

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: P672304

Luminaire Tested: **CCP-SA-2A-830-U-T3R**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672304  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2A-830-U-T3R  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ T3R distribution lens  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

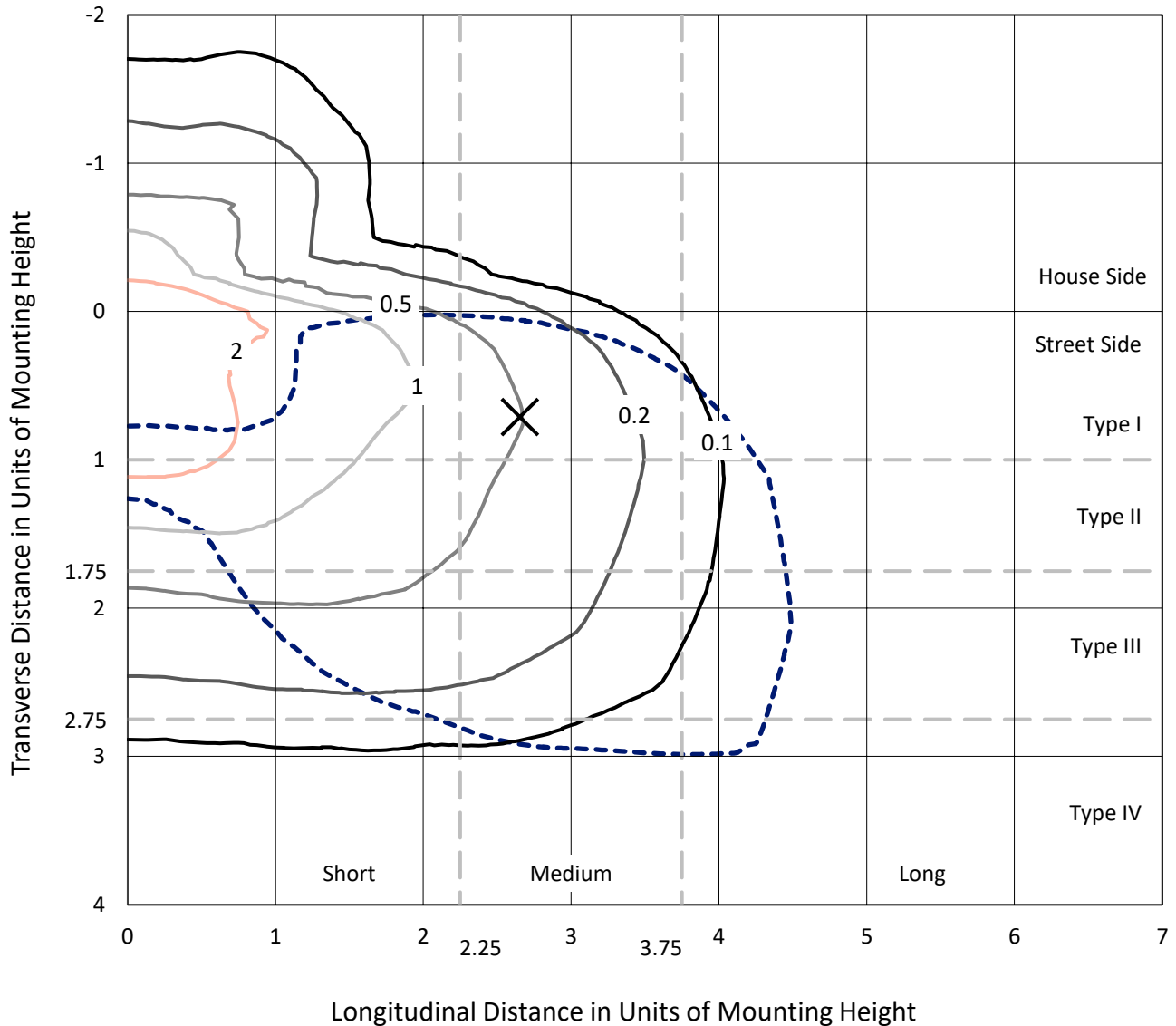
Lumens per Lamp: N/A  
Luminaire Lumens: 4419 lumens  
Efficiency: N/A  
Efficacy: 122.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G1

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

REPORT NUMBER: P672304  
 CATALOG NUMBER: CCP-SA-2A-830-U-T3R

### Iso-Footcandle Lines of Horizontal Illumination

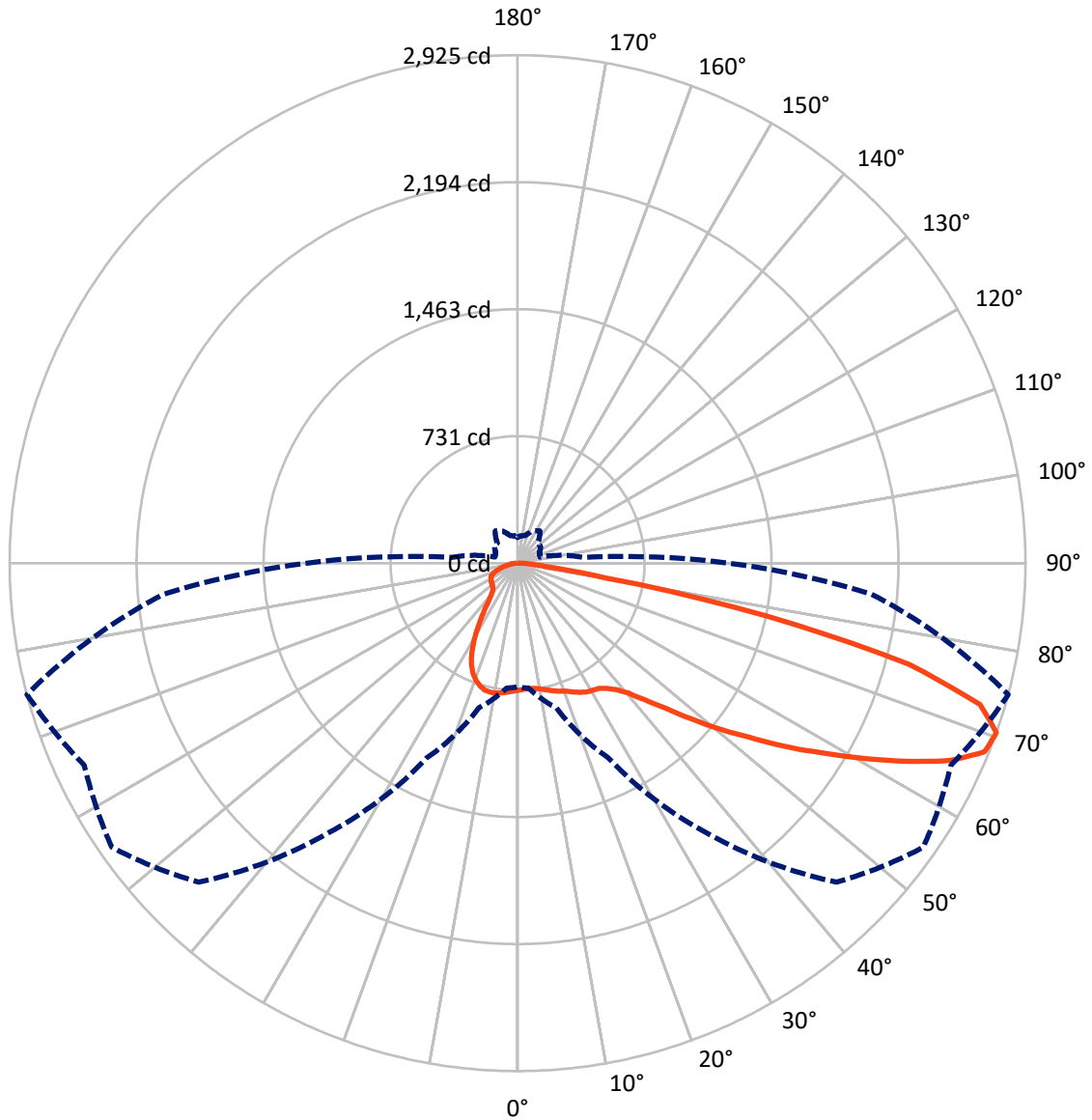
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.4 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P672304  
CATALOG NUMBER: CCP-SA-2A-830-U-T3R

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P672304

CATALOG NUMBER: CCP-SA-2A-830-U-T3R

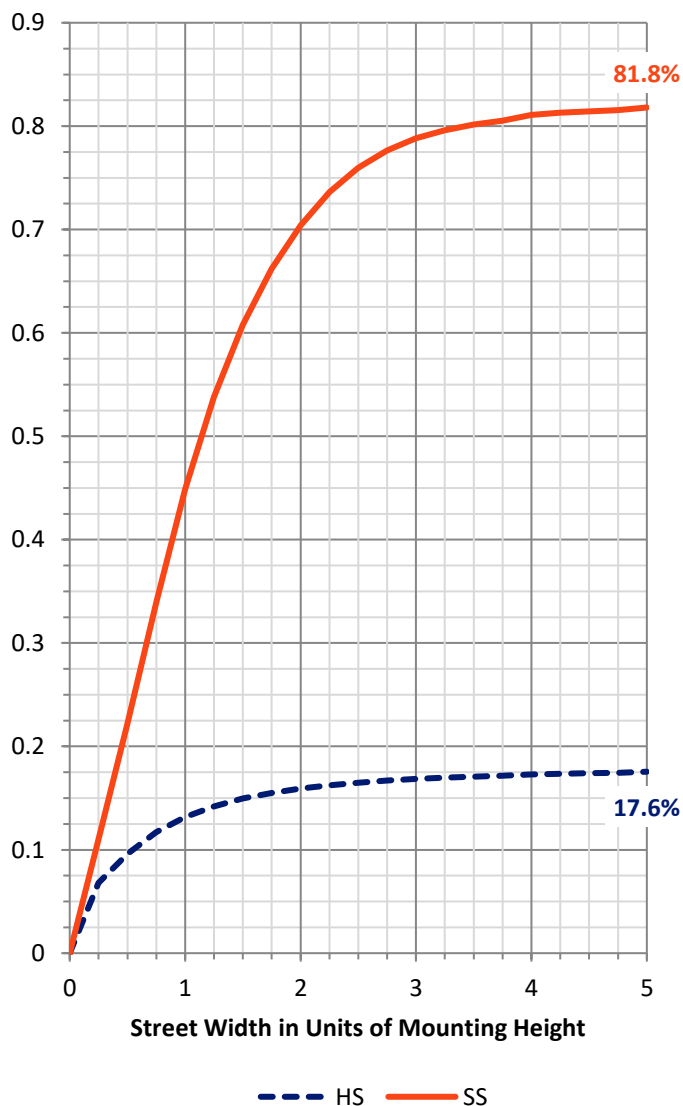
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	786.2	0.0	786.2
	% Fixture	17.8	0.0	17.8
<b>Street Side</b>	Lumens	3632.8	0.0	3632.8
	% Fixture	82.2	0.0	82.2
<b>Total</b>	Lumens	4419.0	0.0	4419.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.7	1.5
10°-20°	175.5	4.0
20°-30°	295.7	6.7
30°-40°	449.1	10.2
40°-50°	643.3	14.6
50°-60°	852.9	19.3
60°-70°	1067.4	24.2
70°-80°	779.5	17.6
80°-90°	89.9	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°	4419.0	100.0
0°-180°	4419.0	100.0



REPORT NUMBER: P672304

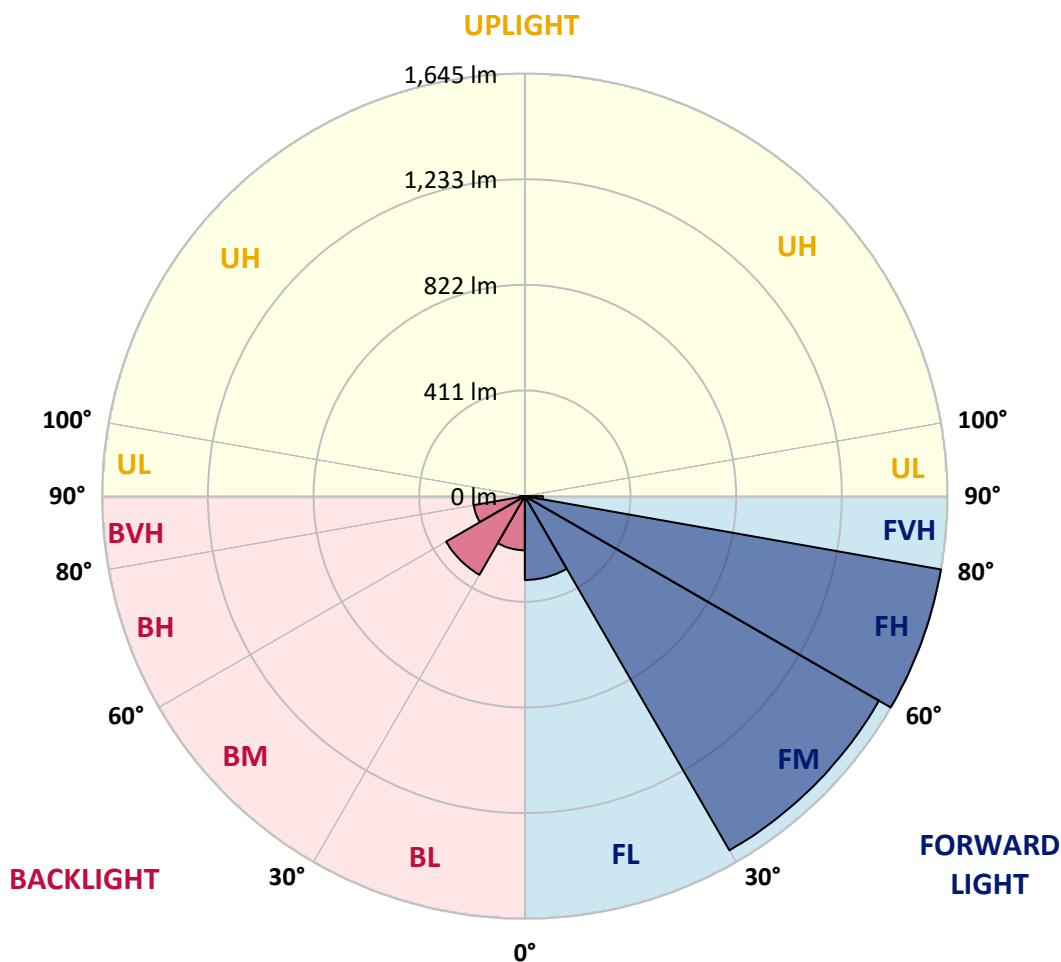
CATALOG NUMBER: CCP-SA-2A-830-U-T3R

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	326.1	7.4			
FM (30°-60°)	1591.9	36.0			
FH (60°-80°)	1644.6	37.2			G1/1800
FVH (80°-90°)	70.1	1.6			G1/100
BL (0°-30°)	210.7	4.8	B1/500		
BM (30°-60°)	353.5	8.0	B1/1000		
BH (60°-80°)	202.2	4.6	B1/500		G1/500
BVH (80°-90°)	19.7	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





REPORT NUMBER: P672304  
 CATALOG NUMBER: CCP-SA-2A-830-U-T3R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0
2.5°	691.9	695.7	699.2	702.7	705.6	713.2	714.8	723.1	725.3	727.2	729.8
5°	653.1	656.0	659.5	665.2	671.2	684.9	694.5	712.6	722.8	725.9	734.8
7.5°	632.1	633.1	637.9	642.6	649.6	663.0	676.0	704.3	724.7	728.2	747.2
10°	616.9	618.1	622.6	629.3	636.3	648.7	664.9	698.6	731.7	737.1	764.1
12.5°	611.5	610.8	615.9	620.4	630.2	645.8	662.7	698.9	741.2	748.8	788.6
15°	633.1	629.0	632.1	630.5	633.7	649.0	669.0	705.9	753.0	762.5	814.0
17.5°	680.8	677.3	675.1	661.4	652.5	661.1	680.1	715.8	765.4	775.5	836.9
20°	752.0	742.2	733.9	711.0	686.2	683.3	696.7	725.6	777.1	787.0	861.1
22.5°	833.1	825.1	811.8	771.7	733.2	714.2	717.7	743.7	794.3	805.1	888.7
25°	935.5	935.2	907.8	853.8	795.6	757.1	749.8	772.7	813.7	824.2	911.6
27.5°	1052.2	1044.2	1011.8	942.2	869.0	810.2	793.0	802.3	829.3	840.1	930.1
30°	1152.0	1153.0	1119.9	1043.9	947.2	862.0	829.6	823.6	839.5	850.3	947.2
32.5°	1258.9	1253.5	1223.2	1145.0	1031.8	917.7	853.1	838.8	849.9	860.1	971.1
35°	1359.3	1353.3	1327.2	1243.0	1125.0	979.0	884.9	862.7	874.7	885.9	1000.3
37.5°	1455.1	1456.0	1426.4	1346.0	1215.3	1051.5	932.0	898.6	911.6	924.0	1044.9
40°	1538.7	1533.9	1511.0	1438.5	1309.1	1125.3	985.1	947.6	973.0	984.4	1101.1
42.5°	1565.4	1565.1	1574.0	1529.5	1407.7	1213.1	1051.2	1023.9	1059.8	1077.0	1170.1
45°	1542.2	1549.2	1600.7	1599.4	1506.2	1313.9	1141.5	1116.7	1168.6	1188.0	1254.4
47.5°	1519.3	1529.8	1599.7	1639.5	1594.6	1424.8	1252.5	1234.1	1308.5	1336.4	1341.9
50°	1485.9	1495.8	1579.1	1645.2	1648.7	1537.1	1396.2	1373.0	1468.7	1497.3	1436.9
52.5°	1448.7	1456.3	1542.5	1641.1	1674.5	1624.9	1537.1	1530.4	1640.4	1663.6	1533.6
55°	1243.3	1275.7	1488.8	1632.2	1692.3	1691.9	1674.1	1696.1	1827.7	1862.4	1641.4
57.5°	1125.3	1142.5	1337.4	1627.1	1725.6	1753.9	1815.6	1862.7	2027.7	2058.9	1760.3
60°	1086.8	1102.1	1261.4	1621.0	1792.1	1850.9	1954.0	2030.3	2242.7	2280.8	1893.2
62.5°	1051.9	1070.3	1230.6	1573.0	1872.6	2004.5	2119.0	2211.5	2469.4	2514.5	2025.5
65°	980.6	993.7	1174.0	1532.6	1948.9	2223.6	2357.1	2411.2	2689.1	2740.0	2113.3
67.5°	857.6	870.0	1046.5	1439.8	1998.5	2451.6	2617.6	2617.9	2858.9	2900.6	2131.7
70°	712.9	722.4	862.7	1237.6	1895.1	2597.9	2852.6	2753.0	2906.9	2925.0	2043.9
72.5°	509.7	518.0	631.8	914.8	1553.9	2479.2	2906.0	2747.3	2790.5	2784.8	1794.3
75°	314.2	330.1	387.0	558.4	965.7	1950.8	2615.3	2489.4	2343.2	2327.3	1351.1
77.5°	204.8	213.0	261.7	329.4	426.1	1119.9	1986.4	1866.5	1479.5	1461.1	726.3
80°	123.1	136.7	171.4	207.0	193.0	428.3	1134.2	927.2	522.8	517.0	223.2
82.5°	66.1	78.5	120.8	128.1	108.4	151.4	410.8	301.4	167.3	165.3	83.6
85°	52.5	58.5	86.8	81.1	61.4	76.6	160.3	125.6	85.9	83.9	31.5
87.5°	31.8	40.1	65.8	54.7	30.5	27.7	73.5	59.5	40.4	37.5	12.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P672304  
 CATALOG NUMBER: CCP-SA-2A-830-U-T3R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0	732.0
2.5°	734.5	736.1	737.7	734.5	735.8	734.2	734.2	734.2	730.1	728.8	732.6
5°	741.5	743.7	745.0	735.2	729.1	720.2	712.9	701.8	695.4	691.3	691.3
7.5°	755.8	758.4	752.6	730.7	709.4	685.6	661.1	640.7	626.1	619.7	621.6
10°	776.8	777.8	758.7	718.3	672.8	628.6	594.0	566.9	548.8	539.6	538.3
12.5°	801.3	797.2	760.0	691.0	623.5	564.1	521.8	486.8	463.6	454.7	450.3
15°	825.5	815.6	755.2	658.2	567.6	496.0	442.0	408.9	394.6	390.5	388.9
17.5°	847.1	828.6	739.3	611.1	502.7	416.5	376.8	365.0	366.6	370.4	372.0
20°	866.8	838.5	716.4	555.2	421.6	354.5	344.7	355.5	364.4	370.1	371.1
22.5°	888.4	848.0	684.6	487.1	355.2	325.9	337.7	350.1	359.0	364.7	365.7
25°	905.0	847.7	639.8	406.4	313.2	318.3	332.3	343.4	350.1	354.2	353.9
27.5°	915.4	840.1	580.9	339.9	296.7	312.9	326.2	333.6	337.4	340.6	340.2
30°	918.6	825.5	506.9	290.9	289.0	307.8	318.0	322.4	325.3	328.5	328.5
32.5°	925.0	802.9	425.1	263.6	283.3	302.7	308.8	312.3	310.0	302.1	300.5
35°	932.0	777.8	347.9	250.9	277.9	299.2	304.9	295.7	271.6	268.4	267.1
37.5°	945.7	754.6	282.4	242.0	276.6	301.1	305.9	269.0	248.7	238.8	237.2
40°	968.9	731.3	238.5	235.6	278.2	309.4	293.2	256.3	222.6	203.8	200.6
42.5°	999.4	703.0	213.7	232.4	282.7	322.7	288.7	238.2	201.3	188.6	186.7
45°	1034.7	665.5	201.9	231.8	288.1	329.4	290.0	223.5	191.7	181.9	181.2
47.5°	1071.3	628.6	196.8	231.2	294.8	326.6	272.5	219.1	187.9	185.1	187.0
50°	1110.7	586.7	192.7	229.6	300.2	326.6	263.0	218.1	189.2	195.6	201.9
52.5°	1147.6	551.4	187.9	224.8	302.4	320.8	260.1	221.6	191.1	189.5	191.4
55°	1192.4	533.2	185.4	218.1	298.3	303.3	256.6	231.2	192.7	179.7	179.7
57.5°	1243.6	529.4	181.6	209.2	284.9	279.2	256.3	236.9	188.6	176.5	174.3
60°	1305.3	537.7	176.8	198.1	268.7	260.4	254.1	236.9	181.9	171.1	172.0
62.5°	1355.2	536.7	173.9	188.2	247.1	241.0	249.9	233.7	179.3	170.4	170.1
65°	1367.0	516.4	165.7	175.5	220.4	217.5	245.5	225.8	175.8	166.9	164.4
67.5°	1327.2	470.3	153.3	158.7	192.1	192.4	237.5	215.3	171.1	165.0	160.9
70°	1214.3	380.3	134.8	138.3	161.5	165.7	225.8	202.9	163.1	156.8	146.9
72.5°	1016.2	273.5	113.5	114.5	128.5	139.3	205.4	186.0	151.4	136.4	125.9
75°	752.3	181.6	92.5	91.3	96.3	113.2	175.5	167.3	136.1	113.2	107.8
77.5°	397.8	107.5	71.2	71.5	68.4	86.8	139.3	145.3	120.8	95.4	90.0
80°	136.1	64.5	51.2	53.4	48.3	62.0	103.3	120.8	103.3	79.5	70.3
82.5°	62.3	39.4	36.6	38.2	34.7	42.0	70.9	91.6	82.4	57.9	46.7
85°	31.5	23.5	23.5	25.8	22.9	21.6	39.1	60.7	60.4	39.7	34.3
87.5°	13.0	11.4	10.8	12.4	10.8	8.3	11.1	21.9	31.8	23.8	15.3
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)