

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: P672189

Luminaire Tested: **CCP-SA-1C-850-U-T2R**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672189  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1C-850-U-T2R  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @615mA w/ T2R distribution lens  
Light Source: (16) 5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

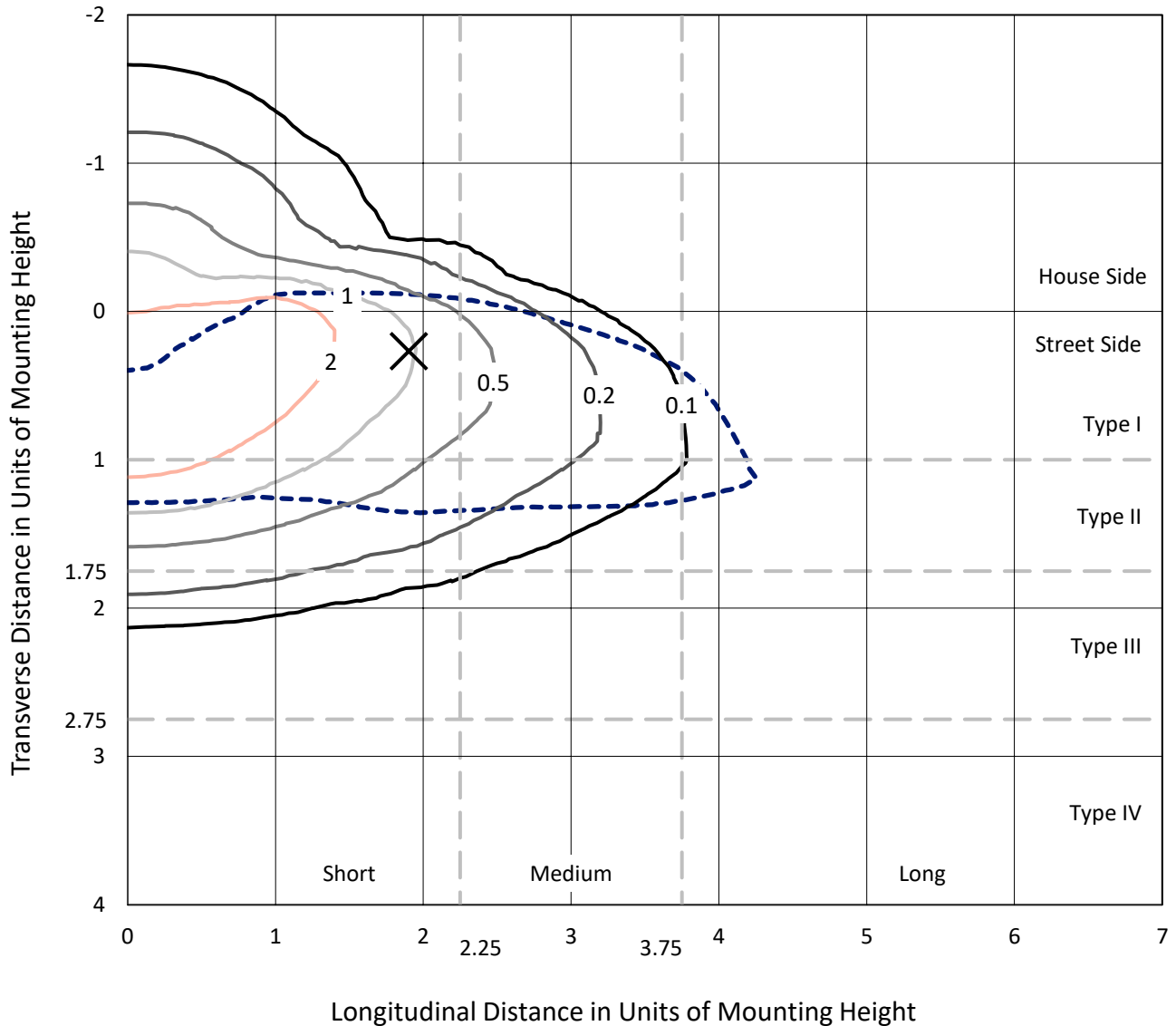
Lumens per Lamp: N/A  
Luminaire Lumens: 4007.4 lumens  
Efficiency: N/A  
Efficacy: 125.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 32  
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

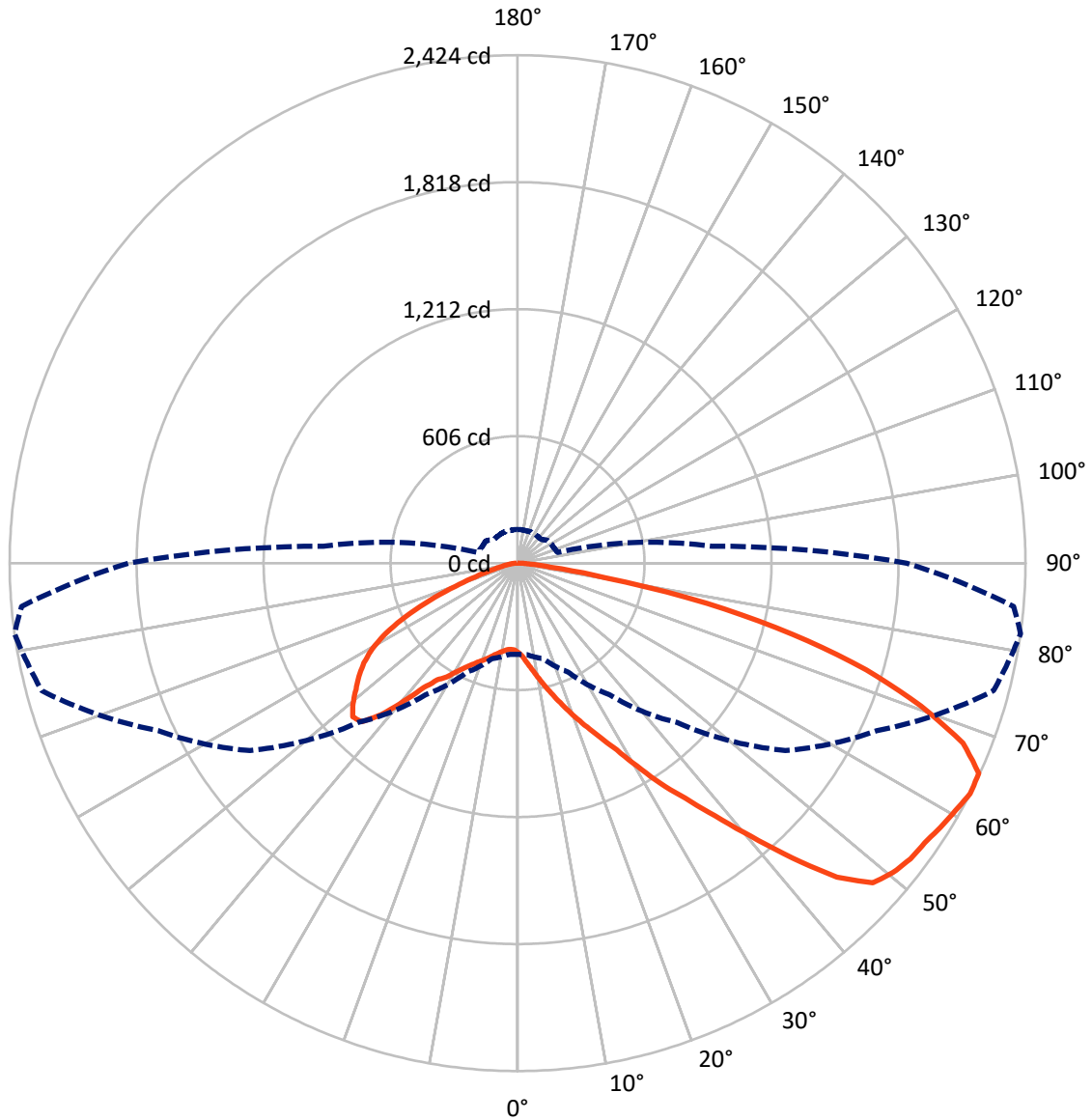
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.7 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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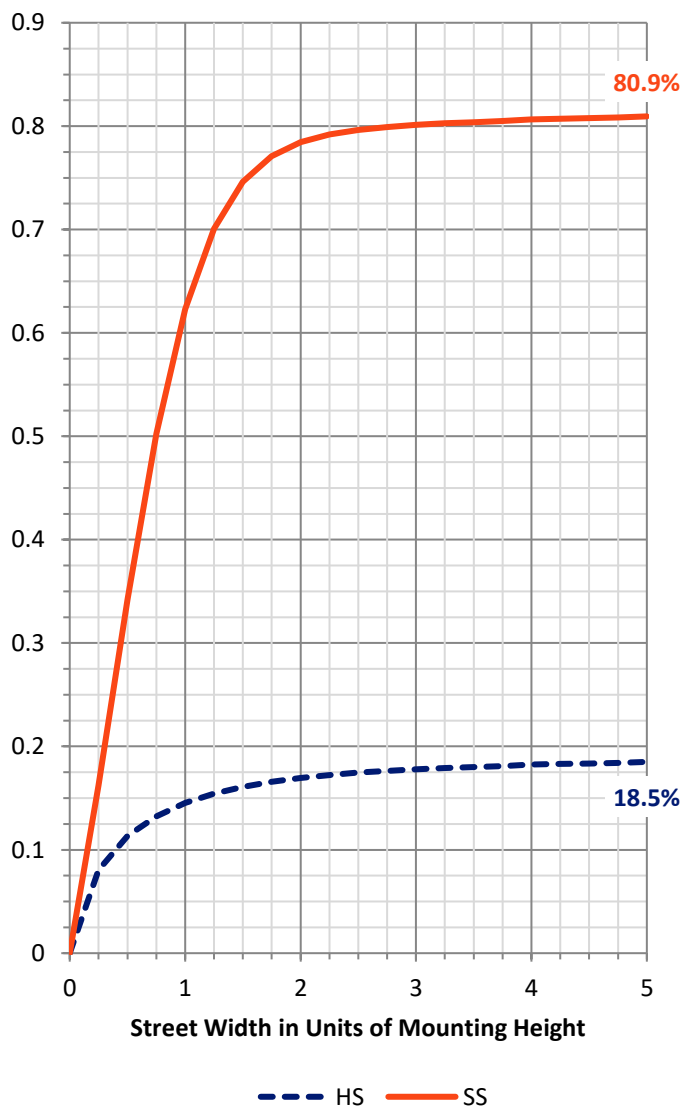
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	755.0	0.0	755.0
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	3252.5	0.0	3252.5
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	4007.4	0.0	4007.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.2	1.2
10°-20°	177.9	4.4
20°-30°	368.4	9.2
30°-40°	625.2	15.6
40°-50°	851.4	21.2
50°-60°	861.8	21.5
60°-70°	679.2	16.9
70°-80°	334.6	8.3
80°-90°	61.9	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°	4007.4	100.0
0°-180°	4007.4	100.0



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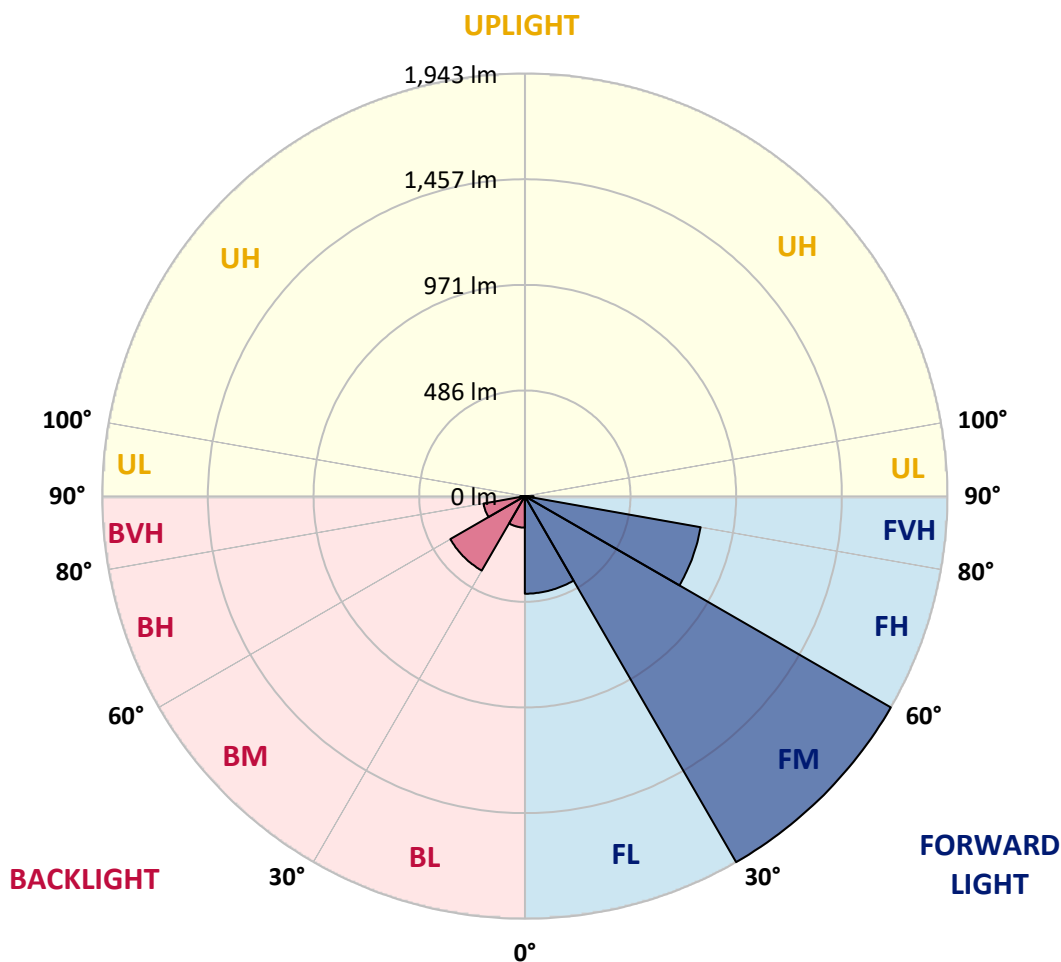
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	448.5	11.2			
FM (30°-60°)	1942.9	48.5			
FH (60°-80°)	820.8	20.5			G1/1800
FVH (80°-90°)	40.2	1.0			G1/100
BL (0°-30°)	144.9	3.6	B1/500		
BM (30°-60°)	395.5	9.9	B1/1000		
BH (60°-80°)	193.0	4.8	B1/500		G1/500
BVH (80°-90°)	21.7	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°	426.2	426.2	426.2	426.2	426.2	426.2	426.2	426.2	426.2	426.2	426.2
2.5°	567.5	558.9	554.3	549.1	534.7	525.4	508.1	487.9	464.5	444.6	440.9
5°	687.3	678.6	679.8	667.1	646.0	626.4	594.1	556.0	511.6	477.5	465.7
7.5°	771.8	762.3	764.6	759.4	742.4	720.8	679.8	630.7	565.8	515.3	496.3
10°	828.4	829.5	831.3	829.2	818.3	803.0	762.3	708.1	627.3	560.0	534.1
12.5°	892.4	895.6	895.0	895.9	890.1	878.0	838.2	787.1	692.8	608.2	574.5
15°	974.1	970.9	973.5	977.3	970.9	957.6	922.4	861.9	761.4	661.9	620.1
17.5°	1063.5	1056.9	1063.8	1060.1	1055.5	1046.8	1008.1	943.5	832.4	719.9	670.8
20°	1140.9	1136.5	1140.3	1140.9	1141.7	1140.0	1100.2	1031.5	906.9	783.1	725.7
22.5°	1227.7	1225.7	1225.1	1225.4	1226.3	1228.3	1201.2	1127.9	989.4	849.4	784.8
25°	1349.2	1347.2	1333.9	1319.2	1310.5	1316.9	1302.7	1237.2	1080.6	923.9	849.7
27.5°	1485.4	1482.2	1464.6	1427.4	1399.7	1404.3	1402.9	1357.8	1185.6	1009.3	927.6
30°	1626.8	1619.0	1594.7	1542.5	1498.9	1490.9	1494.9	1479.9	1317.7	1122.7	1036.1
32.5°	1752.8	1738.4	1706.4	1653.6	1601.7	1578.3	1578.9	1585.5	1461.4	1254.8	1149.8
35°	1829.9	1820.4	1796.4	1743.0	1685.0	1669.5	1665.1	1698.3	1593.3	1377.2	1251.7
37.5°	1871.4	1862.2	1836.5	1793.5	1749.7	1743.3	1751.4	1802.8	1743.0	1529.8	1390.2
40°	1863.9	1854.1	1837.4	1807.4	1778.5	1783.4	1819.2	1898.6	1906.6	1712.4	1587.5
42.5°	1802.2	1791.8	1790.4	1788.3	1774.8	1796.4	1861.0	1968.7	2057.0	1923.4	1826.4
45°	1693.1	1686.8	1694.3	1728.9	1745.9	1787.8	1880.7	2002.7	2189.1	2137.7	2052.3
47.5°	1554.9	1551.2	1568.2	1623.0	1678.1	1761.2	1893.6	2011.9	2280.0	2280.0	2200.4
50°	1400.3	1398.8	1421.3	1501.0	1587.2	1712.4	1892.2	2020.6	2319.8	2321.8	2252.6
52.5°	1184.4	1191.9	1251.9	1357.0	1474.1	1636.0	1872.0	2044.8	2342.3	2346.9	2287.5
55°	935.7	942.9	1033.5	1174.9	1324.9	1543.1	1811.7	2037.6	2346.6	2357.0	2307.4
57.5°	747.0	748.5	805.0	972.9	1158.8	1424.2	1742.2	1989.7	2333.9	2379.2	2338.0
60°	584.6	589.2	627.0	760.0	966.0	1271.0	1664.6	1942.4	2341.2	2400.3	2365.7
62.5°	435.4	436.6	471.8	574.8	767.5	1075.7	1559.2	1891.9	2351.3	2424.0	2376.9
65°	283.6	283.3	317.4	410.3	573.3	864.7	1393.9	1812.9	2352.1	2418.8	2325.3
67.5°	180.3	181.5	196.2	254.8	383.7	652.7	1168.8	1666.0	2311.2	2293.0	2137.2
70°	146.3	146.6	151.2	166.5	233.7	446.1	878.6	1436.3	2181.6	2042.2	1857.6
72.5°	130.4	130.7	133.0	134.7	155.8	268.0	576.5	1166.3	1951.4	1740.7	1541.1
75°	117.1	117.1	118.6	116.9	127.8	168.2	327.2	876.9	1607.1	1355.5	1164.2
77.5°	102.7	102.4	102.4	101.6	110.5	122.9	163.9	612.0	1157.6	924.5	755.1
80°	87.1	86.6	87.4	86.8	95.5	93.2	95.5	377.7	627.6	423.9	321.4
82.5°	67.8	67.8	70.4	71.0	78.8	67.5	67.2	179.2	238.3	158.4	118.6
85°	35.5	39.8	53.7	56.0	59.4	42.4	49.3	83.7	95.5	60.6	43.3
87.5°	10.7	11.3	32.9	36.9	36.6	21.4	30.3	40.4	44.7	26.8	17.6
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°	426.2	426.2	426.2	426.2	426.2	426.2	426.2	426.2	426.2	426.2	426.2
2.5°	431.4	421.3	399.9	380.9	366.4	352.6	343.1	338.2	331.8	332.7	330.7
5°	444.6	423.9	386.1	355.5	335.0	319.4	309.9	305.0	300.4	298.1	299.8
7.5°	464.5	432.2	379.4	342.5	321.1	307.9	302.7	301.2	300.1	299.2	300.7
10°	490.2	446.9	378.3	337.9	318.3	310.2	308.2	307.3	306.1	305.0	305.8
12.5°	516.5	463.1	382.3	339.0	322.9	316.8	314.2	313.1	310.2	308.7	309.0
15°	549.4	482.7	387.8	343.6	328.9	321.1	317.7	314.5	309.9	307.9	308.7
17.5°	584.6	506.1	395.3	348.0	331.2	321.7	314.8	310.2	305.6	302.7	303.0
20°	624.4	529.2	401.9	349.4	330.1	316.8	308.4	303.0	296.9	293.7	292.9
22.5°	665.6	553.4	407.1	348.3	323.7	308.4	298.9	292.3	285.1	280.2	280.5
25°	715.9	586.3	411.4	344.2	315.4	297.5	286.8	278.4	270.9	266.3	266.6
27.5°	776.2	623.5	416.6	337.9	305.3	285.6	273.2	264.9	257.7	253.3	252.8
30°	856.7	672.0	422.4	330.1	292.6	272.7	260.5	251.9	245.0	240.9	240.9
32.5°	947.3	731.1	426.5	320.8	278.4	258.8	247.9	240.9	235.7	230.2	229.7
35°	1026.0	777.0	438.9	313.6	266.0	245.8	238.3	233.4	225.6	220.4	219.6
37.5°	1141.7	857.8	475.5	311.6	251.0	235.7	234.3	225.1	216.1	206.3	205.4
40°	1328.1	997.7	518.2	301.8	235.4	230.2	228.8	216.4	195.3	189.3	188.1
42.5°	1565.3	1166.3	522.8	273.2	224.5	225.6	221.3	197.1	187.8	183.2	182.1
45°	1779.4	1303.0	496.6	244.1	216.4	218.7	209.8	189.9	184.7	180.3	179.2
47.5°	1899.7	1345.1	446.9	222.2	210.3	212.6	191.3	186.4	181.2	176.9	175.7
50°	1933.5	1308.5	389.2	209.5	205.7	206.6	186.4	183.5	178.9	175.4	173.7
52.5°	1940.1	1253.7	335.9	202.0	202.3	194.5	182.1	179.8	176.9	171.4	169.4
55°	1943.0	1204.3	288.0	197.4	200.0	178.9	177.4	175.7	173.4	167.6	166.5
57.5°	1950.5	1141.2	250.4	193.9	197.1	171.7	172.3	171.1	168.2	165.6	165.0
60°	1929.1	1053.7	221.6	190.4	193.0	165.6	166.2	166.8	164.2	163.6	163.3
62.5°	1857.6	929.7	197.1	185.8	184.7	159.6	159.6	161.9	159.6	160.4	160.4
65°	1710.1	771.5	175.1	177.2	171.7	152.9	152.6	156.7	153.2	157.0	157.3
67.5°	1458.8	584.0	152.6	163.6	158.1	146.0	147.2	150.3	145.7	153.5	153.5
70°	1154.7	397.3	129.3	144.6	144.3	138.2	142.0	141.7	136.5	148.0	146.0
72.5°	860.1	255.1	105.3	121.2	126.1	129.8	136.8	130.7	125.8	132.4	126.4
75°	601.0	159.8	83.1	95.8	105.0	120.6	130.4	118.3	111.1	109.1	107.3
77.5°	359.8	102.1	65.5	73.0	81.9	109.6	122.3	105.3	94.4	93.2	89.7
80°	165.9	66.7	49.9	54.5	58.3	94.1	111.4	90.0	76.7	75.6	71.6
82.5°	75.0	43.9	37.2	39.0	39.2	74.7	94.1	71.3	58.6	94.9	82.2
85°	34.9	28.3	24.2	23.1	23.4	49.9	68.4	49.1	66.7	51.9	39.5
87.5°	15.0	14.4	12.4	9.8	8.9	10.7	26.3	20.5	29.1	11.5	7.8
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)