

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: P670954

Luminaire Tested: **CCP-SA-2B-735-U-T4FT**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P670954  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2B-735-U-T4FT  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ T4FT distribution lens  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

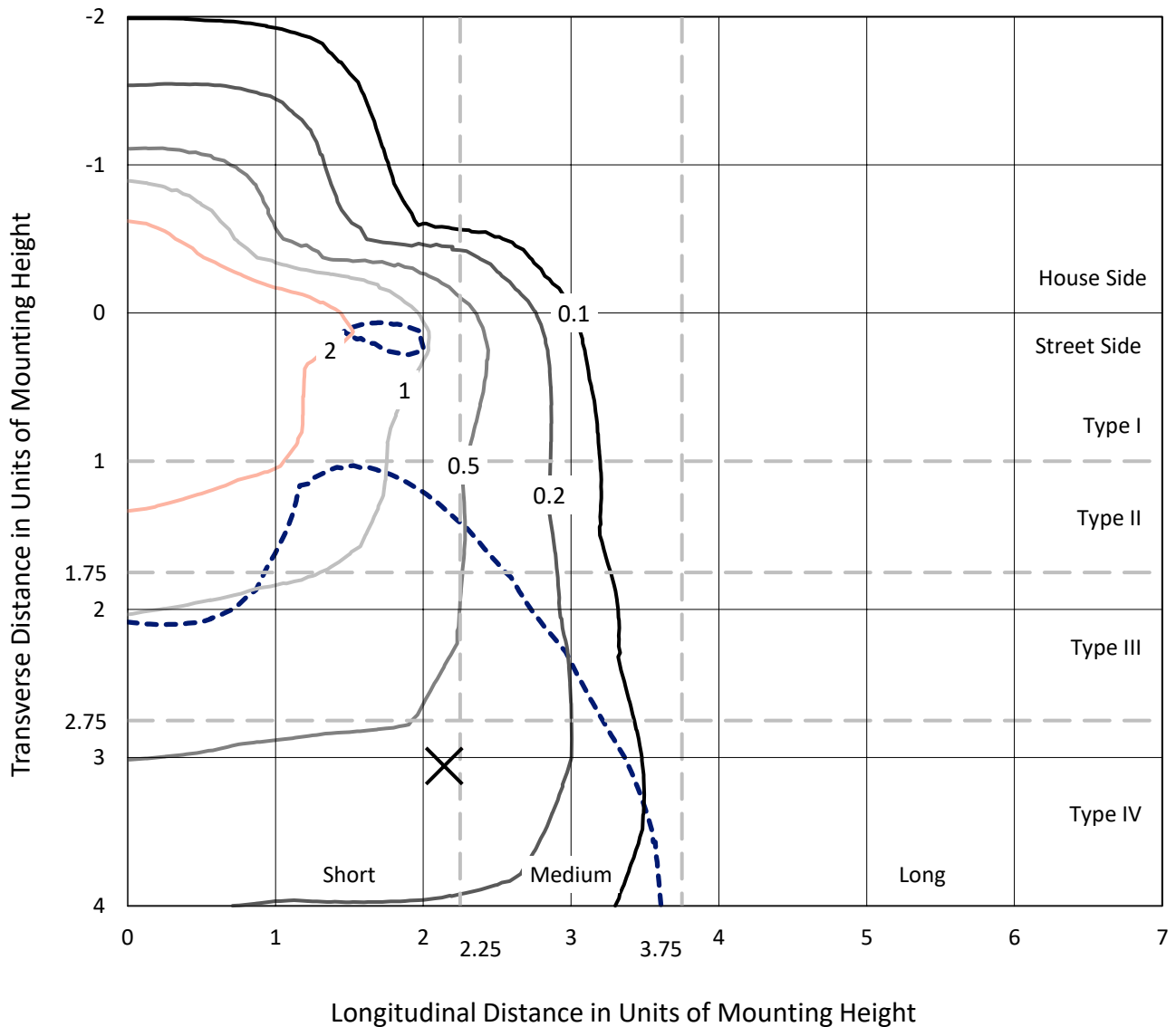
Lumens per Lamp: N/A  
Luminaire Lumens: 6807.4 lumens  
Efficiency: N/A  
Efficacy: 148.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 46  
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

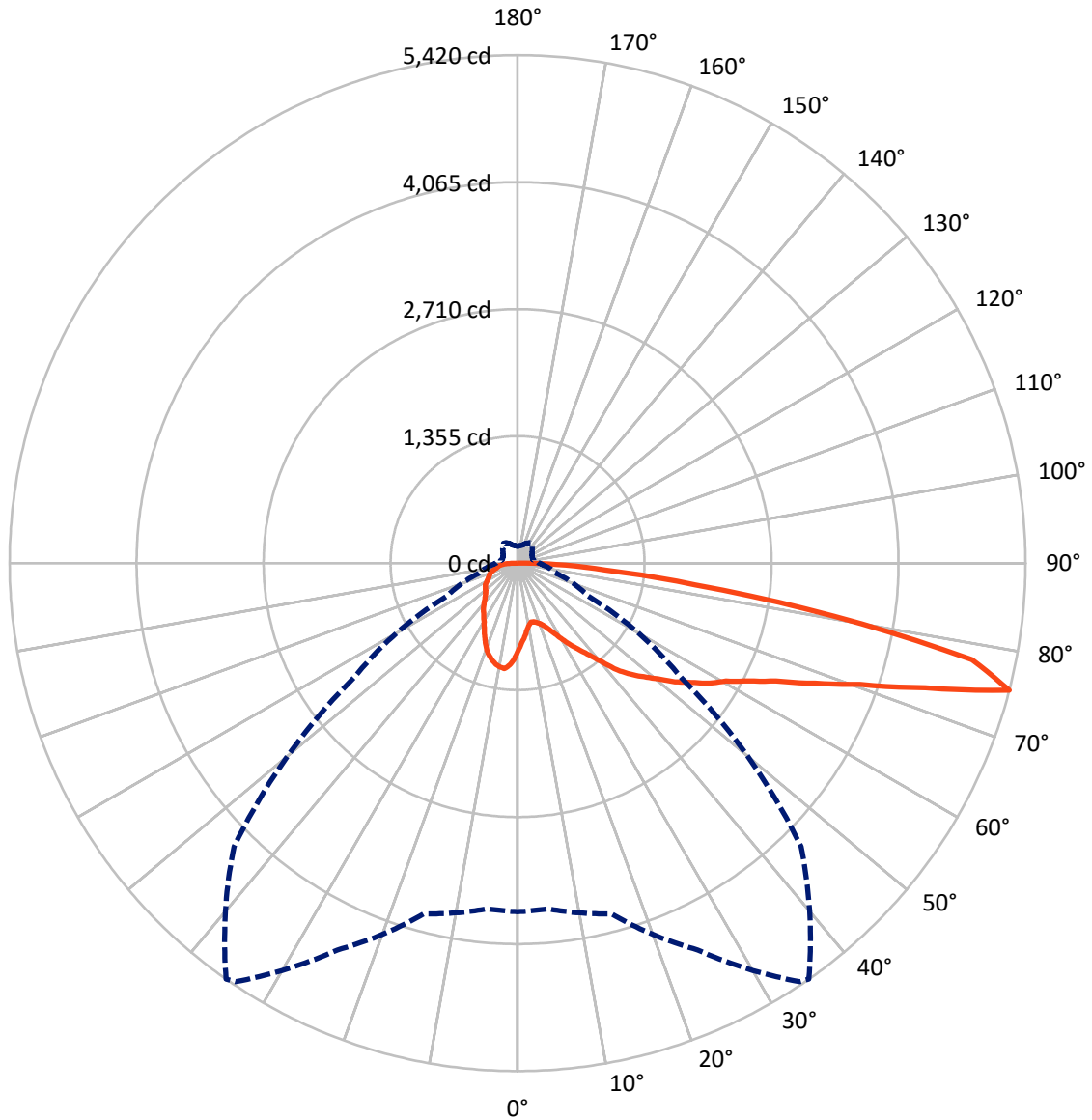
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.9 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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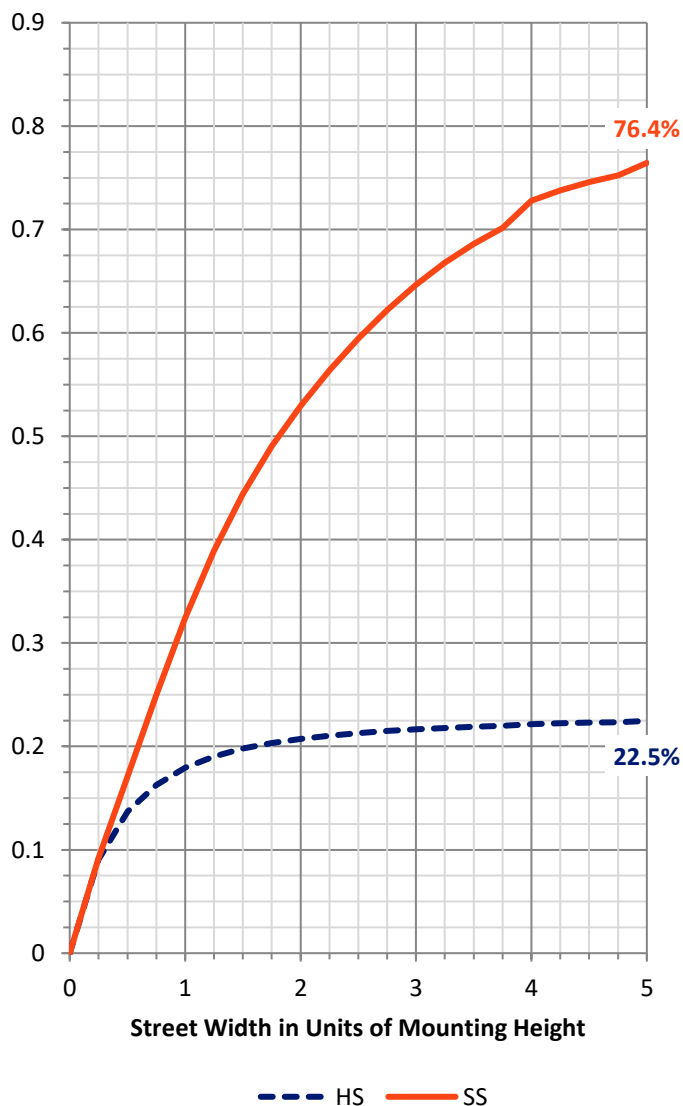
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1564.5	0.0	1564.5
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	5242.9	0.0	5242.9
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	6807.4	0.0	6807.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.9	1.3
10°-20°	257.9	3.8
20°-30°	428.0	6.3
30°-40°	634.4	9.3
40°-50°	914.8	13.4
50°-60°	1257.9	18.5
60°-70°	1553.8	22.8
70°-80°	1421.5	20.9
80°-90°	250.2	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°	6807.4	100.0
0°-180°	6807.4	100.0



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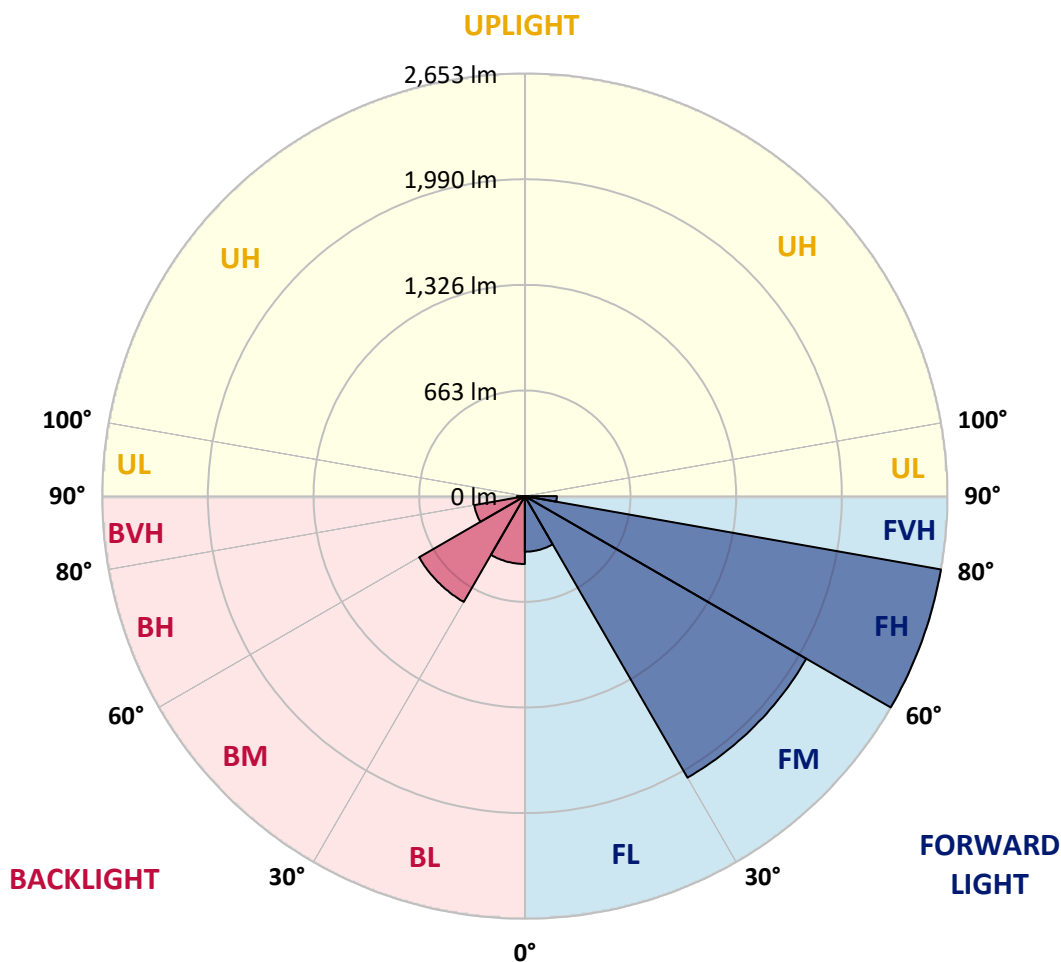
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	348.9	5.1			
FM (30°-60°)	2040.4	30.0			
FH (60°-80°)	2652.7	39.0			G2/5000
FVH (80°-90°)	200.8	3.0			G2/225
BL (0°-30°)	425.8	6.3	B1/500		
BM (30°-60°)	766.7	11.3	B1/1000		
BH (60°-80°)	322.6	4.7	B1/500		G1/500
BVH (80°-90°)	49.4	0.7			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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	932.7	932.7	932.7	932.7	932.7	932.7	932.7	932.7	932.7	932.7	932.7
2.5°	844.9	837.4	844.9	849.9	849.9	849.9	857.4	880.0	895.0	905.1	922.6
5°	757.2	759.7	764.7	777.2	784.7	789.7	802.3	829.9	852.4	885.0	922.6
7.5°	679.4	684.4	692.0	704.5	722.1	719.5	747.1	784.7	827.4	870.0	925.1
10°	639.3	649.3	651.9	654.4	671.9	671.9	709.5	752.1	804.8	859.9	925.1
12.5°	646.8	646.8	639.3	636.8	646.8	644.3	676.9	727.1	784.7	862.5	935.2
15°	669.4	669.4	654.4	639.3	654.4	649.3	676.9	717.0	784.7	865.0	955.2
17.5°	699.5	702.0	684.4	659.4	664.4	666.9	687.0	724.6	784.7	870.0	982.8
20°	759.7	747.1	719.5	679.4	697.0	689.5	719.5	752.1	799.8	890.0	1022.9
22.5°	812.3	812.3	759.7	724.6	727.1	727.1	754.6	782.2	822.3	917.6	1053.0
25°	897.6	892.5	827.4	774.7	779.7	782.2	797.3	829.9	859.9	932.7	1090.6
27.5°	1005.4	992.8	927.6	867.5	847.4	854.9	862.5	887.5	895.0	957.7	1135.7
30°	1120.7	1103.1	1048.0	952.7	942.7	945.2	932.7	947.7	937.7	997.8	1180.9
32.5°	1193.4	1193.4	1140.7	1070.5	1043.0	1043.0	1000.3	1010.4	1010.4	1035.4	1261.1
35°	1256.1	1251.1	1216.0	1163.3	1145.8	1135.7	1093.1	1108.2	1083.1	1108.2	1373.9
37.5°	1351.3	1336.3	1321.3	1286.2	1251.1	1243.5	1221.0	1231.0	1195.9	1183.4	1501.8
40°	1461.7	1454.1	1439.1	1424.0	1388.9	1386.4	1361.4	1371.4	1333.8	1286.2	1629.6
42.5°	1624.6	1602.1	1554.4	1541.9	1549.4	1559.4	1549.4	1531.9	1464.2	1404.0	1767.5
45°	1787.6	1752.5	1662.2	1642.2	1699.8	1692.3	1734.9	1727.4	1617.1	1521.8	1912.9
47.5°	1892.9	1862.8	1790.1	1777.6	1802.6	1812.7	1940.5	1918.0	1742.5	1629.6	2053.3
50°	1968.1	1970.6	1875.3	1907.9	1940.5	1940.5	2101.0	2098.5	1895.4	1762.5	2236.4
52.5°	2078.4	2043.3	2003.2	2033.3	2078.4	2103.5	2301.5	2246.4	1990.7	1875.3	2441.9
55°	2136.1	2121.0	2085.9	2138.6	2233.9	2246.4	2457.0	2414.4	2098.5	2008.2	2652.5
57.5°	2158.6	2171.2	2228.8	2251.4	2384.3	2416.9	2597.4	2537.2	2198.8	2173.7	2815.5
60°	2258.9	2241.4	2319.1	2409.3	2537.2	2554.8	2772.9	2642.5	2296.5	2281.5	2868.2
62.5°	2462.0	2416.9	2459.5	2567.3	2745.3	2767.9	2958.4	2782.9	2339.1	2354.2	2865.6
65°	2757.8	2725.2	2662.6	2747.8	2998.5	3031.1	3176.5	2903.3	2326.6	2329.1	2662.6
67.5°	3106.3	3053.7	2988.5	3041.1	3347.0	3422.2	3442.3	2955.9	2238.9	2188.7	2166.2
70°	3412.2	3377.1	3334.5	3424.7	3850.9	3878.5	3773.2	2923.3	1995.7	1757.5	1444.1
72.5°	3698.0	3680.5	3705.5	4044.0	4532.9	4550.4	4084.1	2717.7	1577.0	1065.5	671.9
75°	3720.6	3703.0	3876.0	4555.5	5387.8	5420.4	4277.2	2131.1	832.4	433.7	283.3
77.5°	2519.7	2572.3	2895.7	3988.8	4949.1	4956.6	3497.4	990.3	343.5	255.7	198.1
80°	619.3	687.0	1090.6	2063.4	3337.0	3419.7	1915.4	333.4	225.6	195.6	147.9
82.5°	225.6	245.7	443.8	932.7	1875.3	1907.9	669.4	180.5	163.0	150.4	107.8
85°	107.8	110.3	210.6	458.8	947.7	937.7	240.7	107.8	117.8	102.8	65.2
87.5°	45.1	45.1	92.8	213.1	418.7	406.2	77.7	50.1	67.7	60.2	32.6
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°	932.7	932.7	932.7	932.7	932.7	932.7	932.7	932.7	932.7	932.7	932.7
2.5°	935.2	940.2	960.2	975.3	990.3	1002.9	1022.9	1022.9	1035.4	1035.4	1035.4
5°	932.7	960.2	992.8	1027.9	1050.5	1073.1	1093.1	1095.6	1103.1	1113.2	1115.7
7.5°	942.7	970.3	1022.9	1073.1	1100.6	1110.7	1135.7	1128.2	1128.2	1128.2	1135.7
10°	962.7	992.8	1065.5	1110.7	1130.7	1133.2	1125.7	1120.7	1105.6	1100.6	1093.1
12.5°	977.8	1030.4	1103.1	1138.2	1130.7	1123.2	1105.6	1080.6	1063.0	1058.0	1058.0
15°	1015.4	1068.0	1135.7	1148.3	1135.7	1095.6	1073.1	1045.5	1030.4	1007.9	1017.9
17.5°	1048.0	1108.2	1168.3	1153.3	1128.2	1065.5	1032.9	992.8	972.8	947.7	947.7
20°	1090.6	1145.8	1198.4	1158.3	1103.1	1035.4	982.8	932.7	905.1	880.0	885.0
22.5°	1138.2	1188.4	1216.0	1138.2	1065.5	987.8	915.1	867.5	832.4	817.3	822.3
25°	1175.8	1231.0	1226.0	1105.6	1020.4	927.6	847.4	802.3	794.8	779.7	779.7
27.5°	1223.5	1281.1	1218.5	1065.5	945.2	832.4	782.2	764.7	764.7	757.2	762.2
30°	1286.2	1326.3	1200.9	1007.9	849.9	747.1	722.1	732.1	749.6	742.1	744.6
32.5°	1388.9	1383.9	1185.9	942.7	749.6	664.4	681.9	702.0	717.0	724.6	729.6
35°	1489.2	1456.6	1168.3	854.9	656.9	624.3	639.3	661.9	689.5	697.0	699.5
37.5°	1589.5	1531.9	1138.2	747.1	599.2	589.2	604.2	616.8	639.3	644.3	649.3
40°	1694.8	1582.0	1085.6	641.8	551.6	551.6	561.6	564.1	576.6	584.2	589.2
42.5°	1787.6	1629.6	990.3	544.0	501.4	519.0	521.5	516.5	506.4	511.5	514.0
45°	1900.4	1682.3	880.0	473.8	463.8	486.4	491.4	471.3	453.8	443.8	438.7
47.5°	2010.7	1737.4	784.7	416.2	428.7	463.8	463.8	441.3	411.2	386.1	376.1
50°	2111.0	1792.6	707.0	381.1	393.6	446.3	451.3	408.7	376.1	346.0	341.0
52.5°	2279.0	1885.4	626.8	353.5	373.6	433.7	431.2	393.6	351.0	318.4	315.9
55°	2426.9	1978.1	521.5	325.9	353.5	416.2	423.7	378.6	320.9	290.8	285.8
57.5°	2534.7	2000.7	416.2	298.3	333.4	396.1	406.2	348.5	300.9	275.8	273.3
60°	2554.8	1912.9	338.5	275.8	305.9	368.5	376.1	330.9	285.8	265.8	260.7
62.5°	2462.0	1745.0	288.3	255.7	283.3	341.0	356.0	310.9	270.8	253.2	250.7
65°	2251.4	1499.3	253.2	238.2	268.3	320.9	338.5	295.8	258.2	243.2	240.7
67.5°	1782.6	1150.8	225.6	225.6	248.2	300.9	325.9	285.8	245.7	235.7	233.2
70°	1165.8	692.0	205.6	208.1	233.2	283.3	310.9	273.3	230.7	228.1	223.1
72.5°	501.4	318.4	183.0	190.5	210.6	253.2	288.3	255.7	213.1	205.6	198.1
75°	230.7	193.0	165.5	170.5	188.0	223.1	260.7	235.7	198.1	185.5	178.0
77.5°	163.0	140.4	137.9	147.9	160.5	193.0	230.7	220.6	183.0	173.0	168.0
80°	120.3	107.8	115.3	125.4	132.9	178.0	218.1	203.1	168.0	152.9	145.4
82.5°	85.2	80.2	90.3	100.3	107.8	155.4	200.6	178.0	140.4	127.9	115.3
85°	50.1	52.6	62.7	67.7	75.2	115.3	168.0	142.9	107.8	82.7	80.2
87.5°	22.6	22.6	30.1	32.6	37.6	67.7	112.8	90.3	67.7	52.6	50.1
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)