

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: P675320

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

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675320  
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-T4W  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/  
T4W distribution lens  
Light Source: (32) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

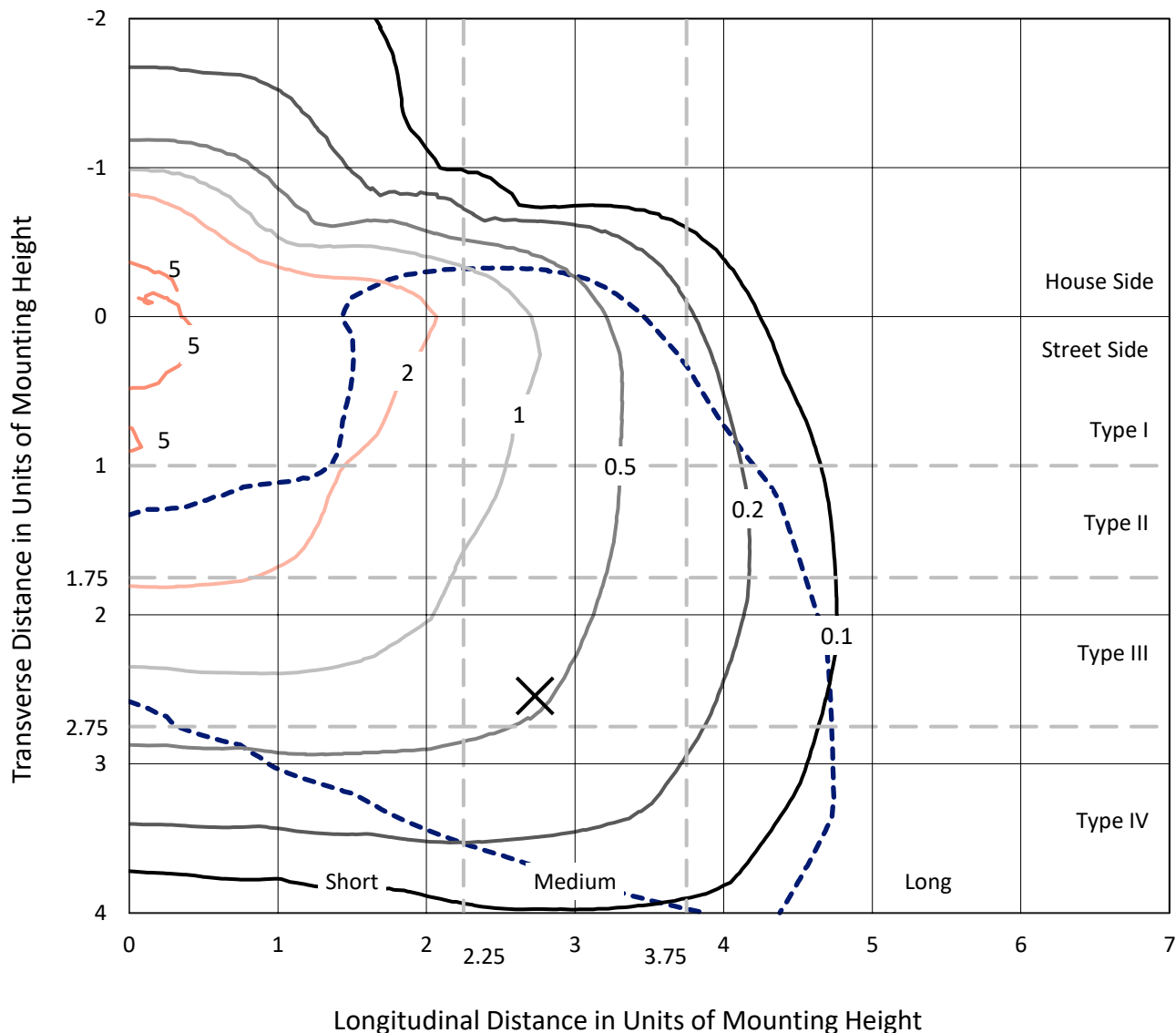
Lumens per Lamp: N/A  
Luminaire Lumens: 10960.5 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3

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

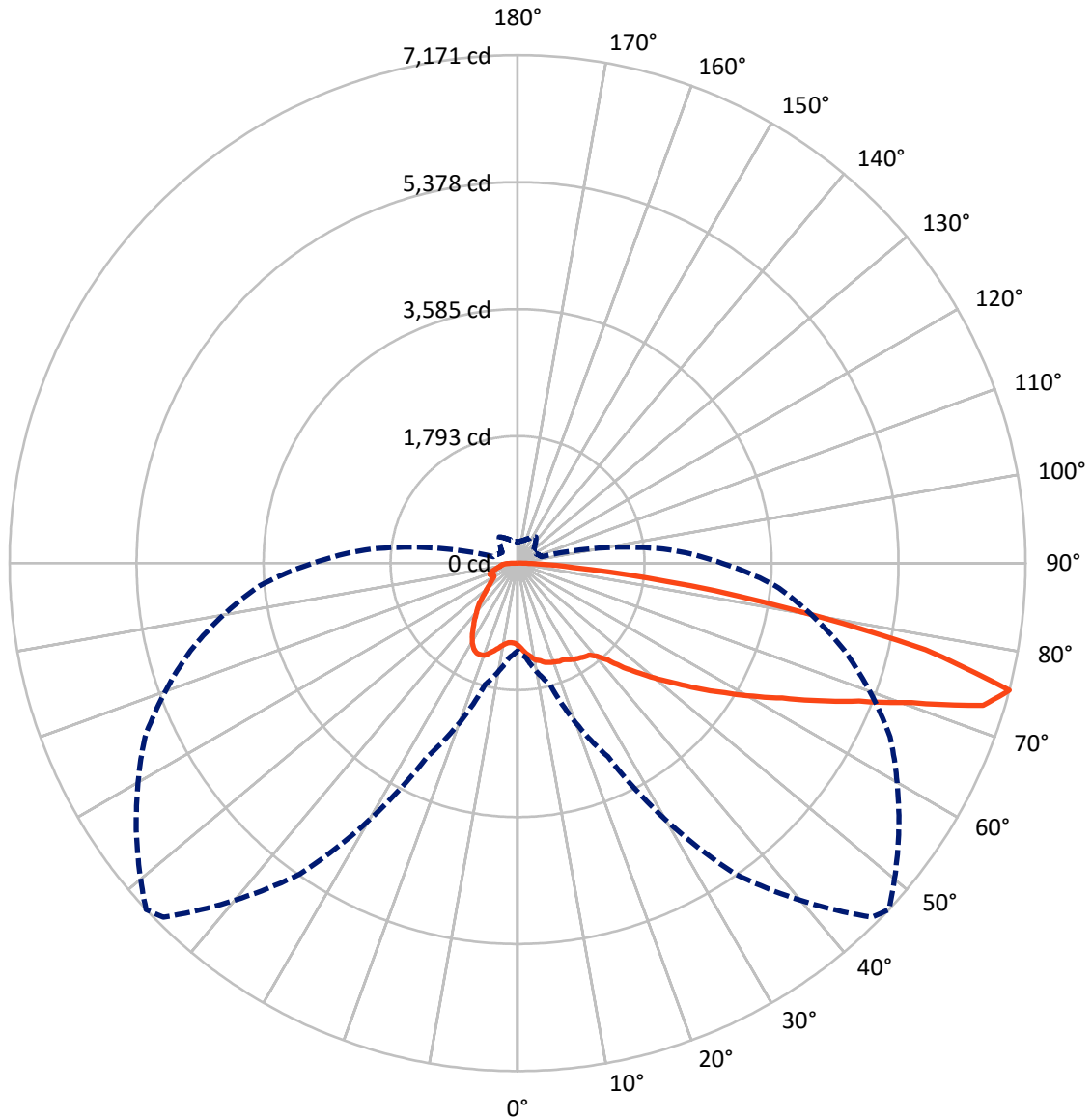
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.6 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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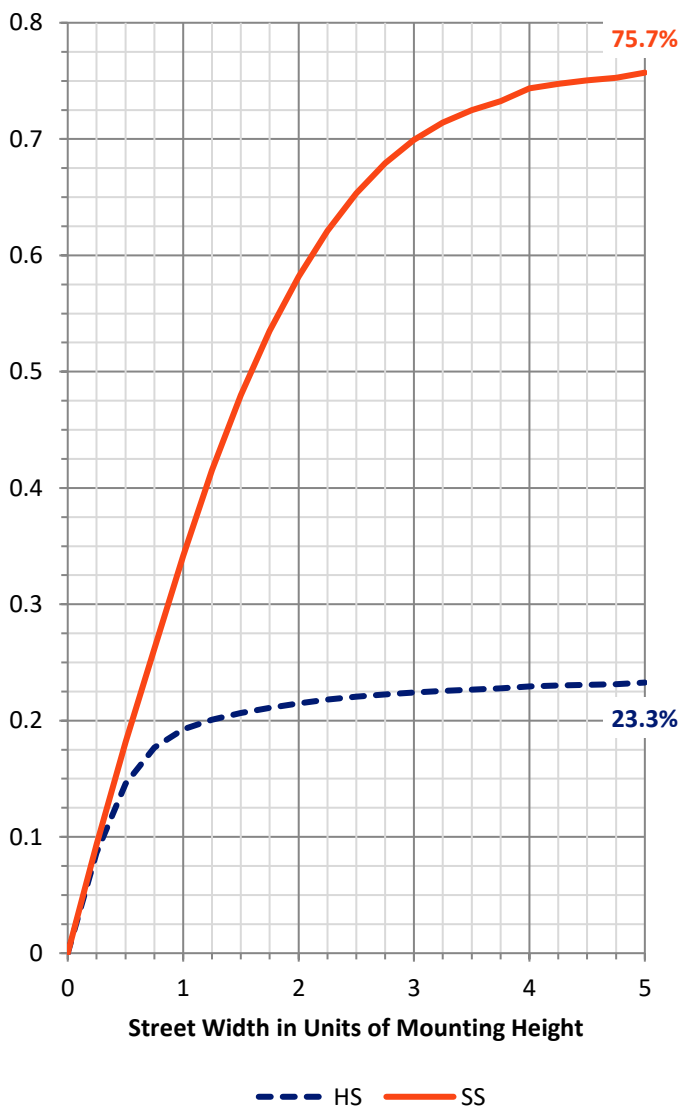
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2621.2	0.0	2621.2
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	8339.3	0.0	8339.3
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	10960.5	0.0	10960.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.6	1.1
10°-20°	390.7	3.6
20°-30°	669.2	6.1
30°-40°	936.3	8.5
40°-50°	1305.5	11.9
50°-60°	1951.4	17.8
60°-70°	2813.4	25.7
70°-80°	2394.8	21.8
80°-90°	381.5	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°	10960.5	100.0
0°-180°	10960.5	100.0



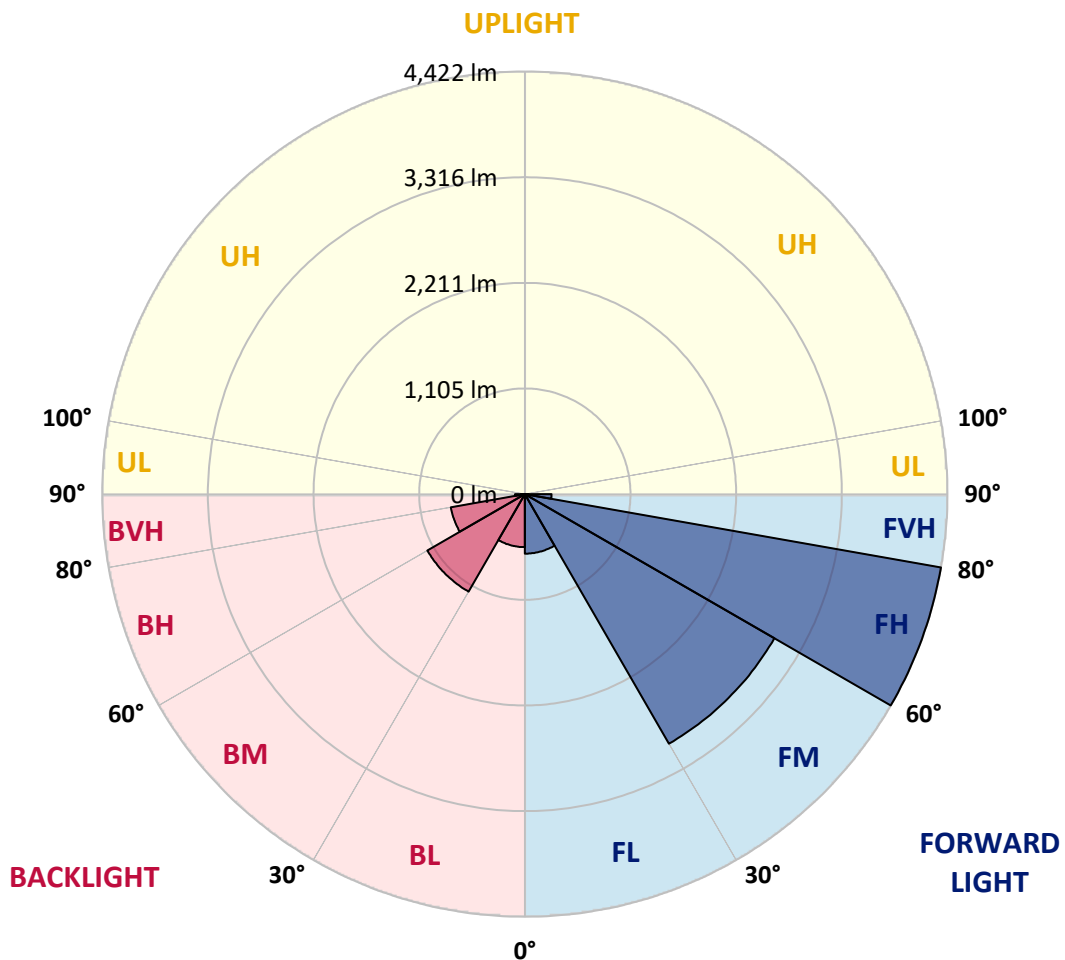
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	622.7	5.7			
FM (30°-60°)	3015.2	27.5			
FH (60°-80°)	4421.9	40.3			G2/5000
FVH (80°-90°)	279.5	2.6			G3/500
BL (0°-30°)	554.8	5.1	B2/1000		
BM (30°-60°)	1178.1	10.7	B2/2500		
BH (60°-80°)	786.3	7.2	B2/1000		G2/1000
BVH (80°-90°)	102.0	0.9			G2/225
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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8
2.5°	1247.8	1251.8	1251.8	1243.8	1235.8	1219.8	1219.8	1203.8	1195.8	1175.8	1167.8
5°	1363.7	1351.7	1339.7	1335.7	1315.7	1287.7	1283.7	1267.8	1223.8	1203.8	1175.8
7.5°	1447.7	1443.7	1439.7	1423.7	1387.7	1343.7	1331.7	1307.7	1263.8	1223.8	1191.8
10°	1515.7	1531.7	1515.7	1479.7	1443.7	1395.7	1391.7	1347.7	1307.7	1259.8	1219.8
12.5°	1591.7	1595.7	1567.7	1523.7	1467.7	1427.7	1411.7	1395.7	1351.7	1311.7	1251.8
15°	1643.7	1635.7	1615.7	1555.7	1491.7	1451.7	1455.7	1435.7	1387.7	1359.7	1295.7
17.5°	1643.7	1643.7	1611.7	1567.7	1511.7	1475.7	1475.7	1463.7	1431.7	1391.7	1347.7
20°	1611.7	1611.7	1591.7	1567.7	1503.7	1495.7	1487.7	1479.7	1479.7	1443.7	1379.7
22.5°	1571.7	1563.7	1571.7	1531.7	1487.7	1495.7	1507.7	1503.7	1491.7	1459.7	1415.7
25°	1531.7	1535.7	1543.7	1515.7	1475.7	1511.7	1507.7	1527.7	1519.7	1495.7	1459.7
27.5°	1527.7	1535.7	1539.7	1511.7	1495.7	1527.7	1543.7	1563.7	1567.7	1543.7	1499.7
30°	1587.7	1583.7	1579.7	1543.7	1531.7	1559.7	1575.7	1603.7	1627.7	1575.7	1539.7
32.5°	1743.7	1719.7	1695.7	1599.7	1563.7	1583.7	1599.7	1639.7	1643.7	1615.7	1563.7
35°	1991.6	1975.6	1895.6	1727.7	1627.7	1607.7	1623.7	1651.7	1659.7	1639.7	1599.7
37.5°	2275.6	2267.6	2155.6	1951.6	1759.7	1663.7	1647.7	1687.7	1719.7	1675.7	1619.7
40°	2555.5	2523.5	2443.5	2243.6	1927.6	1747.7	1727.7	1747.7	1759.7	1727.7	1691.7
42.5°	2807.4	2771.5	2751.5	2551.5	2147.6	1887.6	1871.6	1823.6	1859.6	1819.6	1771.7
45°	3019.4	3011.4	3003.4	2831.4	2399.5	2115.6	2103.6	1979.6	2019.6	1987.6	1919.6
47.5°	3171.4	3207.4	3195.4	3099.4	2687.5	2359.5	2323.5	2163.6	2223.6	2191.6	2123.6
50°	3351.3	3371.3	3359.3	3295.4	2955.4	2639.5	2571.5	2407.5	2475.5	2471.5	2435.5
52.5°	3511.3	3571.3	3503.3	3499.3	3339.3	2943.4	2827.4	2671.5	2783.5	2827.4	2823.4
55°	3699.3	3747.3	3727.3	3719.3	3683.3	3239.4	3135.4	2947.4	3135.4	3199.4	3255.4
57.5°	3859.2	3855.2	3931.2	4023.2	4067.2	3579.3	3455.3	3235.4	3519.3	3591.3	3747.3
60°	3931.2	3999.2	4127.2	4359.1	4483.1	3943.2	3815.3	3639.3	3907.2	3963.2	4251.2
62.5°	3979.2	4039.2	4287.2	4679.1	4751.1	4315.2	4195.2	4019.2	4331.1	4371.1	4799.1
65°	3847.2	3903.2	4395.1	4799.1	5055.0	4715.1	4687.1	4503.1	4755.1	4779.1	5374.9
67.5°	3695.3	3755.3	4303.2	4951.0	5458.9	5247.0	5203.0	4983.0	5175.0	5147.0	5814.9
70°	3427.3	3507.3	4067.2	5083.0	5906.8	5990.8	5902.8	5590.9	5610.9	5346.9	5834.9
72.5°	2611.5	2663.5	3183.4	4559.1	6114.8	7022.6	6870.6	6246.8	6018.8	5386.9	5151.0
75°	1239.8	1335.7	1775.7	3015.4	5358.9	7070.6	7170.6	6570.7	5802.9	4779.1	3651.3
77.5°	359.9	359.9	539.9	1279.7	3359.3	5698.9	5886.8	5578.9	4787.1	3539.3	1919.6
80°	196.0	208.0	283.9	451.9	1475.7	3595.3	3867.2	3699.3	2819.4	1399.7	495.9
82.5°	112.0	116.0	188.0	271.9	671.9	1955.6	2115.6	1919.6	1071.8	423.9	232.0
85°	64.0	68.0	108.0	180.0	399.9	719.9	783.8	679.9	431.9	283.9	116.0
87.5°	32.0	32.0	52.0	84.0	204.0	204.0	200.0	244.0	259.9	172.0	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°	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8
2.5°	1163.8	1159.8	1159.8	1143.8	1139.8	1127.8	1127.8	1119.8	1115.8	1127.8	1127.8
5°	1167.8	1147.8	1143.8	1127.8	1131.8	1123.8	1139.8	1131.8	1127.8	1127.8	1123.8
7.5°	1175.8	1155.8	1139.8	1127.8	1123.8	1135.8	1155.8	1155.8	1179.8	1167.8	1167.8
10°	1195.8	1183.8	1163.8	1155.8	1155.8	1167.8	1191.8	1207.8	1227.8	1227.8	1215.8
12.5°	1243.8	1223.8	1199.8	1187.8	1203.8	1215.8	1239.8	1255.8	1279.7	1287.7	1279.7
15°	1279.7	1259.8	1251.8	1243.8	1255.8	1271.8	1291.7	1307.7	1335.7	1343.7	1339.7
17.5°	1327.7	1303.7	1299.7	1303.7	1311.7	1323.7	1335.7	1347.7	1367.7	1367.7	1367.7
20°	1351.7	1343.7	1339.7	1351.7	1367.7	1383.7	1375.7	1367.7	1363.7	1371.7	1367.7
22.5°	1395.7	1387.7	1391.7	1403.7	1403.7	1395.7	1383.7	1355.7	1347.7	1355.7	1347.7
25°	1435.7	1427.7	1427.7	1419.7	1415.7	1387.7	1363.7	1339.7	1311.7	1323.7	1319.7
27.5°	1475.7	1471.7	1471.7	1439.7	1399.7	1351.7	1319.7	1291.7	1275.7	1295.7	1283.7
30°	1523.7	1527.7	1507.7	1431.7	1335.7	1283.7	1247.8	1243.8	1239.8	1251.8	1247.8
32.5°	1567.7	1571.7	1539.7	1419.7	1287.7	1187.8	1151.8	1155.8	1175.8	1195.8	1215.8
35°	1591.7	1611.7	1571.7	1379.7	1191.8	1079.8	1039.8	1075.8	1111.8	1139.8	1159.8
37.5°	1635.7	1687.7	1619.7	1335.7	1107.8	983.8	955.8	967.8	1011.8	1055.8	1075.8
40°	1699.7	1759.7	1631.7	1251.8	995.8	887.8	871.8	875.8	891.8	919.8	939.8
42.5°	1811.6	1875.6	1643.7	1143.8	883.8	827.8	783.8	771.8	759.9	759.9	755.9
45°	1975.6	2035.6	1627.7	1007.8	771.8	731.9	699.9	671.9	639.9	587.9	595.9
47.5°	2215.6	2263.6	1639.7	887.8	667.9	635.9	611.9	579.9	531.9	475.9	471.9
50°	2579.5	2507.5	1623.7	763.8	591.9	563.9	543.9	499.9	443.9	403.9	399.9
52.5°	3003.4	2859.4	1607.7	659.9	527.9	503.9	487.9	439.9	387.9	367.9	363.9
55°	3515.3	3307.3	1631.7	567.9	479.9	459.9	443.9	399.9	359.9	343.9	339.9
57.5°	4119.2	3791.3	1763.7	495.9	427.9	419.9	415.9	379.9	343.9	331.9	327.9
60°	4687.1	4255.2	1851.6	443.9	379.9	387.9	395.9	379.9	339.9	331.9	331.9
62.5°	5163.0	4639.1	1711.7	399.9	355.9	379.9	415.9	403.9	387.9	395.9	387.9
65°	5582.9	4771.1	1279.7	375.9	343.9	399.9	459.9	455.9	419.9	427.9	423.9
67.5°	5654.9	4611.1	835.8	355.9	335.9	439.9	515.9	467.9	395.9	395.9	383.9
70°	5354.9	4183.2	559.9	335.9	331.9	439.9	527.9	439.9	371.9	371.9	355.9
72.5°	4395.1	3343.3	431.9	315.9	303.9	391.9	499.9	415.9	347.9	339.9	311.9
75°	2887.4	2155.6	351.9	299.9	263.9	343.9	451.9	383.9	331.9	307.9	295.9
77.5°	1415.7	967.8	295.9	263.9	228.0	299.9	411.9	363.9	311.9	287.9	279.9
80°	387.9	347.9	248.0	232.0	192.0	259.9	387.9	347.9	291.9	267.9	255.9
82.5°	220.0	216.0	200.0	188.0	160.0	259.9	391.9	347.9	275.9	271.9	232.0
85°	120.0	128.0	144.0	140.0	124.0	232.0	371.9	303.9	224.0	188.0	188.0
87.5°	48.0	60.0	72.0	80.0	84.0	172.0	279.9	232.0	172.0	144.0	144.0
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)