

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: P675238

Luminaire Tested: **CCW-SA-1F-727-U-T4W**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675238  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1F-727-U-T4W  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/  
T4W distribution lens  
Light Source: (16) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

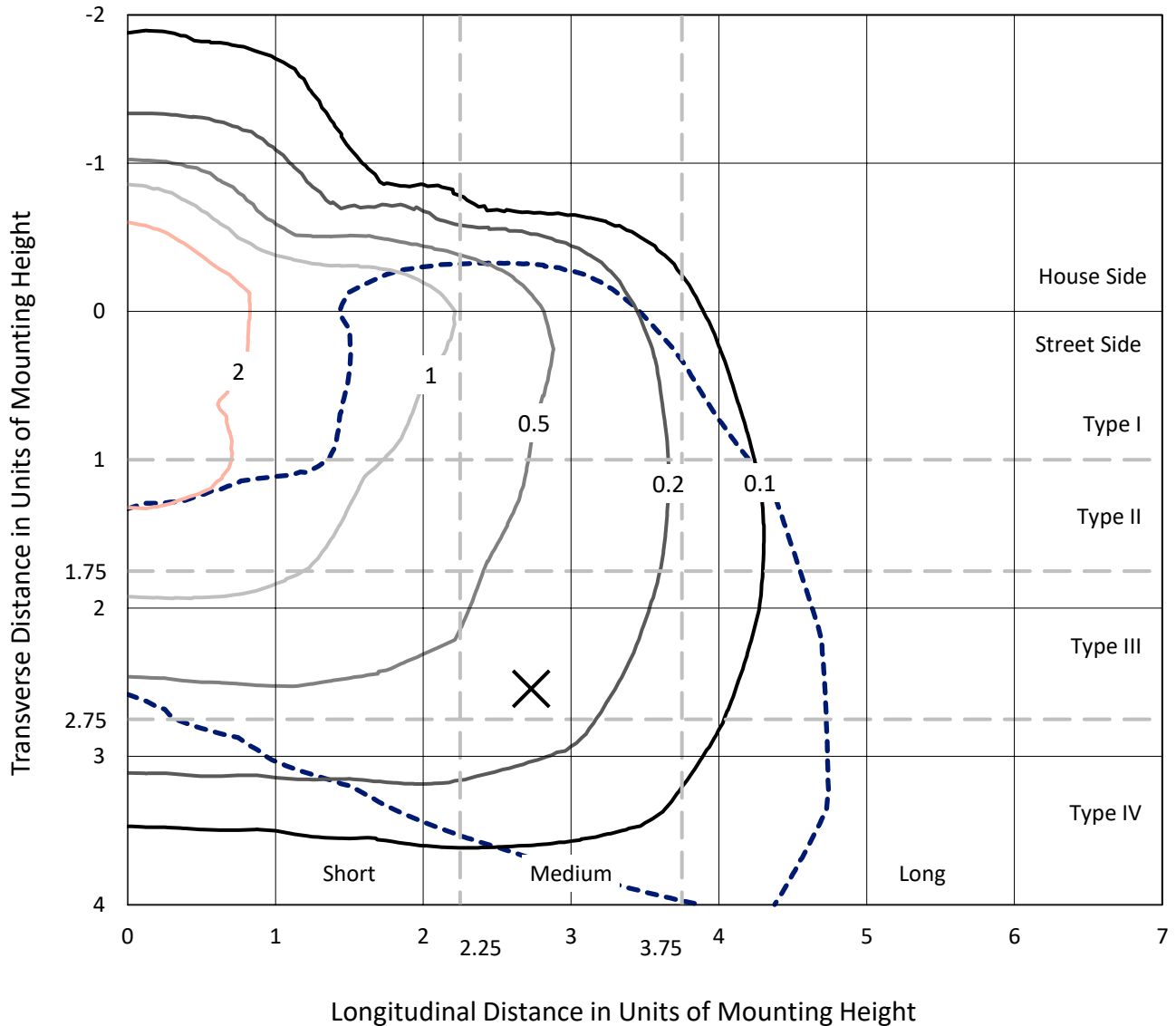
Lumens per Lamp: N/A  
Luminaire Lumens: 6325.7 lumens  
Efficiency: N/A  
Efficacy: 94.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

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

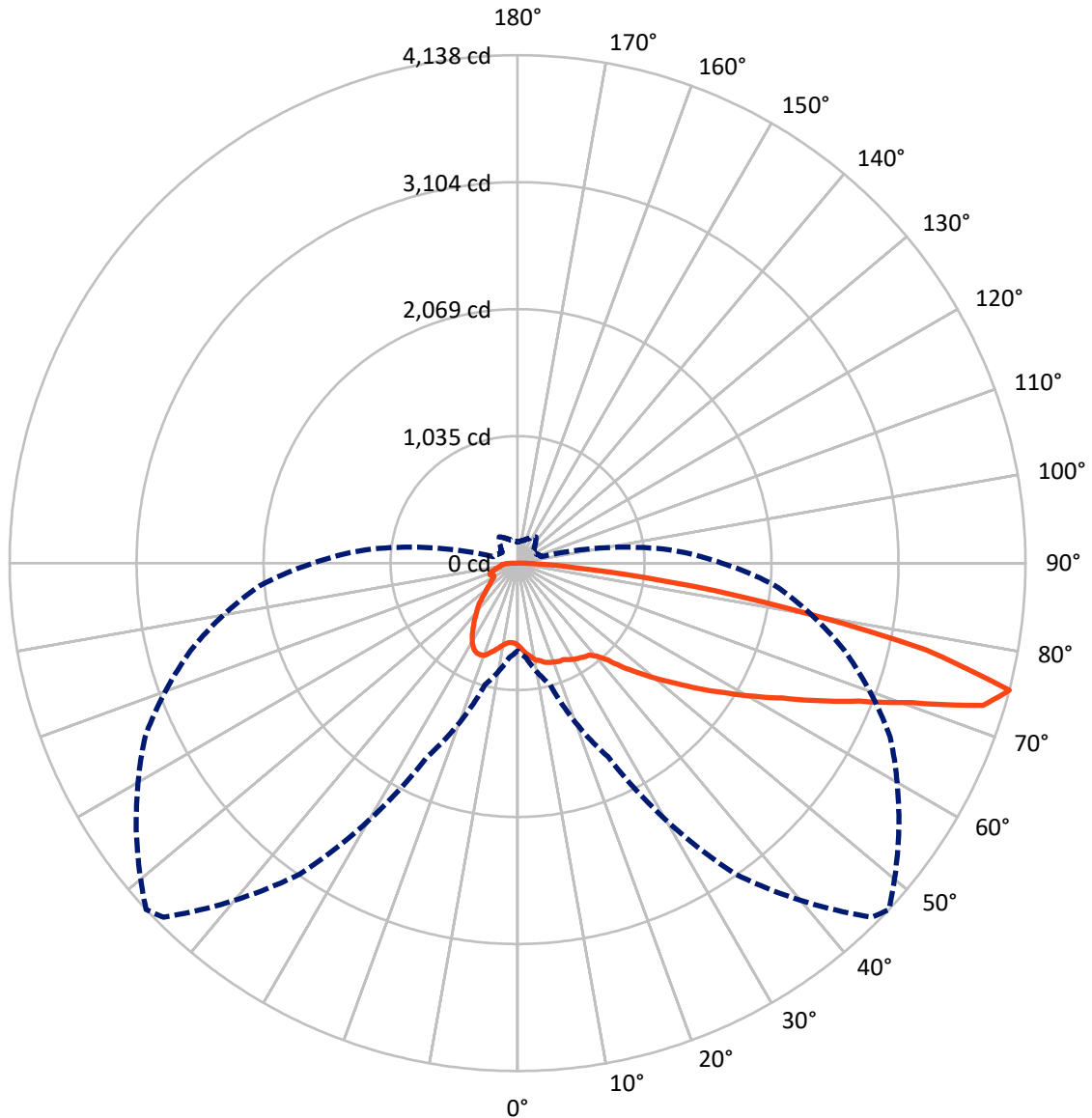
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.8 fc  
 Type IV - Medium - N/A

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CATALOG NUMBER: CCW-SA-1F-727-U-T4W

### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1512.8	0.0	1512.8
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	4812.9	0.0	4812.9
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	6325.7	0.0	6325.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.9	1.1
10°-20°	225.5	3.6
20°-30°	386.2	6.1
30°-40°	540.4	8.5
40°-50°	753.5	11.9
50°-60°	1126.2	17.8
60°-70°	1623.7	25.7
70°-80°	1382.1	21.8
80°-90°	220.2	3.5
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°	6325.7	100.0
0°-180°	6325.7	100.0



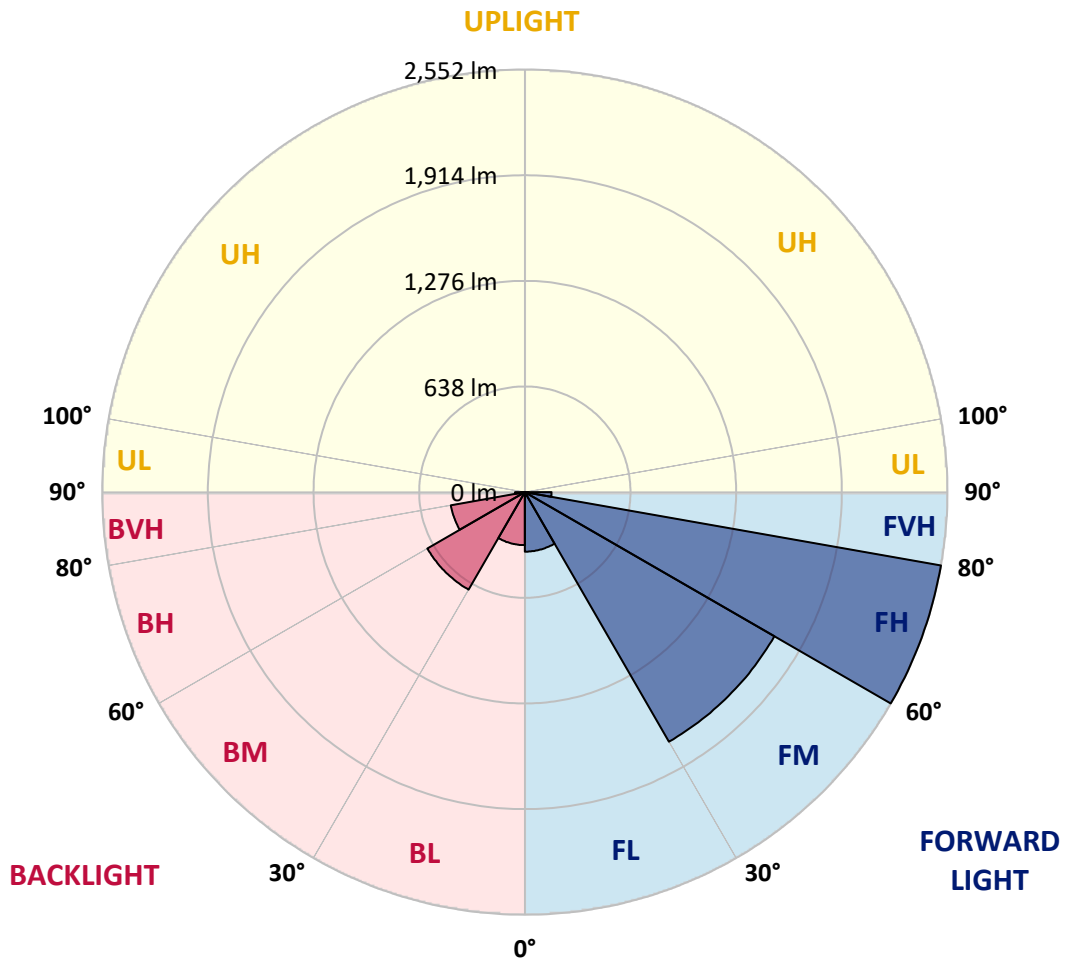
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	359.4	5.7			
FM (30°-60°)	1740.1	27.5			
FH (60°-80°)	2552.0	40.3			G2/5000
FVH (80°-90°)	161.3	2.6			G2/225
BL (0°-30°)	320.2	5.1	B1/500		
BM (30°-60°)	679.9	10.7	B1/1000		
BH (60°-80°)	453.8	7.2	B1/500		G1/500
BVH (80°-90°)	58.9	0.9			G1/100
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°	47°	55°	65°	75°	85°
0°	671.6	671.6	671.6	671.6	671.6	671.6	671.6	671.6	671.6	671.6	671.6
2.5°	720.1	722.4	722.4	717.8	713.2	704.0	704.0	694.7	690.1	678.6	674.0
5°	787.1	780.1	773.2	770.9	759.4	743.2	740.9	731.7	706.3	694.7	678.6
7.5°	835.5	833.2	830.9	821.7	800.9	775.5	768.6	754.7	729.4	706.3	687.8
10°	874.8	884.0	874.8	854.0	833.2	805.5	803.2	777.8	754.7	727.0	704.0
12.5°	918.6	920.9	904.8	879.4	847.1	824.0	814.7	805.5	780.1	757.0	722.4
15°	948.6	944.0	932.5	897.8	860.9	837.8	840.1	828.6	800.9	784.7	747.8
17.5°	948.6	948.6	930.2	904.8	872.5	851.7	851.7	844.8	826.3	803.2	777.8
20°	930.2	930.2	918.6	904.8	867.8	863.2	858.6	854.0	854.0	833.2	796.3
22.5°	907.1	902.5	907.1	884.0	858.6	863.2	870.1	867.8	860.9	842.4	817.1
25°	884.0	886.3	890.9	874.8	851.7	872.5	870.1	881.7	877.1	863.2	842.4
27.5°	881.7	886.3	888.6	872.5	863.2	881.7	890.9	902.5	904.8	890.9	865.5
30°	916.3	914.0	911.7	890.9	884.0	900.1	909.4	925.5	939.4	909.4	888.6
32.5°	1006.3	992.5	978.6	923.2	902.5	914.0	923.2	946.3	948.6	932.5	902.5
35°	1149.4	1140.2	1094.0	997.1	939.4	927.8	937.1	953.2	957.8	946.3	923.2
37.5°	1313.3	1308.7	1244.1	1126.3	1015.6	960.2	950.9	974.0	992.5	967.1	934.8
40°	1474.9	1456.4	1410.2	1294.8	1112.5	1008.6	997.1	1008.6	1015.6	997.1	976.3
42.5°	1620.3	1599.5	1588.0	1472.5	1239.4	1089.4	1080.2	1052.5	1073.3	1050.2	1022.5
45°	1742.6	1738.0	1733.4	1634.1	1384.8	1221.0	1214.0	1142.5	1165.6	1147.1	1107.9
47.5°	1830.3	1851.1	1844.1	1788.8	1551.0	1361.8	1341.0	1248.7	1283.3	1264.8	1225.6
50°	1934.2	1945.7	1938.8	1901.9	1705.7	1523.3	1484.1	1389.5	1428.7	1426.4	1405.6
52.5°	2026.5	2061.1	2021.9	2019.6	1927.2	1698.7	1631.8	1541.8	1606.4	1631.8	1629.5
55°	2135.0	2162.7	2151.1	2146.5	2125.7	1869.5	1809.5	1701.0	1809.5	1846.5	1878.8
57.5°	2227.3	2225.0	2268.8	2321.9	2347.3	2065.7	1994.2	1867.2	2031.1	2072.6	2162.7
60°	2268.8	2308.1	2381.9	2515.8	2587.3	2275.8	2201.9	2100.3	2255.0	2287.3	2453.5
62.5°	2296.5	2331.2	2474.3	2700.4	2742.0	2490.4	2421.2	2319.6	2499.6	2522.7	2769.7
65°	2220.4	2252.7	2536.6	2769.7	2917.4	2721.2	2705.1	2598.9	2744.3	2758.1	3102.0
67.5°	2132.7	2167.3	2483.5	2857.4	3150.5	3028.2	3002.8	2875.9	2986.6	2970.5	3355.9
70°	1978.0	2024.2	2347.3	2933.6	3409.0	3457.5	3406.7	3226.7	3238.2	3085.9	3367.5
72.5°	1507.2	1537.2	1837.2	2631.2	3529.0	4053.0	3965.3	3605.2	3473.6	3109.0	2972.8
75°	715.5	770.9	1024.8	1740.3	3092.8	4080.7	4138.4	3792.2	3349.0	2758.1	2107.3
77.5°	207.7	207.7	311.6	738.6	1938.8	3289.0	3397.5	3219.8	2762.8	2042.6	1107.9
80°	113.1	120.0	163.9	260.8	851.7	2075.0	2231.9	2135.0	1627.2	807.8	286.2
82.5°	64.6	66.9	108.5	156.9	387.8	1128.6	1221.0	1107.9	618.6	244.7	133.9
85°	36.9	39.2	62.3	103.9	230.8	415.5	452.4	392.4	249.3	163.9	66.9
87.5°	18.5	18.5	30.0	48.5	117.7	117.7	115.4	140.8	150.0	99.2	30.0
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°	671.6	671.6	671.6	671.6	671.6	671.6	671.6	671.6	671.6	671.6	671.6
2.5°	671.6	669.3	669.3	660.1	657.8	650.9	650.9	646.3	644.0	650.9	650.9
5°	674.0	662.4	660.1	650.9	653.2	648.6	657.8	653.2	650.9	650.9	648.6
7.5°	678.6	667.0	657.8	650.9	648.6	655.5	667.0	667.0	680.9	674.0	674.0
10°	690.1	683.2	671.6	667.0	667.0	674.0	687.8	697.0	708.6	708.6	701.7
12.5°	717.8	706.3	692.4	685.5	694.7	701.7	715.5	724.7	738.6	743.2	738.6
15°	738.6	727.0	722.4	717.8	724.7	734.0	745.5	754.7	770.9	775.5	773.2
17.5°	766.3	752.4	750.1	752.4	757.0	764.0	770.9	777.8	789.4	789.4	789.4
20°	780.1	775.5	773.2	780.1	789.4	798.6	794.0	789.4	787.1	791.7	789.4
22.5°	805.5	800.9	803.2	810.1	810.1	805.5	798.6	782.4	777.8	782.4	777.8
25°	828.6	824.0	824.0	819.4	817.1	800.9	787.1	773.2	757.0	764.0	761.7
27.5°	851.7	849.4	849.4	830.9	807.8	780.1	761.7	745.5	736.3	747.8	740.9
30°	879.4	881.7	870.1	826.3	770.9	740.9	720.1	717.8	715.5	722.4	720.1
32.5°	904.8	907.1	888.6	819.4	743.2	685.5	664.7	667.0	678.6	690.1	701.7
35°	918.6	930.2	907.1	796.3	687.8	623.2	600.1	620.9	641.6	657.8	669.3
37.5°	944.0	974.0	934.8	770.9	639.3	567.8	551.6	558.6	583.9	609.3	620.9
40°	980.9	1015.6	941.7	722.4	574.7	512.4	503.2	505.5	514.7	530.9	542.4
42.5°	1045.6	1082.5	948.6	660.1	510.1	477.8	452.4	445.5	438.5	438.5	436.2
45°	1140.2	1174.8	939.4	581.6	445.5	422.4	403.9	387.8	369.3	339.3	343.9
47.5°	1278.7	1306.4	946.3	512.4	385.4	367.0	353.1	334.7	307.0	274.7	272.4
50°	1488.7	1447.2	937.1	440.8	341.6	325.4	313.9	288.5	256.2	233.1	230.8
52.5°	1733.4	1650.3	927.8	380.8	304.7	290.8	281.6	253.9	223.9	212.3	210.0
55°	2028.8	1908.8	941.7	327.7	277.0	265.4	256.2	230.8	207.7	198.5	196.2
57.5°	2377.3	2188.1	1017.9	286.2	247.0	242.3	240.0	219.3	198.5	191.6	189.3
60°	2705.1	2455.8	1068.6	256.2	219.3	223.9	228.5	219.3	196.2	191.6	191.6
62.5°	2979.7	2677.4	987.9	230.8	205.4	219.3	240.0	233.1	223.9	228.5	223.9
65°	3222.1	2753.5	738.6	217.0	198.5	230.8	265.4	263.1	242.3	247.0	244.7
67.5°	3263.6	2661.2	482.4	205.4	193.9	253.9	297.7	270.0	228.5	228.5	221.6
70°	3090.5	2414.2	323.1	193.9	191.6	253.9	304.7	253.9	214.7	214.7	205.4
72.5°	2536.6	1929.5	249.3	182.3	175.4	226.2	288.5	240.0	200.8	196.2	180.0
75°	1666.4	1244.1	203.1	173.1	152.3	198.5	260.8	221.6	191.6	177.7	170.8
77.5°	817.1	558.6	170.8	152.3	131.6	173.1	237.7	210.0	180.0	166.2	161.6
80°	223.9	200.8	143.1	133.9	110.8	150.0	223.9	200.8	168.5	154.6	147.7
82.5°	126.9	124.6	115.4	108.5	92.3	150.0	226.2	200.8	159.3	156.9	133.9
85°	69.2	73.9	83.1	80.8	71.6	133.9	214.7	175.4	129.3	108.5	108.5
87.5°	27.7	34.6	41.5	46.2	48.5	99.2	161.6	133.9	99.2	83.1	83.1
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)