

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: P671559

Luminaire Tested: **CCP-SA-1D-760-U-SL4**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671559  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1D-760-U-SL4  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ SL4 distribution lens  
Light Source: (16) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

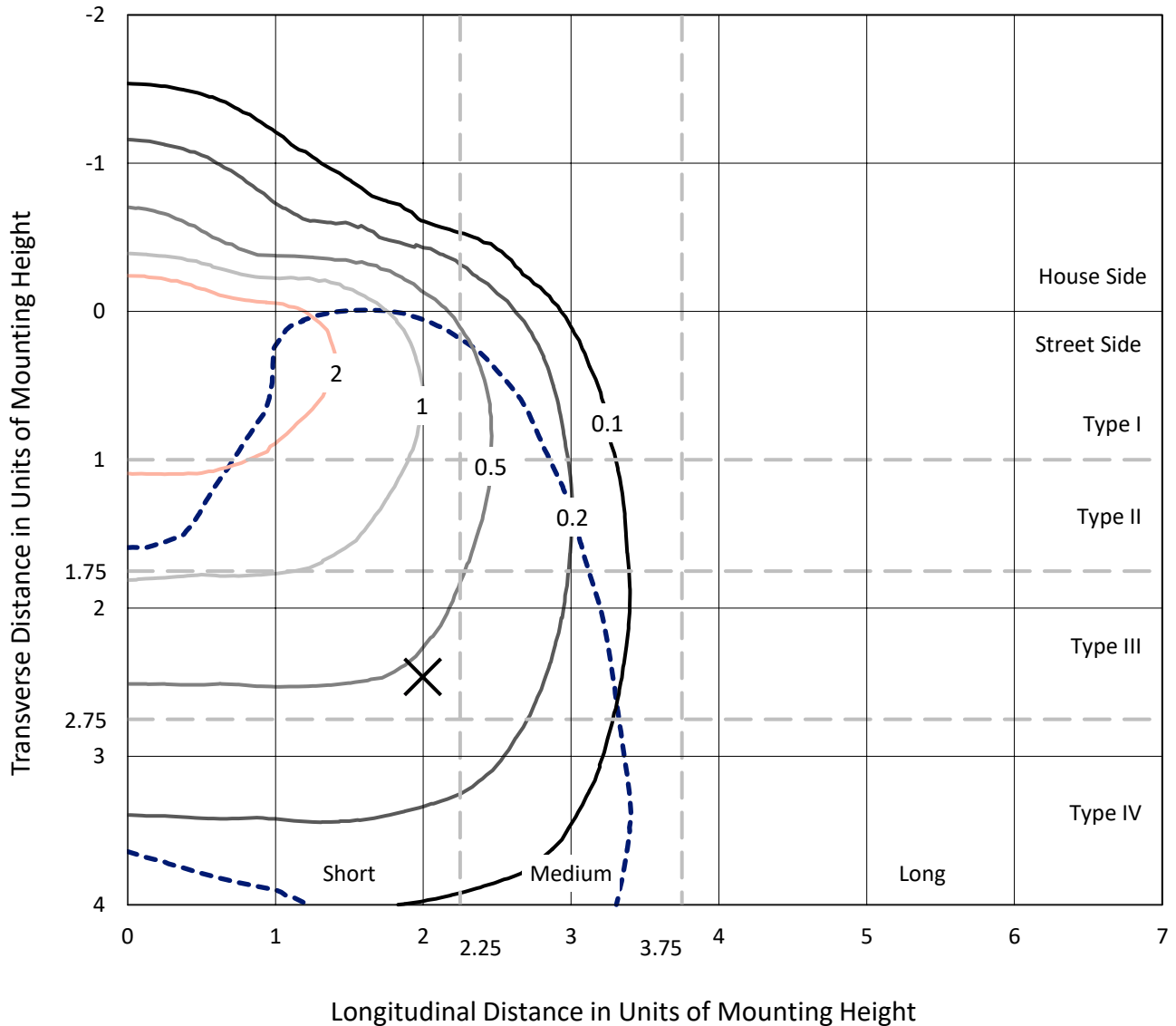
Lumens per Lamp: N/A  
Luminaire Lumens: 5590.1 lumens  
Efficiency: N/A  
Efficacy: 127.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

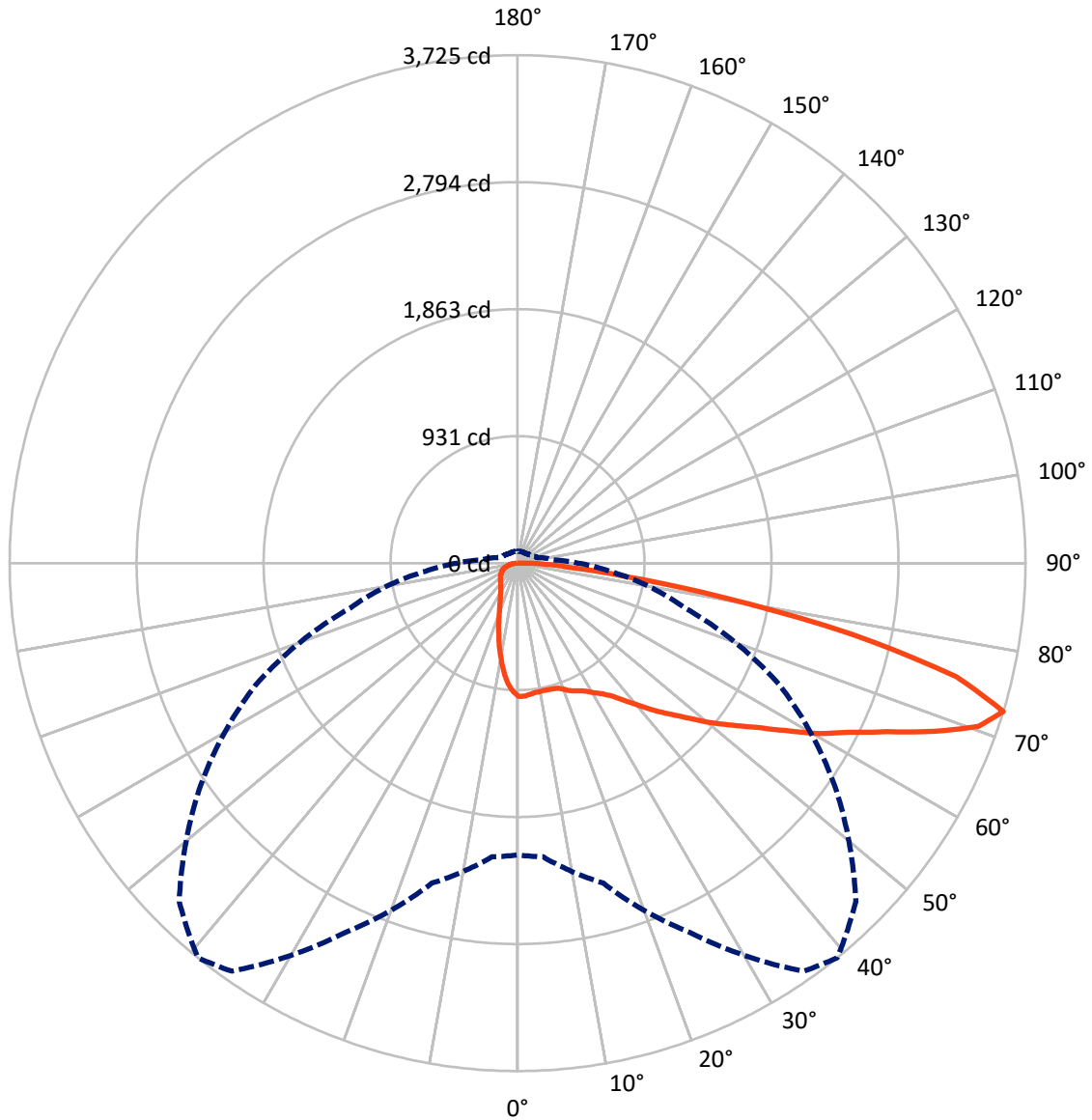
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.3 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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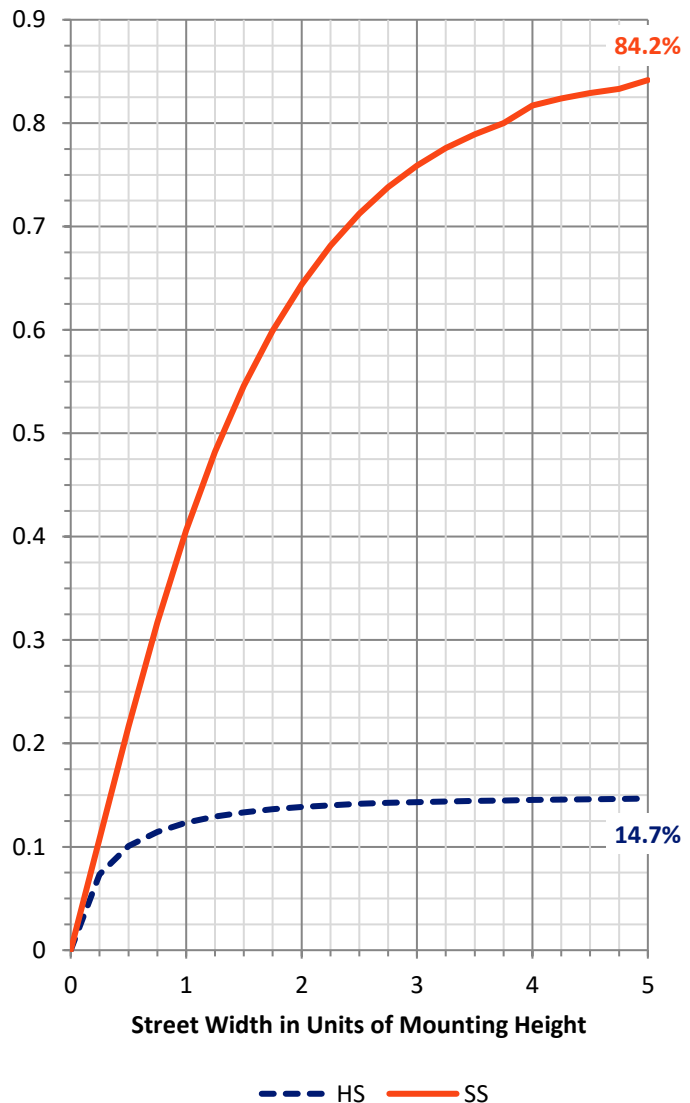
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	830.8	0.0	830.8
	% Fixture	14.9	0.0	14.9
<b>Street Side</b>	Lumens	4759.3	0.0	4759.3
	% Fixture	85.1	0.0	85.1
<b>Total</b>	Lumens	5590.1	0.0	5590.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.4	1.5
10°-20°	220.7	3.9
20°-30°	336.2	6.0
30°-40°	491.8	8.8
40°-50°	753.0	13.5
50°-60°	1104.3	19.8
60°-70°	1408.4	25.2
70°-80°	1017.6	18.2
80°-90°	171.7	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°	5590.1	100.0
0°-180°	5590.1	100.0



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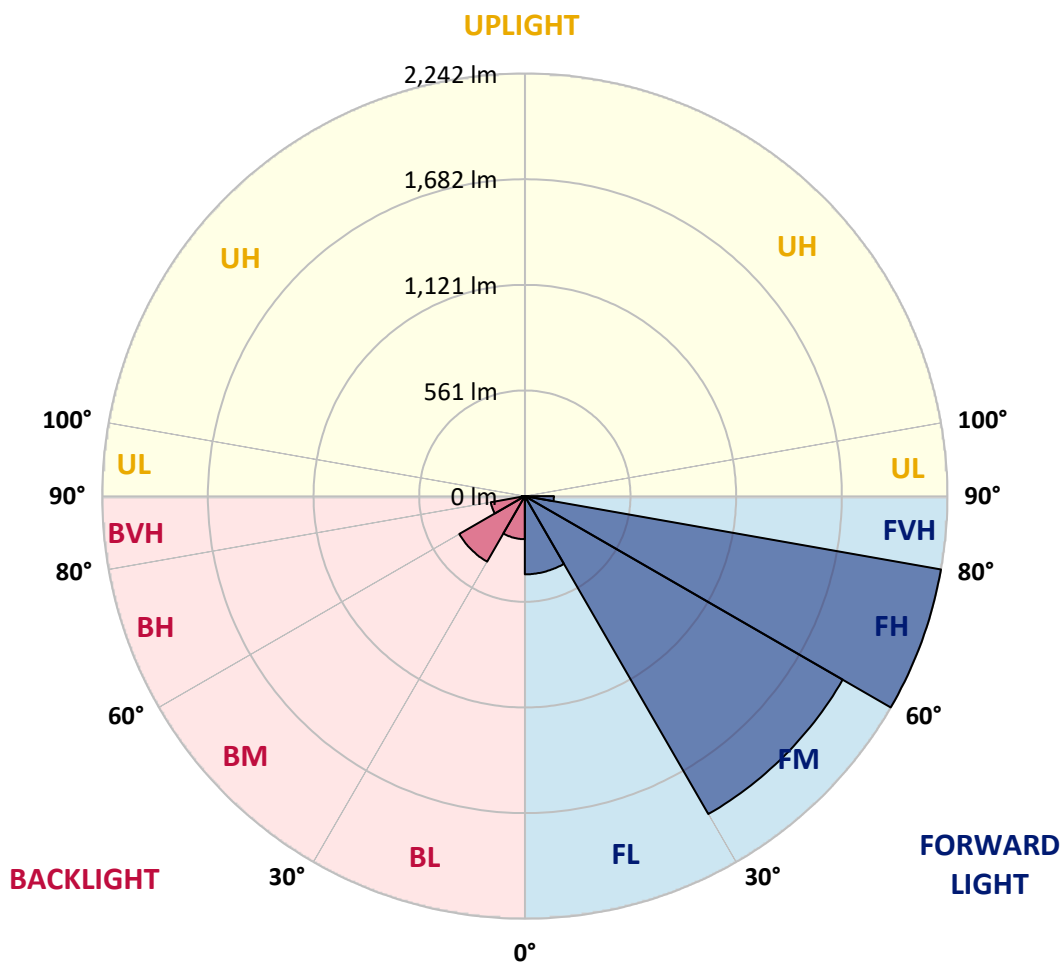
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	414.9	7.4			
FM (30°-60°)	1947.7	34.8			
FH (60°-80°)	2242.4	40.1			G2/5000
FVH (80°-90°)	154.3	2.8			G2/225
BL (0°-30°)	228.5	4.1	B1/500		
BM (30°-60°)	401.4	7.2	B1/1000		
BH (60°-80°)	183.6	3.3	B1/500		G1/500
BVH (80°-90°)	17.4	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°	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5
2.5°	993.2	995.3	991.1	986.9	984.8	976.4	984.8	980.6	976.4	976.4	976.4
5°	980.6	982.7	982.7	978.5	980.6	965.9	963.8	965.9	959.6	955.4	953.3
7.5°	961.7	965.9	974.3	972.2	963.8	957.5	959.6	957.5	947.0	940.7	923.9
10°	947.0	951.2	955.4	959.6	957.5	955.4	953.3	944.9	942.8	928.1	911.3
12.5°	932.3	932.3	934.4	951.2	953.3	953.3	940.7	940.7	934.4	932.3	907.1
15°	917.6	923.9	940.7	944.9	953.3	957.5	951.2	951.2	940.7	926.0	907.1
17.5°	921.8	932.3	949.1	959.6	963.8	963.8	972.2	965.9	951.2	942.8	923.9
20°	942.8	944.9	965.9	984.8	989.0	989.0	980.6	974.3	963.8	949.1	923.9
22.5°	955.4	970.1	995.3	1005.8	1018.4	1018.4	1007.9	993.2	978.5	963.8	936.5
25°	1010.0	1012.1	1022.6	1039.4	1045.7	1037.3	1026.8	1010.0	991.1	976.4	951.2
27.5°	1047.8	1058.3	1070.9	1079.3	1068.8	1062.5	1054.1	1035.2	1020.5	1007.9	972.2
30°	1117.1	1104.5	1112.9	1117.1	1098.2	1102.4	1079.3	1062.5	1045.7	1045.7	1005.8
32.5°	1159.1	1169.6	1161.2	1159.1	1144.4	1142.3	1127.6	1108.7	1098.2	1110.8	1056.2
35°	1232.6	1226.3	1226.3	1224.2	1207.4	1196.9	1196.9	1163.3	1173.8	1201.1	1133.9
37.5°	1270.4	1268.3	1280.9	1291.4	1274.6	1280.9	1274.6	1259.9	1264.1	1312.4	1230.5
40°	1308.2	1322.9	1348.1	1352.3	1362.8	1371.2	1367.0	1364.9	1381.7	1459.4	1360.7
42.5°	1343.9	1356.5	1394.3	1427.9	1453.1	1480.4	1482.5	1482.5	1537.1	1648.3	1518.2
45°	1390.1	1400.6	1453.1	1520.3	1562.3	1581.2	1597.9	1616.8	1690.3	1822.6	1686.1
47.5°	1453.1	1461.5	1524.5	1608.4	1690.3	1700.8	1734.4	1755.4	1866.7	2001.1	1858.3
50°	1543.4	1537.1	1587.5	1709.2	1789.0	1839.4	1887.7	1925.5	2034.7	2181.7	1992.7
52.5°	1616.8	1616.8	1654.6	1816.3	1925.5	1973.8	2024.2	2076.7	2202.7	2362.3	2101.9
55°	1742.8	1730.2	1753.3	1921.3	2078.8	2125.0	2221.6	2265.7	2387.5	2496.7	2194.3
57.5°	1828.9	1835.2	1862.5	2059.9	2259.4	2316.1	2412.7	2444.2	2551.3	2637.4	2261.5
60°	1942.3	1921.3	1980.1	2213.2	2458.9	2538.7	2618.5	2637.4	2717.1	2727.6	2293.0
62.5°	2051.5	2047.3	2097.7	2366.5	2673.0	2729.7	2811.6	2832.6	2866.2	2799.0	2248.9
65°	2118.7	2146.0	2240.5	2534.5	2916.6	2979.6	3061.5	3019.5	2981.7	2736.0	2032.6
67.5°	2211.1	2223.7	2368.6	2717.1	3198.0	3292.5	3363.9	3198.0	2916.6	2477.8	1711.3
70°	2232.1	2265.7	2454.7	2908.2	3487.8	3584.4	3588.6	3137.1	2679.3	2015.8	1241.0
72.5°	2139.7	2162.8	2429.5	2988.0	3653.7	3725.0	3508.8	2836.8	2122.9	1270.4	676.1
75°	1799.5	1864.6	2114.5	2742.3	3349.2	3321.9	2973.3	2164.9	1274.6	562.7	285.6
77.5°	1253.6	1255.7	1516.1	1994.8	2507.2	2500.9	2120.8	1255.7	545.9	226.8	168.0
80°	556.4	596.3	753.8	1075.1	1522.4	1522.4	1236.8	623.6	273.0	147.0	115.5
82.5°	327.6	340.2	403.2	501.9	741.2	781.1	592.1	415.8	186.9	92.4	71.4
85°	241.5	262.5	300.3	302.4	350.7	357.0	327.6	361.2	128.1	50.4	58.8
87.5°	180.6	193.2	239.4	199.5	186.9	176.4	201.6	369.6	48.3	25.2	18.9
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°	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5
2.5°	968.0	968.0	963.8	955.4	955.4	938.6	942.8	947.0	936.5	936.5	938.6
5°	953.3	944.9	934.4	921.8	913.4	890.3	886.1	871.4	869.3	865.1	858.8
7.5°	923.9	911.3	892.4	873.5	846.2	825.2	800.0	779.0	770.6	764.3	762.2
10°	896.6	894.5	863.0	825.2	783.2	743.3	705.5	678.2	661.4	650.9	648.8
12.5°	896.6	879.8	835.7	783.2	722.3	663.5	615.2	577.4	554.3	537.5	531.2
15°	892.4	875.6	816.8	737.0	667.7	587.9	520.8	480.9	447.3	430.5	432.6
17.5°	896.6	871.4	789.5	703.4	606.8	520.8	441.0	392.7	359.1	346.5	344.4
20°	898.7	867.2	768.5	657.2	543.8	447.3	371.7	325.5	300.3	291.9	291.9
22.5°	894.5	854.6	737.0	602.6	489.3	386.4	323.4	283.5	266.7	256.2	260.4
25°	913.4	852.5	707.6	556.4	426.3	336.0	287.7	258.3	247.8	241.5	243.6
27.5°	917.6	852.5	684.5	504.0	371.7	298.2	260.4	241.5	233.1	228.9	226.8
30°	934.4	856.7	657.2	451.5	327.6	268.8	239.4	228.9	222.6	220.5	220.5
32.5°	980.6	869.3	627.8	407.4	289.8	243.6	224.7	216.3	212.1	210.0	212.1
35°	1035.2	902.9	596.3	361.2	262.5	226.8	212.1	205.8	203.7	203.7	203.7
37.5°	1119.2	953.3	569.0	323.4	239.4	210.0	199.5	197.4	195.3	197.4	197.4
40°	1215.8	1007.9	543.8	294.0	222.6	199.5	189.0	189.0	186.9	189.0	191.1
42.5°	1327.1	1075.1	518.7	264.6	207.9	191.1	182.7	180.6	178.5	182.7	184.8
45°	1480.4	1167.5	501.9	247.8	197.4	182.7	174.3	174.3	172.2	172.2	176.4
47.5°	1608.4	1255.7	501.9	231.0	191.1	176.4	168.0	168.0	163.8	165.9	165.9
50°	1715.5	1331.3	512.4	226.8	182.7	170.1	163.8	159.6	157.5	157.5	157.5
52.5°	1786.9	1377.5	520.8	222.6	178.5	161.7	157.5	155.4	151.2	149.1	151.2
55°	1858.3	1409.0	522.9	222.6	172.2	153.3	149.1	149.1	144.9	142.8	142.8
57.5°	1885.6	1396.4	493.5	218.4	168.0	147.0	142.8	140.7	138.6	136.5	136.5
60°	1873.0	1350.2	428.4	207.9	163.8	142.8	134.4	134.4	134.4	130.2	132.3
62.5°	1786.9	1192.7	344.4	191.1	157.5	134.4	126.0	130.2	130.2	128.1	128.1
65°	1560.2	984.8	279.3	176.4	149.1	128.1	119.7	126.0	128.1	126.0	123.9
67.5°	1247.3	758.0	231.0	159.6	138.6	117.6	111.3	117.6	119.7	117.6	117.6
70°	856.7	489.3	186.9	142.8	123.9	107.1	100.8	105.0	105.0	107.1	107.1
72.5°	443.1	264.6	153.3	121.8	107.1	96.6	90.3	90.3	88.2	88.2	88.2
75°	220.5	180.6	128.1	102.9	90.3	81.9	77.7	73.5	73.5	73.5	73.5
77.5°	153.3	138.6	105.0	81.9	73.5	67.2	67.2	60.9	60.9	60.9	60.9
80°	115.5	109.2	79.8	63.0	56.7	52.5	52.5	50.4	50.4	48.3	48.3
82.5°	81.9	88.2	60.9	46.2	42.0	39.9	39.9	37.8	37.8	33.6	33.6
85°	65.1	73.5	46.2	33.6	31.5	27.3	27.3	25.2	25.2	23.1	21.0
87.5°	18.9	39.9	18.9	12.6	12.6	12.6	12.6	10.5	10.5	8.4	8.4
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)