

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: P671539

Luminaire Tested: **CCP-SA-1F-740-U-SL4**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671539  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1F-740-U-SL4  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/ SL4 distribution lens  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

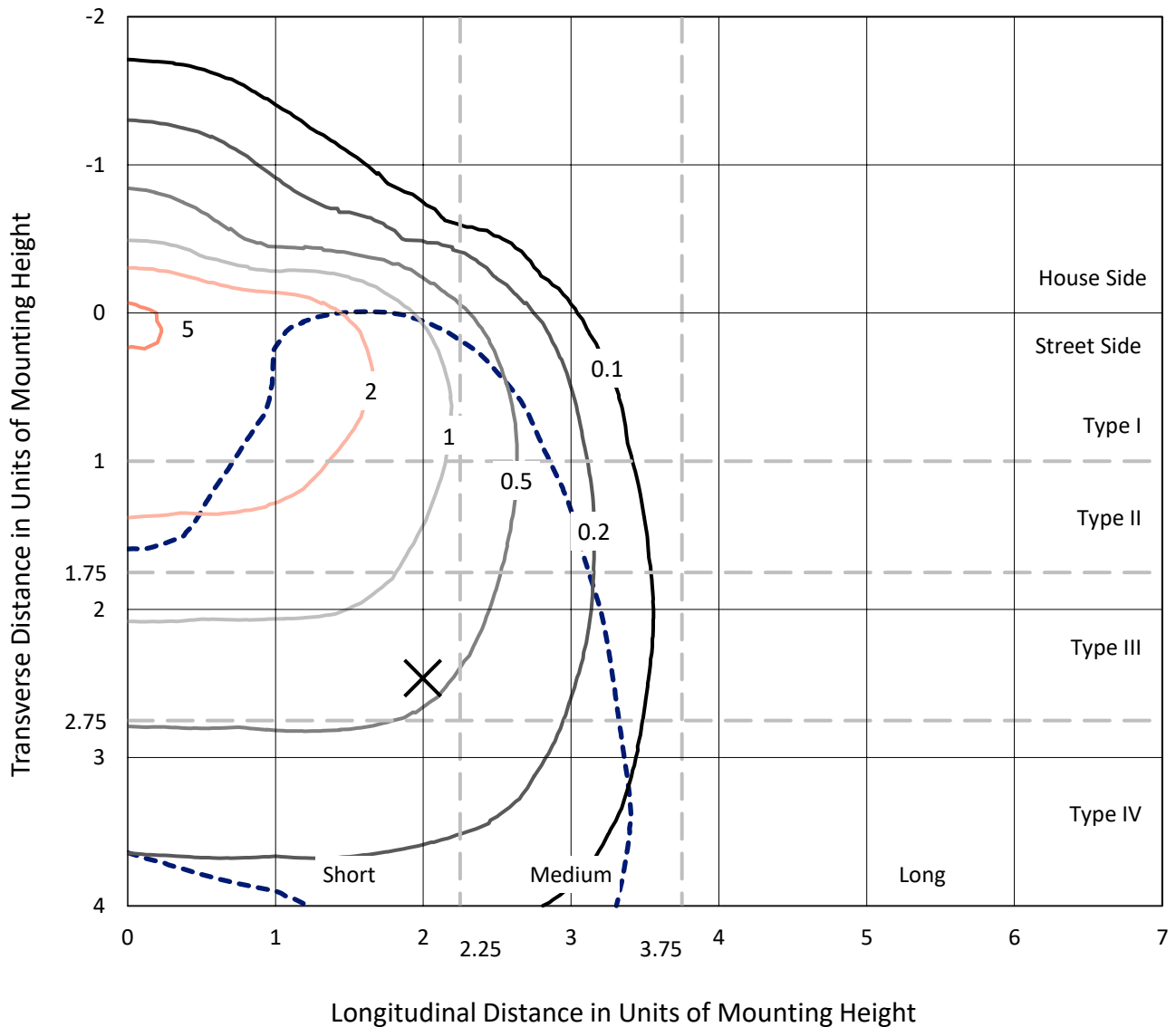
Lumens per Lamp: N/A  
Luminaire Lumens: 7347.1 lumens  
Efficiency: N/A  
Efficacy: 109.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

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

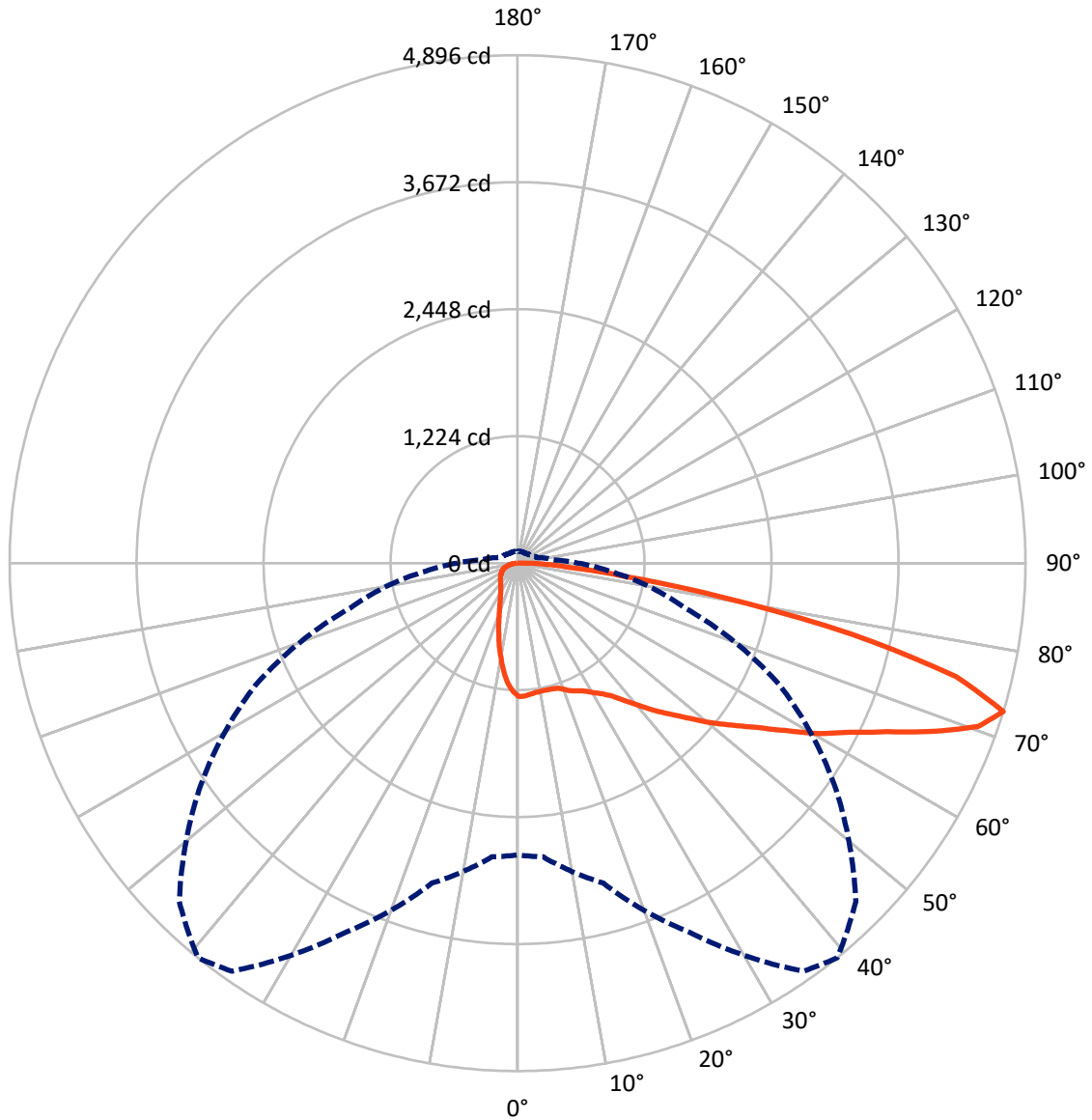
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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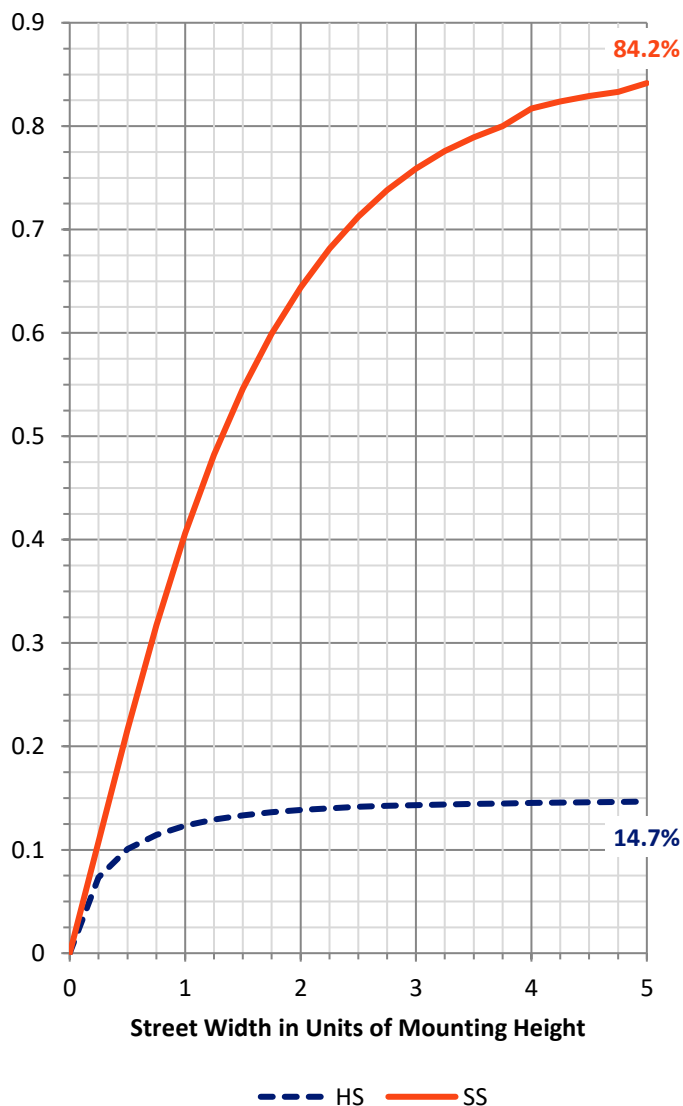
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1091.9	0.0	1091.9
	% Fixture	14.9	0.0	14.9
<b>Street Side</b>	Lumens	6255.2	0.0	6255.2
	% Fixture	85.1	0.0	85.1
<b>Total</b>	Lumens	7347.1	0.0	7347.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.6	1.5
10°-20°	290.0	3.9
20°-30°	441.9	6.0
30°-40°	646.4	8.8
40°-50°	989.6	13.5
50°-60°	1451.4	19.8
60°-70°	1851.1	25.2
70°-80°	1337.4	18.2
80°-90°	225.6	3.1
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°	7347.1	100.0
0°-180°	7347.1	100.0



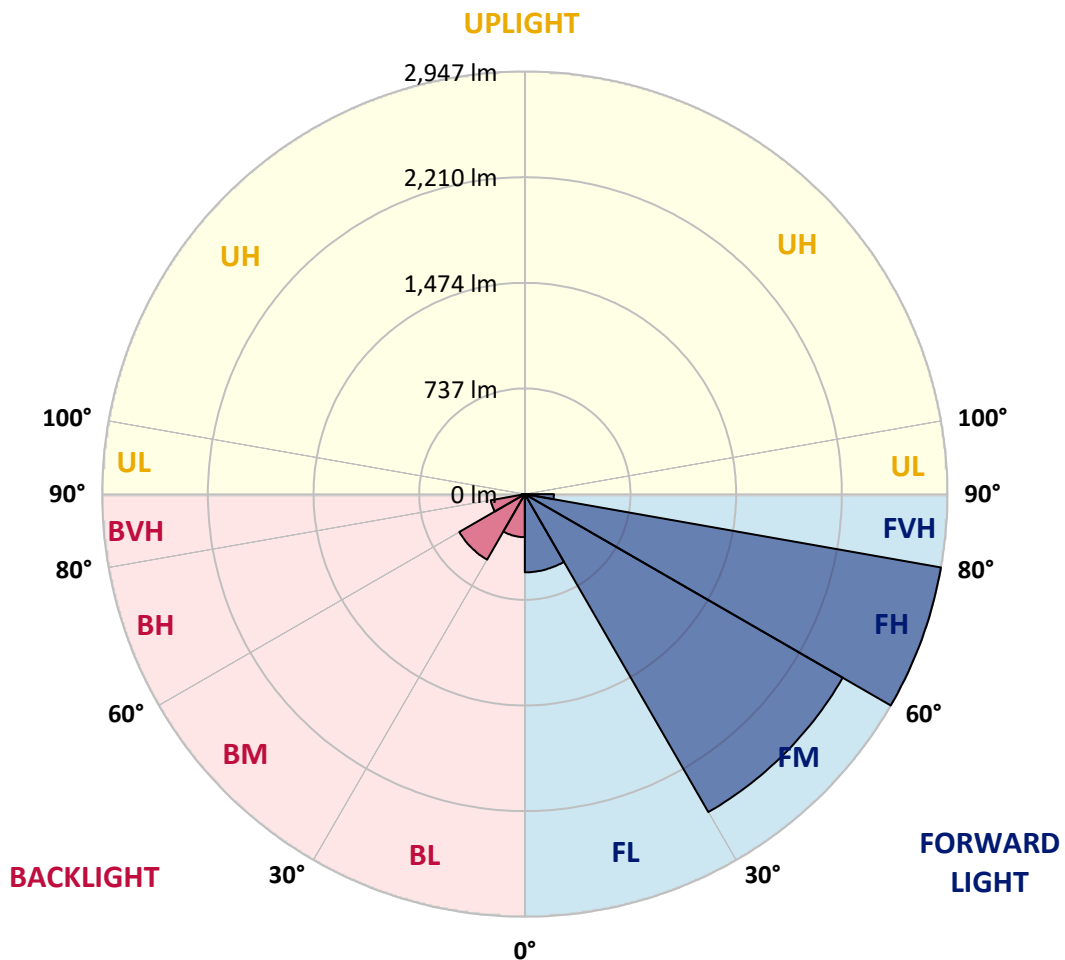
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	545.3	7.4			
FM (30°-60°)	2559.9	34.8			
FH (60°-80°)	2947.2	40.1			G2/5000
FVH (80°-90°)	202.7	2.8			G2/225
BL (0°-30°)	300.3	4.1	B1/500		
BM (30°-60°)	527.5	7.2	B1/1000		
BH (60°-80°)	241.3	3.3	B1/500		G1/500
BVH (80°-90°)	22.9	0.3			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°	35°	39°	45°	55°	65°	75°	85°
0°	1286.1	1286.1	1286.1	1286.1	1286.1	1286.1	1286.1	1286.1	1286.1	1286.1	1286.1
2.5°	1305.4	1308.2	1302.6	1297.1	1294.4	1283.3	1294.4	1288.8	1283.3	1283.3	1283.3
5°	1288.8	1291.6	1291.6	1286.1	1288.8	1269.5	1266.8	1269.5	1261.2	1255.7	1253.0
7.5°	1264.0	1269.5	1280.6	1277.8	1266.8	1258.5	1261.2	1258.5	1244.7	1236.4	1214.3
10°	1244.7	1250.2	1255.7	1261.2	1258.5	1255.7	1253.0	1241.9	1239.2	1219.8	1197.8
12.5°	1225.4	1225.4	1228.1	1250.2	1253.0	1253.0	1236.4	1236.4	1228.1	1225.4	1192.2
15°	1206.0	1214.3	1236.4	1241.9	1253.0	1258.5	1250.2	1250.2	1236.4	1217.1	1192.2
17.5°	1211.6	1225.4	1247.4	1261.2	1266.8	1266.8	1277.8	1269.5	1250.2	1239.2	1214.3
20°	1239.2	1241.9	1269.5	1294.4	1299.9	1299.9	1288.8	1280.6	1266.8	1247.4	1214.3
22.5°	1255.7	1275.0	1308.2	1322.0	1338.5	1338.5	1324.7	1305.4	1286.1	1266.8	1230.9
25°	1327.5	1330.2	1344.0	1366.1	1374.4	1363.3	1349.5	1327.5	1302.6	1283.3	1250.2
27.5°	1377.1	1390.9	1407.5	1418.5	1404.7	1396.5	1385.4	1360.6	1341.3	1324.7	1277.8
30°	1468.2	1451.7	1462.7	1468.2	1443.4	1448.9	1418.5	1396.5	1374.4	1374.4	1322.0
32.5°	1523.4	1537.2	1526.2	1523.4	1504.1	1501.3	1482.0	1457.2	1443.4	1459.9	1388.2
35°	1620.0	1611.7	1611.7	1609.0	1586.9	1573.1	1573.1	1528.9	1542.7	1578.6	1490.3
37.5°	1669.7	1666.9	1683.5	1697.3	1675.2	1683.5	1675.2	1655.9	1661.4	1724.9	1617.3
40°	1719.4	1738.7	1771.8	1777.3	1791.1	1802.2	1796.6	1793.9	1816.0	1918.1	1788.4
42.5°	1766.3	1782.8	1832.5	1876.7	1909.8	1945.7	1948.4	1948.4	2020.2	2166.5	1995.3
45°	1827.0	1840.8	1909.8	1998.1	2053.3	2078.1	2100.2	2125.1	2221.6	2395.5	2216.1
47.5°	1909.8	1920.8	2003.6	2114.0	2221.6	2235.4	2279.6	2307.2	2453.5	2630.1	2442.4
50°	2028.5	2020.2	2086.4	2246.5	2351.4	2417.6	2481.1	2530.7	2674.3	2867.4	2619.1
52.5°	2125.1	2125.1	2174.7	2387.2	2530.7	2594.2	2660.5	2729.5	2895.0	3104.8	2762.6
55°	2290.6	2274.1	2304.4	2525.2	2732.2	2792.9	2919.9	2977.8	3137.9	3281.4	2884.0
57.5°	2403.8	2412.1	2448.0	2707.4	2969.6	3044.1	3171.0	3212.4	3353.2	3466.3	2972.3
60°	2552.8	2525.2	2602.5	2908.8	3231.7	3336.6	3441.5	3466.3	3571.2	3585.0	3013.7
62.5°	2696.3	2690.8	2757.1	3110.3	3513.2	3587.8	3695.4	3723.0	3767.1	3678.8	2955.8
65°	2784.7	2820.5	2944.7	3331.1	3833.4	3916.2	4023.8	3968.6	3918.9	3596.0	2671.5
67.5°	2906.1	2922.6	3113.1	3571.2	4203.2	4327.4	4421.2	4203.2	3833.4	3256.6	2249.2
70°	2933.7	2977.8	3226.2	3822.3	4584.0	4711.0	4716.5	4123.2	3521.5	2649.4	1631.0
72.5°	2812.2	2842.6	3193.1	3927.2	4802.1	4895.9	4611.6	3728.5	2790.2	1669.7	888.7
75°	2365.2	2450.7	2779.1	3604.3	4401.9	4366.0	3907.9	2845.4	1675.2	739.6	375.3
77.5°	1647.6	1650.4	1992.6	2621.8	3295.2	3286.9	2787.4	1650.4	717.6	298.1	220.8
80°	731.4	783.8	990.8	1413.0	2000.9	2000.9	1625.5	819.7	358.8	193.2	151.8
82.5°	430.5	447.1	529.9	659.6	974.2	1026.7	778.3	546.4	245.6	121.4	93.8
85°	317.4	345.0	394.7	397.4	460.9	469.2	430.5	474.7	168.3	66.2	77.3
87.5°	237.3	253.9	314.6	262.2	245.6	231.8	264.9	485.7	63.5	33.1	24.8
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°	1286.1	1286.1	1286.1	1286.1	1286.1	1286.1	1286.1	1286.1	1286.1	1286.1	1286.1
2.5°	1272.3	1272.3	1266.8	1255.7	1255.7	1233.6	1239.2	1244.7	1230.9	1230.9	1233.6
5°	1253.0	1241.9	1228.1	1211.6	1200.5	1170.2	1164.6	1145.3	1142.6	1137.0	1128.8
7.5°	1214.3	1197.8	1172.9	1148.1	1112.2	1084.6	1051.5	1023.9	1012.9	1004.6	1001.8
10°	1178.4	1175.7	1134.3	1084.6	1029.4	977.0	927.3	891.4	869.3	855.5	852.8
12.5°	1178.4	1156.4	1098.4	1029.4	949.4	872.1	808.6	758.9	728.6	706.5	698.2
15°	1172.9	1150.8	1073.6	968.7	877.6	772.7	684.4	632.0	587.8	565.8	568.5
17.5°	1178.4	1145.3	1037.7	924.5	797.6	684.4	579.6	516.1	471.9	455.4	452.6
20°	1181.2	1139.8	1010.1	863.8	714.8	587.8	488.5	427.8	394.7	383.6	383.6
22.5°	1175.7	1123.2	968.7	792.1	643.0	507.8	425.0	372.6	350.5	336.7	342.2
25°	1200.5	1120.5	930.1	731.4	560.2	441.6	378.1	339.5	325.7	317.4	320.1
27.5°	1206.0	1120.5	899.7	662.4	488.5	391.9	342.2	317.4	306.3	300.8	298.1
30°	1228.1	1126.0	863.8	593.4	430.5	353.3	314.6	300.8	292.5	289.8	289.8
32.5°	1288.8	1142.6	825.2	535.4	380.9	320.1	295.3	284.3	278.7	276.0	278.7
35°	1360.6	1186.7	783.8	474.7	345.0	298.1	278.7	270.5	267.7	267.7	267.7
37.5°	1471.0	1253.0	747.9	425.0	314.6	276.0	262.2	259.4	256.7	259.4	259.4
40°	1597.9	1324.7	714.8	386.4	292.5	262.2	248.4	248.4	245.6	248.4	251.1
42.5°	1744.2	1413.0	681.7	347.7	273.2	251.1	240.1	237.3	234.6	240.1	242.9
45°	1945.7	1534.5	659.6	325.7	259.4	240.1	229.1	229.1	226.3	226.3	231.8
47.5°	2114.0	1650.4	659.6	303.6	251.1	231.8	220.8	220.8	215.3	218.0	218.0
50°	2254.8	1749.7	673.4	298.1	240.1	223.5	215.3	209.7	207.0	207.0	207.0
52.5°	2348.6	1810.4	684.4	292.5	234.6	212.5	207.0	204.2	198.7	195.9	198.7
55°	2442.4	1851.8	687.2	292.5	226.3	201.5	195.9	195.9	190.4	187.7	187.7
57.5°	2478.3	1835.3	648.6	287.0	220.8	193.2	187.7	184.9	182.1	179.4	179.4
60°	2461.8	1774.6	563.0	273.2	215.3	187.7	176.6	176.6	176.6	171.1	173.9
62.5°	2348.6	1567.6	452.6	251.1	207.0	176.6	165.6	171.1	171.1	168.3	168.3
65°	2050.5	1294.4	367.1	231.8	195.9	168.3	157.3	165.6	168.3	165.6	162.8
67.5°	1639.3	996.3	303.6	209.7	182.1	154.5	146.3	154.5	157.3	154.5	154.5
70°	1126.0	643.0	245.6	187.7	162.8	140.8	132.5	138.0	138.0	140.8	140.8
72.5°	582.3	347.7	201.5	160.1	140.8	127.0	118.7	118.7	115.9	115.9	115.9
75°	289.8	237.3	168.3	135.2	118.7	107.6	102.1	96.6	96.6	96.6	96.6
77.5°	201.5	182.1	138.0	107.6	96.6	88.3	88.3	80.0	80.0	80.0	80.0
80°	151.8	143.5	104.9	82.8	74.5	69.0	69.0	66.2	66.2	63.5	63.5
82.5°	107.6	115.9	80.0	60.7	55.2	52.4	52.4	49.7	49.7	44.2	44.2
85°	85.6	96.6	60.7	44.2	41.4	35.9	35.9	33.1	33.1	30.4	27.6
87.5°	24.8	52.4	24.8	16.6	16.6	16.6	16.6	13.8	13.8	11.0	11.0
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)