

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: P675315

Luminaire Tested: **CCW-SA-1F-830-U-T4W**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675315  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1F-830-U-T4W  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/  
T4W distribution lens  
Light Source: (16) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

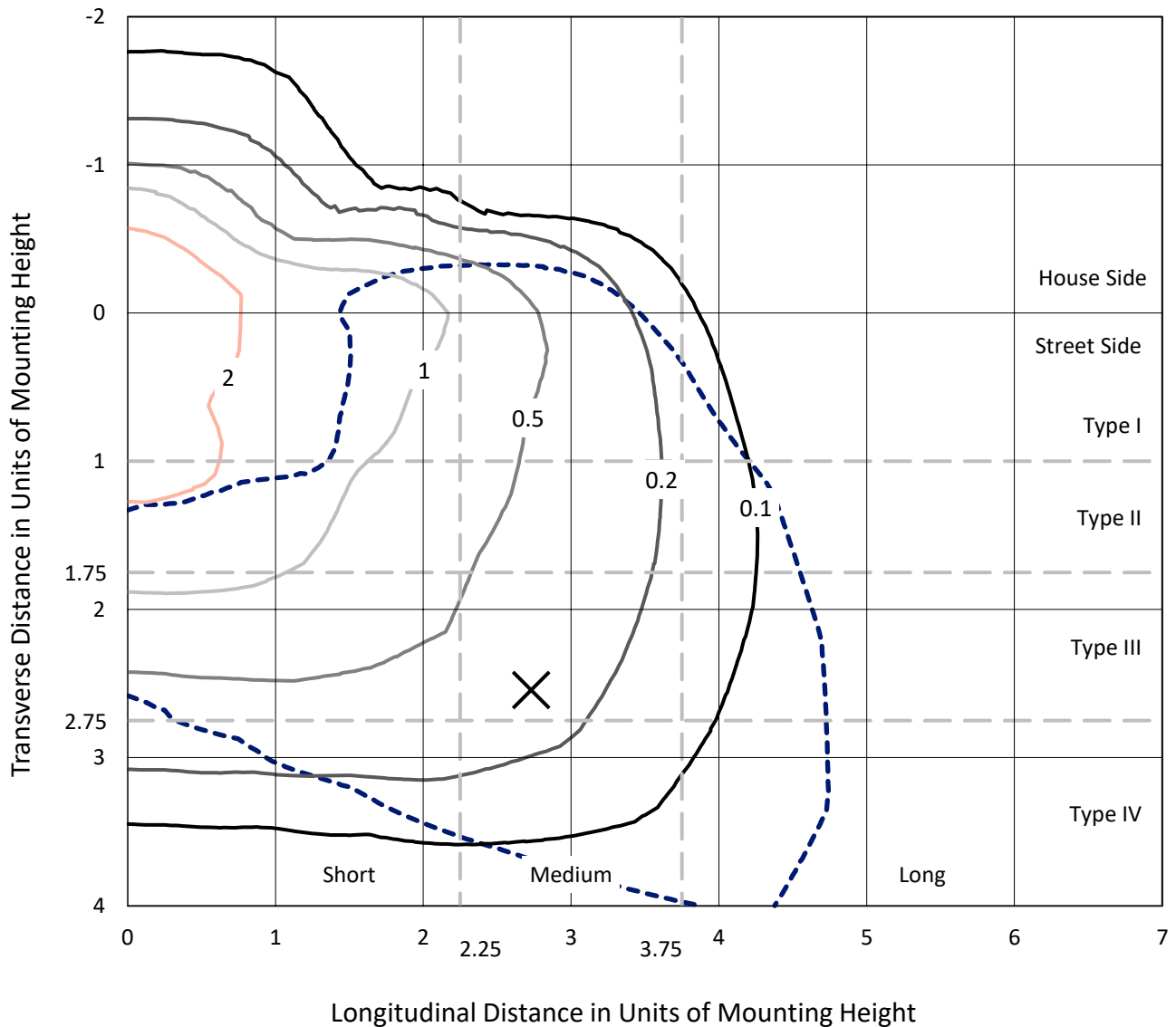
Lumens per Lamp: N/A  
Luminaire Lumens: 6010.2 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

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

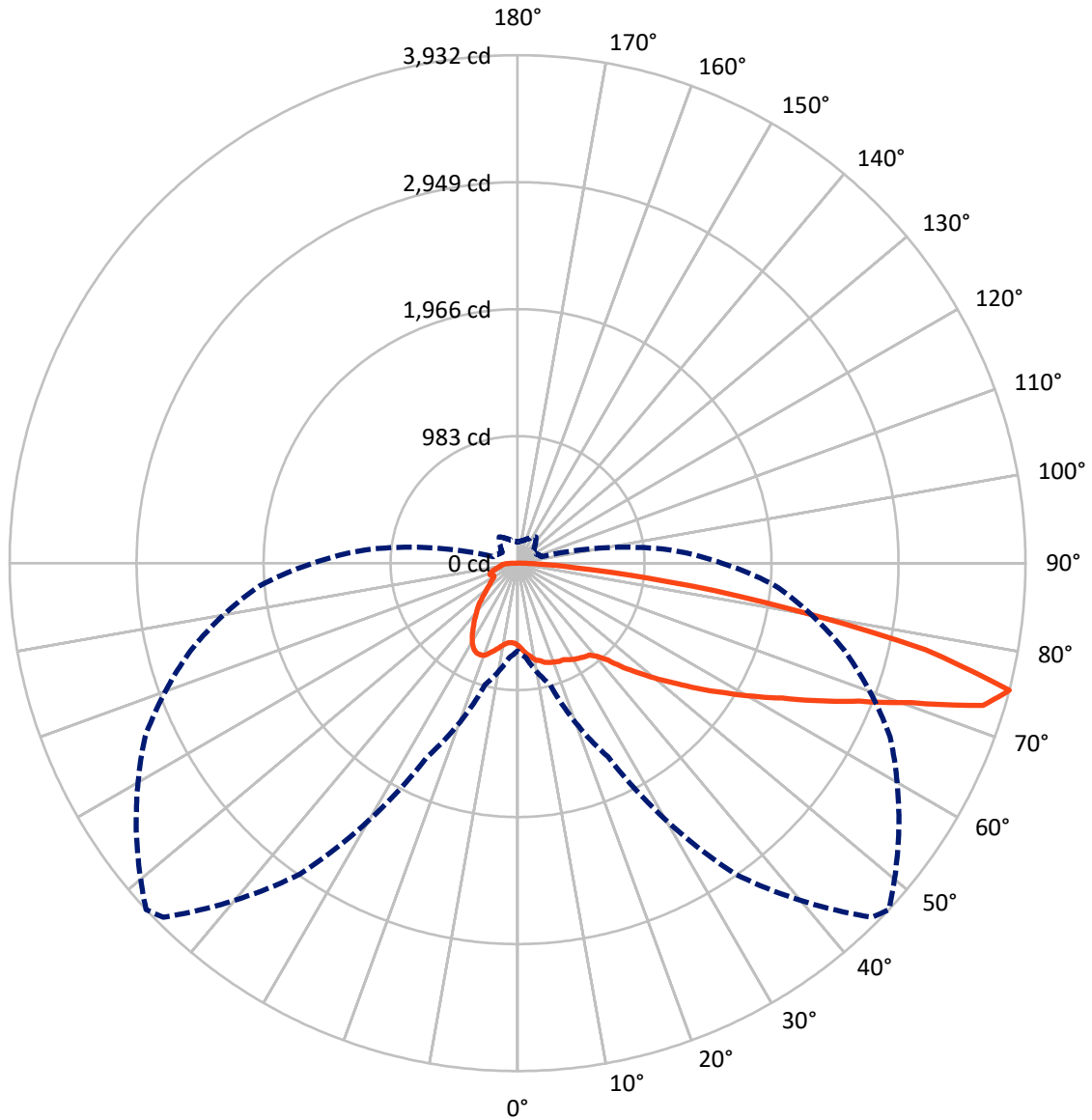
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.6 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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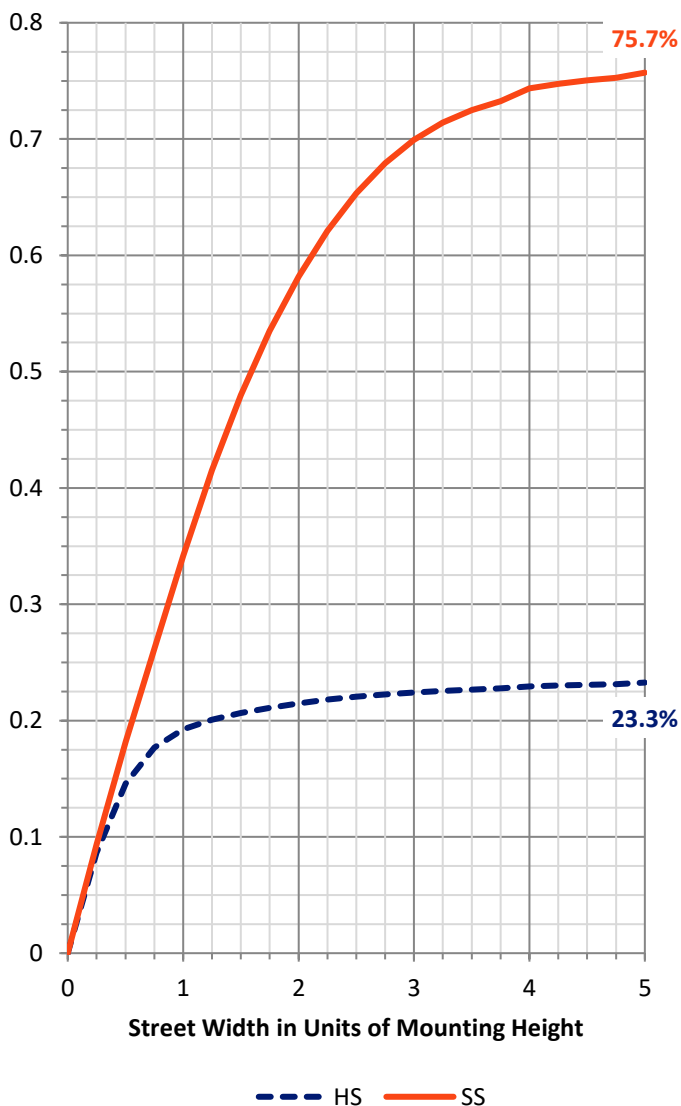
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1437.3	0.0	1437.3
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	4572.9	0.0	4572.9
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	6010.2	0.0	6010.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.5	1.1
10°-20°	214.2	3.6
20°-30°	366.9	6.1
30°-40°	513.4	8.5
40°-50°	715.9	11.9
50°-60°	1070.0	17.8
60°-70°	1542.7	25.7
70°-80°	1313.2	21.8
80°-90°	209.2	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°	6010.2	100.0
0°-180°	6010.2	100.0



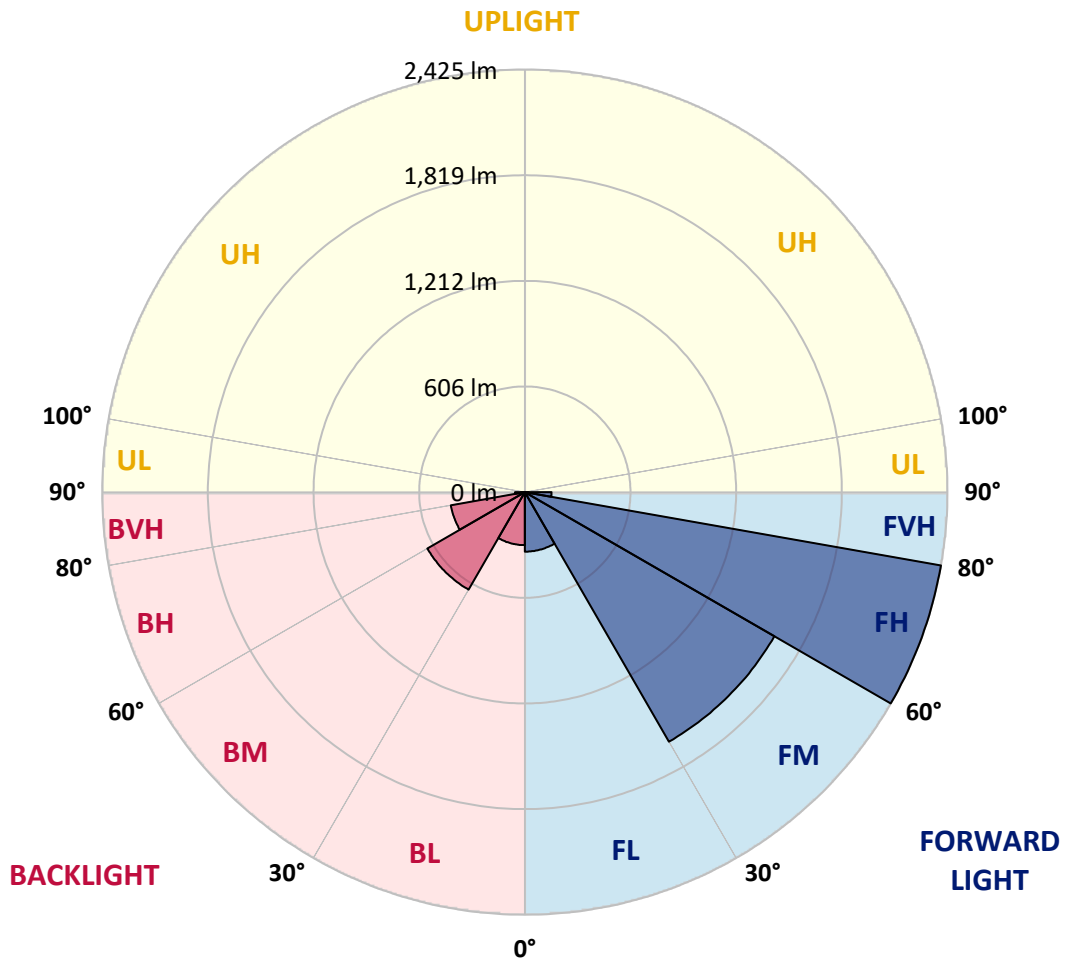
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	341.5	5.7			
FM (30°-60°)	1653.4	27.5			
FH (60°-80°)	2424.8	40.3			G2/5000
FVH (80°-90°)	153.3	2.6			G2/225
BL (0°-30°)	304.2	5.1	B1/500		
BM (30°-60°)	646.0	10.7	B1/1000		
BH (60°-80°)	431.2	7.2	B1/500		G1/500
BVH (80°-90°)	55.9	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°	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2
2.5°	684.2	686.4	686.4	682.0	677.6	668.9	668.9	660.1	655.7	644.7	640.4
5°	747.8	741.2	734.6	732.5	721.5	706.1	703.9	695.2	671.1	660.1	644.7
7.5°	793.9	791.7	789.5	780.7	761.0	736.8	730.3	717.1	693.0	671.1	653.5
10°	831.1	839.9	831.1	811.4	791.7	765.4	763.2	739.0	717.1	690.8	668.9
12.5°	872.8	875.0	859.7	835.5	804.8	782.9	774.1	765.4	741.2	719.3	686.4
15°	901.3	896.9	886.0	853.1	818.0	796.1	798.2	787.3	761.0	745.6	710.5
17.5°	901.3	901.3	883.8	859.7	828.9	809.2	809.2	802.6	785.1	763.2	739.0
20°	883.8	883.8	872.8	859.7	824.6	820.2	815.8	811.4	811.4	791.7	756.6
22.5°	861.8	857.5	861.8	839.9	815.8	820.2	826.8	824.6	818.0	800.4	776.3
25°	839.9	842.1	846.5	831.1	809.2	828.9	826.8	837.7	833.3	820.2	800.4
27.5°	837.7	842.1	844.3	828.9	820.2	837.7	846.5	857.5	859.7	846.5	822.4
30°	870.6	868.4	866.2	846.5	839.9	855.3	864.0	879.4	892.5	864.0	844.3
32.5°	956.1	943.0	929.8	877.2	857.5	868.4	877.2	899.1	901.3	886.0	857.5
35°	1092.1	1083.3	1039.5	947.4	892.5	881.6	890.4	905.7	910.1	899.1	877.2
37.5°	1247.8	1243.4	1182.0	1070.2	964.9	912.3	903.5	925.4	943.0	918.9	888.2
40°	1401.3	1383.8	1339.9	1230.3	1057.0	958.3	947.4	958.3	964.9	947.4	927.6
42.5°	1539.5	1519.7	1508.8	1399.1	1177.6	1035.1	1026.3	1000.0	1019.7	997.8	971.5
45°	1655.7	1651.3	1646.9	1552.6	1315.8	1160.1	1153.5	1085.5	1107.5	1089.9	1052.6
47.5°	1739.0	1758.8	1752.2	1699.6	1473.7	1293.9	1274.1	1186.4	1219.3	1201.8	1164.5
50°	1837.7	1848.7	1842.1	1807.0	1620.6	1447.4	1410.1	1320.2	1357.5	1355.3	1335.5
52.5°	1925.4	1958.3	1921.1	1918.9	1831.1	1614.0	1550.4	1464.9	1526.3	1550.4	1548.2
55°	2028.5	2054.8	2043.9	2039.5	2019.7	1776.3	1719.3	1616.2	1719.3	1754.4	1785.1
57.5°	2116.2	2114.0	2155.7	2206.1	2230.3	1962.7	1894.7	1774.1	1929.8	1969.3	2054.8
60°	2155.7	2193.0	2263.2	2390.4	2458.3	2162.3	2092.1	1995.6	2142.5	2173.2	2331.1
62.5°	2182.0	2214.9	2350.9	2565.8	2605.3	2366.2	2300.4	2203.9	2375.0	2396.9	2631.6
65°	2109.7	2140.4	2410.1	2631.6	2771.9	2585.5	2570.2	2469.3	2607.5	2620.6	2947.4
67.5°	2026.3	2059.2	2359.7	2714.9	2993.4	2877.2	2853.1	2732.5	2837.7	2822.4	3188.6
70°	1879.4	1923.2	2230.3	2787.3	3239.0	3285.1	3236.8	3065.8	3076.8	2932.0	3199.6
72.5°	1432.0	1460.5	1745.6	2500.0	3353.1	3850.9	3767.5	3425.4	3300.4	2954.0	2824.6
75°	679.8	732.5	973.7	1653.5	2938.6	3877.2	3932.0	3603.1	3182.0	2620.6	2002.2
77.5°	197.4	197.4	296.1	701.8	1842.1	3125.0	3228.1	3059.2	2625.0	1940.8	1052.6
80°	107.5	114.0	155.7	247.8	809.2	1971.5	2120.6	2028.5	1546.1	767.5	271.9
82.5°	61.4	63.6	103.1	149.1	368.4	1072.4	1160.1	1052.6	587.7	232.5	127.2
85°	35.1	37.3	59.2	98.7	219.3	394.7	429.8	372.8	236.8	155.7	63.6
87.5°	17.5	17.5	28.5	46.1	111.8	111.8	109.6	133.8	142.5	94.3	28.5
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°	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2	638.2
2.5°	638.2	636.0	636.0	627.2	625.0	618.4	618.4	614.0	611.8	618.4	618.4
5°	640.4	629.4	627.2	618.4	620.6	616.2	625.0	620.6	618.4	618.4	616.2
7.5°	644.7	633.8	625.0	618.4	616.2	622.8	633.8	633.8	646.9	640.4	640.4
10°	655.7	649.1	638.2	633.8	633.8	640.4	653.5	662.3	673.2	673.2	666.7
12.5°	682.0	671.1	657.9	651.3	660.1	666.7	679.8	688.6	701.8	706.1	701.8
15°	701.8	690.8	686.4	682.0	688.6	697.4	708.3	717.1	732.5	736.8	734.6
17.5°	728.1	714.9	712.7	714.9	719.3	725.9	732.5	739.0	750.0	750.0	750.0
20°	741.2	736.8	734.6	741.2	750.0	758.8	754.4	750.0	747.8	752.2	750.0
22.5°	765.4	761.0	763.2	769.7	769.7	765.4	758.8	743.4	739.0	743.4	739.0
25°	787.3	782.9	782.9	778.5	776.3	761.0	747.8	734.6	719.3	725.9	723.7
27.5°	809.2	807.0	807.0	789.5	767.5	741.2	723.7	708.3	699.6	710.5	703.9
30°	835.5	837.7	826.8	785.1	732.5	703.9	684.2	682.0	679.8	686.4	684.2
32.5°	859.7	861.8	844.3	778.5	706.1	651.3	631.6	633.8	644.7	655.7	666.7
35°	872.8	883.8	861.8	756.6	653.5	592.1	570.2	589.9	609.6	625.0	636.0
37.5°	896.9	925.4	888.2	732.5	607.5	539.5	524.1	530.7	554.8	578.9	589.9
40°	932.0	964.9	894.7	686.4	546.1	486.8	478.1	480.3	489.0	504.4	515.4
42.5°	993.4	1028.5	901.3	627.2	484.6	453.9	429.8	423.2	416.7	416.7	414.5
45°	1083.3	1116.2	892.5	552.6	423.2	401.3	383.8	368.4	350.9	322.4	326.8
47.5°	1214.9	1241.2	899.1	486.8	366.2	348.7	335.5	318.0	291.7	261.0	258.8
50°	1414.5	1375.0	890.4	418.9	324.6	309.2	298.2	274.1	243.4	221.5	219.3
52.5°	1646.9	1568.0	881.6	361.8	289.5	276.3	267.5	241.2	212.7	201.8	199.6
55°	1927.6	1813.6	894.7	311.4	263.2	252.2	243.4	219.3	197.4	188.6	186.4
57.5°	2258.8	2078.9	967.1	271.9	234.6	230.3	228.1	208.3	188.6	182.0	179.8
60°	2570.2	2333.3	1015.4	243.4	208.3	212.7	217.1	208.3	186.4	182.0	182.0
62.5°	2831.1	2543.9	938.6	219.3	195.2	208.3	228.1	221.5	212.7	217.1	212.7
65°	3061.4	2616.2	701.8	206.1	188.6	219.3	252.2	250.0	230.3	234.6	232.5
67.5°	3100.9	2528.5	458.3	195.2	184.2	241.2	282.9	256.6	217.1	217.1	210.5
70°	2936.4	2293.9	307.0	184.2	182.0	241.2	289.5	241.2	203.9	203.9	195.2
72.5°	2410.1	1833.3	236.8	173.2	166.7	214.9	274.1	228.1	190.8	186.4	171.1
75°	1583.3	1182.0	193.0	164.5	144.7	188.6	247.8	210.5	182.0	168.9	162.3
77.5°	776.3	530.7	162.3	144.7	125.0	164.5	225.9	199.6	171.1	157.9	153.5
80°	212.7	190.8	136.0	127.2	105.3	142.5	212.7	190.8	160.1	146.9	140.4
82.5°	120.6	118.4	109.6	103.1	87.7	142.5	214.9	190.8	151.3	149.1	127.2
85°	65.8	70.2	78.9	76.8	68.0	127.2	203.9	166.7	122.8	103.1	103.1
87.5°	26.3	32.9	39.5	43.9	46.1	94.3	153.5	127.2	94.3	78.9	78.9
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)