

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: P674630

Luminaire Tested: **CCP-SA-2A-840-U-T2R-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674630  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2A-840-U-T2R-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @350mA w/ T2R distribution lens and House Side Shield  
Light Source: (32) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

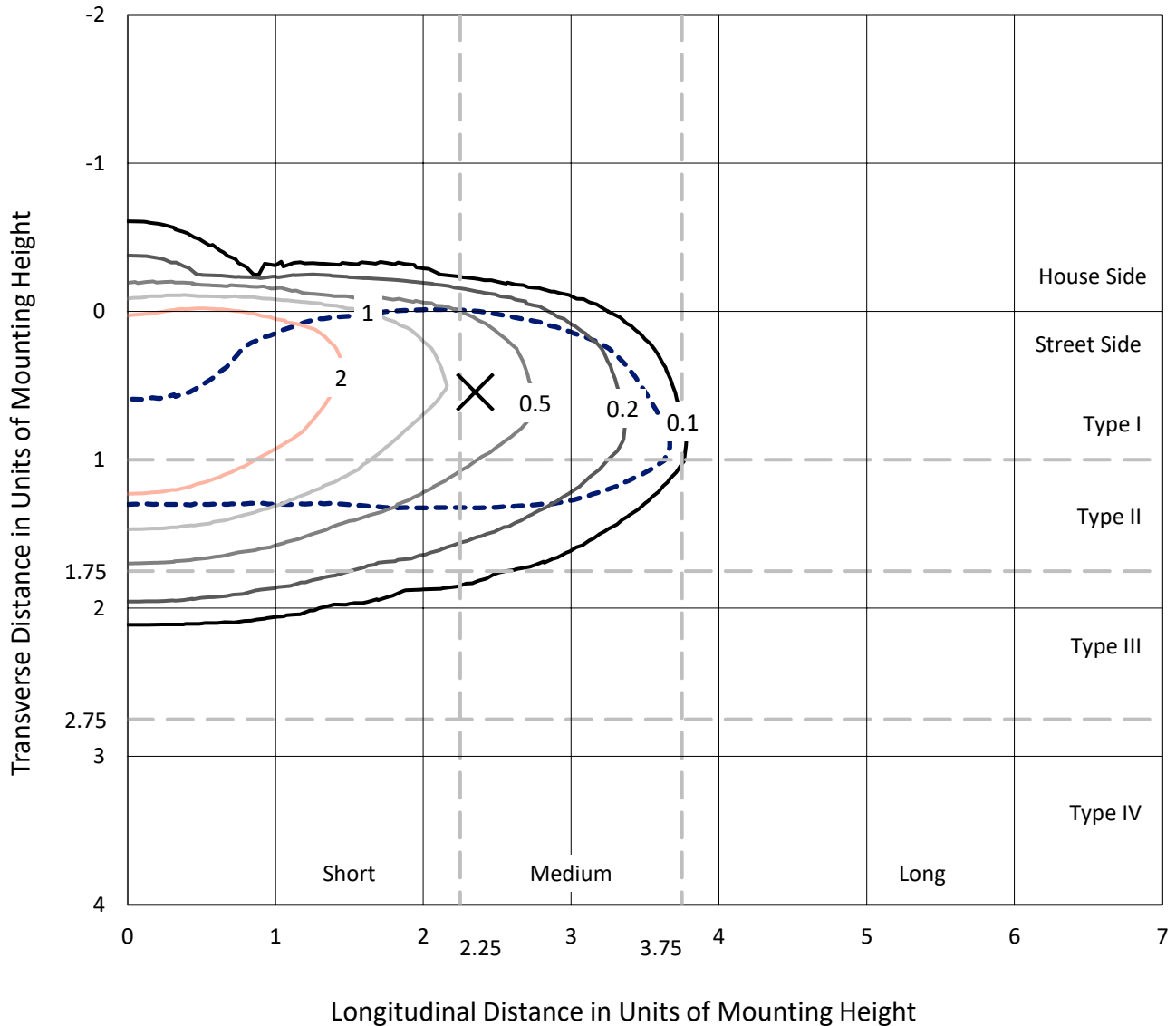
Lumens per Lamp: N/A  
Luminaire Lumens: 3777.4 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G1

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

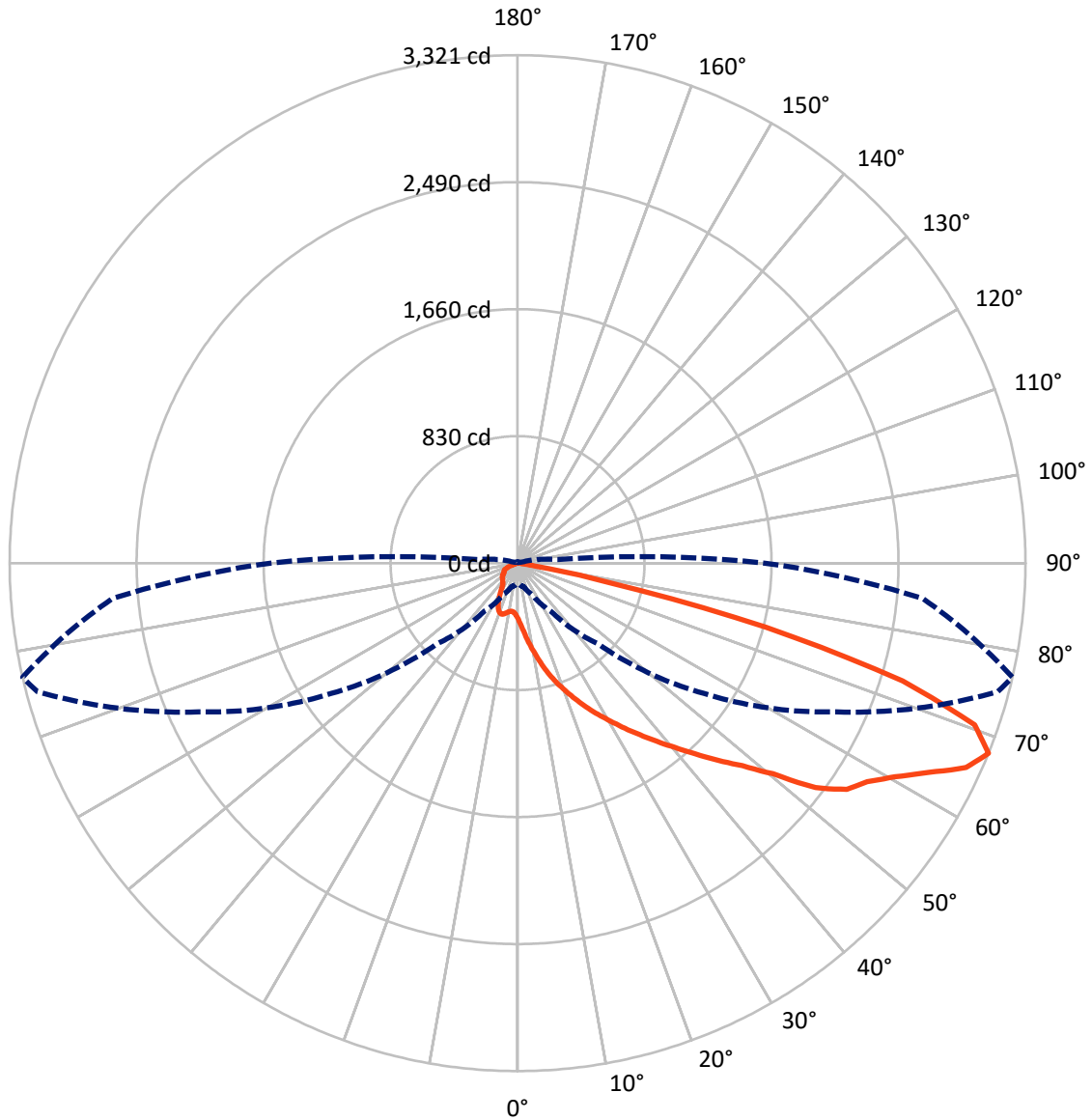
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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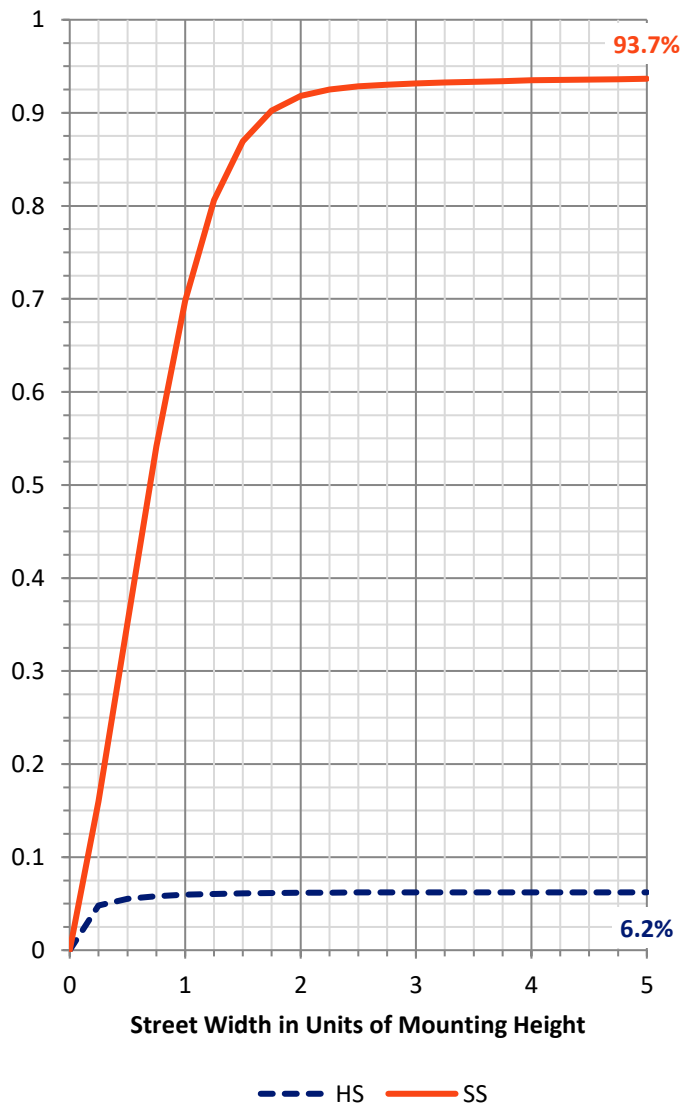
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	236.0	0.0	236.0
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	3541.3	0.0	3541.3
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	3777.4	0.0	3777.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.5	1.1
10°-20°	157.2	4.2
20°-30°	307.2	8.1
30°-40°	537.1	14.2
40°-50°	783.3	20.7
50°-60°	915.9	24.2
60°-70°	742.5	19.7
70°-80°	278.9	7.4
80°-90°	12.7	0.3
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°	3777.4	100.0
0°-180°	3777.4	100.0



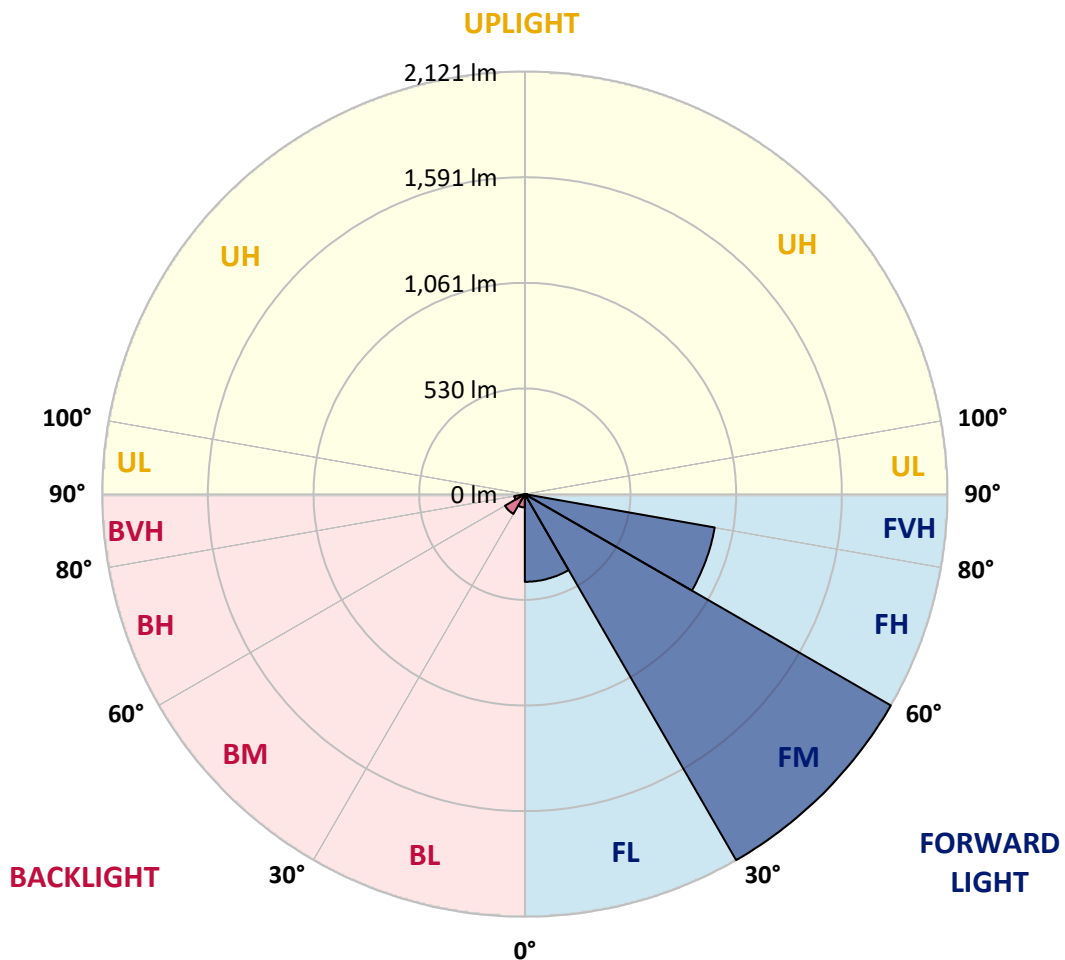
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	440.0	11.6			
FM (30°-60°)	2121.5	56.2			
FH (60°-80°)	967.9	25.6			G1/1800
FVH (80°-90°)	12.0	0.3			G1/100
BL (0°-30°)	66.9	1.8	B0/110		
BM (30°-60°)	114.8	3.0	B0/220		
BH (60°-80°)	53.5	1.4	B0/110		G0/110
BVH (80°-90°)	0.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	361.8	361.8	361.8	361.8	361.8	361.8	361.8	361.8	361.8	361.8	361.8
2.5°	543.2	523.4	527.2	519.0	508.4	483.9	458.0	432.0	408.9	403.7	380.6
5°	695.6	689.5	683.0	677.6	655.4	624.7	578.0	518.7	465.1	455.9	407.8
7.5°	814.0	804.8	810.6	793.8	770.7	741.0	681.7	618.2	535.7	522.1	447.4
10°	901.3	896.1	898.9	891.0	879.8	850.1	791.5	712.0	616.5	590.6	491.7
12.5°	966.7	967.8	979.7	980.4	971.2	947.0	884.9	802.0	689.8	666.7	540.8
15°	1014.5	1015.5	1030.2	1045.8	1056.4	1043.8	987.5	894.8	776.1	744.4	592.3
17.5°	1022.3	1023.0	1048.9	1080.6	1113.4	1124.3	1081.0	986.8	854.9	818.7	651.3
20°	1027.4	1033.2	1056.4	1092.9	1144.7	1178.5	1155.0	1075.2	931.3	889.3	709.3
22.5°	1089.5	1089.5	1103.1	1129.0	1170.3	1223.2	1218.4	1156.3	1005.6	964.0	766.9
25°	1221.1	1221.1	1207.8	1201.0	1223.2	1264.8	1276.7	1242.9	1090.5	1041.4	827.6
27.5°	1395.4	1395.4	1374.6	1324.4	1305.3	1322.7	1335.3	1318.3	1168.9	1120.5	891.7
30°	1576.1	1582.2	1546.1	1482.3	1415.5	1402.2	1389.9	1386.2	1252.5	1197.9	956.8
32.5°	1757.5	1756.8	1711.8	1632.4	1545.1	1498.0	1458.1	1453.7	1341.1	1287.6	1018.6
35°	1902.4	1902.8	1855.4	1773.9	1672.9	1612.9	1548.8	1528.0	1438.3	1378.7	1092.2
37.5°	2027.9	2020.8	1969.6	1892.2	1798.1	1736.0	1656.2	1602.0	1538.9	1478.2	1165.9
40°	2099.9	2090.3	2040.5	1966.9	1895.6	1848.2	1778.0	1691.4	1649.4	1583.9	1249.8
42.5°	2110.4	2102.3	2069.2	2024.8	1966.5	1924.9	1906.2	1792.3	1765.3	1706.0	1350.0
45°	2080.8	2067.5	2056.6	2033.4	2017.0	1996.9	2022.5	1899.7	1898.3	1839.3	1449.2
47.5°	2007.1	1989.0	1991.8	2017.3	2035.8	2053.8	2133.6	2040.5	2032.4	1977.1	1579.5
50°	1881.3	1872.4	1902.4	1952.9	2025.9	2098.2	2244.5	2184.4	2216.8	2165.0	1759.2
52.5°	1625.5	1636.5	1726.1	1847.5	1973.7	2119.0	2348.5	2399.3	2482.1	2439.5	1939.9
55°	1318.6	1314.5	1434.2	1649.7	1851.3	2105.7	2393.8	2525.8	2656.0	2611.4	2040.5
57.5°	1062.2	1069.4	1150.2	1363.3	1643.6	2003.0	2404.4	2591.9	2725.9	2696.3	2133.6
60°	797.3	804.1	877.7	1063.2	1367.4	1788.9	2317.1	2615.1	2857.2	2834.7	2282.3
62.5°	507.4	516.3	590.3	770.7	1045.2	1456.1	2121.0	2590.9	2994.3	3013.1	2485.2
65°	249.6	257.5	312.0	450.1	698.7	1088.8	1847.5	2498.5	3168.9	3222.4	2647.9
67.5°	138.1	141.9	160.6	229.2	389.8	746.8	1484.7	2301.1	3249.0	3320.6	2658.8
70°	107.4	108.4	115.6	133.7	189.9	438.2	1056.1	1972.3	3083.0	3169.6	2437.5
72.5°	90.4	91.7	95.1	101.3	118.7	228.1	663.6	1524.3	2594.0	2633.2	1885.7
75°	66.2	68.2	77.7	83.2	93.8	138.4	292.6	915.9	1714.2	1675.7	1055.0
77.5°	55.6	57.3	59.7	67.5	77.4	94.5	102.6	384.0	697.7	606.6	276.9
80°	37.9	39.9	46.4	50.5	65.5	62.4	42.6	103.0	140.2	114.2	53.2
82.5°	26.9	28.6	32.1	41.3	47.4	33.1	23.2	31.4	33.8	32.1	17.4
85°	8.5	10.9	23.2	34.1	25.6	11.3	14.7	11.9	10.6	10.2	6.8
87.5°	1.7	1.7	11.6	13.6	10.2	5.8	5.1	3.8	4.8	4.8	3.8
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°	361.8	361.8	361.8	361.8	361.8	361.8	361.8	361.8	361.8	361.8	361.8
2.5°	369.6	354.3	332.1	311.3	290.2	275.2	264.6	254.0	250.0	248.2	243.8
5°	386.0	356.7	312.7	277.2	251.3	234.9	225.1	216.5	211.1	209.4	207.0
7.5°	409.5	367.3	304.2	263.3	237.3	219.6	203.6	185.2	170.5	164.7	162.3
10°	435.1	383.3	305.5	260.5	226.1	187.2	151.4	121.7	108.8	104.0	100.6
12.5°	472.6	401.0	311.3	257.5	192.3	133.7	96.8	84.6	81.5	80.8	80.1
15°	510.1	425.9	320.9	237.0	143.6	91.0	80.5	76.0	74.3	72.6	72.6
17.5°	548.0	449.8	324.6	197.1	99.2	78.8	73.3	69.6	66.8	65.5	64.4
20°	590.6	475.0	313.7	148.3	79.5	72.0	65.8	61.4	59.0	57.6	56.6
22.5°	636.6	499.9	289.8	103.3	72.3	64.8	59.0	54.6	52.2	50.8	50.5
25°	680.0	521.4	251.7	77.7	65.1	58.0	52.5	48.8	47.1	45.7	45.4
27.5°	724.6	539.8	201.9	68.5	59.3	52.5	47.1	44.0	42.3	41.3	40.9
30°	768.3	552.4	150.4	62.7	54.2	47.4	42.6	40.2	38.5	37.5	37.2
32.5°	813.3	559.6	101.6	57.6	49.1	43.0	38.9	36.5	35.5	34.4	34.4
35°	856.6	558.6	73.3	52.9	45.0	38.9	35.1	33.4	33.1	32.1	32.1
37.5°	904.0	551.4	62.4	48.4	40.6	35.1	32.1	31.0	30.7	30.0	29.7
40°	957.9	535.4	56.9	45.0	36.8	32.1	29.3	28.6	28.3	27.6	27.6
42.5°	1016.9	514.6	53.9	41.3	33.8	29.0	26.9	25.9	25.6	24.9	24.9
45°	1085.4	494.8	51.8	37.5	31.0	26.6	24.6	23.5	23.2	22.5	22.5
47.5°	1178.8	483.5	48.4	34.1	28.0	24.2	22.2	21.5	20.8	20.1	20.1
50°	1307.4	470.2	44.0	30.7	25.6	21.8	20.5	19.4	19.1	18.4	18.4
52.5°	1413.1	441.9	39.6	27.3	22.8	20.1	18.8	18.1	17.4	17.0	17.0
55°	1450.3	408.9	35.1	24.6	20.8	18.8	17.4	16.7	16.4	16.0	16.0
57.5°	1509.6	398.3	31.0	21.8	18.8	17.4	16.0	15.7	15.3	15.0	14.7
60°	1610.9	404.4	27.3	19.4	17.0	15.7	14.7	14.3	13.6	13.0	13.0
62.5°	1709.1	396.9	23.2	17.0	14.7	14.0	13.0	12.3	10.9	9.9	9.2
65°	1733.0	346.8	20.1	14.3	12.3	11.6	10.6	9.2	7.2	5.8	5.8
67.5°	1617.4	263.6	17.4	12.3	10.2	9.5	7.5	6.1	4.4	3.4	3.4
70°	1334.7	167.1	14.3	9.5	8.5	6.5	4.8	4.4	3.1	2.7	2.4
72.5°	963.0	91.4	11.9	7.8	6.1	4.1	3.4	2.7	2.0	1.4	1.4
75°	487.6	43.0	8.9	6.1	4.1	2.7	2.0	1.4	1.4	1.0	1.0
77.5°	138.1	19.8	5.8	4.1	2.7	1.7	1.4	1.0	1.0	0.7	0.7
80°	27.3	9.9	3.8	2.7	2.0	1.4	1.0	0.7	0.7	0.3	0.3
82.5°	9.9	5.1	2.7	2.0	1.7	1.4	0.7	0.3	0.3	0.0	0.0
85°	5.1	2.7	2.0	1.7	1.4	1.0	0.7	0.3	0.0	0.0	0.0
87.5°	2.7	2.0	1.7	1.7	1.4	1.0	0.7	0.3	0.0	0.0	0.0
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)