

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: P672069

Luminaire Tested: **CCP-SA-1D-722-U-T2R**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672069  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1D-722-U-T2R  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ T2R distribution lens  
Light Source: (16) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

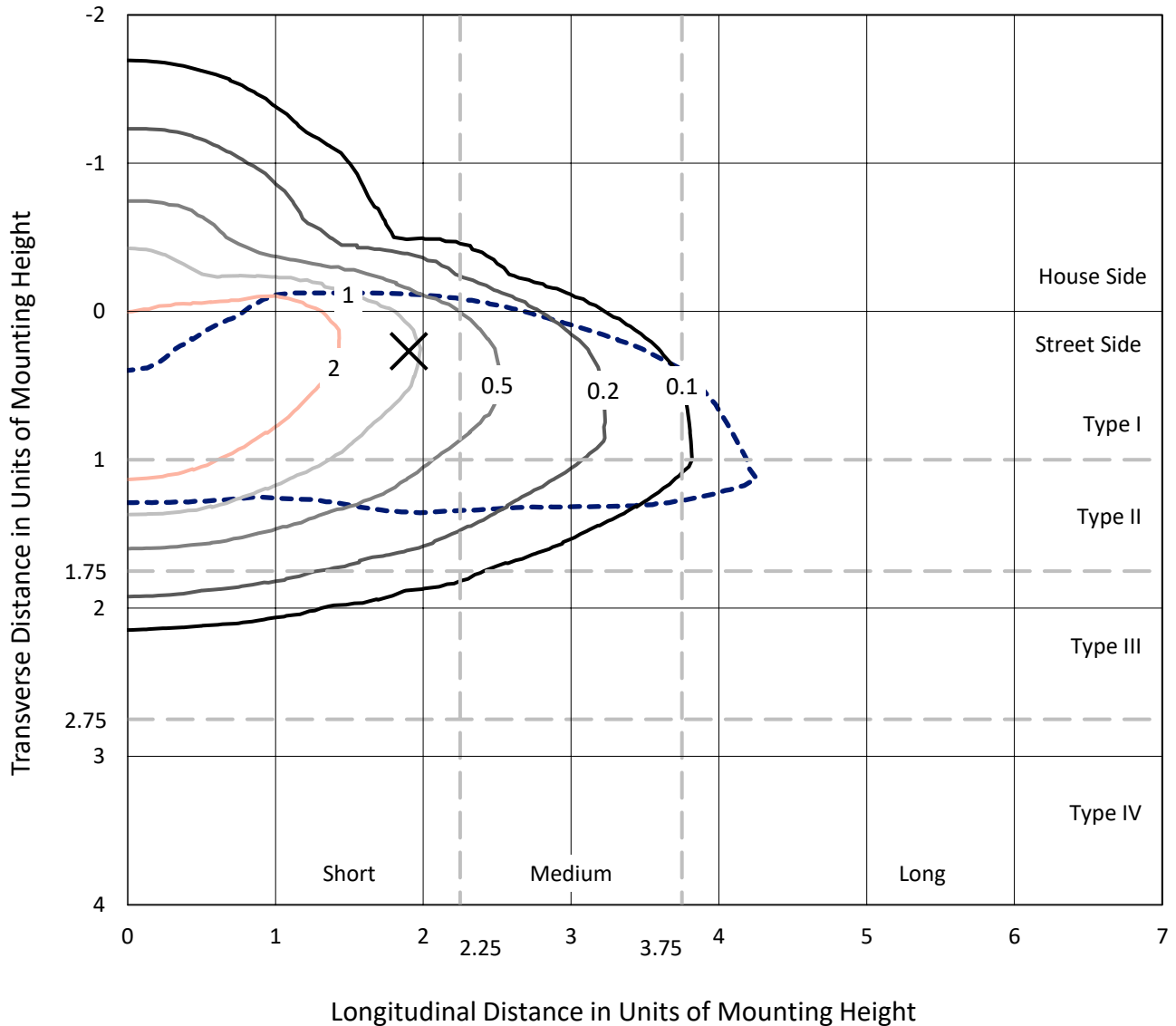
Lumens per Lamp: N/A  
Luminaire Lumens: 4172.7 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

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

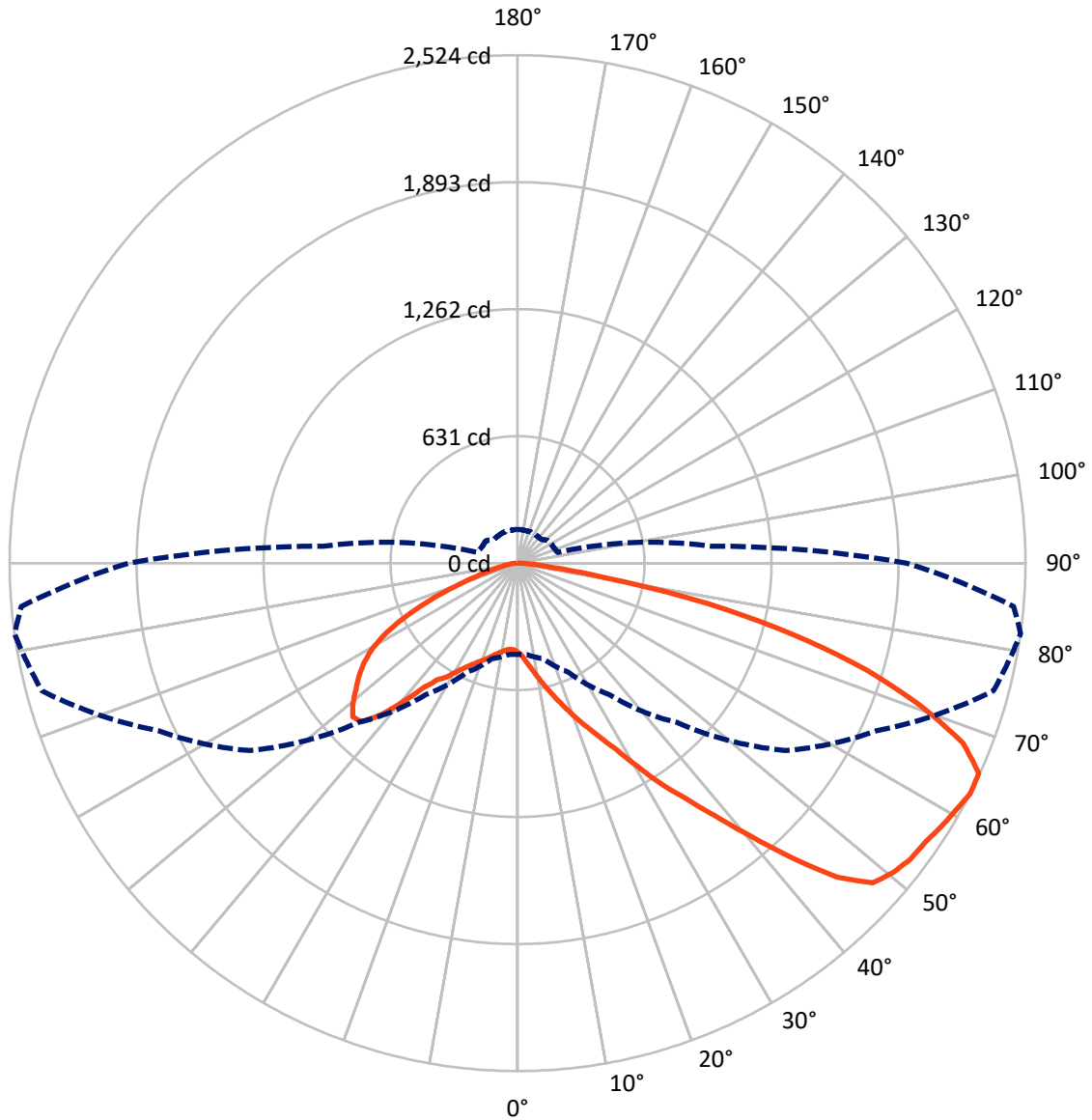
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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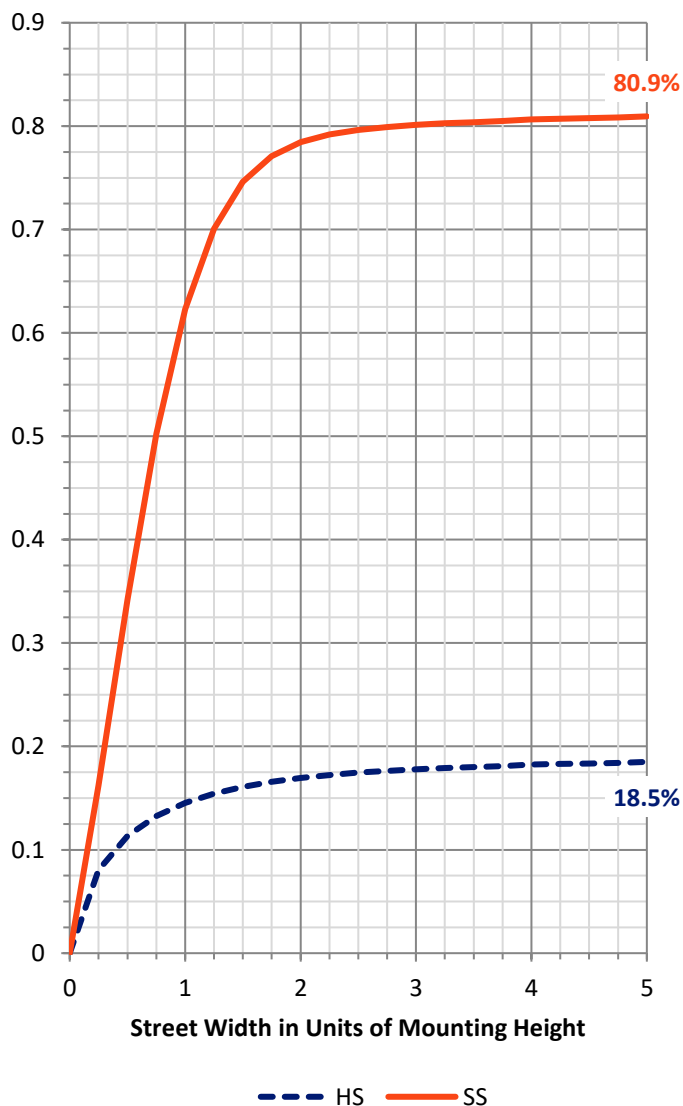
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	786.1	0.0	786.1
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	3386.6	0.0	3386.6
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	4172.7	0.0	4172.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.1	1.2
10°-20°	185.2	4.4
20°-30°	383.5	9.2
30°-40°	651.0	15.6
40°-50°	886.5	21.2
50°-60°	897.3	21.5
60°-70°	707.2	16.9
70°-80°	348.4	8.3
80°-90°	64.4	1.5
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°	4172.7	100.0
0°-180°	4172.7	100.0



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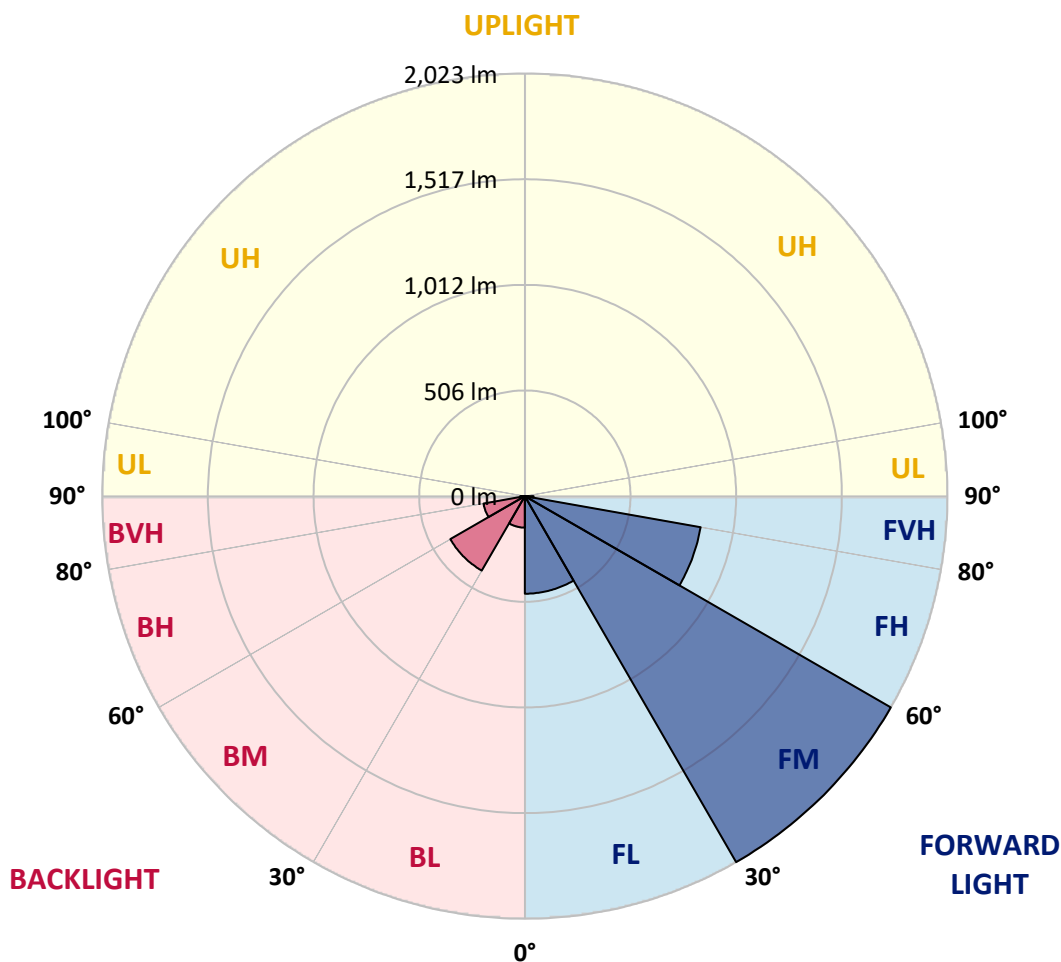
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	467.0	11.2			
FM (30°-60°)	2023.1	48.5			
FH (60°-80°)	854.6	20.5			G1/1800
FVH (80°-90°)	41.9	1.0			G1/100
BL (0°-30°)	150.8	3.6	B1/500		
BM (30°-60°)	411.8	9.9	B1/1000		
BH (60°-80°)	200.9	4.8	B1/500		G1/500
BVH (80°-90°)	22.6	0.5			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	590.9	581.9	577.1	571.7	556.7	547.1	529.1	508.0	483.7	463.0	459.1
5°	715.6	706.6	707.8	694.6	672.7	652.2	618.6	578.9	532.7	497.2	484.9
7.5°	803.7	793.7	796.1	790.7	773.0	750.5	707.8	656.7	589.1	536.6	516.7
10°	862.5	863.7	865.5	863.4	852.0	836.1	793.7	737.3	653.1	583.1	556.1
12.5°	929.2	932.5	931.9	932.8	926.8	914.2	872.8	819.6	721.3	633.3	598.2
15°	1014.3	1011.0	1013.7	1017.6	1011.0	997.1	960.5	897.4	792.8	689.2	645.6
17.5°	1107.4	1100.5	1107.7	1103.8	1099.0	1090.0	1049.7	982.4	866.7	749.6	698.5
20°	1187.9	1183.4	1187.3	1187.9	1188.8	1187.0	1145.5	1074.0	944.3	815.4	755.6
22.5°	1278.3	1276.2	1275.6	1275.9	1276.8	1278.9	1250.7	1174.4	1030.2	884.5	817.2
25°	1404.8	1402.7	1388.9	1373.6	1364.6	1371.2	1356.4	1288.3	1125.1	962.0	884.8
27.5°	1546.6	1543.3	1525.0	1486.2	1457.4	1462.2	1460.7	1413.8	1234.5	1050.9	965.9
30°	1693.8	1685.7	1660.5	1606.1	1560.7	1552.3	1556.5	1540.9	1372.1	1169.0	1078.8
32.5°	1825.1	1810.1	1776.8	1721.8	1667.7	1643.4	1644.0	1650.9	1521.7	1306.6	1197.2
35°	1905.3	1895.4	1870.5	1814.9	1754.5	1738.3	1733.8	1768.3	1659.0	1434.0	1303.3
37.5°	1948.6	1939.0	1912.2	1867.5	1821.8	1815.2	1823.6	1877.1	1814.9	1592.9	1447.5
40°	1940.8	1930.6	1913.1	1881.9	1851.9	1857.0	1894.2	1976.8	1985.3	1783.1	1653.0
42.5°	1876.5	1865.7	1864.2	1862.1	1848.0	1870.5	1937.8	2049.8	2141.8	2002.7	1901.7
45°	1762.9	1756.3	1764.1	1800.2	1817.9	1861.5	1958.2	2085.3	2279.4	2225.9	2137.0
47.5°	1619.0	1615.1	1632.8	1689.9	1747.3	1833.8	1971.7	2094.9	2374.0	2374.0	2291.1
50°	1458.0	1456.5	1479.9	1562.8	1652.7	1783.1	1970.2	2103.9	2415.5	2417.6	2345.5
52.5°	1233.3	1241.1	1303.6	1412.9	1534.9	1703.4	1949.2	2129.2	2438.9	2443.7	2381.8
55°	974.3	981.8	1076.1	1223.4	1379.6	1606.7	1886.4	2121.6	2443.4	2454.2	2402.6
57.5°	777.8	779.3	838.2	1013.1	1206.5	1482.9	1814.0	2071.8	2430.2	2477.4	2434.4
60°	608.7	613.5	652.8	791.3	1005.8	1323.4	1733.2	2022.5	2437.7	2499.3	2463.2
62.5°	453.4	454.6	491.2	598.5	799.1	1120.0	1623.5	1969.9	2448.2	2523.9	2475.0
65°	295.3	295.0	330.5	427.2	597.0	900.4	1451.4	1887.6	2449.1	2518.5	2421.2
67.5°	187.8	189.0	204.3	265.3	399.6	679.6	1217.0	1734.7	2406.5	2387.5	2225.3
70°	152.3	152.6	157.4	173.3	243.3	464.5	914.8	1495.5	2271.6	2126.5	1934.2
72.5°	135.8	136.1	138.5	140.3	162.2	279.1	600.3	1214.3	2031.8	1812.5	1604.6
75°	122.0	122.0	123.5	121.7	133.1	175.2	340.7	913.0	1673.4	1411.4	1212.2
77.5°	107.0	106.7	106.7	105.8	115.1	128.0	170.6	637.2	1205.3	962.6	786.2
80°	90.7	90.1	91.0	90.4	99.4	97.0	99.4	393.3	653.4	441.3	334.7
82.5°	70.6	70.6	73.3	73.9	82.0	70.3	70.0	186.6	248.2	164.9	123.5
85°	37.0	41.5	55.9	58.3	61.9	44.2	51.4	87.1	99.4	63.1	45.1
87.5°	11.1	11.7	34.2	38.5	38.2	22.2	31.5	42.1	46.6	27.9	18.3
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°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	449.1	438.6	416.4	396.6	381.5	367.1	357.2	352.1	345.5	346.4	344.3
5°	463.0	441.3	402.0	370.1	348.8	332.6	322.7	317.6	312.7	310.3	312.1
7.5°	483.7	450.0	395.1	356.6	334.4	320.6	315.2	313.7	312.4	311.5	313.0
10°	510.4	465.4	393.9	351.8	331.4	323.0	320.9	320.0	318.8	317.6	318.5
12.5°	537.8	482.2	398.1	353.0	336.2	329.9	327.2	326.0	323.0	321.5	321.8
15°	572.0	502.6	403.8	357.8	342.5	334.4	330.8	327.5	322.7	320.6	321.5
17.5°	608.7	527.0	411.6	362.3	344.9	335.0	327.8	323.0	318.2	315.2	315.5
20°	650.1	551.0	418.5	363.8	343.7	329.9	321.2	315.5	309.1	305.8	304.9
22.5°	693.1	576.2	423.9	362.6	337.1	321.2	311.2	304.3	296.8	291.7	292.0
25°	745.4	610.5	428.4	358.4	328.4	309.7	298.6	289.9	282.1	277.3	277.6
27.5°	808.2	649.2	433.8	351.8	317.9	297.4	284.5	275.8	268.3	263.8	263.2
30°	892.0	699.7	439.8	343.7	304.6	283.9	271.3	262.3	255.1	250.9	250.9
32.5°	986.3	761.3	444.0	334.1	289.9	269.5	258.1	250.9	245.5	239.7	239.1
35°	1068.3	809.1	457.0	326.6	277.0	256.0	248.2	243.0	234.9	229.5	228.6
37.5°	1188.8	893.2	495.1	324.5	261.4	245.5	244.0	234.3	225.0	214.8	213.9
40°	1382.9	1038.9	539.6	314.3	245.2	239.7	238.2	225.3	203.4	197.1	195.9
42.5°	1629.8	1214.3	544.4	284.5	233.7	234.9	230.4	205.2	195.6	190.8	189.6
45°	1852.8	1356.7	517.0	254.2	225.3	227.7	218.4	197.7	192.3	187.8	186.6
47.5°	1978.0	1400.6	465.4	231.3	219.0	221.4	199.2	194.1	188.7	184.2	183.0
50°	2013.2	1362.5	405.3	218.1	214.2	215.1	194.1	191.1	186.3	182.7	180.9
52.5°	2020.1	1305.4	349.7	210.3	210.6	202.5	189.6	187.2	184.2	178.5	176.4
55°	2023.1	1254.0	299.8	205.5	208.2	186.3	184.8	183.0	180.6	174.6	173.3
57.5°	2030.9	1188.2	260.8	201.9	205.2	178.8	179.4	178.2	175.2	172.4	171.8
60°	2008.7	1097.2	230.7	198.3	201.0	172.4	173.0	173.6	170.9	170.3	170.0
62.5°	1934.2	968.0	205.2	193.5	192.3	166.1	166.1	168.5	166.1	167.0	167.0
65°	1780.7	803.4	182.4	184.5	178.8	159.2	158.9	163.1	159.5	163.4	163.7
67.5°	1519.0	608.1	158.9	170.3	164.6	152.0	153.2	156.5	151.7	159.8	159.8
70°	1202.3	413.7	134.6	150.5	150.2	143.9	147.8	147.5	142.1	154.1	152.0
72.5°	895.6	265.6	109.7	126.2	131.3	135.2	142.4	136.1	131.0	137.9	131.6
75°	625.8	166.4	86.5	99.7	109.4	125.6	135.8	123.2	115.7	113.6	111.8
77.5°	374.6	106.4	68.2	76.0	85.3	114.2	127.4	109.7	98.2	97.0	93.4
80°	172.7	69.4	52.0	56.8	60.7	97.9	116.0	93.7	79.9	78.7	74.5
82.5°	78.1	45.7	38.8	40.6	40.9	77.8	97.9	74.2	61.0	98.8	85.6
85°	36.4	29.4	25.2	24.0	24.3	52.0	71.2	51.1	69.4	54.1	41.2
87.5°	15.6	15.0	12.9	10.2	9.3	11.1	27.3	21.3	30.3	12.0	8.1
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)