2584.2	2646.9	2670.4
7.5°	2257.6	2252.4	2252.4	2307.2	2351.7	2406.5	2435.3	2529.3	2532.0	2586.8	2644.3
10°	2124.3	2140.0	2166.1	2187.0	2228.9	2307.2	2390.9	2464.0	2492.8	2602.5	2618.2
12.5°	2043.3	2051.2	2082.5	2100.8	2155.7	2231.5	2320.3	2414.4	2437.9	2550.2	2626.0
15°	2009.4	2027.7	2038.1	2072.1	2100.8	2171.4	2236.7	2343.8	2411.8	2500.6	2594.7
17.5°	2035.5	2027.7	2032.9	2043.3	2077.3	2140.0	2210.6	2317.7	2341.2	2490.1	2631.2
20°	2069.5	2072.1	2056.4	2051.2	2043.3	2103.4	2160.9	2299.4	2325.5	2490.1	2654.8
22.5°	2160.9	2132.2	2160.9	2119.1	2077.3	2103.4	2158.3	2302.0	2320.3	2487.5	2678.3
25°	2273.3	2278.5	2286.3	2197.5	2137.4	2119.1	2176.6	2309.9	2325.5	2508.4	2688.7
27.5°	2432.7	2456.2	2417.0	2372.6	2252.4	2160.9	2174.0	2304.6	2333.4	2498.0	2714.9
30°	2646.9	2628.6	2633.9	2532.0	2414.4	2270.7	2234.1	2317.7	2338.6	2511.1	2764.5
32.5°	2832.4	2811.5	2848.1	2811.5	2626.0	2427.4	2304.6	2343.8	2367.3	2542.4	2806.3
35°	2947.4	2973.5	3031.0	3070.2	2913.4	2631.2	2422.2	2414.4	2424.8	2558.1	2837.7
37.5°	3125.1	3172.1	3219.2	3318.5	3182.6	2882.1	2607.7	2505.8	2487.5	2633.9	2853.3
40°	3318.5	3305.4	3443.9	3561.5	3556.2	3234.8	2866.4	2667.8	2641.7	2754.1	2957.9
42.5°	3480.5	3467.4	3621.6	3814.9	3835.8	3574.5	3161.7	2897.8	2874.3	2939.6	3085.9
45°	3692.1	3702.6	3885.5	4115.4	4191.2	4024.0	3561.5	3227.0	3213.9	3193.0	3328.9
47.5°	3880.2	3937.7	4094.5	4366.3	4640.6	4489.1	4031.8	3707.8	3616.3	3569.3	3705.2
50°	4010.9	4063.1	4253.9	4543.9	5045.6	5142.3	4559.6	4219.9	4222.5	4107.6	4180.7
52.5°	4010.9	4008.3	4162.4	4543.9	5327.8	5824.3	5265.1	4865.3	4886.2	4766.0	4771.3
55°	3624.2	3616.3	3804.5	4209.5	5296.5	6480.1	6333.8	5683.2	5630.9	5398.4	5421.9
57.5°	2918.7	2937.0	3080.7	3566.7	4888.8	6785.9	7606.3	6602.9	6425.3	5944.5	5944.5
60°	2129.6	2113.9	2221.0	2560.7	3916.8	6670.9	8651.5	7687.3	7407.7	6396.5	6328.6
62.5°	1620.0	1617.4	1646.2	1761.1	2484.9	5816.4	9100.9	9067.0	8612.3	6840.7	6744.0
65°	1309.1	1314.3	1353.5	1434.5	1518.1	3966.5	8863.2	10713.1	10297.7	7501.8	7185.6
67.5°	1068.7	1081.8	1128.8	1303.9	1285.6	2053.8	7548.8	11656.4	11734.8	8510.4	7778.8
70°	823.1	844.0	898.9	1147.1	1238.5	1366.6	5233.8	11186.1	11395.1	9137.5	7420.8
72.5°	559.2	556.6	674.1	930.2	1251.6	1251.6	2913.4	9009.5	9208.1	8424.2	6446.2
75°	303.1	321.4	446.8	702.9	1147.1	1209.8	1659.2	6592.5	6872.1	6550.7	4985.5
77.5°	164.6	167.2	248.2	459.9	953.7	1154.9	1107.9	4483.8	4593.6	3950.8	2730.5
80°	86.2	88.8	130.6	300.5	658.5	1071.3	922.4	2673.1	2568.5	1515.5	901.5
82.5°	39.2	41.8	65.3	188.1	420.7	844.0	797.0	1290.8	1191.5	423.3	274.4
85°	15.7	15.7	28.7	112.4	245.6	415.5	682.0	648.0	540.9	128.0	135.9
87.5°	5.2	5.2	7.8	44.4	99.3	248.2	363.2	342.3	235.2	47.0	73.2
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°	2660.0	2660.0	2660.0	2660.0	2660.0	2660.0	2660.0	2660.0	2660.0	2660.0	2660.0
2.5°	2639.1	2667.8	2660.0	2654.8	2605.1	2599.9	2594.7	2547.6	2563.3	2524.1	2550.2
5°	2654.8	2670.4	2628.6	2550.2	2479.7	2401.3	2341.2	2299.4	2223.6	2194.9	2189.7
7.5°	2639.1	2639.1	2552.9	2427.4	2289.0	2160.9	1998.9	1883.9	1797.7	1732.4	1755.9
10°	2618.2	2586.8	2498.0	2275.9	2025.0	1831.7	1599.1	1429.3	1301.3	1259.4	1233.3
12.5°	2618.2	2563.3	2364.7	2061.6	1737.6	1445.0	1168.0	945.9	823.1	749.9	739.5
15°	2594.7	2513.7	2268.0	1860.4	1458.0	1060.9	744.7	553.9	449.4	420.7	410.2
17.5°	2599.9	2503.2	2124.3	1622.6	1131.4	705.5	454.7	350.1	324.0	310.9	313.6
20°	2610.3	2503.2	1996.3	1390.1	815.2	439.0	313.6	295.3	282.2	277.0	279.6
22.5°	2644.3	2453.6	1865.7	1152.3	551.3	316.2	277.0	258.7	248.2	240.4	237.8
25°	2649.5	2445.7	1740.2	917.1	378.9	266.5	243.0	222.1	209.0	198.6	196.0
27.5°	2641.7	2411.8	1565.2	682.0	284.8	237.8	206.4	185.5	167.2	159.4	156.8
30°	2670.4	2349.0	1416.2	491.2	240.4	206.4	175.1	151.6	135.9	125.4	125.4
32.5°	2673.1	2294.2	1251.6	350.1	219.5	182.9	148.9	122.8	107.1	101.9	101.9
35°	2675.7	2244.5	1068.7	266.5	196.0	156.8	122.8	101.9	91.5	83.6	83.6
37.5°	2683.5	2207.9	901.5	224.7	175.1	133.3	101.9	83.6	73.2	70.5	70.5
40°	2699.2	2158.3	726.4	198.6	151.6	112.4	86.2	70.5	60.1	57.5	54.9
42.5°	2741.0	2145.2	580.1	177.7	135.9	94.1	70.5	57.5	49.6	44.4	41.8
45°	2913.4	2179.2	449.4	164.6	115.0	78.4	60.1	47.0	36.6	34.0	31.4
47.5°	3195.6	2291.6	355.4	146.3	96.7	65.3	49.6	36.6	28.7	26.1	23.5
50°	3624.2	2547.6	290.0	130.6	81.0	54.9	39.2	28.7	20.9	18.3	18.3
52.5°	4186.0	2892.5	250.8	115.0	65.3	47.0	31.4	20.9	15.7	13.1	13.1
55°	4760.8	3300.2	235.2	99.3	54.9	39.2	23.5	15.7	10.5	7.8	7.8
57.5°	5288.6	3564.1	227.3	81.0	47.0	28.7	18.3	10.5	5.2	2.6	2.6
60°	5617.9	3757.4	203.8	65.3	36.6	23.5	13.1	5.2	2.6	0.0	0.0
62.5°	6051.6	3953.4	167.2	49.6	26.1	15.7	7.8	2.6	0.0	0.0	0.0
65°	6623.8	4172.9	130.6	39.2	20.9	10.5	5.2	2.6	0.0	0.0	0.0
67.5°	6898.2	4057.9	88.8	28.7	13.1	5.2	2.6	0.0	0.0	0.0	0.0
70°	6349.5	3417.7	62.7	20.9	7.8	2.6	2.6	0.0	0.0	0.0	0.0
72.5°	5338.3	2678.3	47.0	13.1	5.2	2.6	0.0	0.0	0.0	0.0	0.0
75°	3935.1	1674.9	36.6	10.5	5.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2087.8	624.5	26.1	7.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	616.7	182.9	18.3	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	203.8	54.9	10.5	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	104.5	20.9	5.2	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	60.1	7.8	5.2	5.2	2.6	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)