

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: P671227

Luminaire Tested: **CCP-SA-1D-730-U-SL2**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671227  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1D-730-U-SL2  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ SL2 distribution lens  
Light Source: (16) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

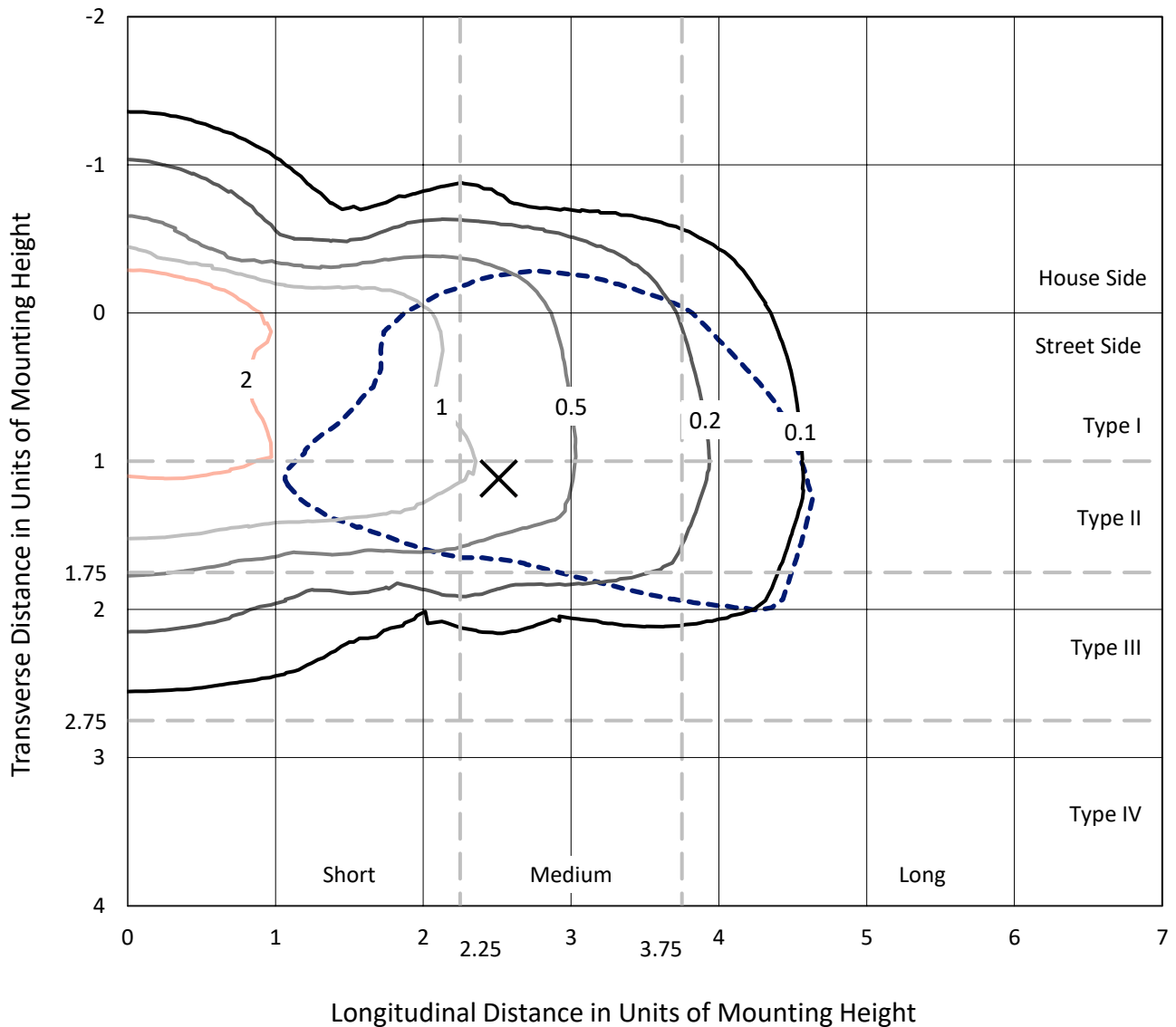
Lumens per Lamp: N/A  
Luminaire Lumens: 5026 lumens  
Efficiency: N/A  
Efficacy: 114.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 44  
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

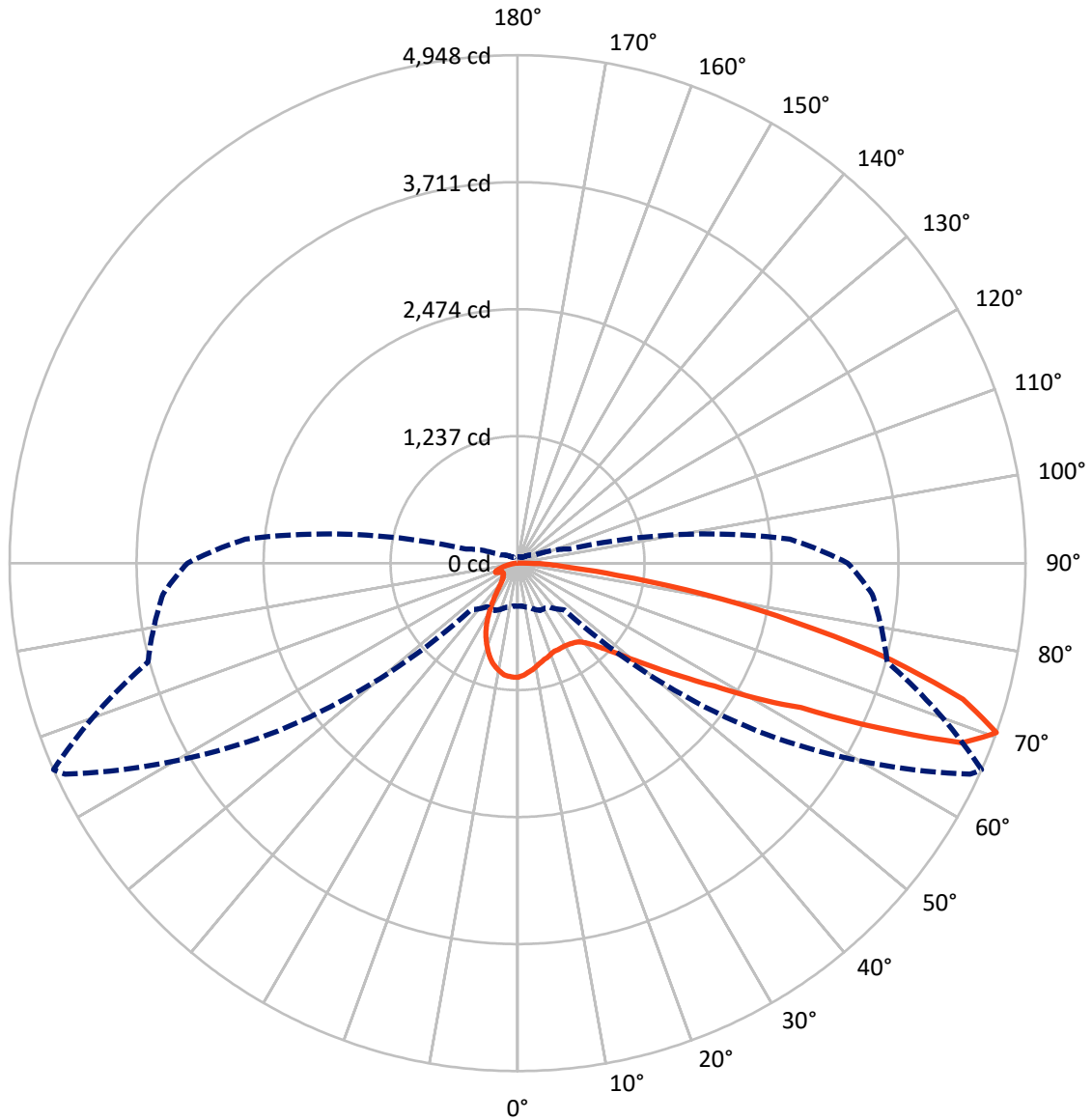
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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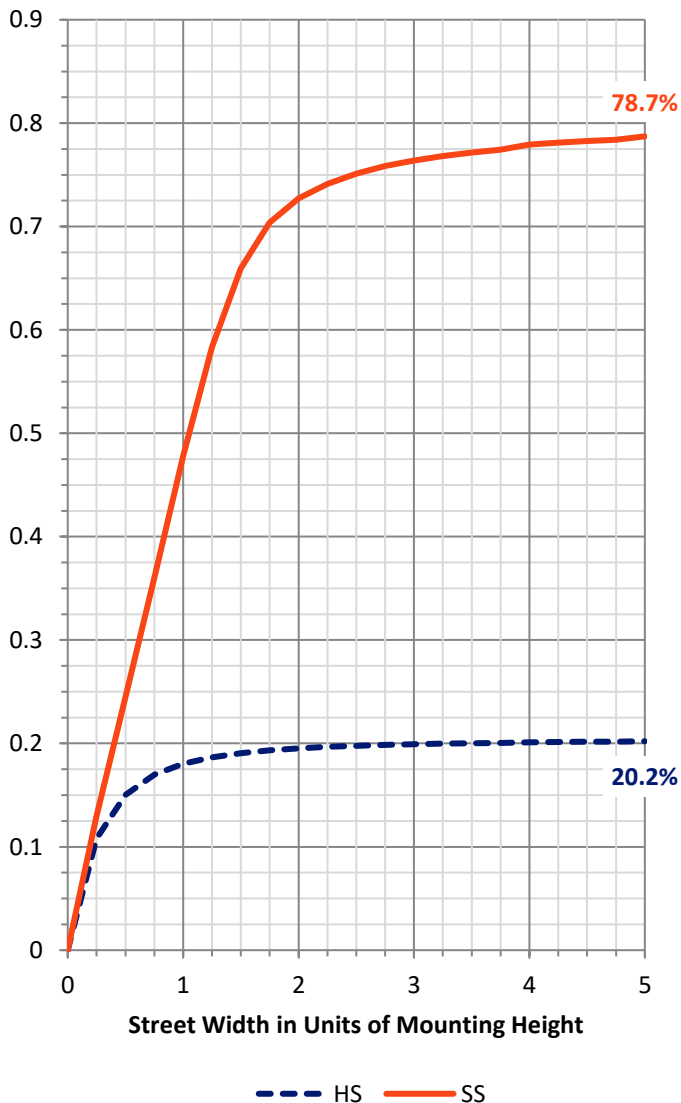
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1028.7	0.0	1028.7
	% Fixture	20.5	0.0	20.5
<b>Street Side</b>	Lumens	3997.2	0.0	3997.2
	% Fixture	79.5	0.0	79.5
<b>Total</b>	Lumens	5026.0	0.0	5026.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.2	2.0
10°-20°	241.7	4.8
20°-30°	331.9	6.6
30°-40°	445.0	8.9
40°-50°	645.7	12.8
50°-60°	981.5	19.5
60°-70°	1212.2	24.1
70°-80°	901.5	17.9
80°-90°	168.1	3.3
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°	5026.0	100.0
0°-180°	5026.0	100.0



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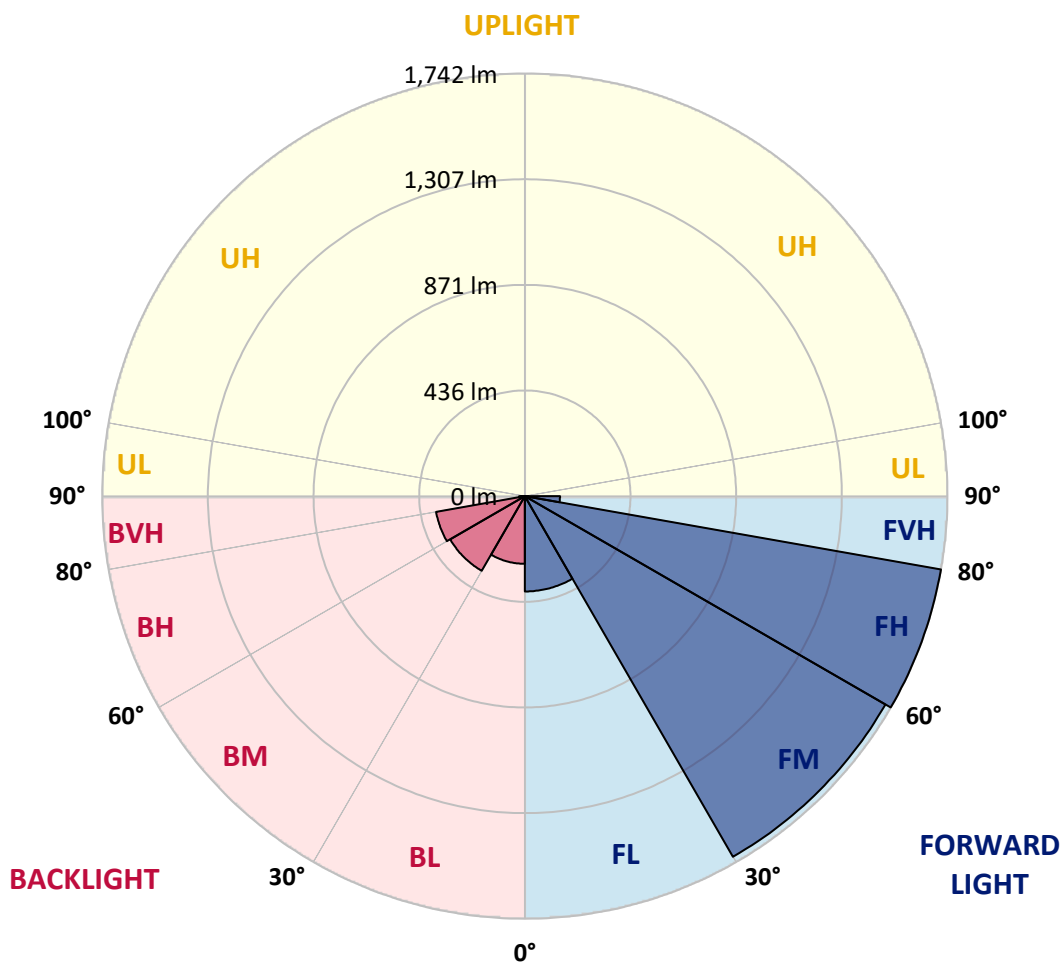
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	393.0	7.8			
FM (30°-60°)	1716.9	34.2			
FH (60°-80°)	1742.3	34.7			G1/1800
FVH (80°-90°)	144.9	2.9			G2/225
BL (0°-30°)	278.8	5.5	B1/500		
BM (30°-60°)	355.4	7.1	B1/1000		
BH (60°-80°)	371.4	7.4	B1/500		G1/500
BVH (80°-90°)	23.2	0.5			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4
2.5°	1056.2	1061.8	1063.7	1067.4	1076.7	1084.2	1095.4	1101.0	1095.4	1102.9	1102.9
5°	983.3	975.8	994.5	1002.0	1013.2	1028.1	1054.3	1074.9	1069.3	1091.7	1110.4
7.5°	921.6	921.6	927.2	944.0	957.1	979.5	1007.6	1039.4	1048.7	1078.6	1106.7
10°	865.5	873.0	873.0	899.2	906.6	932.8	979.5	1018.8	1020.7	1071.1	1110.4
12.5°	835.6	831.9	850.6	858.0	880.5	906.6	944.0	992.6	994.5	1048.7	1102.9
15°	811.3	815.0	824.4	843.1	863.6	884.2	919.7	964.6	973.9	1037.5	1099.2
17.5°	813.2	815.0	815.0	828.1	844.9	869.2	902.9	955.2	960.8	1022.5	1093.6
20°	824.4	816.9	822.5	828.1	839.3	861.8	889.8	934.7	940.3	1020.7	1106.7
22.5°	848.7	843.1	841.2	839.3	837.5	850.6	886.1	923.5	929.1	1011.3	1112.3
25°	887.9	886.1	873.0	859.9	850.6	850.6	878.6	932.8	930.9	1011.3	1116.0
27.5°	934.7	934.7	932.8	908.5	880.5	865.5	884.2	929.1	927.2	1011.3	1125.3
30°	998.2	998.2	992.6	970.2	919.7	876.7	887.9	925.3	930.9	1003.8	1117.9
32.5°	1067.4	1065.5	1071.1	1050.6	998.2	929.1	910.4	932.8	938.4	1011.3	1119.7
35°	1117.9	1129.1	1147.8	1129.1	1076.7	983.3	942.1	947.8	951.5	1013.2	1127.2
37.5°	1175.8	1188.9	1215.1	1230.0	1173.9	1065.5	992.6	972.1	972.1	1037.5	1129.1
40°	1259.9	1246.9	1291.7	1317.9	1295.5	1166.5	1071.1	1016.9	1018.8	1069.3	1153.4
42.5°	1321.6	1334.7	1381.4	1428.2	1400.1	1289.8	1157.1	1089.8	1089.8	1116.0	1190.8
45°	1390.8	1405.7	1471.2	1527.3	1547.8	1437.5	1274.9	1194.5	1190.8	1207.6	1258.1
47.5°	1467.4	1488.0	1562.8	1628.2	1682.4	1590.8	1426.3	1321.6	1319.8	1332.8	1370.2
50°	1555.3	1562.8	1624.5	1744.1	1852.5	1794.6	1611.4	1501.1	1491.7	1497.3	1547.8
52.5°	1581.5	1575.9	1646.9	1775.9	1974.0	2043.2	1863.7	1704.8	1701.1	1688.0	1753.4
55°	1486.1	1504.8	1574.0	1738.5	2073.1	2336.7	2140.4	1983.4	1949.7	1914.2	1992.7
57.5°	1295.5	1297.3	1375.8	1570.2	1996.5	2579.7	2609.6	2256.3	2258.2	2162.8	2252.6
60°	1007.6	1002.0	1063.7	1239.4	1777.7	2654.5	3121.8	2691.9	2673.2	2411.5	2493.7
62.5°	727.2	716.0	729.0	831.9	1329.1	2540.4	3624.7	3179.8	3101.2	2665.7	2729.2
65°	598.2	603.8	609.4	615.0	745.9	2095.5	3779.8	3976.1	3871.4	2962.9	2989.1
67.5°	495.4	499.1	523.4	557.1	553.3	1237.5	3600.4	4712.6	4673.4	3331.2	3213.4
70°	420.6	418.7	446.8	508.5	517.8	643.1	2850.7	4864.0	4948.1	3727.5	3467.6
72.5°	336.5	340.2	364.5	446.8	508.5	542.1	1641.3	4538.8	4536.9	4032.2	3331.2
75°	241.1	241.1	274.8	370.1	491.6	536.5	908.5	3684.5	3753.6	3789.2	2890.0
77.5°	158.9	166.4	192.5	276.7	461.7	525.3	575.8	2678.8	2764.8	2833.9	2211.4
80°	108.4	112.2	129.0	192.5	390.7	529.0	471.1	1802.0	1835.7	1564.6	897.3
82.5°	65.4	67.3	86.0	134.6	280.4	502.9	443.0	994.5	973.9	472.9	258.0
85°	35.5	37.4	54.2	89.7	185.1	439.3	435.6	487.9	454.3	173.8	108.4
87.5°	13.1	13.1	24.3	44.9	106.6	301.0	379.5	289.7	271.1	87.9	50.5
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°	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4
2.5°	1112.3	1112.3	1112.3	1112.3	1110.4	1102.9	1108.5	1106.7	1095.4	1097.3	1089.8
5°	1108.5	1117.9	1112.3	1104.8	1095.4	1073.0	1065.5	1059.9	1045.0	1039.4	1045.0
7.5°	1117.9	1110.4	1106.7	1093.6	1056.2	1035.6	1009.4	977.7	955.2	949.6	955.2
10°	1116.0	1116.0	1099.2	1061.8	1026.3	966.5	932.8	876.7	844.9	835.6	837.5
12.5°	1108.5	1114.1	1088.0	1028.1	960.8	887.9	826.2	766.4	710.4	687.9	684.2
15°	1116.0	1110.4	1063.7	987.0	893.5	792.6	702.9	615.0	562.7	529.0	521.5
17.5°	1104.8	1099.2	1031.9	930.9	805.7	676.7	564.5	469.2	416.9	403.8	403.8
20°	1117.9	1082.3	994.5	863.6	714.1	549.6	422.5	351.4	338.4	338.4	342.1
22.5°	1116.0	1078.6	962.7	798.2	603.8	415.0	314.0	293.5	295.4	310.3	308.4
25°	1104.8	1071.1	917.8	725.3	487.9	312.2	259.8	254.2	267.3	284.1	282.3
27.5°	1102.9	1050.6	876.7	639.3	372.0	246.8	226.2	226.2	239.3	254.2	252.4
30°	1091.7	1033.7	826.2	542.1	280.4	215.0	207.5	207.5	213.1	220.6	220.6
32.5°	1089.8	1011.3	770.2	441.2	224.3	194.4	190.7	192.5	192.5	196.3	194.4
35°	1074.9	981.4	712.2	342.1	194.4	183.2	179.5	177.6	177.6	175.7	175.7
37.5°	1069.3	962.7	652.4	265.4	181.3	173.8	170.1	164.5	162.6	162.6	160.8
40°	1074.9	944.0	594.5	215.0	170.1	166.4	160.8	153.3	151.4	151.4	151.4
42.5°	1095.4	942.1	534.6	186.9	164.5	158.9	151.4	143.9	142.1	143.9	142.1
45°	1142.2	957.1	476.7	173.8	157.0	151.4	142.1	136.5	134.6	136.5	136.5
47.5°	1218.8	998.2	424.3	166.4	151.4	143.9	134.6	129.0	129.0	129.0	129.0
50°	1345.9	1076.7	373.9	160.8	147.7	138.3	129.0	121.5	119.6	119.6	121.5
52.5°	1536.6	1211.3	332.7	157.0	142.1	130.9	121.5	115.9	112.2	110.3	112.2
55°	1766.5	1407.6	319.7	153.3	134.6	125.2	115.9	108.4	104.7	104.7	102.8
57.5°	2013.3	1624.5	342.1	149.5	129.0	117.8	108.4	100.9	97.2	95.3	95.3
60°	2280.6	1880.6	424.3	147.7	123.4	110.3	100.9	95.3	89.7	87.9	87.9
62.5°	2523.6	2112.4	572.0	145.8	119.6	102.8	93.5	86.0	82.3	80.4	80.4
65°	2800.3	2370.3	716.0	153.3	117.8	97.2	86.0	78.5	74.8	72.9	72.9
67.5°	3041.4	2594.6	800.1	172.0	123.4	89.7	76.6	71.0	69.2	67.3	67.3
70°	3217.1	2663.8	536.5	188.8	132.7	84.1	69.2	65.4	61.7	61.7	61.7
72.5°	2981.6	2377.8	317.8	177.6	125.2	78.5	61.7	57.9	56.1	56.1	54.2
75°	2549.8	2024.5	244.9	143.9	100.9	67.3	54.2	50.5	48.6	48.6	46.7
77.5°	1882.4	1450.6	181.3	114.0	78.5	54.2	46.7	44.9	43.0	41.1	41.1
80°	736.5	635.6	123.4	84.1	57.9	43.0	39.3	37.4	35.5	33.6	33.6
82.5°	228.1	192.5	71.0	56.1	41.1	33.6	31.8	29.9	28.0	26.2	26.2
85°	99.1	95.3	46.7	35.5	28.0	22.4	22.4	20.6	18.7	16.8	16.8
87.5°	48.6	46.7	26.2	16.8	15.0	11.2	11.2	9.3	7.5	7.5	7.5
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)