

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: P671537

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

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671537  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1D-740-U-SL4  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ SL4 distribution lens  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

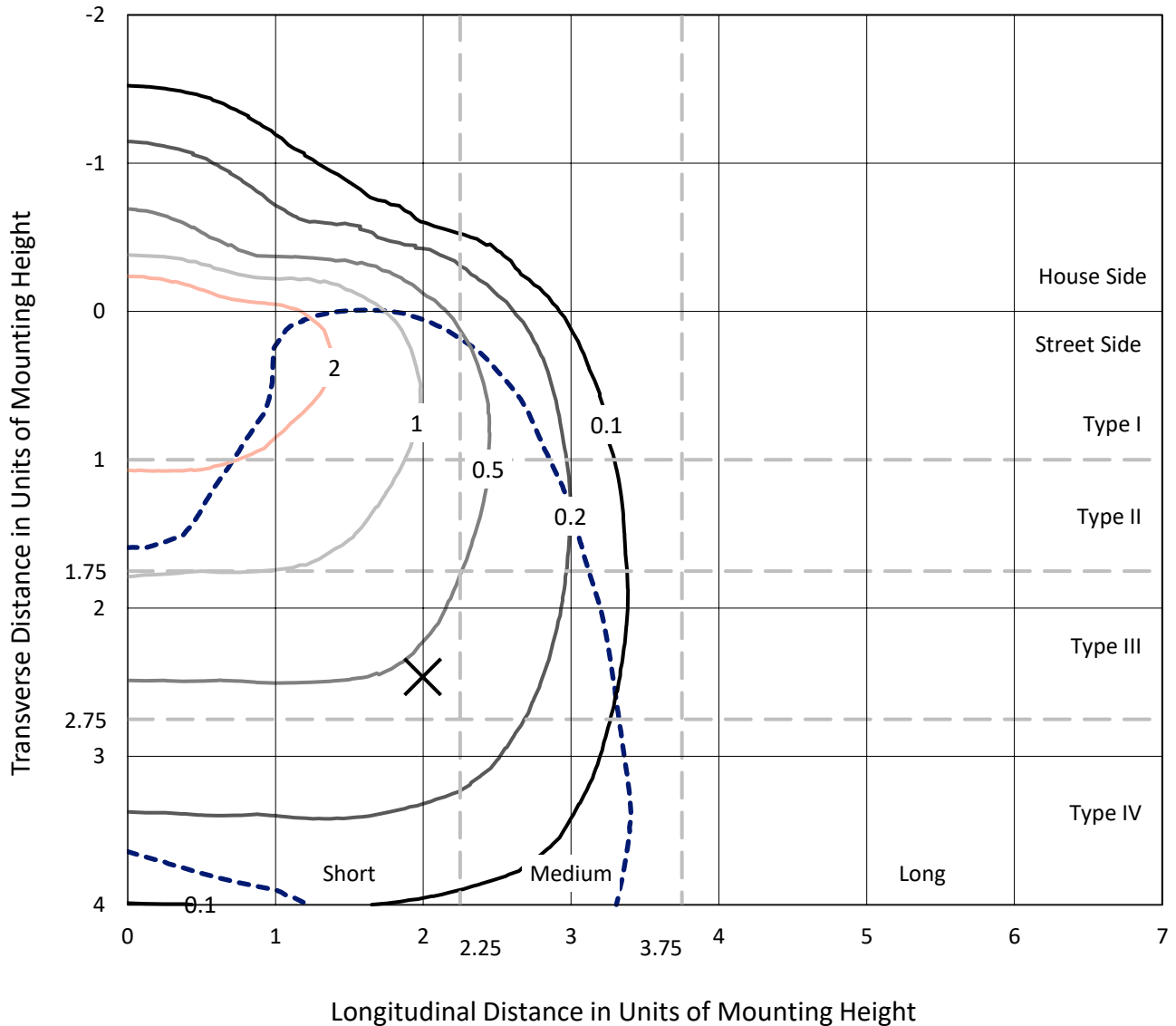
Lumens per Lamp: N/A  
Luminaire Lumens: 5464.9 lumens  
Efficiency: N/A  
Efficacy: 124.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

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

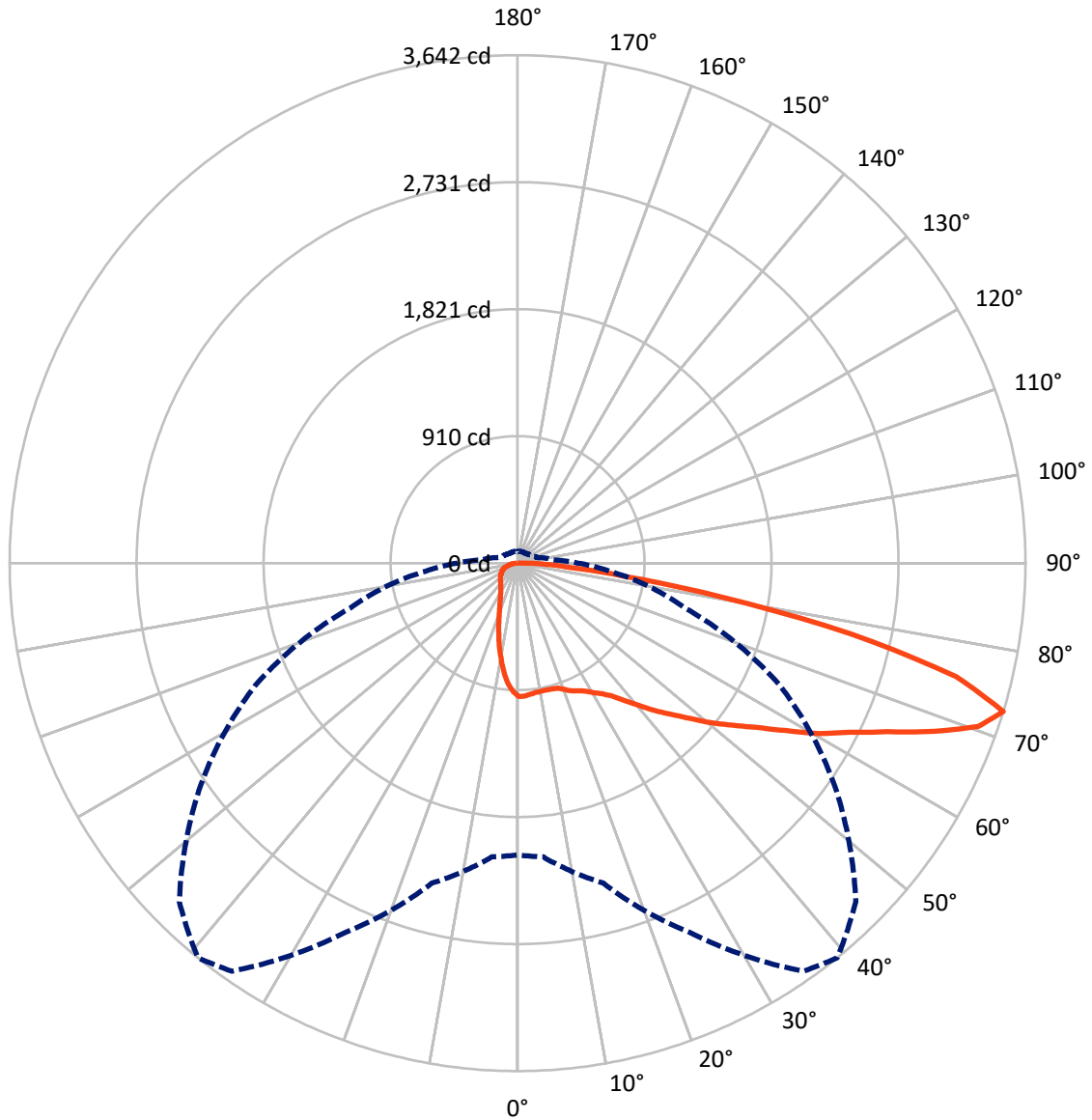
× Max cd  
 - - - 1/2 Max cd



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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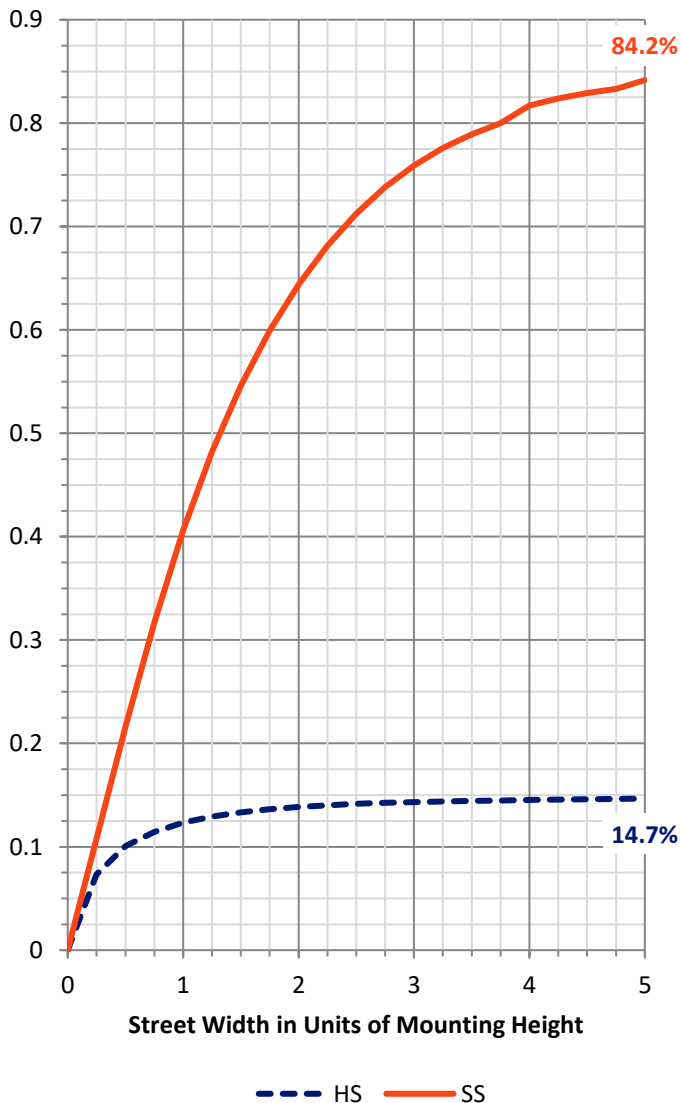
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	812.2	0.0	812.2
	% Fixture	14.9	0.0	14.9
<b>Street Side</b>	Lumens	4652.7	0.0	4652.7
	% Fixture	85.1	0.0	85.1
<b>Total</b>	Lumens	5464.9	0.0	5464.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.5	1.5
10°-20°	215.7	3.9
20°-30°	328.7	6.0
30°-40°	480.8	8.8
40°-50°	736.1	13.5
50°-60°	1079.6	19.8
60°-70°	1376.9	25.2
70°-80°	994.8	18.2
80°-90°	167.8	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°	5464.9	100.0
0°-180°	5464.9	100.0



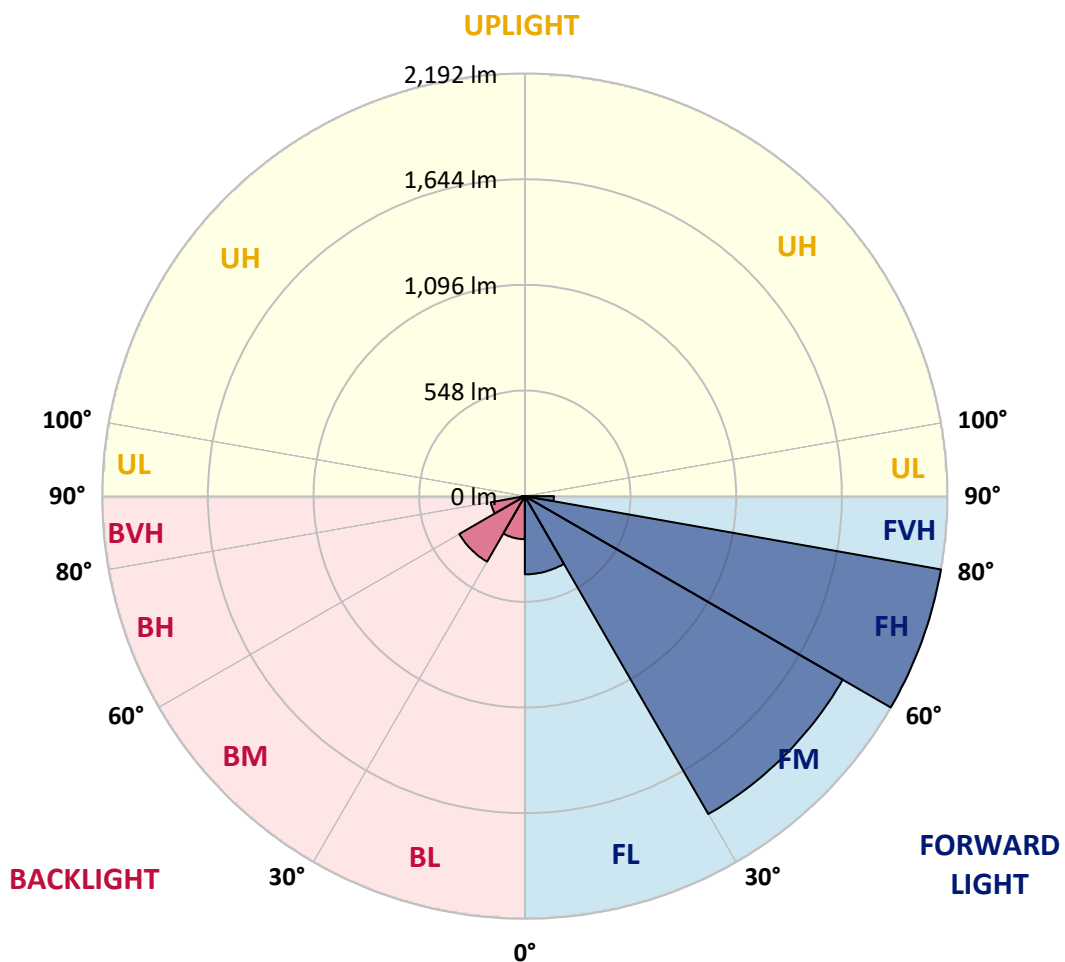
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	405.6	7.4			
FM (30°-60°)	1904.1	34.8			
FH (60°-80°)	2192.2	40.1			G2/5000
FVH (80°-90°)	150.8	2.8			G2/225
BL (0°-30°)	223.4	4.1	B1/500		
BM (30°-60°)	392.4	7.2	B1/1000		
BH (60°-80°)	179.5	3.3	B1/500		G1/500
BVH (80°-90°)	17.0	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°	956.6	956.6	956.6	956.6	956.6	956.6	956.6	956.6	956.6	956.6	956.6
2.5°	971.0	973.0	968.9	964.8	962.8	954.5	962.8	958.7	954.5	954.5	954.5
5°	958.7	960.7	960.7	956.6	958.7	944.3	942.2	944.3	938.1	934.0	932.0
7.5°	940.2	944.3	952.5	950.4	942.2	936.1	938.1	936.1	925.8	919.7	903.2
10°	925.8	929.9	934.0	938.1	936.1	934.0	932.0	923.8	921.7	907.3	890.9
12.5°	911.4	911.4	913.5	929.9	932.0	932.0	919.7	919.7	913.5	911.4	886.8
15°	897.1	903.2	919.7	923.8	932.0	936.1	929.9	929.9	919.7	905.3	886.8
17.5°	901.2	911.4	927.9	938.1	942.2	942.2	950.4	944.3	929.9	921.7	903.2
20°	921.7	923.8	944.3	962.8	966.9	966.9	958.7	952.5	942.2	927.9	903.2
22.5°	934.0	948.4	973.0	983.3	995.6	995.6	985.3	971.0	956.6	942.2	915.5
25°	987.4	989.4	999.7	1016.1	1022.3	1014.1	1003.8	987.4	968.9	954.5	929.9
27.5°	1024.3	1034.6	1046.9	1055.1	1044.9	1038.7	1030.5	1012.0	997.7	985.3	950.4
30°	1092.1	1079.8	1088.0	1092.1	1073.6	1077.7	1055.1	1038.7	1022.3	1022.3	983.3
32.5°	1133.1	1143.4	1135.2	1133.1	1118.8	1116.7	1102.3	1083.9	1073.6	1085.9	1032.6
35°	1205.0	1198.8	1198.8	1196.8	1180.4	1170.1	1170.1	1137.2	1147.5	1174.2	1108.5
37.5°	1241.9	1239.9	1252.2	1262.5	1246.0	1252.2	1246.0	1231.7	1235.8	1283.0	1202.9
40°	1278.9	1293.3	1317.9	1322.0	1332.3	1340.5	1336.4	1334.3	1350.7	1426.7	1330.2
42.5°	1313.8	1326.1	1363.1	1395.9	1420.5	1447.2	1449.3	1449.3	1502.6	1611.4	1484.2
45°	1358.9	1369.2	1420.5	1486.2	1527.3	1545.8	1562.2	1580.7	1652.5	1781.8	1648.4
47.5°	1420.5	1428.7	1490.3	1572.4	1652.5	1662.8	1695.6	1716.1	1824.9	1956.3	1816.7
50°	1508.8	1502.6	1551.9	1671.0	1749.0	1798.2	1845.5	1882.4	1989.2	2132.9	1948.1
52.5°	1580.7	1580.7	1617.6	1775.7	1882.4	1929.6	1978.9	2030.2	2153.4	2309.4	2054.8
55°	1703.8	1691.5	1714.1	1878.3	2032.3	2077.4	2171.9	2215.0	2334.0	2440.8	2145.2
57.5°	1788.0	1794.1	1820.8	2013.8	2208.8	2264.2	2358.7	2389.5	2494.1	2578.3	2210.9
60°	1898.8	1878.3	1935.8	2163.6	2403.8	2481.8	2559.8	2578.3	2656.3	2666.6	2241.6
62.5°	2005.6	2001.5	2050.7	2313.5	2613.2	2668.6	2748.7	2769.2	2802.1	2736.4	2198.5
65°	2071.3	2098.0	2190.3	2477.7	2851.3	2912.9	2993.0	2951.9	2915.0	2674.8	1987.1
67.5°	2161.6	2173.9	2315.6	2656.3	3126.4	3218.8	3288.6	3126.4	2851.3	2422.3	1673.0
70°	2182.1	2215.0	2399.7	2843.1	3409.7	3504.1	3508.2	3066.9	2619.4	1970.7	1213.2
72.5°	2091.8	2114.4	2375.1	2921.1	3571.9	3641.7	3430.2	2773.3	2075.4	1241.9	661.0
75°	1759.2	1822.9	2067.2	2680.9	3274.2	3247.5	2906.8	2116.4	1246.0	550.1	279.2
77.5°	1225.5	1227.6	1482.1	1950.2	2451.0	2444.9	2073.3	1227.6	533.7	221.7	164.2
80°	544.0	583.0	737.0	1051.0	1488.3	1488.3	1209.1	609.7	266.9	143.7	112.9
82.5°	320.2	332.6	394.1	490.6	724.6	763.6	578.9	406.5	182.7	90.3	69.8
85°	236.1	256.6	293.5	295.6	342.8	349.0	320.2	353.1	125.2	49.3	57.5
87.5°	176.5	188.9	234.0	195.0	182.7	172.4	197.1	361.3	47.2	24.6	18.5
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°	956.6	956.6	956.6	956.6	956.6	956.6	956.6	956.6	956.6	956.6	956.6
2.5°	946.3	946.3	942.2	934.0	934.0	917.6	921.7	925.8	915.5	915.5	917.6
5°	932.0	923.8	913.5	901.2	893.0	870.4	866.3	851.9	849.9	845.8	839.6
7.5°	903.2	890.9	872.4	854.0	827.3	806.7	782.1	761.6	753.4	747.2	745.2
10°	876.5	874.5	843.7	806.7	765.7	726.7	689.7	663.1	646.6	636.4	634.3
12.5°	876.5	860.1	817.0	765.7	706.2	648.7	601.5	564.5	541.9	525.5	519.4
15°	872.4	856.0	798.5	720.5	652.8	574.8	509.1	470.1	437.2	420.8	422.9
17.5°	876.5	851.9	771.9	687.7	593.3	509.1	431.1	383.9	351.0	338.7	336.7
20°	878.6	847.8	751.3	642.5	531.7	437.2	363.3	318.2	293.5	285.3	285.3
22.5°	874.5	835.5	720.5	589.2	478.3	377.7	316.1	277.1	260.7	250.4	254.5
25°	893.0	833.4	691.8	544.0	416.7	328.4	281.2	252.5	242.2	236.1	238.1
27.5°	897.1	833.4	669.2	492.7	363.3	291.5	254.5	236.1	227.9	223.8	221.7
30°	913.5	837.5	642.5	441.4	320.2	262.8	234.0	223.8	217.6	215.5	215.5
32.5°	958.7	849.9	613.8	398.2	283.3	238.1	219.6	211.4	207.3	205.3	207.3
35°	1012.0	882.7	583.0	353.1	256.6	221.7	207.3	201.2	199.1	199.1	199.1
37.5°	1094.1	932.0	556.3	316.1	234.0	205.3	195.0	193.0	190.9	193.0	193.0
40°	1188.6	985.3	531.7	287.4	217.6	195.0	184.8	184.8	182.7	184.8	186.8
42.5°	1297.4	1051.0	507.0	258.7	203.2	186.8	178.6	176.5	174.5	178.6	180.6
45°	1447.2	1141.4	490.6	242.2	193.0	178.6	170.4	170.4	168.3	168.3	172.4
47.5°	1572.4	1227.6	490.6	225.8	186.8	172.4	164.2	164.2	160.1	162.2	162.2
50°	1677.1	1301.5	500.9	221.7	178.6	166.3	160.1	156.0	154.0	154.0	154.0
52.5°	1746.9	1346.6	509.1	217.6	174.5	158.1	154.0	151.9	147.8	145.7	147.8
55°	1816.7	1377.4	511.1	217.6	168.3	149.9	145.7	145.7	141.6	139.6	139.6
57.5°	1843.4	1365.1	482.4	213.5	164.2	143.7	139.6	137.5	135.5	133.4	133.4
60°	1831.1	1319.9	418.8	203.2	160.1	139.6	131.4	131.4	131.4	127.3	129.3
62.5°	1746.9	1166.0	336.7	186.8	154.0	131.4	123.2	127.3	127.3	125.2	125.2
65°	1525.2	962.8	273.0	172.4	145.7	125.2	117.0	123.2	125.2	123.2	121.1
67.5°	1219.4	741.1	225.8	156.0	135.5	115.0	108.8	115.0	117.0	115.0	115.0
70°	837.5	478.3	182.7	139.6	121.1	104.7	98.5	102.6	102.6	104.7	104.7
72.5°	433.1	258.7	149.9	119.1	104.7	94.4	88.3	88.3	86.2	86.2	86.2
75°	215.5	176.5	125.2	100.6	88.3	80.1	76.0	71.8	71.8	71.8	71.8
77.5°	149.9	135.5	102.6	80.1	71.8	65.7	65.7	59.5	59.5	59.5	59.5
80°	112.9	106.7	78.0	61.6	55.4	51.3	51.3	49.3	49.3	47.2	47.2
82.5°	80.1	86.2	59.5	45.2	41.1	39.0	39.0	37.0	37.0	32.8	32.8
85°	63.6	71.8	45.2	32.8	30.8	26.7	26.7	24.6	24.6	22.6	20.5
87.5°	18.5	39.0	18.5	12.3	12.3	12.3	12.3	10.3	10.3	8.2	8.2
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)