

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: P674523

Luminaire Tested: **CCP-SA-2D-722-U-T2R-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674523  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2D-722-U-T2R-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @800mA w/ T2R distribution lens and House Side Shield  
Light Source: (32) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

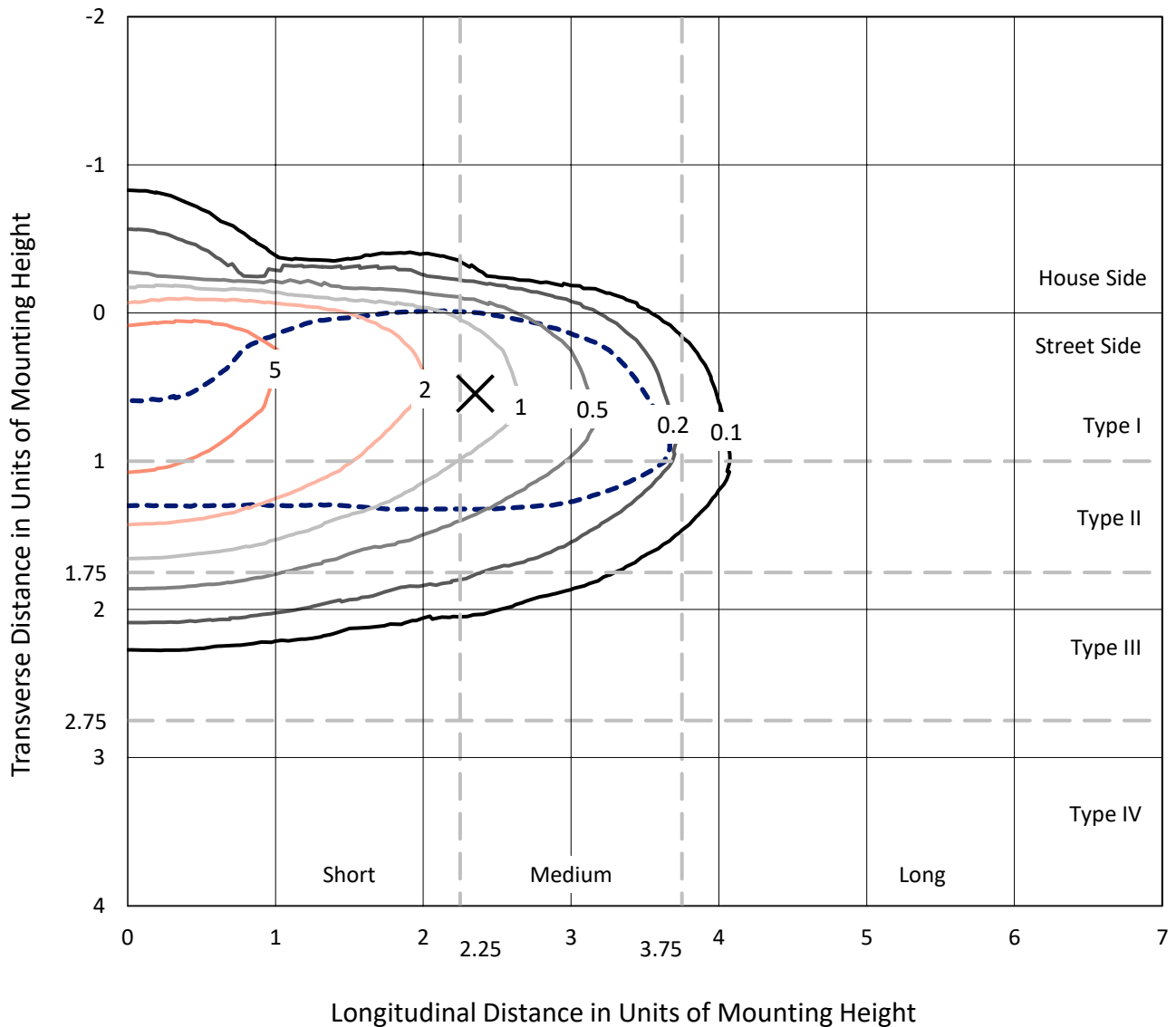
Lumens per Lamp: N/A  
Luminaire Lumens: 6651.8 lumens  
Efficiency: N/A  
Efficacy: 82.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 80.8  
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

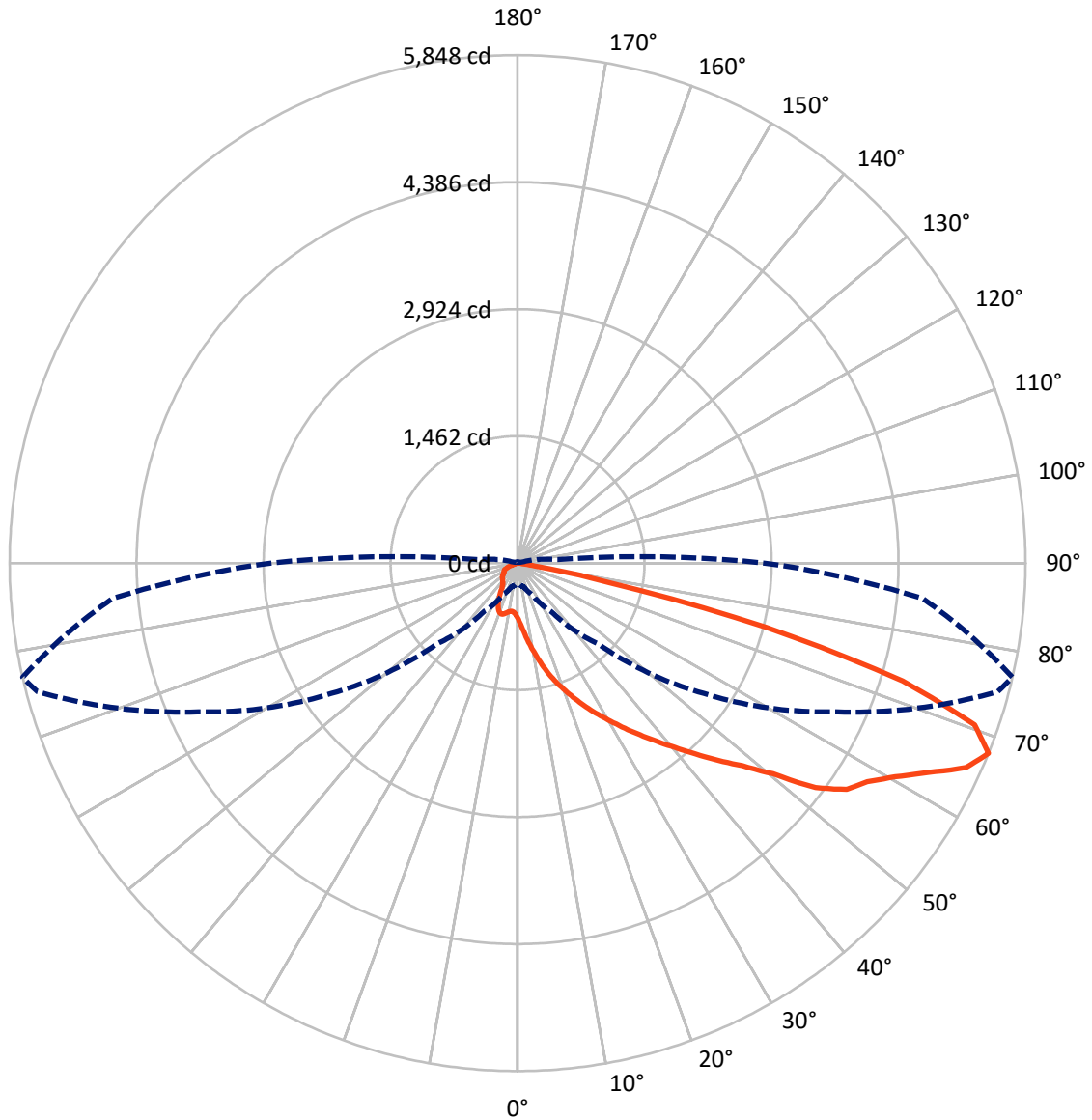
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.2 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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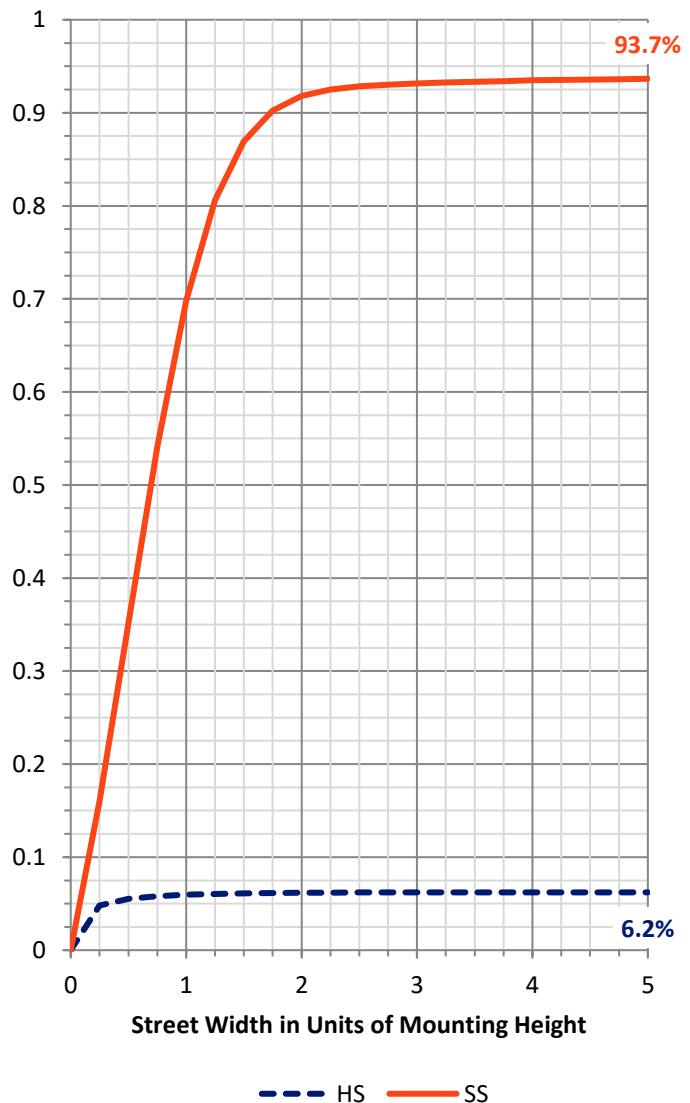
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	415.6	0.0	415.6
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	6236.1	0.0	6236.1
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	6651.8	0.0	6651.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.9	1.1
10°-20°	276.9	4.2
20°-30°	541.0	8.1
30°-40°	945.8	14.2
40°-50°	1379.3	20.7
50°-60°	1612.9	24.2
60°-70°	1307.5	19.7
70°-80°	491.2	7.4
80°-90°	22.3	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°	6651.8	100.0
0°-180°	6651.8	100.0



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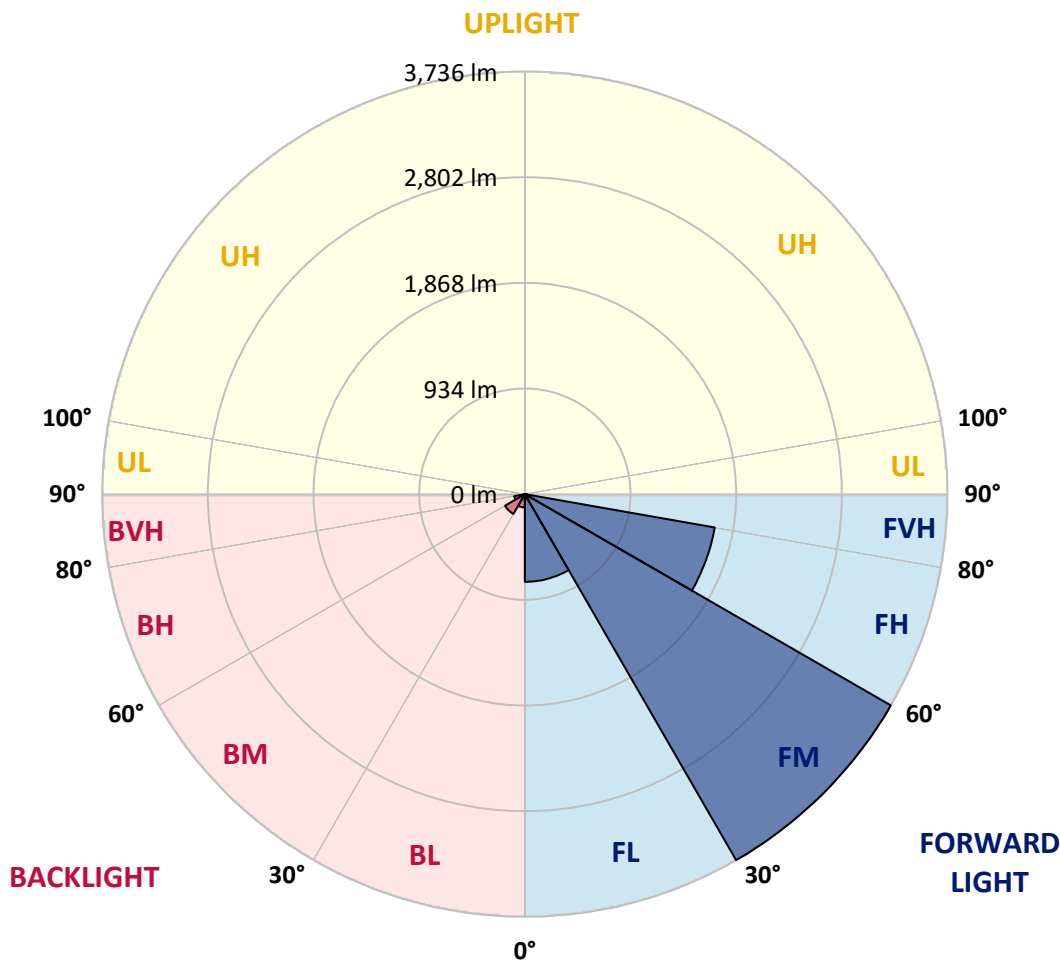
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	774.9	11.6			
FM (30°-60°)	3735.8	56.2			
FH (60°-80°)	1704.4	25.6			G1/1800
FVH (80°-90°)	21.0	0.3			G1/100
BL (0°-30°)	117.9	1.8	B1/500		
BM (30°-60°)	202.2	3.0	B0/220		
BH (60°-80°)	94.3	1.4	B0/110		G0/110
BVH (80°-90°)	1.3	0.0			G0/10
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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	637.1	637.1	637.1	637.1	637.1	637.1	637.1	637.1	637.1	637.1	637.1
2.5°	956.6	921.8	928.4	913.9	895.3	852.1	806.5	760.8	720.0	711.0	670.1
5°	1225.0	1214.2	1202.8	1193.2	1154.1	1100.1	1017.8	913.3	819.1	802.9	718.2
7.5°	1433.4	1417.2	1427.4	1397.9	1357.1	1304.9	1200.4	1088.7	943.4	919.3	787.8
10°	1587.1	1578.1	1582.9	1569.1	1549.3	1497.0	1393.7	1253.8	1085.7	1040.0	865.9
12.5°	1702.4	1704.2	1725.2	1726.4	1710.2	1667.6	1558.3	1412.4	1214.8	1174.0	952.4
15°	1786.5	1788.3	1814.1	1841.7	1860.3	1838.1	1739.0	1575.7	1366.7	1310.9	1043.0
17.5°	1800.3	1801.5	1847.1	1902.9	1960.6	1979.8	1903.6	1737.8	1505.4	1441.8	1146.9
20°	1809.3	1819.5	1860.3	1924.6	2015.8	2075.3	2033.9	1893.3	1639.9	1566.1	1249.0
22.5°	1918.6	1918.6	1942.6	1988.2	2060.9	2154.0	2145.5	2036.3	1770.8	1697.6	1350.5
25°	2150.4	2150.4	2126.9	2114.9	2154.0	2227.2	2248.2	2188.8	1920.4	1833.9	1457.4
27.5°	2457.2	2457.2	2420.6	2332.3	2298.7	2329.3	2351.5	2321.5	2058.5	1973.2	1570.3
30°	2775.5	2786.3	2722.6	2610.3	2492.6	2469.2	2447.6	2441.0	2205.6	2109.5	1685.0
32.5°	3094.9	3093.7	3014.5	2874.5	2720.8	2637.9	2567.7	2559.9	2361.7	2267.4	1793.7
35°	3350.1	3350.7	3267.3	3123.7	2946.0	2840.3	2727.4	2690.8	2532.9	2427.8	1923.4
37.5°	3571.1	3558.5	3468.4	3332.1	3166.4	3057.1	2916.6	2821.1	2710.0	2603.1	2053.1
40°	3697.8	3681.0	3593.3	3463.6	3338.1	3254.7	3131.0	2978.4	2904.6	2789.3	2200.8
42.5°	3716.4	3702.0	3643.8	3565.7	3463.0	3389.8	3356.7	3156.2	3108.7	3004.2	2377.3
45°	3664.2	3640.8	3621.5	3580.7	3551.9	3516.5	3561.5	3345.3	3342.9	3239.0	2552.1
47.5°	3534.5	3502.7	3507.5	3552.5	3584.9	3616.7	3757.3	3593.3	3578.9	3481.6	2781.5
50°	3312.9	3297.3	3350.1	3439.0	3567.5	3694.8	3952.4	3846.7	3903.8	3812.5	3097.9
52.5°	2862.5	2881.7	3039.7	3253.4	3475.6	3731.4	4135.6	4225.0	4371.0	4295.9	3416.2
55°	2322.1	2314.9	2525.7	2905.2	3260.1	3708.0	4215.4	4447.8	4677.2	4598.5	3593.3
57.5°	1870.5	1883.1	2025.4	2400.8	2894.4	3527.3	4234.0	4564.3	4800.3	4748.1	3757.3
60°	1403.9	1416.0	1545.7	1872.3	2408.0	3150.2	4080.3	4605.2	5031.5	4991.9	4019.1
62.5°	893.5	909.1	1039.4	1357.1	1840.5	2564.1	3735.0	4562.5	5272.9	5305.9	4376.4
65°	439.6	453.4	549.4	792.6	1230.4	1917.4	3253.4	4399.8	5580.3	5674.6	4662.8
67.5°	243.2	249.8	282.8	403.5	686.4	1315.1	2614.5	4052.1	5721.5	5847.6	4682.0
70°	189.2	191.0	203.6	235.4	334.5	771.6	1859.7	3473.2	5429.0	5581.5	4292.3
72.5°	159.1	161.5	167.5	178.3	209.0	401.7	1168.6	2684.2	4567.9	4637.0	3320.7
75°	116.5	120.1	136.9	146.5	165.1	243.8	515.2	1612.9	3018.7	2950.8	1857.9
77.5°	97.9	100.9	105.1	118.9	136.3	166.3	180.7	676.2	1228.6	1068.3	487.6
80°	66.7	70.3	81.7	88.9	115.3	109.9	75.1	181.3	246.8	201.2	93.7
82.5°	47.4	50.4	56.4	72.7	83.5	58.2	40.8	55.2	59.4	56.4	30.6
85°	15.0	19.2	40.8	60.0	45.0	19.8	25.8	21.0	18.6	18.0	12.0
87.5°	3.0	3.0	20.4	24.0	18.0	10.2	9.0	6.6	8.4	8.4	6.6
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°	637.1	637.1	637.1	637.1	637.1	637.1	637.1	637.1	637.1	637.1	637.1
2.5°	650.9	623.9	584.9	548.2	511.0	484.6	466.0	447.4	440.2	437.2	429.3
5°	679.8	628.1	550.6	488.2	442.6	413.7	396.3	381.3	371.7	368.7	364.5
7.5°	721.2	646.7	535.6	463.6	417.9	386.7	358.5	326.1	300.2	290.0	285.8
10°	766.2	674.9	538.0	458.8	398.1	329.7	266.6	214.4	191.6	183.1	177.1
12.5°	832.3	706.2	548.2	453.4	338.7	235.4	170.5	148.9	143.5	142.3	141.1
15°	898.3	750.0	565.1	417.3	252.8	160.3	141.7	133.9	130.9	127.9	127.9
17.5°	965.0	792.0	571.7	347.1	174.7	138.7	129.1	122.5	117.7	115.3	113.5
20°	1040.0	836.5	552.4	261.2	139.9	126.7	115.9	108.1	103.9	101.5	99.7
22.5°	1121.1	880.3	510.4	181.9	127.3	114.1	103.9	96.1	91.9	89.5	88.9
25°	1197.4	918.1	443.2	136.9	114.7	102.1	92.5	85.9	82.9	80.5	79.9
27.5°	1276.0	950.6	355.5	120.7	104.5	92.5	82.9	77.5	74.5	72.7	72.1
30°	1352.9	972.8	264.8	110.5	95.5	83.5	75.1	70.9	67.9	66.1	65.5
32.5°	1432.2	985.4	178.9	101.5	86.5	75.7	68.5	64.3	62.5	60.6	60.6
35°	1508.4	983.6	129.1	93.1	79.3	68.5	61.9	58.8	58.2	56.4	56.4
37.5°	1591.9	971.0	109.9	85.3	71.5	61.9	56.4	54.6	54.0	52.8	52.2
40°	1686.8	942.8	100.3	79.3	64.9	56.4	51.6	50.4	49.8	48.6	48.6
42.5°	1790.7	906.1	94.9	72.7	59.4	51.0	47.4	45.6	45.0	43.8	43.8
45°	1911.4	871.3	91.3	66.1	54.6	46.8	43.2	41.4	40.8	39.6	39.6
47.5°	2075.9	851.5	85.3	60.0	49.2	42.6	39.0	37.8	36.6	35.4	35.4
50°	2302.3	828.1	77.5	54.0	45.0	38.4	36.0	34.2	33.6	32.4	32.4
52.5°	2488.4	778.2	69.7	48.0	40.2	35.4	33.0	31.8	30.6	30.0	30.0
55°	2553.9	720.0	61.9	43.2	36.6	33.0	30.6	29.4	28.8	28.2	28.2
57.5°	2658.4	701.4	54.6	38.4	33.0	30.6	28.2	27.6	27.0	26.4	25.8
60°	2836.7	712.2	48.0	34.2	30.0	27.6	25.8	25.2	24.0	22.8	22.8
62.5°	3009.7	699.0	40.8	30.0	25.8	24.6	22.8	21.6	19.2	17.4	16.2
65°	3051.7	610.7	35.4	25.2	21.6	20.4	18.6	16.2	12.6	10.2	10.2
67.5°	2848.1	464.2	30.6	21.6	18.0	16.8	13.2	10.8	7.8	6.0	6.0
70°	2350.3	294.2	25.2	16.8	15.0	11.4	8.4	7.8	5.4	4.8	4.2
72.5°	1695.8	160.9	21.0	13.8	10.8	7.2	6.0	4.8	3.6	2.4	2.4
75°	858.7	75.7	15.6	10.8	7.2	4.8	3.6	2.4	2.4	1.8	1.8
77.5°	243.2	34.8	10.2	7.2	4.8	3.0	2.4	1.8	1.8	1.2	1.2
80°	48.0	17.4	6.6	4.8	3.6	2.4	1.8	1.2	1.2	0.6	0.6
82.5°	17.4	9.0	4.8	3.6	3.0	2.4	1.2	0.6	0.6	0.0	0.0
85°	9.0	4.8	3.6	3.0	2.4	1.8	1.2	0.6	0.0	0.0	0.0
87.5°	4.8	3.6	3.0	3.0	2.4	1.8	1.2	0.6	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)