

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: P675318

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

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675318  
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  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @615mA w/  
T4W distribution lens  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

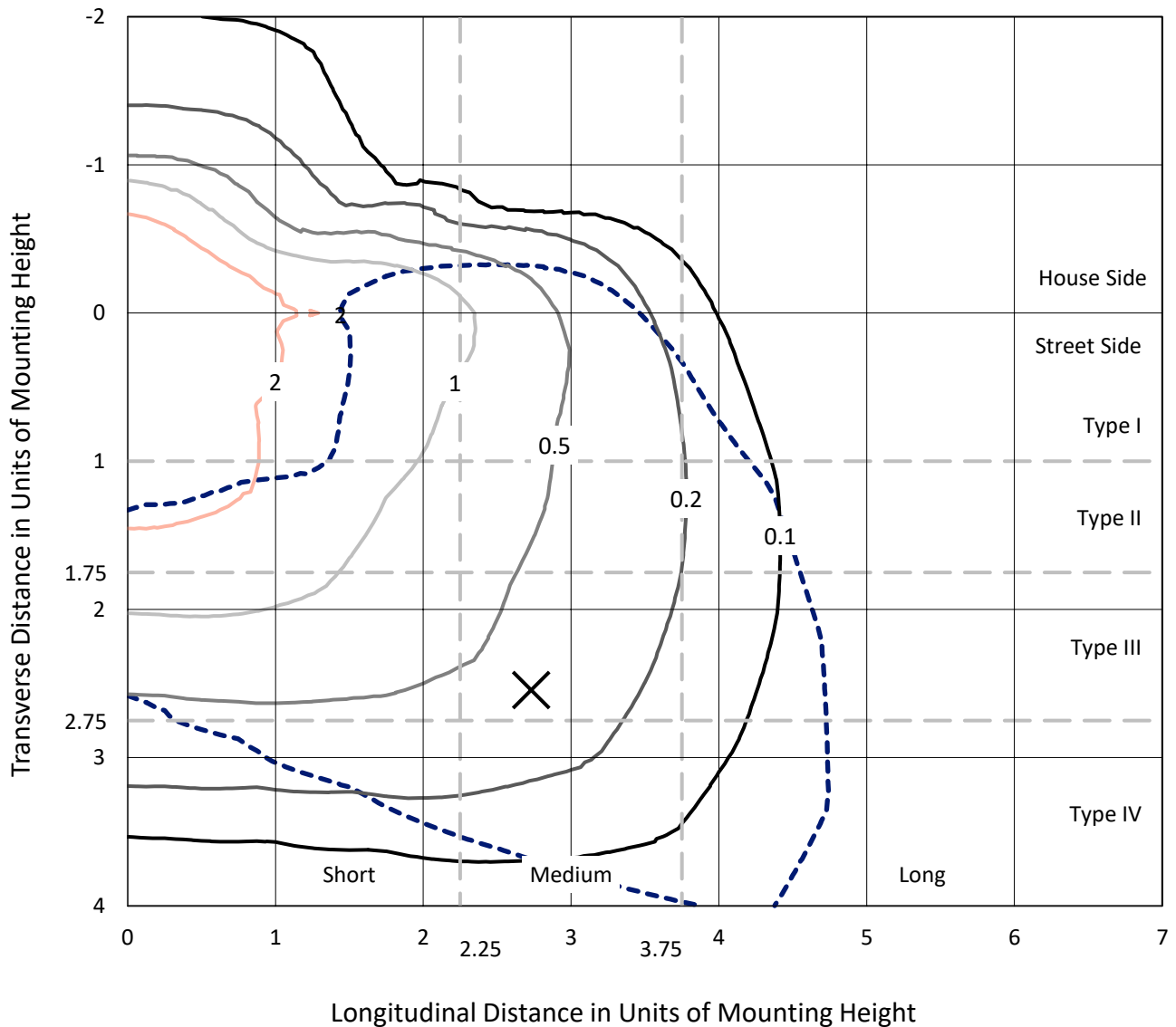
Lumens per Lamp: N/A  
Luminaire Lumens: 7247.8 lumens  
Efficiency: N/A  
Efficacy: 116.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G2

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

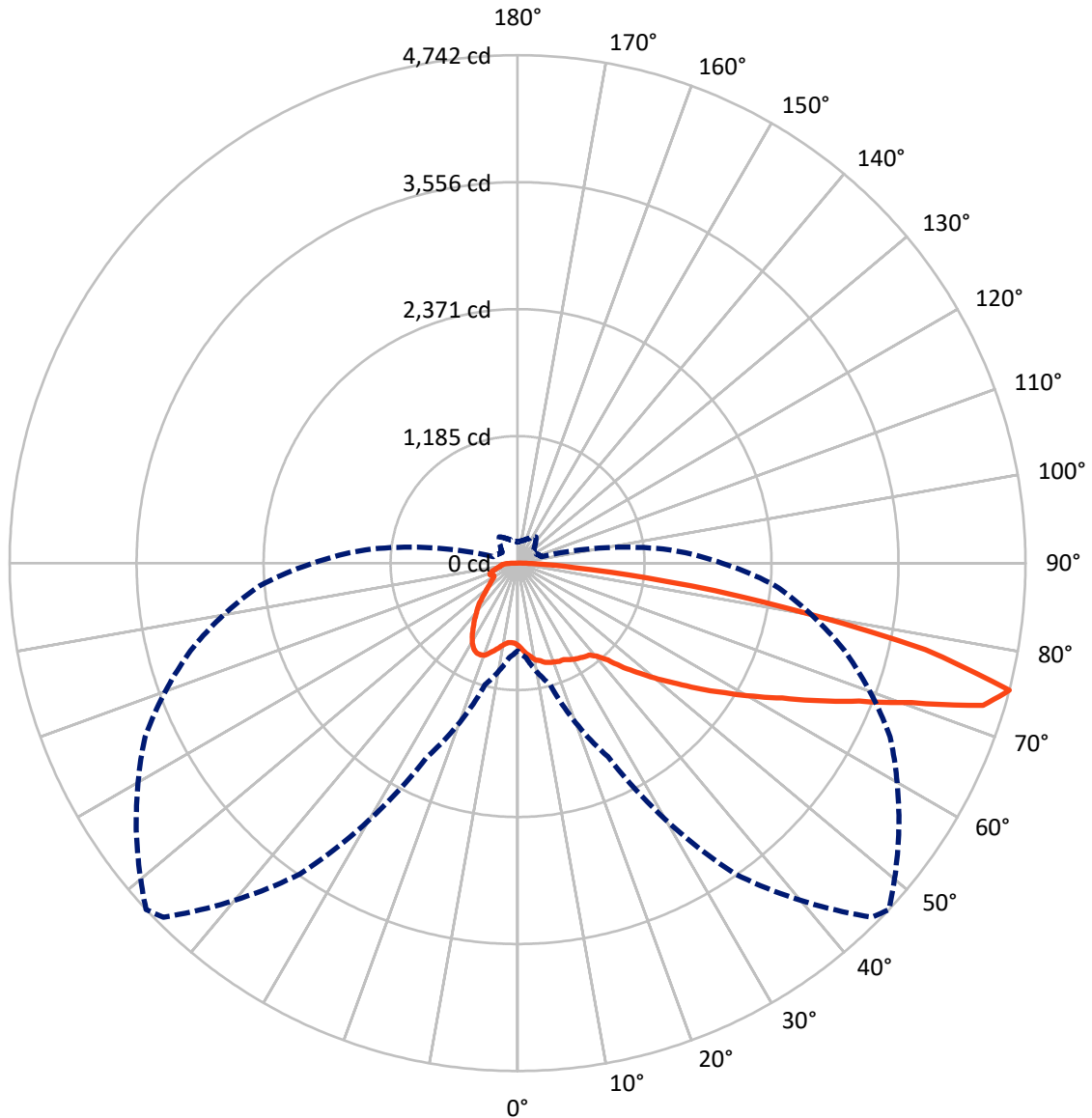
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.4 fc  
 Type IV - Medium - N/A

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### 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	1733.3	0.0	1733.3
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	5514.5	0.0	5514.5
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	7247.8	0.0	7247.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.8	1.1
10°-20°	258.4	3.6
20°-30°	442.5	6.1
30°-40°	619.2	8.5
40°-50°	863.3	11.9
50°-60°	1290.4	17.8
60°-70°	1860.4	25.7
70°-80°	1583.6	21.8
80°-90°	252.3	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°	7247.8	100.0
0°-180°	7247.8	100.0

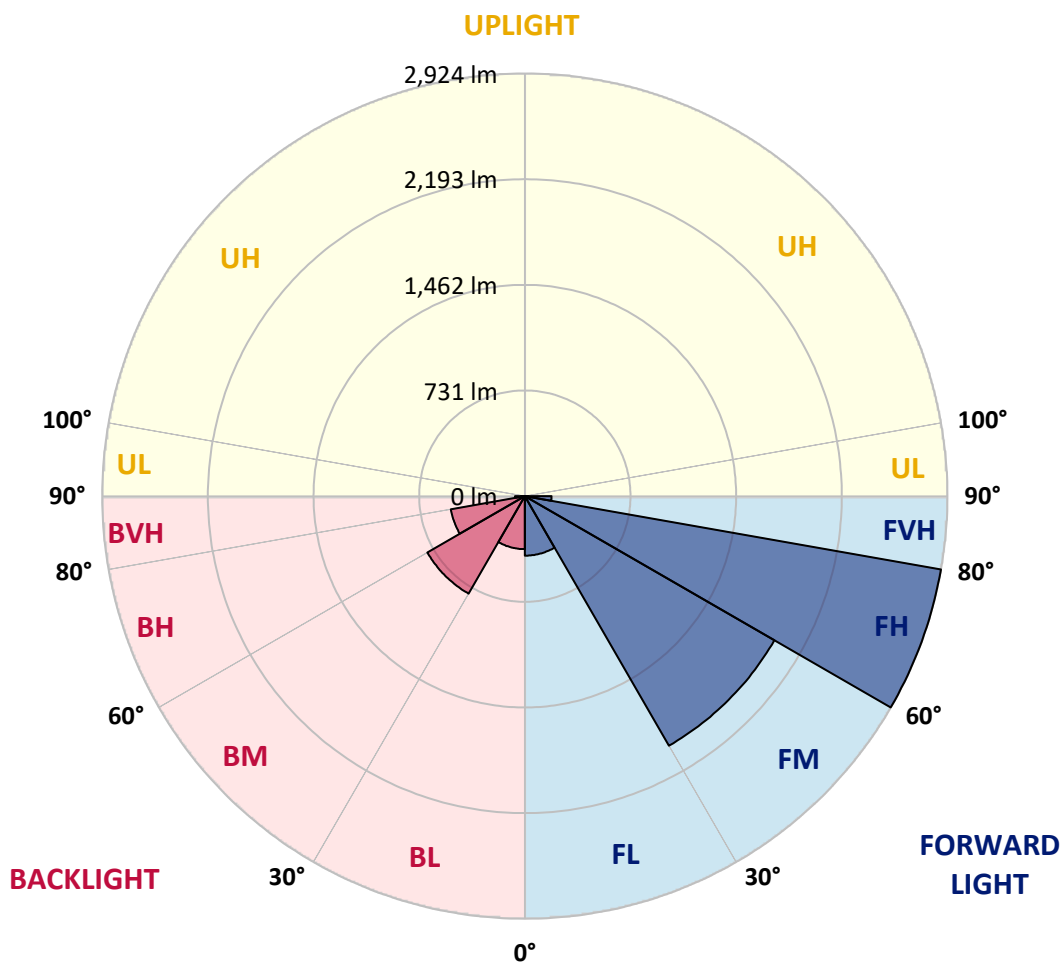


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	411.8	5.7			
FM (30°-60°)	1993.8	27.5			
FH (60°-80°)	2924.1	40.3			G2/5000
FVH (80°-90°)	184.8	2.6			G2/225
BL (0°-30°)	366.9	5.1	B1/500		
BM (30°-60°)	779.0	10.7	B1/1000		
BH (60°-80°)	520.0	7.2	B2/1000		G2/1000
BVH (80°-90°)	67.4	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	769.6	769.6	769.6	769.6	769.6	769.6	769.6	769.6	769.6	769.6	769.6
2.5°	825.1	827.7	827.7	822.5	817.2	806.6	806.6	796.0	790.7	777.5	772.2
5°	901.8	893.9	885.9	883.3	870.1	851.5	848.9	838.3	809.2	796.0	777.5
7.5°	957.3	954.7	952.0	941.5	917.7	888.6	880.6	864.8	835.7	809.2	788.1
10°	1002.3	1012.9	1002.3	978.5	954.7	922.9	920.3	891.2	864.8	833.0	806.6
12.5°	1052.5	1055.2	1036.7	1007.6	970.5	944.1	933.5	922.9	893.9	867.4	827.7
15°	1086.9	1081.6	1068.4	1028.7	986.4	960.0	962.6	949.4	917.7	899.1	856.8
17.5°	1086.9	1086.9	1065.8	1036.7	999.6	975.8	975.8	967.9	946.7	920.3	891.2
20°	1065.8	1065.8	1052.5	1036.7	994.3	989.1	983.8	978.5	978.5	954.7	912.4
22.5°	1039.3	1034.0	1039.3	1012.9	983.8	989.1	997.0	994.3	986.4	965.3	936.2
25°	1012.9	1015.5	1020.8	1002.3	975.8	999.6	997.0	1010.2	1004.9	989.1	965.3
27.5°	1010.2	1015.5	1018.1	999.6	989.1	1010.2	1020.8	1034.0	1036.7	1020.8	991.7
30°	1049.9	1047.2	1044.6	1020.8	1012.9	1031.4	1041.9	1060.5	1076.3	1041.9	1018.1
32.5°	1153.0	1137.2	1121.3	1057.8	1034.0	1047.2	1057.8	1084.3	1086.9	1068.4	1034.0
35°	1317.0	1306.4	1253.5	1142.4	1076.3	1063.1	1073.7	1092.2	1097.5	1084.3	1057.8
37.5°	1504.7	1499.5	1425.4	1290.5	1163.6	1100.1	1089.6	1116.0	1137.2	1108.1	1071.0
40°	1689.9	1668.7	1615.8	1483.6	1274.7	1155.7	1142.4	1155.7	1163.6	1142.4	1118.6
42.5°	1856.5	1832.7	1819.4	1687.2	1420.1	1248.2	1237.6	1205.9	1229.7	1203.3	1171.5
45°	1996.6	1991.3	1986.1	1872.3	1586.7	1399.0	1391.0	1309.0	1335.5	1314.3	1269.4
47.5°	2097.1	2120.9	2113.0	2049.5	1777.1	1560.3	1536.5	1430.7	1470.4	1449.2	1404.3
50°	2216.1	2229.3	2221.4	2179.1	1954.3	1745.4	1700.4	1592.0	1637.0	1634.3	1610.5
52.5°	2321.9	2361.6	2316.6	2314.0	2208.2	1946.4	1869.7	1766.6	1840.6	1869.7	1867.0
55°	2446.2	2477.9	2464.7	2459.4	2435.6	2142.1	2073.3	1949.0	2073.3	2115.6	2152.7
57.5°	2552.0	2549.3	2599.6	2660.4	2689.5	2366.9	2284.9	2139.4	2327.2	2374.8	2477.9
60°	2599.6	2644.5	2729.2	2882.6	2964.5	2607.5	2522.9	2406.5	2583.7	2620.7	2811.1
62.5°	2631.3	2671.0	2834.9	3094.1	3141.7	2853.5	2774.1	2657.8	2864.0	2890.5	3173.5
65°	2544.0	2581.1	2906.4	3173.5	3342.7	3117.9	3099.4	2977.8	3144.4	3160.2	3554.3
67.5°	2443.6	2483.2	2845.5	3273.9	3609.8	3469.6	3440.5	3295.1	3422.0	3403.5	3845.2
70°	2266.4	2319.3	2689.5	3361.2	3906.0	3961.5	3903.3	3697.1	3710.3	3535.8	3858.4
72.5°	1726.9	1761.3	2105.1	3014.8	4043.5	4643.8	4543.3	4130.8	3980.0	3562.2	3406.2
75°	819.8	883.3	1174.2	1994.0	3543.7	4675.6	4741.7	4345.0	3837.2	3160.2	2414.5
77.5°	238.0	238.0	357.0	846.3	2221.4	3768.5	3892.8	3689.1	3165.5	2340.4	1269.4
80°	129.6	137.5	187.8	298.8	975.8	2377.4	2557.3	2446.2	1864.4	925.6	327.9
82.5°	74.0	76.7	124.3	179.8	444.3	1293.2	1399.0	1269.4	708.7	280.3	153.4
85°	42.3	45.0	71.4	119.0	264.5	476.0	518.3	449.6	285.6	187.8	76.7
87.5°	21.2	21.2	34.4	55.5	134.9	134.9	132.2	161.3	171.9	113.7	34.4
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°	769.6	769.6	769.6	769.6	769.6	769.6	769.6	769.6	769.6	769.6	769.6
2.5°	769.6	766.9	766.9	756.3	753.7	745.8	745.8	740.5	737.8	745.8	745.8
5°	772.2	759.0	756.3	745.8	748.4	743.1	753.7	748.4	745.8	745.8	743.1
7.5°	777.5	764.3	753.7	745.8	743.1	751.0	764.3	764.3	780.1	772.2	772.2
10°	790.7	782.8	769.6	764.3	764.3	772.2	788.1	798.7	811.9	811.9	803.9
12.5°	822.5	809.2	793.4	785.4	796.0	803.9	819.8	830.4	846.3	851.5	846.3
15°	846.3	833.0	827.7	822.5	830.4	841.0	854.2	864.8	883.3	888.6	885.9
17.5°	878.0	862.1	859.5	862.1	867.4	875.3	883.3	891.2	904.4	904.4	904.4
20°	893.9	888.6	885.9	893.9	904.4	915.0	909.7	904.4	901.8	907.1	904.4
22.5°	922.9	917.7	920.3	928.2	928.2	922.9	915.0	896.5	891.2	896.5	891.2
25°	949.4	944.1	944.1	938.8	936.2	917.7	901.8	885.9	867.4	875.3	872.7
27.5°	975.8	973.2	973.2	952.0	925.6	893.9	872.7	854.2	843.6	856.8	848.9
30°	1007.6	1010.2	997.0	946.7	883.3	848.9	825.1	822.5	819.8	827.7	825.1
32.5°	1036.7	1039.3	1018.1	938.8	851.5	785.4	761.6	764.3	777.5	790.7	803.9
35°	1052.5	1065.8	1039.3	912.4	788.1	714.0	687.6	711.4	735.2	753.7	766.9
37.5°	1081.6	1116.0	1071.0	883.3	732.5	650.6	632.0	640.0	669.1	698.2	711.4
40°	1123.9	1163.6	1079.0	827.7	658.5	587.1	576.5	579.2	589.7	608.2	621.5
42.5°	1198.0	1240.3	1086.9	756.3	584.4	547.4	518.3	510.4	502.5	502.5	499.8
45°	1306.4	1346.1	1076.3	666.4	510.4	484.0	462.8	444.3	423.1	388.7	394.0
47.5°	1465.1	1496.8	1084.3	587.1	441.6	420.5	404.6	383.5	351.7	314.7	312.1
50°	1705.7	1658.1	1073.7	505.1	391.4	372.9	359.7	330.6	293.5	267.1	264.5
52.5°	1986.1	1890.8	1063.1	436.3	349.1	333.2	322.6	290.9	256.5	243.3	240.7
55°	2324.6	2187.0	1079.0	375.5	317.3	304.1	293.5	264.5	238.0	227.4	224.8
57.5°	2723.9	2507.0	1166.2	327.9	283.0	277.7	275.0	251.2	227.4	219.5	216.9
60°	3099.4	2813.8	1224.4	293.5	251.2	256.5	261.8	251.2	224.8	219.5	219.5
62.5°	3414.1	3067.7	1131.9	264.5	235.4	251.2	275.0	267.1	256.5	261.8	256.5
65°	3691.8	3154.9	846.3	248.6	227.4	264.5	304.1	301.5	277.7	283.0	280.3
67.5°	3739.4	3049.2	552.7	235.4	222.1	290.9	341.1	309.4	261.8	261.8	253.9
70°	3541.0	2766.2	370.2	222.1	219.5	290.9	349.1	290.9	245.9	245.9	235.4
72.5°	2906.4	2210.8	285.6	208.9	201.0	259.2	330.6	275.0	230.1	224.8	206.3
75°	1909.4	1425.4	232.7	198.3	174.5	227.4	298.8	253.9	219.5	203.6	195.7
77.5°	936.2	640.0	195.7	174.5	150.7	198.3	272.4	240.7	206.3	190.4	185.1
80°	256.5	230.1	164.0	153.4	126.9	171.9	256.5	230.1	193.1	177.2	169.3
82.5°	145.4	142.8	132.2	124.3	105.8	171.9	259.2	230.1	182.5	179.8	153.4
85°	79.3	84.6	95.2	92.6	82.0	153.4	245.9	201.0	148.1	124.3	124.3
87.5°	31.7	39.7	47.6	52.9	55.5	113.7	185.1	153.4	113.7	95.2	95.2
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)