

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: P670743

Luminaire Tested: **CCP-SA-2B-840-U-T2**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P670743  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2B-840-U-T2  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ T2 distribution lens  
Light Source: (32) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

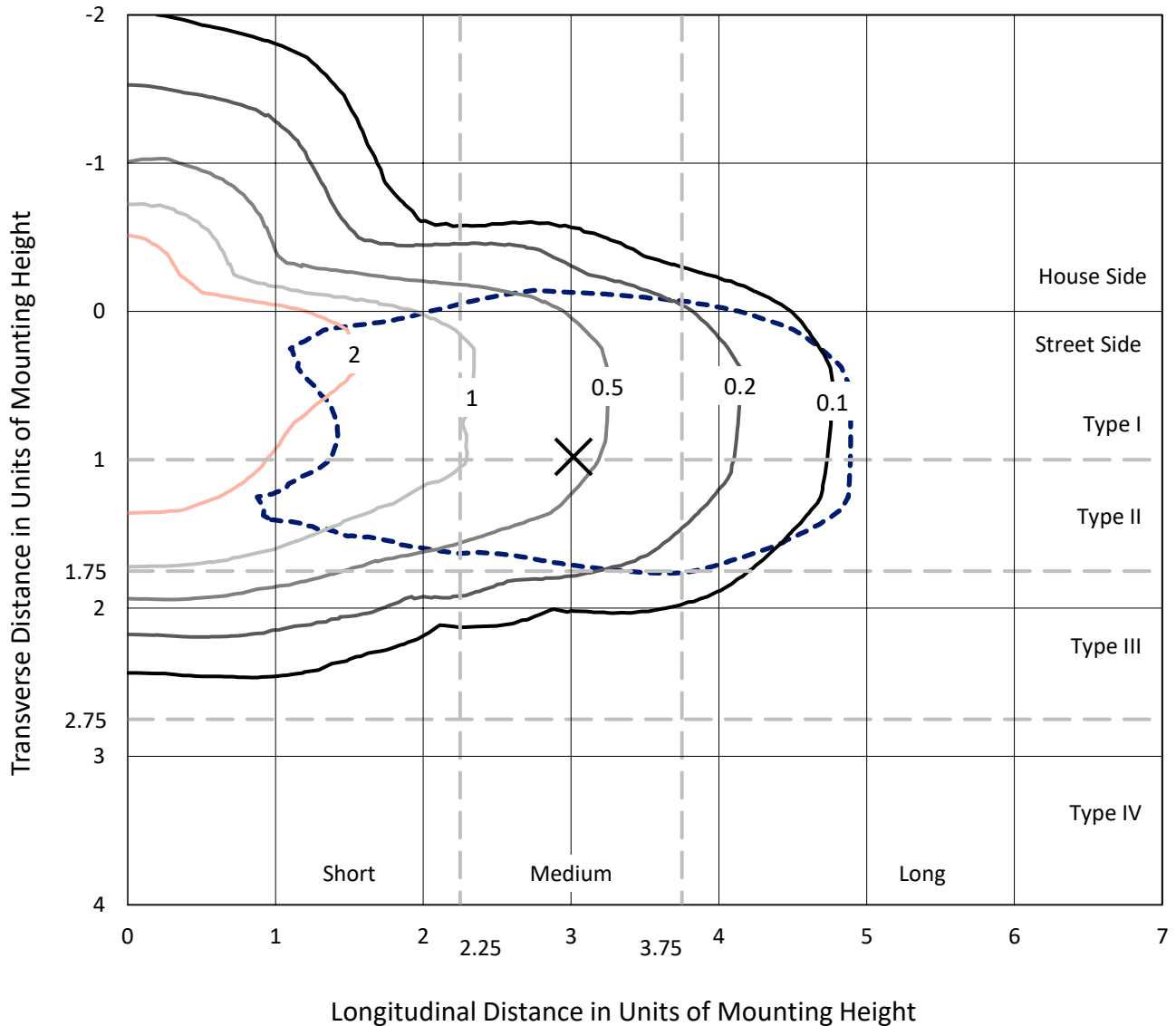
Lumens per Lamp: N/A  
Luminaire Lumens: 5873.5 lumens  
Efficiency: N/A  
Efficacy: 127.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 46  
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

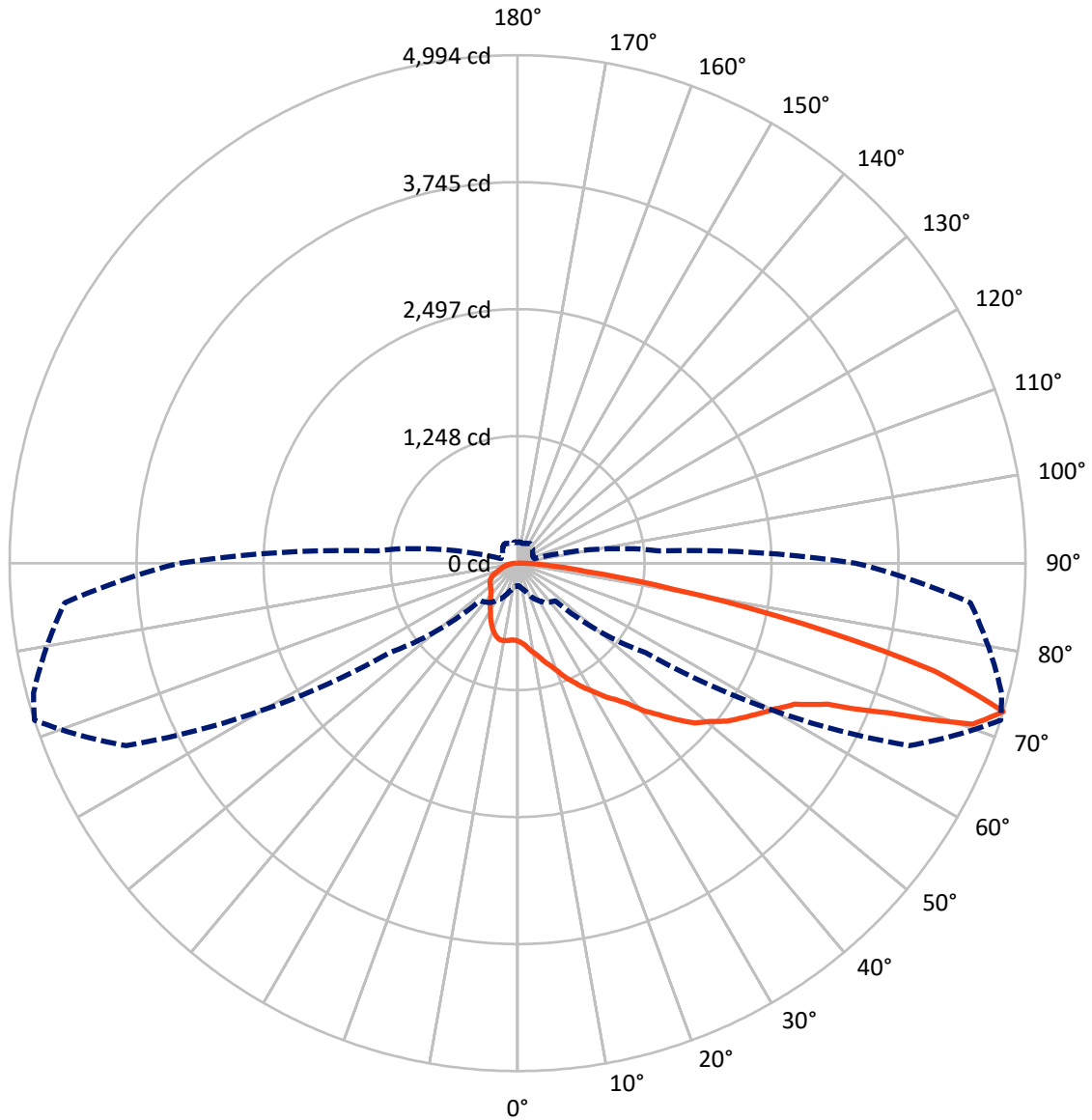
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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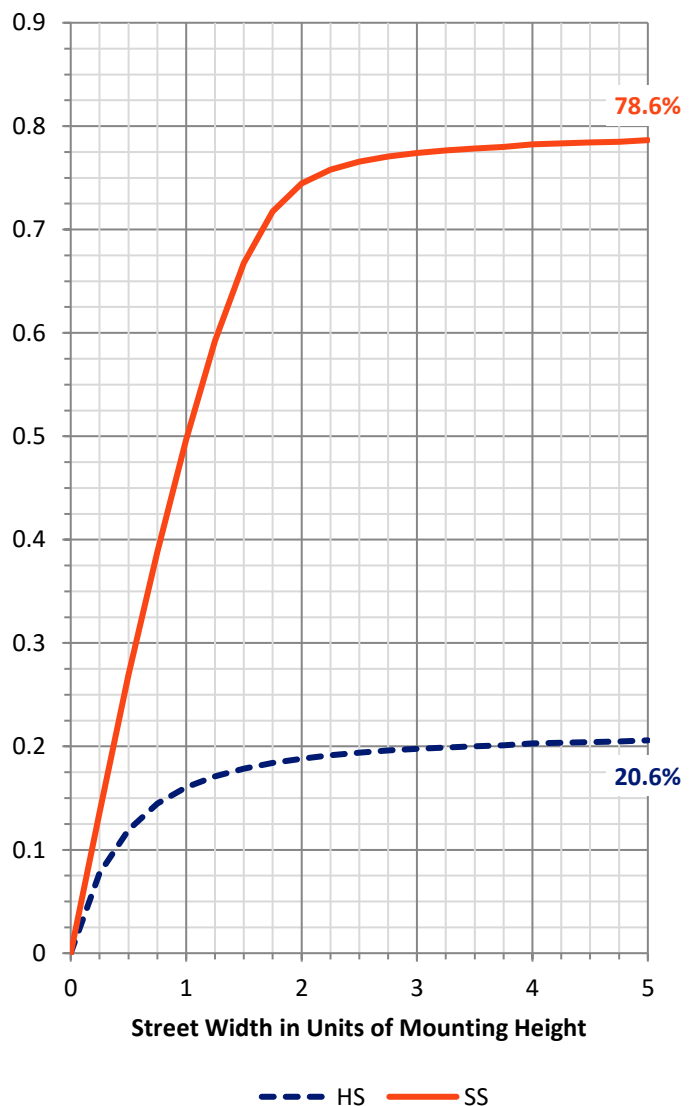
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1236.1	0.0	1236.1
	% Fixture	21.0	0.0	21.0
<b>Street Side</b>	Lumens	4637.4	0.0	4637.4
	% Fixture	79.0	0.0	79.0
<b>Total</b>	Lumens	5873.5	0.0	5873.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.9	1.3
10°-20°	235.7	4.0
20°-30°	407.9	6.9
30°-40°	602.5	10.3
40°-50°	895.9	15.3
50°-60°	1228.2	20.9
60°-70°	1332.2	22.7
70°-80°	939.3	16.0
80°-90°	156.1	2.7
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°	5873.5	100.0
0°-180°	5873.5	100.0



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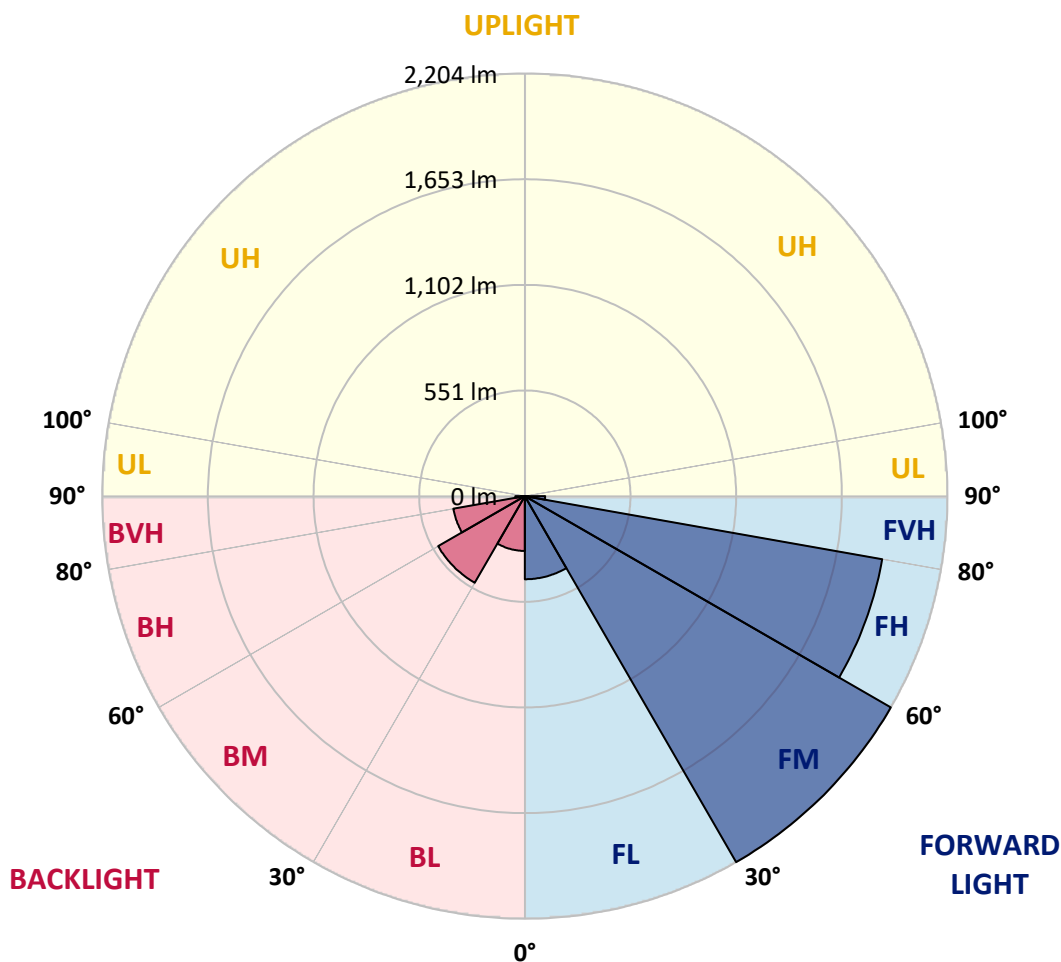
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	433.7	7.4			
FM (30°-60°)	2204.5	37.5			
FH (60°-80°)	1892.9	32.2			G2/5000
FVH (80°-90°)	106.4	1.8			G2/225
BL (0°-30°)	285.7	4.9	B1/500		
BM (30°-60°)	522.1	8.9	B1/1000		
BH (60°-80°)	378.6	6.4	B1/500		G1/500
BVH (80°-90°)	49.7	0.8			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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	767.2	767.2	767.2	767.2	767.2	767.2	767.2	767.2	767.2	767.2	767.2
2.5°	827.9	827.9	821.4	819.3	819.3	801.9	804.1	793.3	784.6	784.6	775.9
5°	871.3	866.9	866.9	866.9	856.1	849.6	847.4	827.9	812.8	814.9	788.9
7.5°	882.1	884.3	886.5	897.3	890.8	895.1	890.8	869.1	858.3	847.4	823.6
10°	888.6	893.0	893.0	908.1	908.1	919.0	925.5	916.8	897.3	886.5	847.4
12.5°	903.8	897.3	906.0	916.8	927.6	947.1	966.6	958.0	945.0	932.0	888.6
15°	903.8	906.0	912.5	929.8	947.1	966.6	1001.3	1014.3	1007.8	984.0	938.5
17.5°	877.8	871.3	901.6	934.1	966.6	990.5	1036.0	1066.3	1062.0	1053.3	984.0
20°	880.0	886.5	897.3	925.5	977.5	1020.8	1077.2	1127.0	1137.9	1133.5	1044.7
22.5°	919.0	921.1	932.0	945.0	986.2	1042.5	1127.0	1207.2	1226.7	1215.9	1111.9
25°	958.0	975.3	975.3	984.0	999.2	1057.7	1159.5	1272.2	1300.4	1302.6	1181.2
27.5°	1020.8	1025.2	1038.2	1042.5	1055.5	1090.2	1196.4	1319.9	1384.9	1376.3	1244.1
30°	1094.5	1096.7	1105.4	1101.0	1103.2	1146.5	1231.1	1374.1	1463.0	1465.1	1311.3
32.5°	1181.2	1198.6	1202.9	1174.7	1179.0	1189.9	1285.2	1439.1	1560.5	1545.3	1369.8
35°	1309.1	1315.6	1302.6	1289.6	1257.1	1250.6	1341.6	1504.2	1645.0	1662.4	1456.5
37.5°	1467.3	1484.6	1467.3	1398.0	1363.3	1337.3	1411.0	1575.7	1746.9	1805.4	1543.2
40°	1614.7	1612.5	1595.2	1532.3	1471.6	1452.1	1510.7	1675.4	1905.1	1961.5	1668.9
42.5°	1733.9	1727.4	1716.6	1668.9	1612.5	1580.0	1625.5	1779.4	2037.3	2145.7	1814.1
45°	1837.9	1829.3	1831.4	1777.2	1723.1	1740.4	1740.4	1898.6	2193.4	2327.8	1981.0
47.5°	1935.5	1939.8	1933.3	1892.1	1850.9	1896.4	1872.6	2035.2	2347.3	2496.8	2121.9
50°	2048.2	2056.8	2035.2	2009.1	1972.3	2017.8	1987.5	2163.0	2447.0	2650.7	2290.9
52.5°	2154.4	2163.0	2182.5	2150.0	2113.2	2150.0	2080.7	2282.2	2579.2	2800.2	2420.9
55°	2180.4	2176.0	2284.4	2319.1	2338.6	2228.1	2163.0	2384.1	2683.2	2895.6	2568.3
57.5°	2061.2	2072.0	2219.4	2319.1	2527.1	2431.8	2256.2	2503.3	2791.6	3021.3	2704.9
60°	1764.2	1770.7	1955.0	2191.2	2494.6	2622.5	2507.6	2657.2	2910.8	3127.5	2858.8
62.5°	1179.0	1228.9	1458.6	1829.3	2264.9	2674.5	2908.6	2917.3	3056.0	3261.9	3069.0
65°	622.0	645.9	825.8	1124.9	1716.6	2494.6	3285.7	3433.1	3346.4	3509.0	3372.4
67.5°	407.5	416.1	513.7	682.7	990.5	1820.6	3329.1	4328.2	3929.4	3979.3	3857.9
70°	303.4	307.8	379.3	505.0	613.4	973.1	2728.7	4746.5	4744.4	4612.2	4434.4
72.5°	223.2	229.7	279.6	385.8	472.5	524.5	1534.5	4245.9	4993.6	4926.4	4469.1
75°	175.6	179.9	205.9	299.1	381.5	344.6	778.1	3144.8	4235.0	4558.0	4089.8
77.5°	143.0	147.4	162.6	216.7	305.6	266.6	372.8	2028.7	2871.8	3281.4	3129.7
80°	119.2	119.2	130.0	153.9	236.2	201.6	221.1	1140.0	1547.5	1707.9	1419.6
82.5°	101.9	99.7	108.4	112.7	175.6	145.2	143.0	515.8	680.6	721.7	533.2
85°	65.0	67.2	101.9	97.5	114.9	99.7	80.2	244.9	320.8	327.3	199.4
87.5°	26.0	26.0	43.3	54.2	65.0	60.7	39.0	110.5	140.9	140.9	56.4
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°	767.2	767.2	767.2	767.2	767.2	767.2	767.2	767.2	767.2	767.2	767.2
2.5°	773.7	765.1	758.6	754.2	743.4	732.6	734.7	732.6	723.9	719.6	719.6
5°	782.4	773.7	762.9	745.6	734.7	721.7	726.1	717.4	708.7	715.2	704.4
7.5°	804.1	788.9	773.7	747.7	730.4	710.9	702.2	697.9	691.4	687.1	687.1
10°	834.4	812.8	784.6	745.6	717.4	687.1	682.7	674.1	667.5	667.5	665.4
12.5°	864.8	840.9	793.3	730.4	682.7	661.0	658.9	661.0	665.4	667.5	669.7
15°	903.8	864.8	791.1	702.2	654.5	645.9	656.7	665.4	674.1	682.7	680.6
17.5°	940.6	895.1	771.6	667.5	630.7	632.9	652.4	669.7	687.1	695.7	697.9
20°	990.5	923.3	743.4	626.4	606.9	626.4	652.4	674.1	693.6	704.4	706.6
22.5°	1046.8	955.8	706.6	589.5	587.4	606.9	632.9	665.4	687.1	706.6	704.4
25°	1096.7	977.5	658.9	559.2	563.5	576.5	606.9	641.5	663.2	684.9	678.4
27.5°	1129.2	981.8	609.0	537.5	537.5	550.5	578.7	600.4	619.9	637.2	639.4
30°	1166.0	973.1	552.7	509.3	509.3	526.7	537.5	550.5	561.3	565.7	570.0
32.5°	1209.4	953.6	518.0	487.7	487.7	500.7	507.2	502.8	500.7	489.8	496.3
35°	1250.6	925.5	479.0	459.5	468.2	474.7	472.5	459.5	446.5	427.0	420.5
37.5°	1300.4	897.3	444.3	429.1	444.3	446.5	446.5	431.3	414.0	390.1	390.1
40°	1376.3	875.6	416.1	409.6	424.8	422.6	411.8	401.0	407.5	394.5	394.5
42.5°	1456.5	866.9	390.1	392.3	398.8	401.0	390.1	377.1	403.1	388.0	390.1
45°	1556.2	873.4	372.8	370.6	385.8	383.6	377.1	366.3	375.0	335.9	325.1
47.5°	1649.4	886.5	364.1	355.4	372.8	377.1	368.5	344.6	331.6	307.8	303.4
50°	1733.9	914.6	355.4	338.1	355.4	364.1	348.9	322.9	307.8	292.6	292.6
52.5°	1814.1	955.8	351.1	318.6	333.8	344.6	335.9	309.9	292.6	286.1	279.6
55°	1896.4	992.7	344.6	305.6	309.9	331.6	329.4	294.8	277.4	277.4	275.3
57.5°	2013.5	1042.5	335.9	283.9	292.6	316.4	316.4	288.3	268.8	270.9	273.1
60°	2132.7	1101.0	327.3	262.3	268.8	301.3	305.6	279.6	262.3	264.4	262.3
62.5°	2323.4	1209.4	309.9	236.2	249.2	281.8	292.6	268.8	253.6	257.9	257.9
65°	2611.7	1395.8	273.1	214.6	229.7	264.4	279.6	257.9	240.6	253.6	249.2
67.5°	3075.5	1651.5	229.7	197.2	216.7	247.1	264.4	244.9	229.7	249.2	242.7
70°	3491.6	1777.2	197.2	182.1	197.2	227.6	247.1	231.9	216.7	236.2	227.6
72.5°	3322.6	1393.6	171.2	164.7	179.9	205.9	229.7	214.6	199.4	210.2	201.6
75°	2867.4	1109.7	149.5	147.4	160.4	186.4	210.2	199.4	184.2	188.6	184.2
77.5°	2173.9	916.8	127.9	125.7	136.5	166.9	188.6	179.9	164.7	162.6	162.6
80°	971.0	450.8	106.2	106.2	112.7	143.0	160.4	156.1	140.9	138.7	136.5
82.5°	318.6	171.2	86.7	82.4	91.0	119.2	143.0	138.7	123.5	119.2	114.9
85°	127.9	82.4	62.9	62.9	71.5	99.7	127.9	119.2	99.7	88.9	88.9
87.5°	43.3	34.7	32.5	32.5	45.5	67.2	95.4	80.2	71.5	62.9	65.0
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)