

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: P675176

Luminaire Tested: **CCW-SA-2E-830-U-T4FT**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675176  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2E-830-U-T4FT  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/  
T4FT distribution lens  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

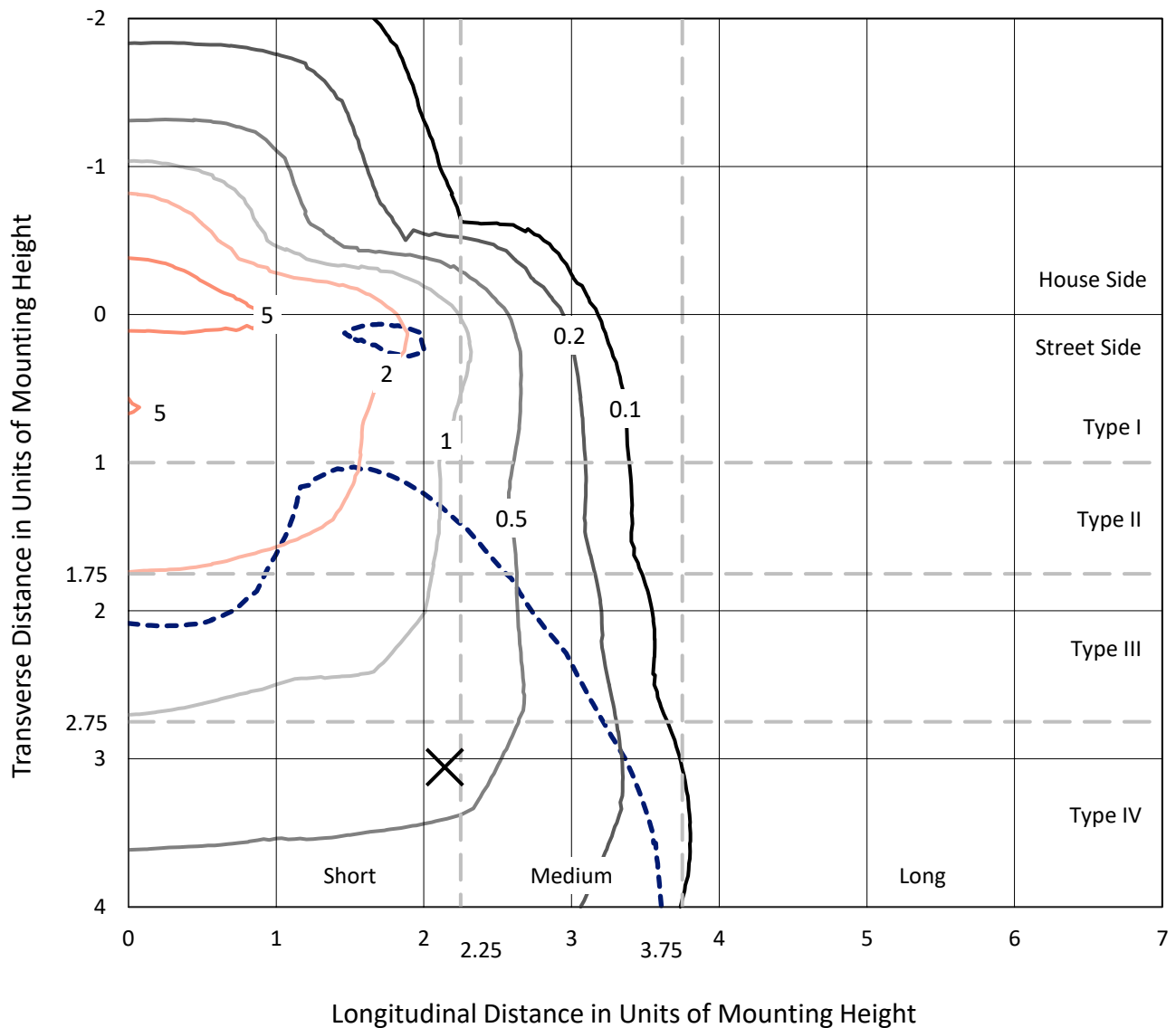
Lumens per Lamp: N/A  
Luminaire Lumens: 10857.9 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

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

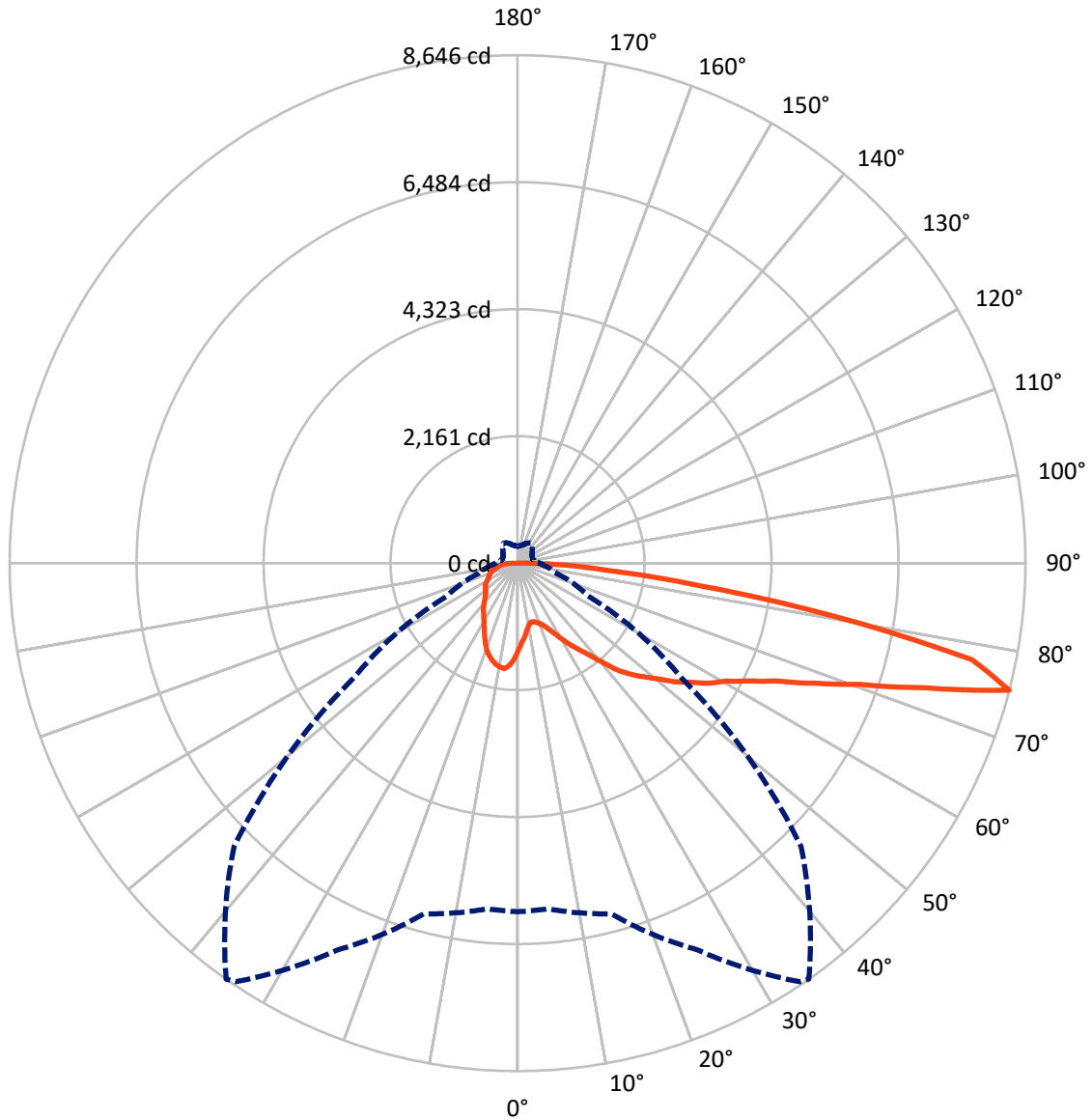
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2495.4	0.0	2495.4
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	8362.5	0.0	8362.5
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	10857.9	0.0	10857.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.7	1.3
10°-20°	411.4	3.8
20°-30°	682.6	6.3
30°-40°	1011.9	9.3
40°-50°	1459.0	13.4
50°-60°	2006.4	18.5
60°-70°	2478.4	22.8
70°-80°	2267.3	20.9
80°-90°	399.2	3.7
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°	10857.9	100.0
0°-180°	10857.9	100.0



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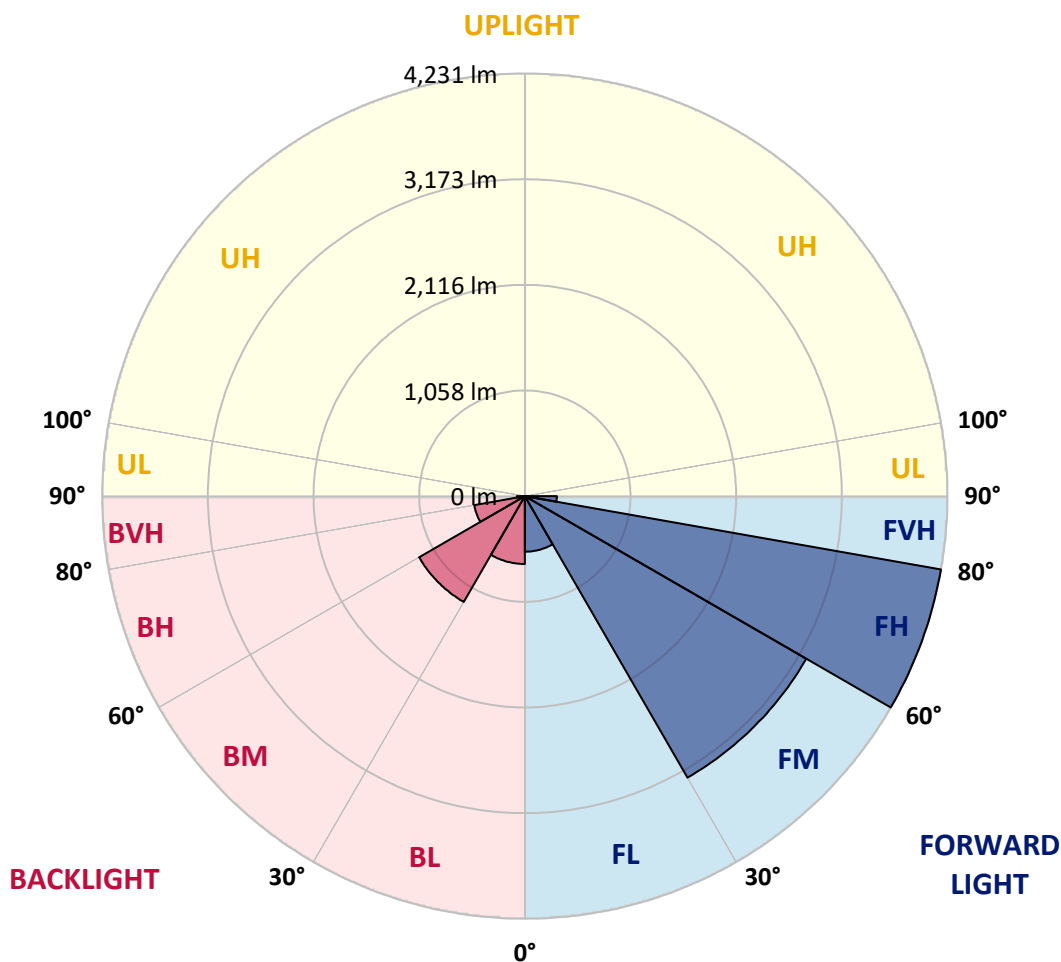
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	556.5	5.1			
FM (30°-60°)	3254.5	30.0			
FH (60°-80°)	4231.1	39.0			G2/5000
FVH (80°-90°)	320.3	3.0			G3/500
BL (0°-30°)	679.2	6.3	B2/1000		
BM (30°-60°)	1222.8	11.3	B2/2500		
BH (60°-80°)	514.6	4.7	B2/1000		G2/1000
BVH (80°-90°)	78.8	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6
2.5°	1347.6	1335.6	1347.6	1355.6	1355.6	1355.6	1367.6	1403.6	1427.6	1443.6	1471.6
5°	1207.7	1211.7	1219.7	1239.7	1251.7	1259.7	1279.7	1323.6	1359.6	1411.6	1471.6
7.5°	1083.7	1091.7	1103.7	1123.7	1151.7	1147.7	1191.7	1251.7	1319.6	1387.6	1475.6
10°	1019.7	1035.7	1039.7	1043.7	1071.7	1071.7	1131.7	1199.7	1283.7	1371.6	1475.6
12.5°	1031.7	1031.7	1019.7	1015.7	1031.7	1027.7	1079.7	1159.7	1251.7	1375.6	1491.6
15°	1067.7	1067.7	1043.7	1019.7	1043.7	1035.7	1079.7	1143.7	1251.7	1379.6	1523.6
17.5°	1115.7	1119.7	1091.7	1051.7	1059.7	1063.7	1095.7	1155.7	1251.7	1387.6	1567.6
20°	1211.7	1191.7	1147.7	1083.7	1111.7	1099.7	1147.7	1199.7	1275.7	1419.6	1631.6
22.5°	1295.6	1295.6	1211.7	1155.7	1159.7	1159.7	1203.7	1247.7	1311.6	1463.6	1679.5
25°	1431.6	1423.6	1319.6	1235.7	1243.7	1247.7	1271.7	1323.6	1371.6	1487.6	1739.5
27.5°	1603.6	1583.6	1479.6	1383.6	1351.6	1363.6	1375.6	1415.6	1427.6	1527.6	1811.5
30°	1787.5	1759.5	1671.5	1519.6	1503.6	1507.6	1487.6	1511.6	1495.6	1591.6	1883.5
32.5°	1903.5	1903.5	1819.5	1707.5	1663.5	1663.5	1595.6	1611.6	1611.6	1651.6	2011.5
35°	2003.5	1995.5	1939.5	1855.5	1827.5	1811.5	1743.5	1767.5	1727.5	1767.5	2191.4
37.5°	2155.4	2131.4	2107.4	2051.4	1995.5	1983.5	1947.5	1963.5	1907.5	1887.5	2395.4
40°	2331.4	2319.4	2295.4	2271.4	2215.4	2211.4	2171.4	2187.4	2127.4	2051.4	2599.3
42.5°	2591.3	2555.3	2479.3	2459.3	2471.3	2487.3	2471.3	2443.3	2335.4	2239.4	2819.2
45°	2851.2	2795.2	2651.3	2619.3	2711.3	2699.3	2767.2	2755.3	2579.3	2427.3	3051.2
47.5°	3019.2	2971.2	2855.2	2835.2	2875.2	2891.2	3095.2	3059.2	2779.2	2599.3	3275.1
50°	3139.1	3143.1	2991.2	3043.2	3095.2	3095.2	3351.1	3347.1	3023.2	2811.2	3567.0
52.5°	3315.1	3259.1	3195.1	3243.1	3315.1	3355.1	3671.0	3583.0	3175.1	2991.2	3894.9
55°	3407.1	3383.1	3327.1	3411.1	3563.0	3583.0	3918.9	3851.0	3347.1	3203.1	4230.9
57.5°	3443.1	3463.1	3555.0	3591.0	3803.0	3855.0	4142.9	4046.9	3507.0	3467.1	4490.8
60°	3603.0	3575.0	3699.0	3843.0	4046.9	4074.9	4422.8	4214.9	3663.0	3639.0	4574.8
62.5°	3926.9	3855.0	3922.9	4094.9	4378.8	4414.8	4718.7	4438.8	3731.0	3755.0	4570.8
65°	4398.8	4346.8	4246.8	4382.8	4782.7	4834.7	5066.6	4630.7	3711.0	3715.0	4246.8
67.5°	4954.7	4870.7	4766.7	4850.7	5338.6	5458.5	5490.5	4714.7	3571.0	3491.1	3455.1
70°	5442.5	5386.5	5318.6	5462.5	6142.3	6186.3	6018.4	4662.7	3183.1	2803.2	2303.4
72.5°	5898.4	5870.4	5910.4	6450.3	7230.0	7258.0	6514.2	4334.8	2515.3	1699.5	1071.7
75°	5934.4	5906.4	6182.3	7266.0	8593.7	8645.7	6822.2	3399.1	1327.6	691.8	451.9
77.5°	4018.9	4102.9	4618.7	6362.3	7893.9	7905.9	5578.5	1579.6	547.9	407.9	315.9
80°	987.7	1095.7	1739.5	3291.1	5322.6	5454.5	3055.2	531.9	359.9	311.9	235.9
82.5°	359.9	391.9	707.8	1487.6	2991.2	3043.2	1067.7	287.9	259.9	239.9	172.0
85°	172.0	176.0	335.9	731.8	1511.6	1495.6	383.9	172.0	187.9	164.0	104.0
87.5°	72.0	72.0	148.0	339.9	667.8	647.8	124.0	80.0	108.0	96.0	52.0
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°	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6
2.5°	1491.6	1499.6	1531.6	1555.6	1579.6	1599.6	1631.6	1631.6	1651.6	1651.6	1651.6
5°	1487.6	1531.6	1583.6	1639.6	1675.5	1711.5	1743.5	1747.5	1759.5	1775.5	1779.5
7.5°	1503.6	1547.6	1631.6	1711.5	1755.5	1771.5	1811.5	1799.5	1799.5	1799.5	1811.5
10°	1535.6	1583.6	1699.5	1771.5	1803.5	1807.5	1795.5	1787.5	1763.5	1755.5	1743.5
12.5°	1559.6	1643.6	1759.5	1815.5	1803.5	1791.5	1763.5	1723.5	1695.5	1687.5	1687.5
15°	1619.6	1703.5	1811.5	1831.5	1811.5	1747.5	1711.5	1667.5	1643.6	1607.6	1623.6
17.5°	1671.5	1767.5	1863.5	1839.5	1799.5	1699.5	1647.6	1583.6	1551.6	1511.6	1511.6
20°	1739.5	1827.5	1911.5	1847.5	1759.5	1651.6	1567.6	1487.6	1443.6	1403.6	1411.6
22.5°	1815.5	1895.5	1939.5	1815.5	1699.5	1575.6	1459.6	1383.6	1327.6	1303.6	1311.6
25°	1875.5	1963.5	1955.5	1763.5	1627.6	1479.6	1351.6	1279.7	1267.7	1243.7	1243.7
27.5°	1951.5	2043.4	1943.5	1699.5	1507.6	1327.6	1247.7	1219.7	1219.7	1207.7	1215.7
30°	2051.4	2115.4	1915.5	1607.6	1355.6	1191.7	1151.7	1167.7	1195.7	1183.7	1187.7
32.5°	2215.4	2207.4	1891.5	1503.6	1195.7	1059.7	1087.7	1119.7	1143.7	1155.7	1163.7
35°	2375.4	2323.4	1863.5	1363.6	1047.7	995.7	1019.7	1055.7	1099.7	1111.7	1115.7
37.5°	2535.3	2443.3	1815.5	1191.7	955.7	939.7	963.7	983.7	1019.7	1027.7	1035.7
40°	2703.3	2523.3	1731.5	1023.7	879.8	879.8	895.8	899.8	919.8	931.7	939.7
42.5°	2851.2	2599.3	1579.6	867.8	799.8	827.8	831.8	823.8	807.8	815.8	819.8
45°	3031.2	2683.3	1403.6	755.8	739.8	775.8	783.8	751.8	723.8	707.8	699.8
47.5°	3207.1	2771.2	1251.7	663.8	683.8	739.8	739.8	703.8	655.8	615.8	599.8
50°	3367.1	2859.2	1127.7	607.8	627.8	711.8	719.8	651.8	599.8	551.9	543.9
52.5°	3635.0	3007.2	999.7	563.8	595.8	691.8	687.8	627.8	559.8	507.9	503.9
55°	3871.0	3155.1	831.8	519.9	563.8	663.8	675.8	603.8	511.9	463.9	455.9
57.5°	4042.9	3191.1	663.8	475.9	531.9	631.8	647.8	555.8	479.9	439.9	435.9
60°	4074.9	3051.2	539.9	439.9	487.9	587.8	599.8	527.9	455.9	423.9	415.9
62.5°	3926.9	2783.2	459.9	407.9	451.9	543.9	567.8	495.9	431.9	403.9	399.9
65°	3591.0	2391.4	403.9	379.9	427.9	511.9	539.9	471.9	411.9	387.9	383.9
67.5°	2843.2	1835.5	359.9	359.9	395.9	479.9	519.9	455.9	391.9	375.9	371.9
70°	1859.5	1103.7	327.9	331.9	371.9	451.9	495.9	435.9	367.9	363.9	355.9
72.5°	799.8	507.9	291.9	303.9	335.9	403.9	459.9	407.9	339.9	327.9	315.9
75°	367.9	307.9	263.9	271.9	299.9	355.9	415.9	375.9	315.9	295.9	283.9
77.5°	259.9	223.9	219.9	235.9	255.9	307.9	367.9	351.9	291.9	275.9	267.9
80°	191.9	172.0	184.0	199.9	211.9	283.9	347.9	323.9	267.9	243.9	231.9
82.5°	136.0	128.0	144.0	160.0	172.0	247.9	319.9	283.9	223.9	203.9	184.0
85°	80.0	84.0	100.0	108.0	120.0	184.0	267.9	227.9	172.0	132.0	128.0
87.5°	36.0	36.0	48.0	52.0	60.0	108.0	180.0	144.0	108.0	84.0	80.0
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)