

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: P670923

Luminaire Tested: **CCP-SA-2D-722-U-T4FT**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P670923  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2D-722-U-T4FT  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ T4FT distribution lens  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

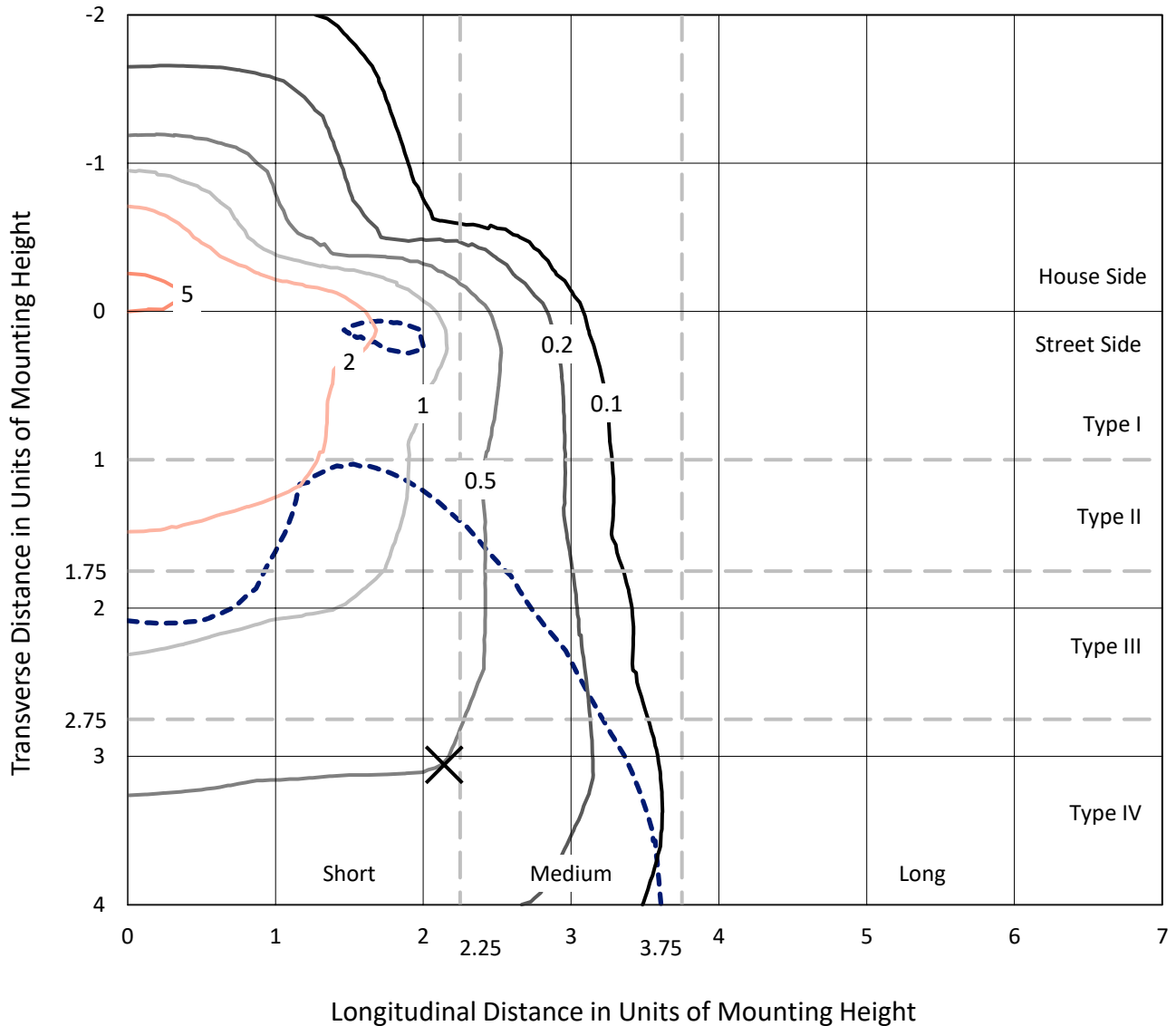
Lumens per Lamp: N/A  
Luminaire Lumens: 8210.1 lumens  
Efficiency: N/A  
Efficacy: 101.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

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

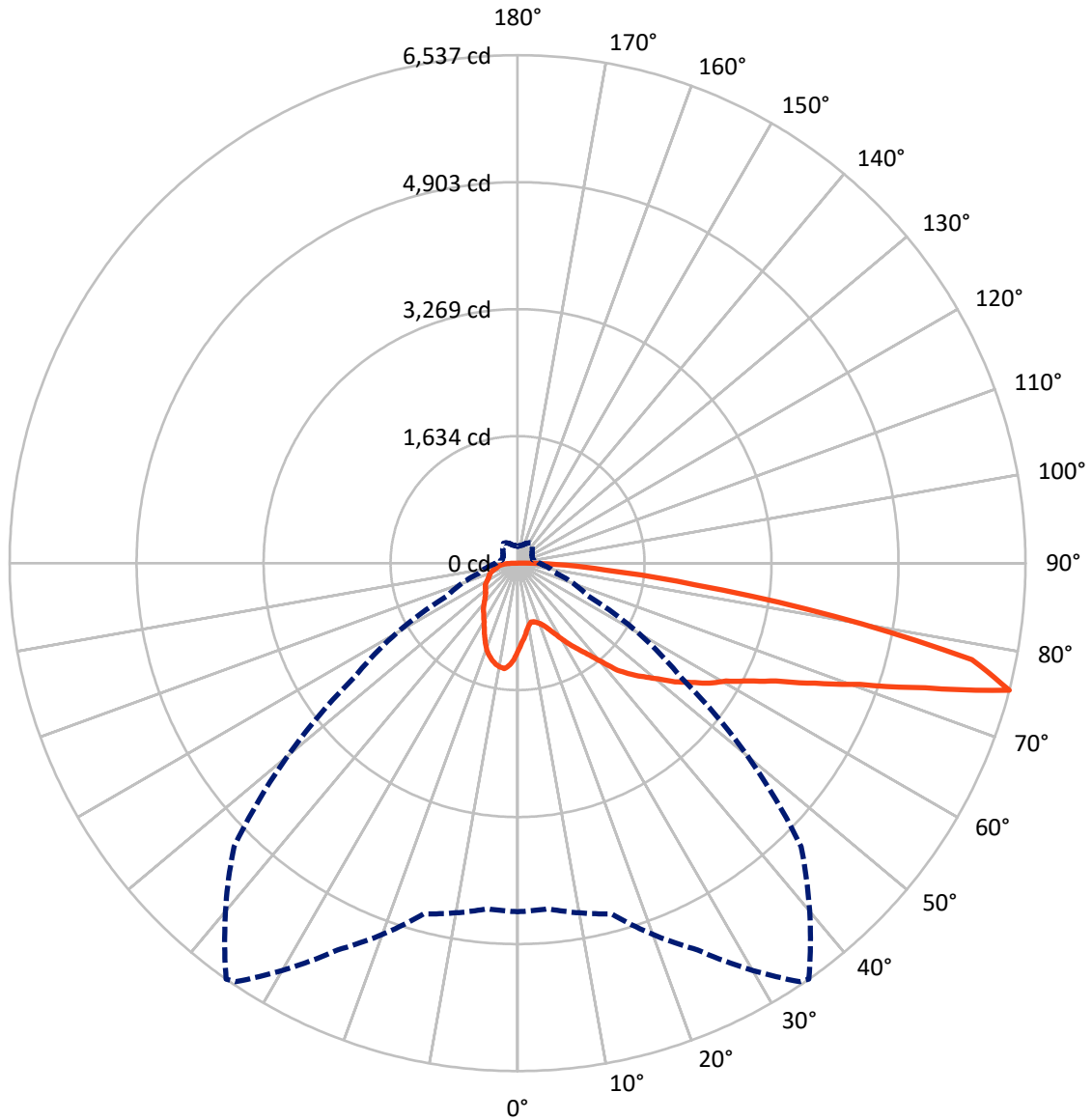
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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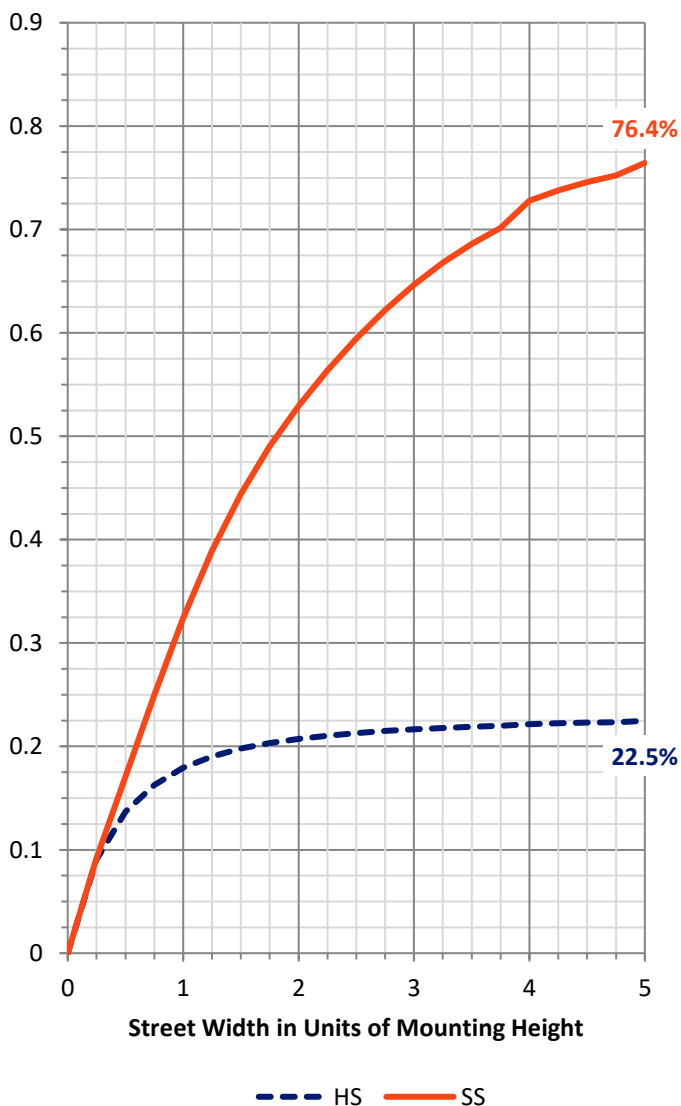
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1886.9	0.0	1886.9
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	6323.2	0.0	6323.2
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	8210.1	0.0	8210.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.2	1.3
10°-20°	311.1	3.8
20°-30°	516.2	6.3
30°-40°	765.1	9.3
40°-50°	1103.2	13.4
50°-60°	1517.1	18.5
60°-70°	1874.0	22.8
70°-80°	1714.4	20.9
80°-90°	301.8	3.7
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°	8210.1	100.0
0°-180°	8210.1	100.0



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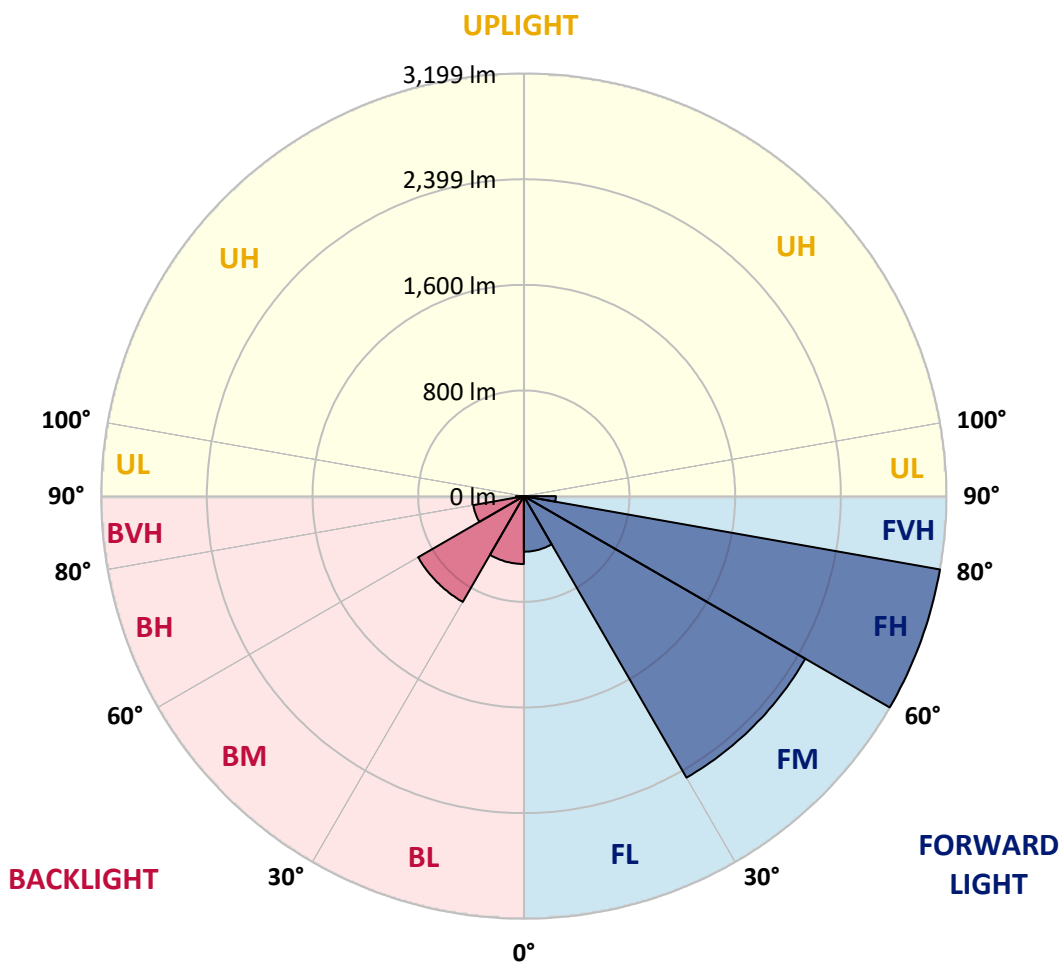
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	420.8	5.1			
FM (30°-60°)	2460.9	30.0			
FH (60°-80°)	3199.3	39.0			G2/5000
FVH (80°-90°)	242.2	3.0			G3/500
BL (0°-30°)	513.6	6.3	B2/1000		
BM (30°-60°)	924.6	11.3	B1/1000		
BH (60°-80°)	389.1	4.7	B1/500		G1/500
BVH (80°-90°)	59.6	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8
2.5°	1019.0	1009.9	1019.0	1025.0	1025.0	1025.0	1034.1	1061.3	1079.5	1091.6	1112.7
5°	913.2	916.2	922.2	937.4	946.4	952.5	967.6	1000.9	1028.1	1067.4	1112.7
7.5°	819.4	825.5	834.5	849.7	870.8	867.8	901.1	946.4	997.8	1049.2	1115.8
10°	771.1	783.1	786.2	789.2	810.4	810.4	855.7	907.1	970.6	1037.1	1115.8
12.5°	780.1	780.1	771.1	768.0	780.1	777.1	816.4	876.9	946.4	1040.2	1127.9
15°	807.3	807.3	789.2	771.1	789.2	783.1	816.4	864.8	946.4	1043.2	1152.0
17.5°	843.6	846.6	825.5	795.2	801.3	804.3	828.5	873.9	946.4	1049.2	1185.3
20°	916.2	901.1	867.8	819.4	840.6	831.5	867.8	907.1	964.6	1073.4	1233.7
22.5°	979.7	979.7	916.2	873.9	876.9	876.9	910.1	943.4	991.8	1106.7	1270.0
25°	1082.5	1076.4	997.8	934.3	940.4	943.4	961.5	1000.9	1037.1	1124.8	1315.3
27.5°	1212.5	1197.4	1118.8	1046.2	1022.0	1031.1	1040.2	1070.4	1079.5	1155.1	1369.7
30°	1351.6	1330.4	1263.9	1149.0	1136.9	1139.9	1124.8	1143.0	1130.9	1203.4	1424.2
32.5°	1439.3	1439.3	1375.8	1291.1	1257.9	1257.9	1206.5	1218.6	1218.6	1248.8	1520.9
35°	1514.9	1508.8	1466.5	1403.0	1381.8	1369.7	1318.3	1336.5	1306.3	1336.5	1657.0
37.5°	1629.8	1611.6	1593.5	1551.2	1508.8	1499.8	1472.6	1484.7	1442.3	1427.2	1811.2
40°	1762.8	1753.8	1735.6	1717.5	1675.1	1672.1	1641.9	1654.0	1608.6	1551.2	1965.4
42.5°	1959.4	1932.2	1874.7	1859.6	1868.7	1880.8	1868.7	1847.5	1765.9	1693.3	2131.7
45°	2155.9	2113.6	2004.7	1980.5	2050.1	2041.0	2092.4	2083.3	1950.3	1835.4	2307.1
47.5°	2282.9	2246.6	2158.9	2143.8	2174.1	2186.2	2340.4	2313.2	2101.5	1965.4	2476.4
50°	2373.6	2376.7	2261.7	2301.1	2340.4	2340.4	2533.9	2530.9	2285.9	2125.7	2697.2
52.5°	2506.7	2464.3	2416.0	2452.2	2506.7	2536.9	2775.8	2709.3	2400.8	2261.7	2945.1
55°	2576.2	2558.1	2515.7	2579.2	2694.1	2709.3	2963.3	2911.9	2530.9	2422.0	3199.1
57.5°	2603.4	2618.5	2688.1	2715.3	2875.6	2914.9	3132.6	3060.0	2651.8	2621.6	3395.6
60°	2724.4	2703.2	2796.9	2905.8	3060.0	3081.2	3344.2	3187.0	2769.7	2751.6	3459.1
62.5°	2969.3	2914.9	2966.3	3096.3	3311.0	3338.2	3568.0	3356.3	2821.1	2839.3	3456.1
65°	3326.1	3286.8	3211.2	3314.0	3616.4	3655.7	3831.1	3501.5	2806.0	2809.0	3211.2
67.5°	3746.4	3682.9	3604.3	3667.8	4036.7	4127.4	4151.6	3565.0	2700.2	2639.7	2612.5
70°	4115.3	4073.0	4021.6	4130.4	4644.4	4677.7	4550.7	3525.7	2406.9	2119.6	1741.7
72.5°	4460.0	4438.8	4469.1	4877.3	5466.9	5488.1	4925.7	3277.7	1901.9	1285.1	810.4
75°	4487.2	4466.0	4674.7	5494.1	6498.0	6537.3	5158.5	2570.2	1003.9	523.1	341.7
77.5°	3038.8	3102.3	3492.4	4810.8	5968.8	5977.9	4218.1	1194.4	414.3	308.4	238.9
80°	746.9	828.5	1315.3	2488.5	4024.6	4124.4	2310.1	402.2	272.1	235.9	178.4
82.5°	272.1	296.3	535.2	1124.8	2261.7	2301.1	807.3	217.7	196.5	181.4	130.0
85°	130.0	133.0	254.0	553.3	1143.0	1130.9	290.3	130.0	142.1	124.0	78.6
87.5°	54.4	54.4	111.9	257.0	505.0	489.8	93.7	60.5	81.6	72.6	39.3
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°	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8
2.5°	1127.9	1133.9	1158.1	1176.2	1194.4	1209.5	1233.7	1233.7	1248.8	1248.8	1248.8
5°	1124.8	1158.1	1197.4	1239.7	1266.9	1294.2	1318.3	1321.4	1330.4	1342.5	1345.6
7.5°	1136.9	1170.2	1233.7	1294.2	1327.4	1339.5	1369.7	1360.7	1360.7	1360.7	1369.7
10°	1161.1	1197.4	1285.1	1339.5	1363.7	1366.7	1357.7	1351.6	1333.5	1327.4	1318.3
12.5°	1179.3	1242.8	1330.4	1372.8	1363.7	1354.6	1333.5	1303.2	1282.1	1276.0	1276.0
15°	1224.6	1288.1	1369.7	1384.9	1369.7	1321.4	1294.2	1260.9	1242.8	1215.5	1227.6
17.5°	1263.9	1336.5	1409.1	1390.9	1360.7	1285.1	1245.8	1197.4	1173.2	1143.0	1143.0
20°	1315.3	1381.8	1445.3	1397.0	1330.4	1248.8	1185.3	1124.8	1091.6	1061.3	1067.4
22.5°	1372.8	1433.2	1466.5	1372.8	1285.1	1191.3	1103.7	1046.2	1003.9	985.7	991.8
25°	1418.1	1484.7	1478.6	1333.5	1230.7	1118.8	1022.0	967.6	958.5	940.4	940.4
27.5°	1475.6	1545.1	1469.5	1285.1	1139.9	1003.9	943.4	922.2	922.2	913.2	919.2
30°	1551.2	1599.6	1448.4	1215.5	1025.0	901.1	870.8	882.9	904.1	895.0	898.0
32.5°	1675.1	1669.1	1430.2	1136.9	904.1	801.3	822.5	846.6	864.8	873.9	879.9
35°	1796.1	1756.8	1409.1	1031.1	792.2	752.9	771.1	798.3	831.5	840.6	843.6
37.5°	1917.0	1847.5	1372.8	901.1	722.7	710.6	728.7	743.8	771.1	777.1	783.1
40°	2044.0	1908.0	1309.3	774.1	665.2	665.2	677.3	680.3	695.5	704.5	710.6
42.5°	2155.9	1965.4	1194.4	656.1	604.7	625.9	628.9	622.9	610.8	616.8	619.9
45°	2292.0	2028.9	1061.3	571.5	559.4	586.6	592.7	568.5	547.3	535.2	529.2
47.5°	2425.0	2095.4	946.4	501.9	517.1	559.4	559.4	532.2	495.9	465.7	453.6
50°	2546.0	2162.0	852.7	459.6	474.7	538.2	544.3	492.9	453.6	417.3	411.2
52.5°	2748.6	2273.8	755.9	426.3	450.5	523.1	520.1	474.7	423.3	384.0	381.0
55°	2927.0	2385.7	628.9	393.1	426.3	501.9	511.0	456.6	387.0	350.8	344.7
57.5°	3057.0	2412.9	501.9	359.8	402.2	477.7	489.8	420.3	362.8	332.6	329.6
60°	3081.2	2307.1	408.2	332.6	368.9	444.5	453.6	399.1	344.7	320.5	314.5
62.5°	2969.3	2104.5	347.7	308.4	341.7	411.2	429.4	374.9	326.6	305.4	302.4
65°	2715.3	1808.2	305.4	287.3	323.5	387.0	408.2	356.8	311.4	293.3	290.3
67.5°	2149.9	1387.9	272.1	272.1	299.3	362.8	393.1	344.7	296.3	284.2	281.2
70°	1406.0	834.5	247.9	251.0	281.2	341.7	374.9	329.6	278.2	275.2	269.1
72.5°	604.7	384.0	220.7	229.8	254.0	305.4	347.7	308.4	257.0	247.9	238.9
75°	278.2	232.8	199.6	205.6	226.8	269.1	314.5	284.2	238.9	223.8	214.7
77.5°	196.5	169.3	166.3	178.4	193.5	232.8	278.2	266.1	220.7	208.6	202.6
80°	145.1	130.0	139.1	151.2	160.3	214.7	263.1	244.9	202.6	184.4	175.4
82.5°	102.8	96.8	108.9	120.9	130.0	187.5	241.9	214.7	169.3	154.2	139.1
85°	60.5	63.5	75.6	81.6	90.7	139.1	202.6	172.4	130.0	99.8	96.8
87.5°	27.2	27.2	36.3	39.3	45.4	81.6	136.1	108.9	81.6	63.5	60.5
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)