

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: P672293

Luminaire Tested: **CCP-SA-2A-827-U-T3R**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672293  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2A-827-U-T3R  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ T3R distribution lens  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4088.1 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G1

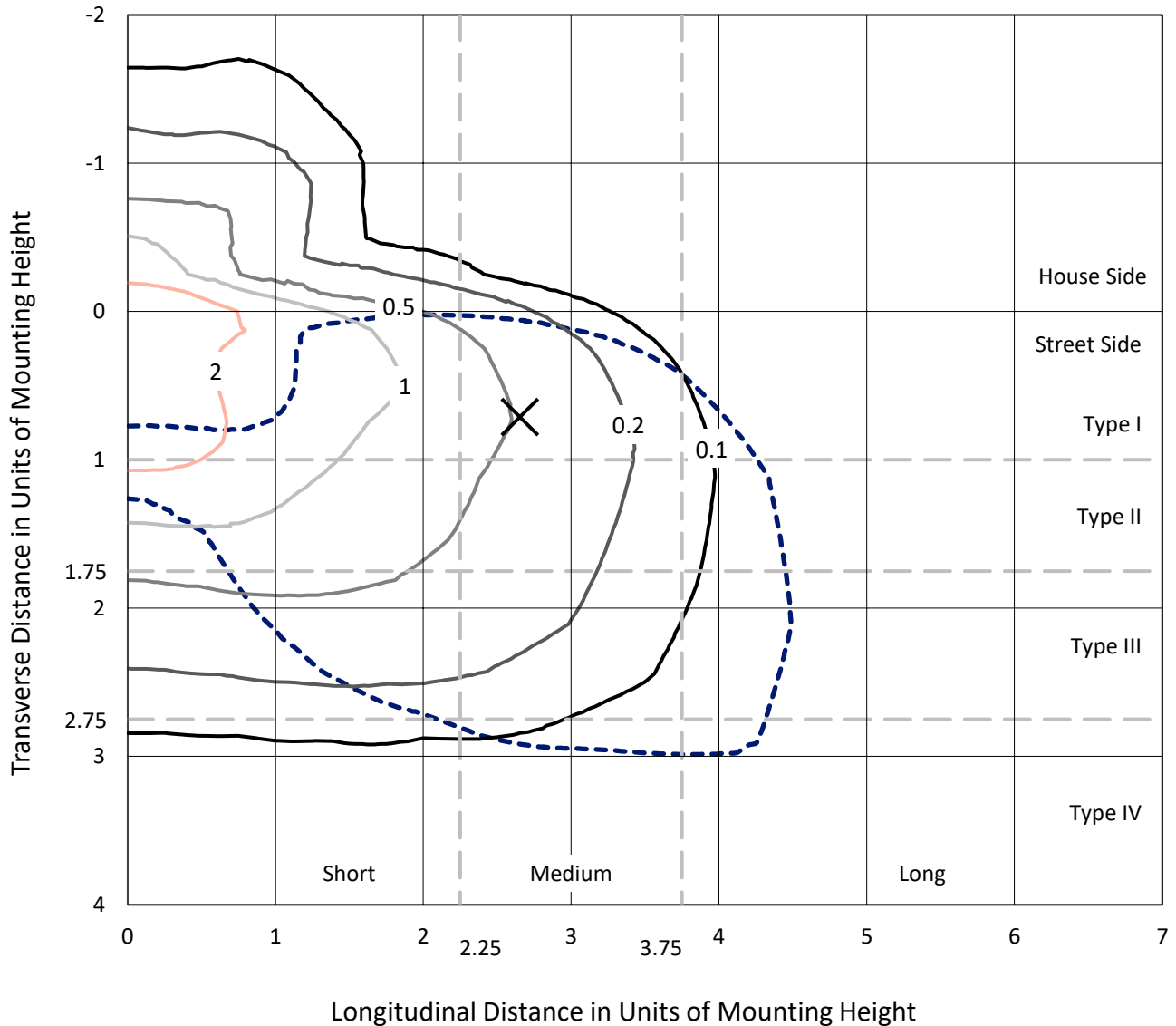
Input Watts (W): 36.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

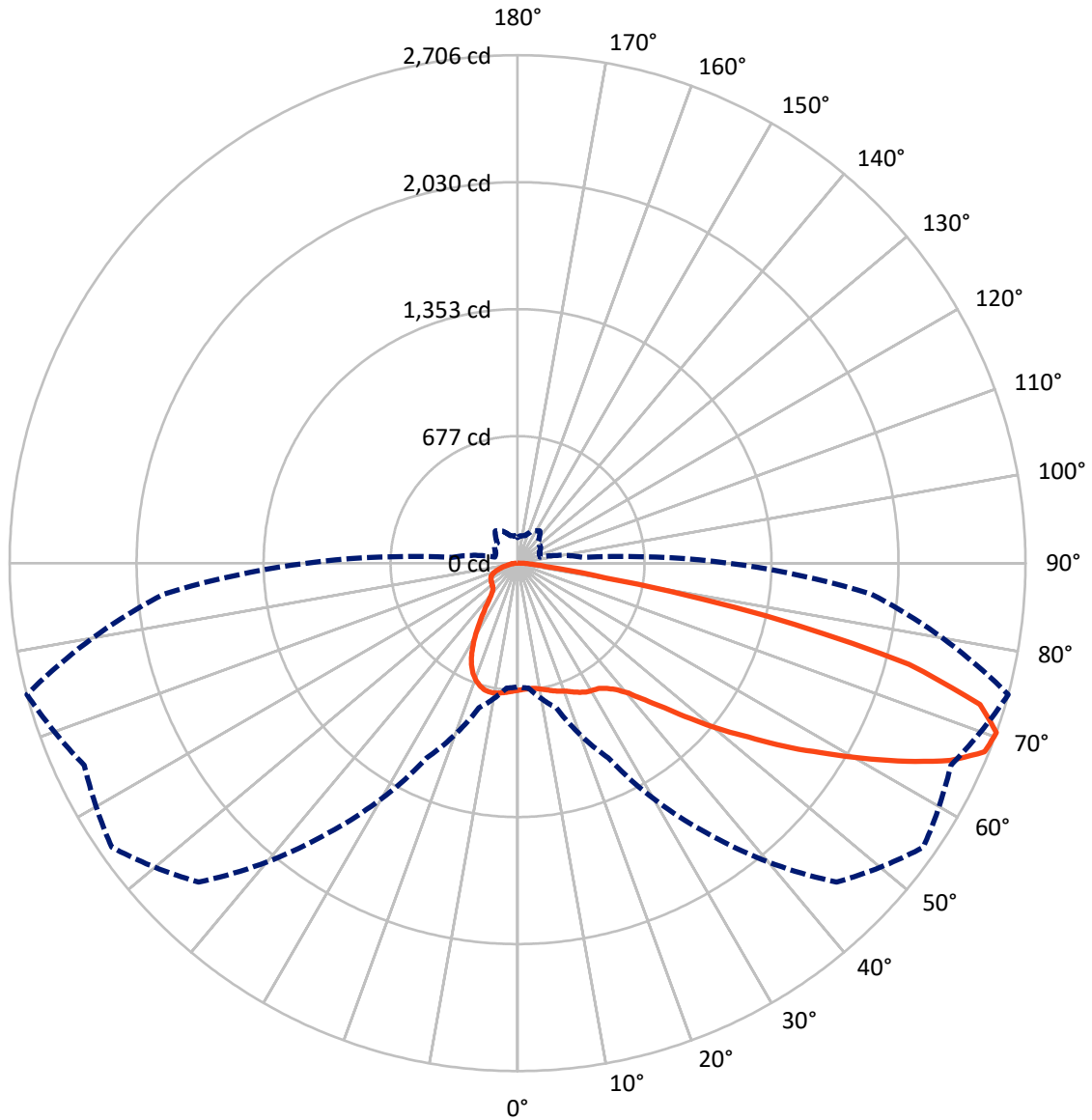
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.1 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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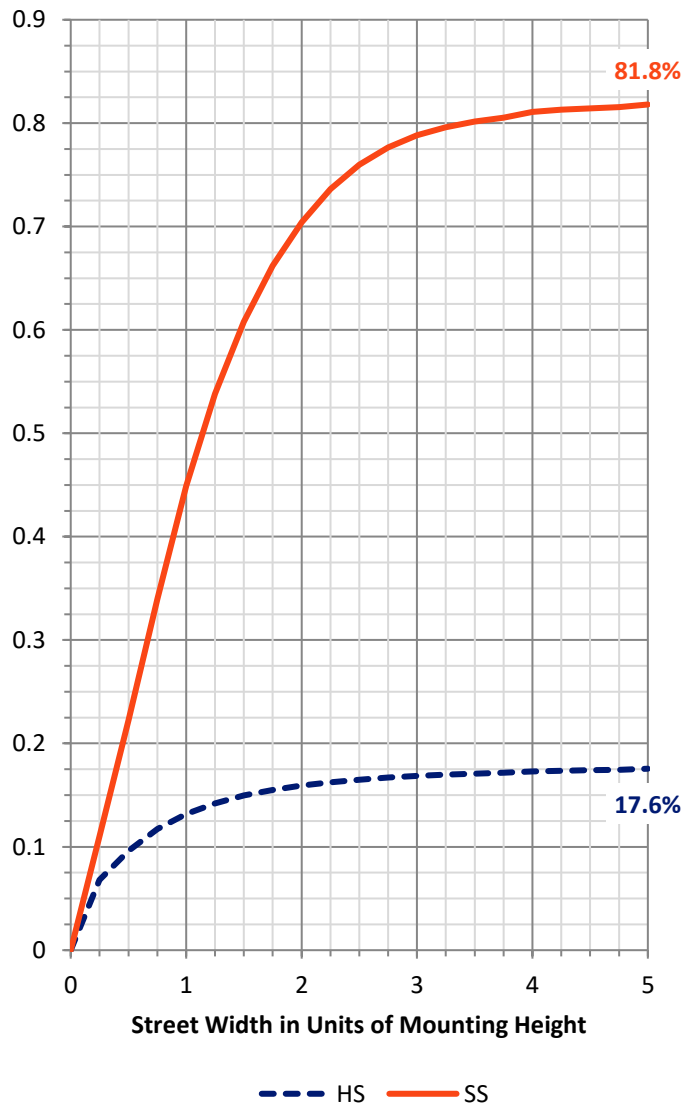
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	727.3	0.0	727.3
	% Fixture	17.8	0.0	17.8
<b>Street Side</b>	Lumens	3360.7	0.0	3360.7
	% Fixture	82.2	0.0	82.2
<b>Total</b>	Lumens	4088.1	0.0	4088.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.8	1.5
10°-20°	162.3	4.0
20°-30°	273.5	6.7
30°-40°	415.4	10.2
40°-50°	595.2	14.6
50°-60°	789.1	19.3
60°-70°	987.5	24.2
70°-80°	721.1	17.6
80°-90°	83.2	2.0
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°	4088.1	100.0
0°-180°	4088.1	100.0



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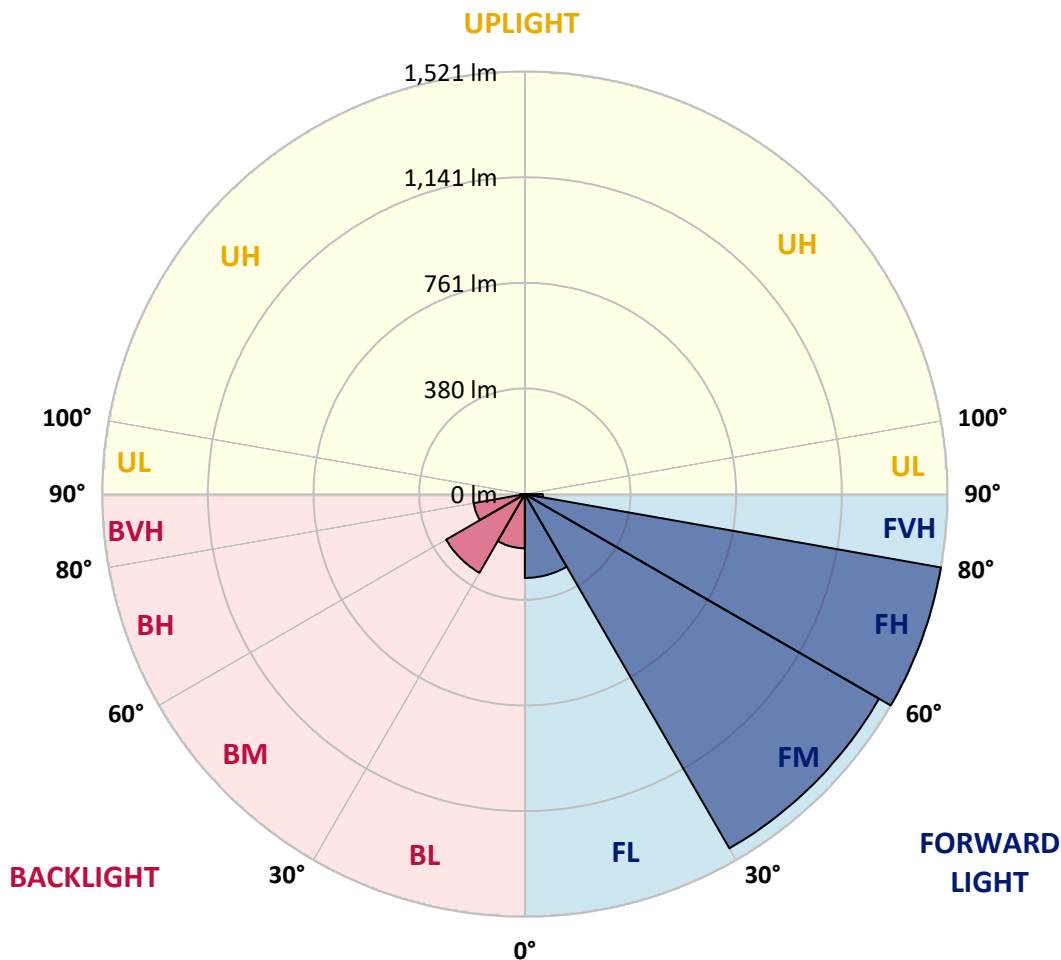
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	301.7	7.4			
FM (30°-60°)	1472.7	36.0			
FH (60°-80°)	1521.5	37.2			G1/1800
FVH (80°-90°)	64.9	1.6			G1/100
BL (0°-30°)	195.0	4.8	B1/500		
BM (30°-60°)	327.0	8.0	B1/1000		
BH (60°-80°)	187.1	4.6	B1/500		G1/500
BVH (80°-90°)	18.3	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	677.2	677.2	677.2	677.2	677.2	677.2	677.2	677.2	677.2	677.2	677.2
2.5°	640.1	643.6	646.9	650.1	652.8	659.8	661.3	668.9	671.0	672.8	675.1
5°	604.2	606.9	610.1	615.4	621.0	633.6	642.5	659.2	668.6	671.6	679.8
7.5°	584.8	585.7	590.1	594.5	601.0	613.3	625.4	651.6	670.4	673.6	691.3
10°	570.7	571.9	576.0	582.2	588.6	600.1	615.1	646.3	676.9	681.9	706.9
12.5°	565.7	565.1	569.8	573.9	583.0	597.4	613.0	646.6	685.7	692.8	729.5
15°	585.7	581.9	584.8	583.3	586.3	600.4	618.9	653.0	696.6	705.4	753.1
17.5°	629.8	626.6	624.5	611.9	603.6	611.6	629.2	662.2	708.1	717.5	774.2
20°	695.7	686.6	678.9	657.8	634.8	632.2	644.5	671.3	718.9	728.1	796.6
22.5°	770.7	763.4	751.0	713.9	678.3	660.7	663.9	688.1	734.8	744.8	822.2
25°	865.4	865.1	839.8	789.8	736.0	700.4	693.6	714.8	752.8	762.5	843.4
27.5°	973.4	966.0	936.0	871.6	804.0	749.5	733.6	742.2	767.2	777.2	860.4
30°	1065.8	1066.6	1036.0	965.7	876.3	797.5	767.5	761.9	776.6	786.6	876.3
32.5°	1164.6	1159.6	1131.7	1059.3	954.6	849.0	789.2	776.0	786.3	795.7	898.4
35°	1257.6	1252.0	1227.8	1149.9	1040.8	905.7	818.7	798.1	809.2	819.5	925.4
37.5°	1346.1	1347.0	1319.6	1245.2	1124.3	972.8	862.2	831.3	843.4	854.8	966.6
40°	1423.5	1419.1	1397.9	1330.8	1211.1	1041.0	911.3	876.6	900.1	910.7	1018.7
42.5°	1448.2	1447.9	1456.1	1414.9	1302.3	1122.2	972.5	947.2	980.5	996.3	1082.5
45°	1426.7	1433.2	1480.8	1479.6	1393.5	1215.5	1056.1	1033.1	1081.1	1099.0	1160.5
47.5°	1405.5	1415.2	1479.9	1516.7	1475.2	1318.2	1158.7	1141.7	1210.5	1236.4	1241.4
50°	1374.6	1383.8	1460.8	1522.0	1525.2	1422.0	1291.7	1270.2	1358.7	1385.2	1329.3
52.5°	1340.2	1347.3	1427.0	1518.2	1549.1	1503.2	1422.0	1415.8	1517.6	1539.1	1418.8
55°	1150.2	1180.2	1377.3	1509.9	1565.5	1565.3	1548.8	1569.1	1690.9	1722.9	1518.5
57.5°	1041.0	1056.9	1237.3	1505.2	1596.4	1622.6	1679.7	1723.2	1875.9	1904.7	1628.5
60°	1005.5	1019.6	1167.0	1499.7	1657.9	1712.3	1807.6	1878.2	2074.7	2110.0	1751.5
62.5°	973.1	990.2	1138.4	1455.2	1732.3	1854.4	1960.3	2045.9	2284.5	2326.3	1873.8
65°	907.2	919.3	1086.1	1417.9	1802.9	2057.1	2180.6	2230.7	2487.8	2534.8	1955.0
67.5°	793.4	804.8	968.1	1332.0	1848.8	2268.0	2421.6	2421.9	2644.8	2683.4	1972.1
70°	659.5	668.3	798.1	1144.9	1753.2	2403.3	2639.0	2546.9	2689.3	2706.0	1890.9
72.5°	471.5	479.2	584.5	846.3	1437.6	2293.6	2688.4	2541.6	2581.6	2576.3	1660.0
75°	290.6	305.3	358.0	516.6	893.4	1804.7	2419.5	2303.0	2167.7	2153.0	1249.9
77.5°	189.4	197.1	242.1	304.8	394.2	1036.0	1837.6	1726.7	1368.7	1351.7	671.9
80°	113.8	126.5	158.6	191.5	178.6	396.2	1049.3	857.8	483.6	478.3	206.5
82.5°	61.2	72.7	111.8	118.5	100.3	140.0	380.1	278.9	154.7	153.0	77.4
85°	48.5	54.1	80.3	75.0	56.8	70.9	148.3	116.2	79.4	77.7	29.1
87.5°	29.4	37.1	60.9	50.6	28.2	25.6	68.0	55.0	37.4	34.7	11.5
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°	677.2	677.2	677.2	677.2	677.2	677.2	677.2	677.2	677.2	677.2	677.2
2.5°	679.5	681.0	682.5	679.5	680.7	679.2	679.2	679.2	675.4	674.2	677.8
5°	686.0	688.1	689.2	680.1	674.5	666.3	659.5	649.2	643.3	639.5	639.5
7.5°	699.2	701.6	696.3	676.0	656.3	634.2	611.6	592.7	579.2	573.3	575.1
10°	718.6	719.5	701.9	664.5	622.5	581.6	549.5	524.5	507.7	499.2	498.0
12.5°	741.3	737.5	703.1	639.2	576.9	521.8	482.7	450.4	428.9	420.7	416.5
15°	763.7	754.5	698.6	608.9	525.1	458.9	408.9	378.3	365.1	361.2	359.8
17.5°	783.7	766.6	683.9	565.4	465.1	385.4	348.6	337.7	339.2	342.7	344.2
20°	801.9	775.7	662.8	513.6	390.1	328.0	318.9	328.9	337.1	342.4	343.3
22.5°	821.9	784.5	633.3	450.7	328.6	301.5	312.4	323.9	332.1	337.4	338.3
25°	837.2	784.2	591.9	375.9	289.8	294.5	307.4	317.7	323.9	327.7	327.4
27.5°	846.9	777.2	537.4	314.5	274.5	289.5	301.8	308.6	312.1	315.1	314.8
30°	849.8	763.7	468.9	269.2	267.4	284.8	294.2	298.3	300.9	303.9	303.9
32.5°	855.7	742.8	393.3	243.9	262.1	280.0	285.6	288.9	286.8	279.5	278.0
35°	862.2	719.5	321.8	232.1	257.1	276.8	282.1	273.6	251.2	248.3	247.1
37.5°	874.8	698.1	261.2	223.9	255.9	278.6	283.0	248.9	230.0	220.9	219.4
40°	896.3	676.6	220.6	218.0	257.4	286.2	271.2	237.1	205.9	188.6	185.6
42.5°	924.6	650.4	197.7	215.0	261.5	298.6	267.1	220.3	186.2	174.4	172.7
45°	957.2	615.7	186.8	214.4	266.5	304.8	268.3	206.8	177.4	168.3	167.7
47.5°	991.0	581.6	182.1	213.9	272.7	302.1	252.1	202.7	173.9	171.2	173.0
50°	1027.5	542.7	178.3	212.4	277.7	302.1	243.3	201.8	175.0	180.9	186.8
52.5°	1061.6	510.1	173.9	208.0	279.8	296.8	240.6	205.0	176.8	175.3	177.1
55°	1103.1	493.3	171.5	201.8	275.9	280.6	237.4	213.9	178.3	166.2	166.2
57.5°	1150.5	489.8	168.0	193.6	263.6	258.3	237.1	219.2	174.4	163.3	161.2
60°	1207.5	497.4	163.6	183.3	248.6	240.9	235.0	219.2	168.3	158.3	159.1
62.5°	1253.7	496.5	160.9	174.1	228.6	223.0	231.2	216.2	165.9	157.7	157.4
65°	1264.6	477.7	153.3	162.4	203.9	201.2	227.1	208.9	162.7	154.4	152.1
67.5°	1227.8	435.1	141.8	146.8	177.7	178.0	219.7	199.1	158.3	152.7	148.8
70°	1123.4	351.8	124.7	128.0	149.4	153.3	208.9	187.7	150.9	145.0	135.9
72.5°	940.2	253.0	105.0	105.9	118.8	128.8	190.0	172.1	140.0	126.2	116.5
75°	696.0	168.0	85.6	84.4	89.1	104.7	162.4	154.7	125.9	104.7	99.7
77.5°	368.0	99.4	65.9	66.2	63.2	80.3	128.8	134.4	111.8	88.2	83.2
80°	125.9	59.7	47.4	49.4	44.7	57.4	95.6	111.8	95.6	73.5	65.0
82.5°	57.7	36.5	33.8	35.3	32.1	38.8	65.6	84.7	76.2	53.5	43.2
85°	29.1	21.8	21.8	23.8	21.2	20.0	36.2	56.2	55.9	36.8	31.8
87.5°	12.1	10.6	10.0	11.5	10.0	7.6	10.3	20.3	29.4	22.1	14.1
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)