

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: P672149

Luminaire Tested: **CCP-SA-2A-827-U-T2R**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672149  
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-T2R  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ T2R distribution lens  
Light Source: (32) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

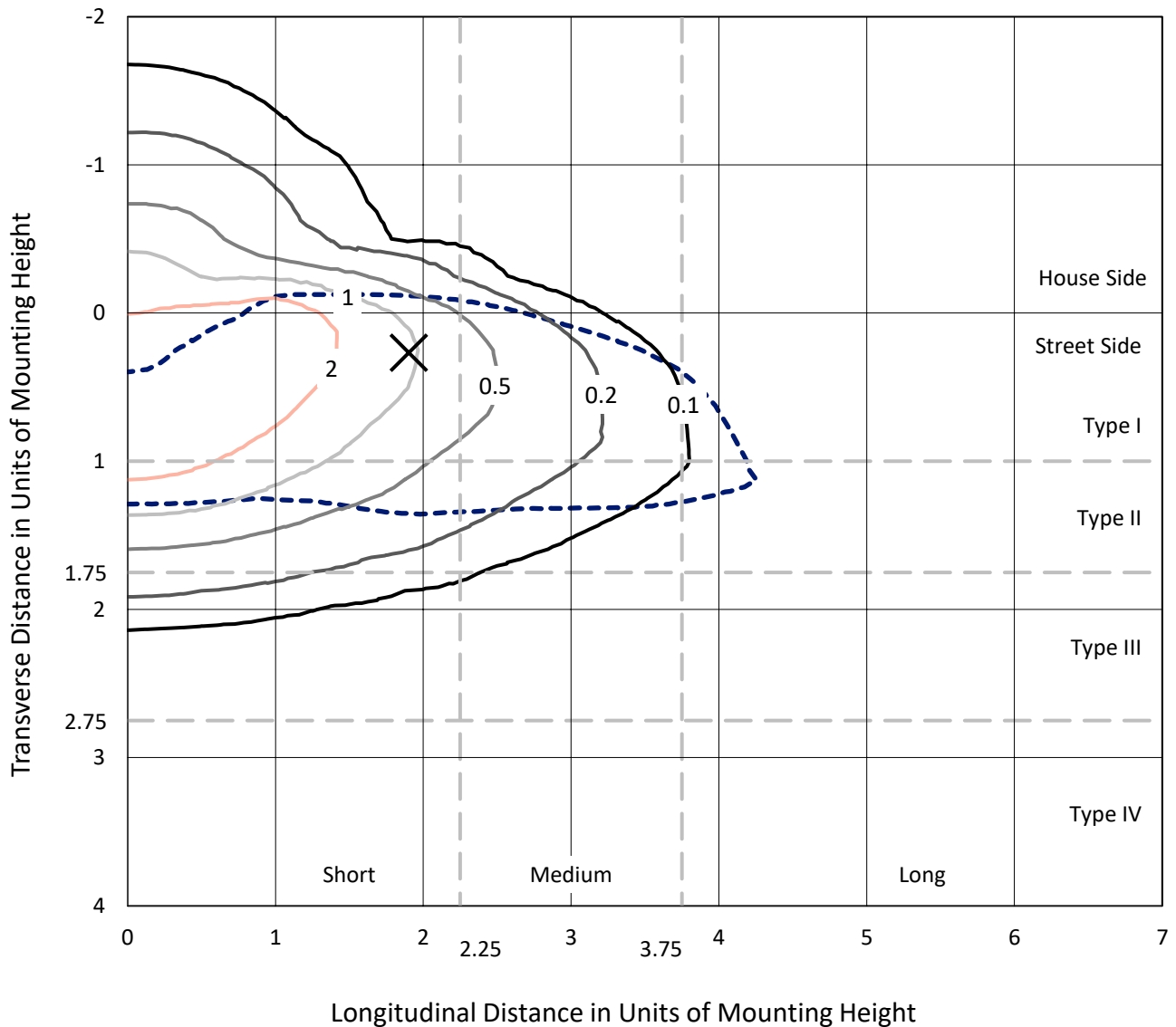
Lumens per Lamp: N/A  
Luminaire Lumens: 4085.6 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

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

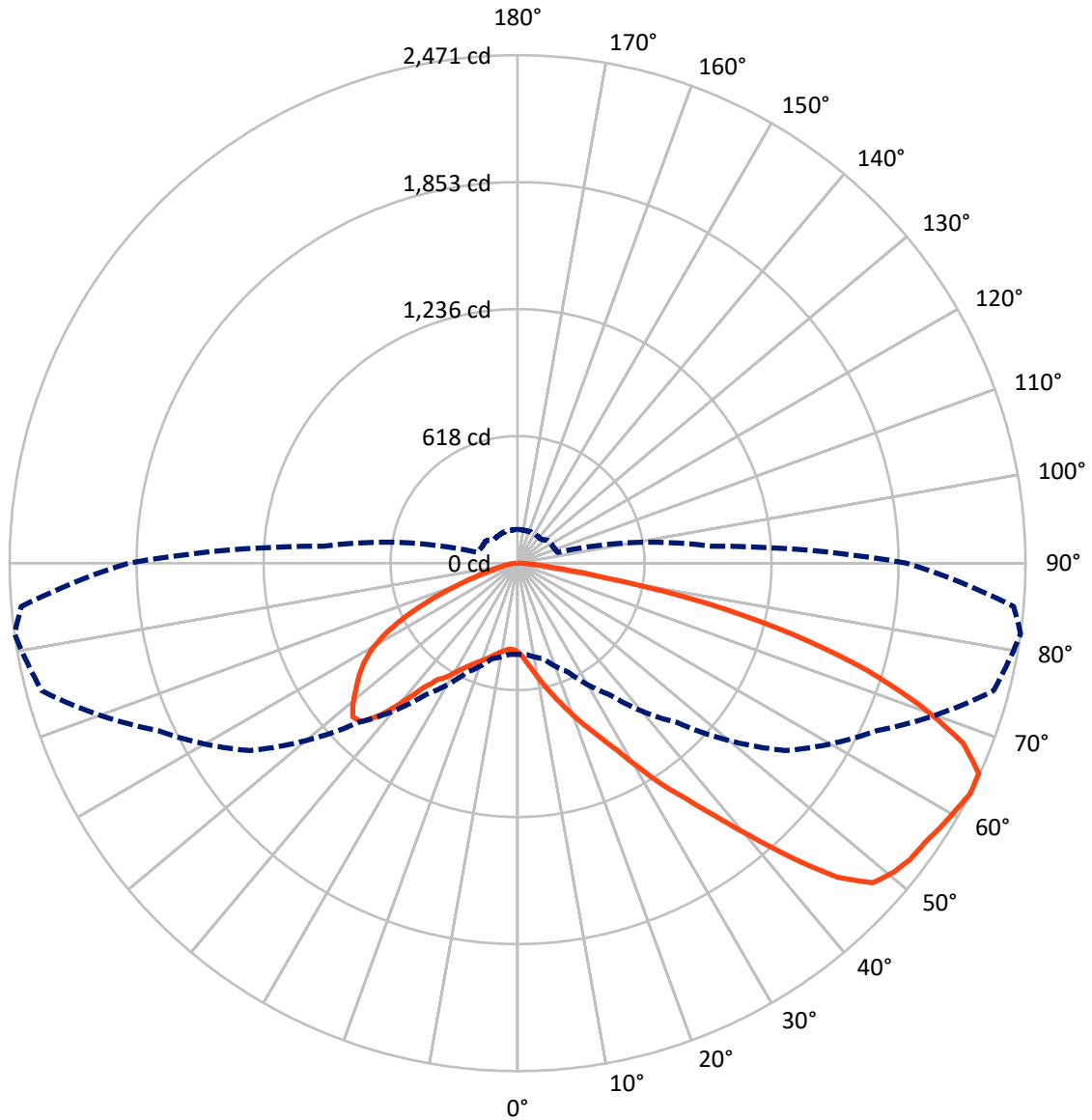
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.8 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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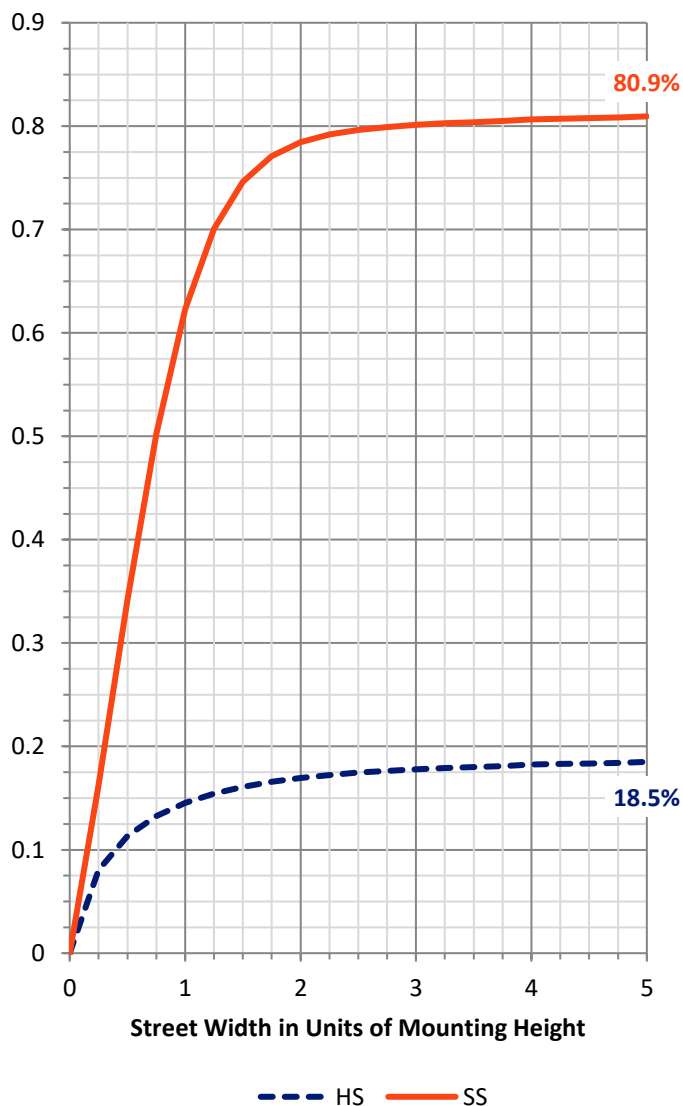
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	769.7	0.0	769.7
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	3315.9	0.0	3315.9
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	4085.6	0.0	4085.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.1	1.2
10°-20°	181.3	4.4
20°-30°	375.5	9.2
30°-40°	637.4	15.6
40°-50°	868.0	21.2
50°-60°	878.6	21.5
60°-70°	692.4	16.9
70°-80°	341.1	8.3
80°-90°	63.1	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°	4085.6	100.0
0°-180°	4085.6	100.0



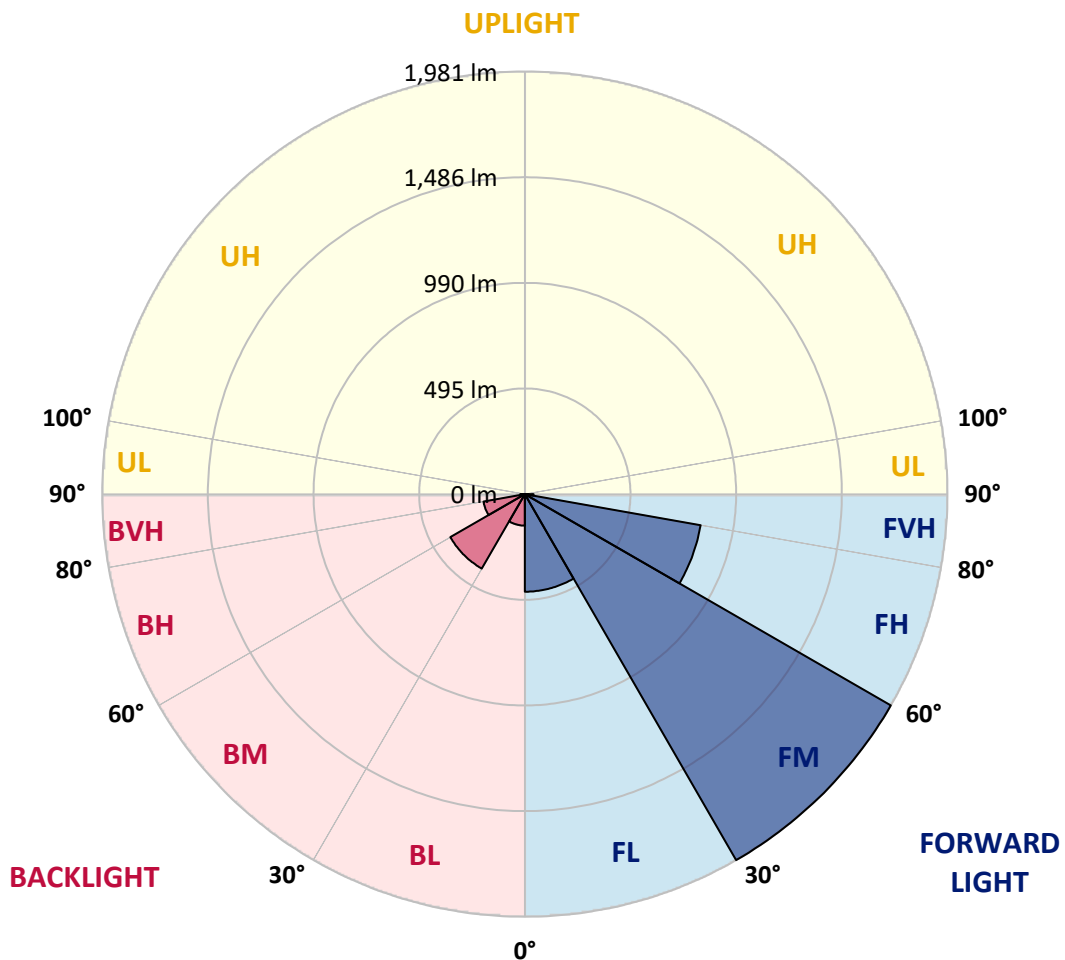
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	457.3	11.2			
FM (30°-60°)	1980.8	48.5			
FH (60°-80°)	836.8	20.5			G1/1800
FVH (80°-90°)	41.0	1.0			G1/100
BL (0°-30°)	147.7	3.6	B1/500		
BM (30°-60°)	403.2	9.9	B1/1000		
BH (60°-80°)	196.8	4.8	B1/500		G1/500
BVH (80°-90°)	22.1	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°	434.5	434.5	434.5	434.5	434.5	434.5	434.5	434.5	434.5	434.5	434.5
2.5°	578.6	569.8	565.1	559.8	545.1	535.7	518.0	497.4	473.6	453.3	449.5
5°	700.7	691.9	693.0	680.1	658.6	638.6	605.7	566.8	521.5	486.8	474.8
7.5°	786.9	777.2	779.5	774.2	756.9	734.8	693.0	643.0	576.8	525.4	506.0
10°	844.5	845.7	847.5	845.4	834.2	818.6	777.2	721.9	639.5	571.0	544.5
12.5°	909.8	913.1	912.5	913.4	907.5	895.1	854.5	802.5	706.3	620.1	585.7
15°	993.1	989.9	992.5	996.3	989.9	976.3	940.4	878.7	776.3	674.8	632.2
17.5°	1084.3	1077.5	1084.6	1080.7	1076.0	1067.2	1027.8	961.9	848.7	733.9	683.9
20°	1163.1	1158.7	1162.5	1163.1	1164.0	1162.2	1121.6	1051.6	924.5	798.4	739.8
22.5°	1251.7	1249.6	1249.0	1249.3	1250.2	1252.2	1224.6	1149.9	1008.7	866.0	800.1
25°	1375.5	1373.4	1359.9	1344.9	1336.1	1342.5	1328.1	1261.4	1101.6	941.9	866.3
27.5°	1514.3	1511.1	1493.2	1455.2	1427.0	1431.7	1430.2	1384.3	1208.7	1029.0	945.7
30°	1658.5	1650.5	1625.8	1572.6	1528.2	1519.9	1524.0	1508.8	1343.4	1144.6	1056.3
32.5°	1787.0	1772.3	1739.7	1685.8	1632.9	1609.1	1609.6	1616.4	1489.9	1279.3	1172.2
35°	1865.6	1855.9	1831.4	1777.0	1717.9	1702.0	1697.6	1731.4	1624.4	1404.0	1276.1
37.5°	1907.9	1898.5	1872.3	1828.5	1783.8	1777.3	1785.6	1837.9	1777.0	1559.6	1417.3
40°	1900.3	1890.3	1873.2	1842.6	1813.2	1818.2	1854.7	1935.6	1943.8	1745.8	1618.5
42.5°	1837.3	1826.7	1825.3	1823.2	1809.4	1831.4	1897.3	2007.1	2097.1	1960.9	1862.0
45°	1726.1	1719.7	1727.3	1762.6	1780.0	1822.6	1917.3	2041.8	2231.8	2179.4	2092.4
47.5°	1585.2	1581.4	1598.8	1654.7	1710.8	1795.6	1930.6	2051.2	2324.5	2324.5	2243.3
50°	1427.6	1426.1	1449.0	1530.2	1618.2	1745.8	1929.1	2060.0	2365.1	2367.1	2296.5
52.5°	1207.5	1215.2	1276.4	1383.4	1502.9	1667.9	1908.5	2084.7	2388.0	2392.7	2332.1
55°	954.0	961.3	1053.7	1197.8	1350.8	1573.2	1847.0	2077.4	2392.4	2403.0	2352.4
57.5°	761.6	763.1	820.7	991.9	1181.3	1452.0	1776.1	2028.5	2379.5	2425.6	2383.6
60°	596.0	600.7	639.2	774.8	984.9	1295.8	1697.0	1980.3	2386.8	2447.1	2411.8
62.5°	443.9	445.1	481.0	586.0	782.5	1096.6	1589.6	1928.8	2397.1	2471.2	2423.3
65°	289.2	288.9	323.6	418.3	584.5	881.6	1421.1	1848.2	2398.0	2465.9	2370.6
67.5°	183.9	185.0	200.0	259.7	391.2	665.4	1191.6	1698.5	2356.2	2337.7	2178.8
70°	149.1	149.4	154.1	169.7	238.3	454.8	895.7	1464.3	2224.1	2082.1	1893.8
72.5°	133.0	133.3	135.6	137.4	158.8	273.3	587.7	1189.0	1989.4	1774.7	1571.1
75°	119.4	119.4	120.9	119.1	130.3	171.5	333.6	894.0	1638.5	1382.0	1186.9
77.5°	104.7	104.4	104.4	103.5	112.7	125.3	167.1	623.9	1180.2	942.5	769.8
80°	88.8	88.2	89.1	88.5	97.4	95.0	97.4	385.1	639.8	432.1	327.7
82.5°	69.1	69.1	71.8	72.4	80.3	68.8	68.5	182.7	243.0	161.5	120.9
85°	36.2	40.6	54.7	57.1	60.6	43.2	50.3	85.3	97.4	61.8	44.1
87.5°	10.9	11.5	33.5	37.7	37.4	21.8	30.9	41.2	45.6	27.4	17.9
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°	434.5	434.5	434.5	434.5	434.5	434.5	434.5	434.5	434.5	434.5	434.5
2.5°	439.8	429.5	407.7	388.3	373.6	359.5	349.8	344.8	338.3	339.2	337.1
5°	453.3	432.1	393.6	362.4	341.5	325.6	315.9	310.9	306.2	303.9	305.6
7.5°	473.6	440.7	386.8	349.2	327.4	313.9	308.6	307.1	305.9	305.0	306.5
10°	499.8	455.7	385.6	344.5	324.5	316.2	314.2	313.3	312.1	310.9	311.8
12.5°	526.5	472.1	389.8	345.6	329.2	323.0	320.3	319.2	316.2	314.8	315.0
15°	560.1	492.1	395.4	350.3	335.3	327.4	323.9	320.6	315.9	313.9	314.8
17.5°	596.0	516.0	403.0	354.8	337.7	328.0	320.9	316.2	311.5	308.6	308.9
20°	636.6	539.5	409.8	356.2	336.5	323.0	314.5	308.9	302.7	299.5	298.6
22.5°	678.6	564.2	415.1	355.1	330.0	314.5	304.8	298.0	290.6	285.6	285.9
25°	729.8	597.7	419.5	350.9	321.5	303.3	292.4	283.9	276.2	271.5	271.8
27.5°	791.3	635.7	424.8	344.5	311.2	291.2	278.6	270.0	262.7	258.3	257.7
30°	873.4	685.1	430.7	336.5	298.3	278.0	265.6	256.8	249.7	245.6	245.6
32.5°	965.7	745.4	434.8	327.1	283.9	263.9	252.7	245.6	240.3	234.7	234.2
35°	1046.0	792.2	447.4	319.8	271.2	250.6	243.0	238.0	230.0	224.7	223.9
37.5°	1164.0	874.5	484.8	317.7	255.9	240.3	238.9	229.4	220.3	210.3	209.4
40°	1354.0	1017.2	528.3	307.7	240.0	234.7	233.3	220.6	199.1	193.0	191.8
42.5°	1595.8	1189.0	533.0	278.6	228.9	230.0	225.6	200.9	191.5	186.8	185.6
45°	1814.1	1328.4	506.3	248.9	220.6	223.0	213.9	193.6	188.3	183.9	182.7
47.5°	1936.8	1371.4	455.7	226.5	214.4	216.8	195.0	190.0	184.7	180.3	179.1
50°	1971.2	1334.0	396.8	213.6	209.7	210.6	190.0	187.1	182.4	178.8	177.1
52.5°	1977.9	1278.1	342.4	205.9	206.2	198.3	185.6	183.3	180.3	174.7	172.7
55°	1980.9	1227.8	293.6	201.2	203.9	182.4	180.9	179.1	176.8	170.9	169.7
57.5°	1988.5	1163.4	255.3	197.7	200.9	175.0	175.6	174.4	171.5	168.8	168.3
60°	1966.8	1074.3	225.9	194.1	196.8	168.8	169.4	170.0	167.4	166.8	166.5
62.5°	1893.8	947.8	200.9	189.4	188.3	162.7	162.7	165.0	162.7	163.6	163.6
65°	1743.5	786.6	178.6	180.6	175.0	155.9	155.6	159.7	156.2	160.0	160.3
67.5°	1487.3	595.4	155.6	166.8	161.2	148.8	150.0	153.3	148.6	156.5	156.5
70°	1177.2	405.1	131.8	147.4	147.1	140.9	144.7	144.4	139.1	150.9	148.8
72.5°	876.9	260.0	107.4	123.5	128.5	132.4	139.4	133.3	128.3	135.0	128.8
75°	612.7	163.0	84.7	97.7	107.1	123.0	133.0	120.6	113.3	111.2	109.4
77.5°	366.8	104.1	66.8	74.4	83.5	111.8	124.7	107.4	96.2	95.0	91.5
80°	169.1	68.0	50.9	55.6	59.4	95.9	113.5	91.8	78.2	77.1	73.0
82.5°	76.5	44.7	37.9	39.7	40.0	76.2	95.9	72.7	59.7	96.8	83.8
85°	35.6	28.8	24.7	23.5	23.8	50.9	69.7	50.0	68.0	52.9	40.3
87.5°	15.3	14.7	12.6	10.0	9.1	10.9	26.8	20.9	29.7	11.8	7.9
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)