

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: P674431

Luminaire Tested: **CCP-SA-2A-750-U-AFL-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674431  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2A-750-U-AFL-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @350mA w/ AFL distribution lens and House Side Shield  
Light Source: (32) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

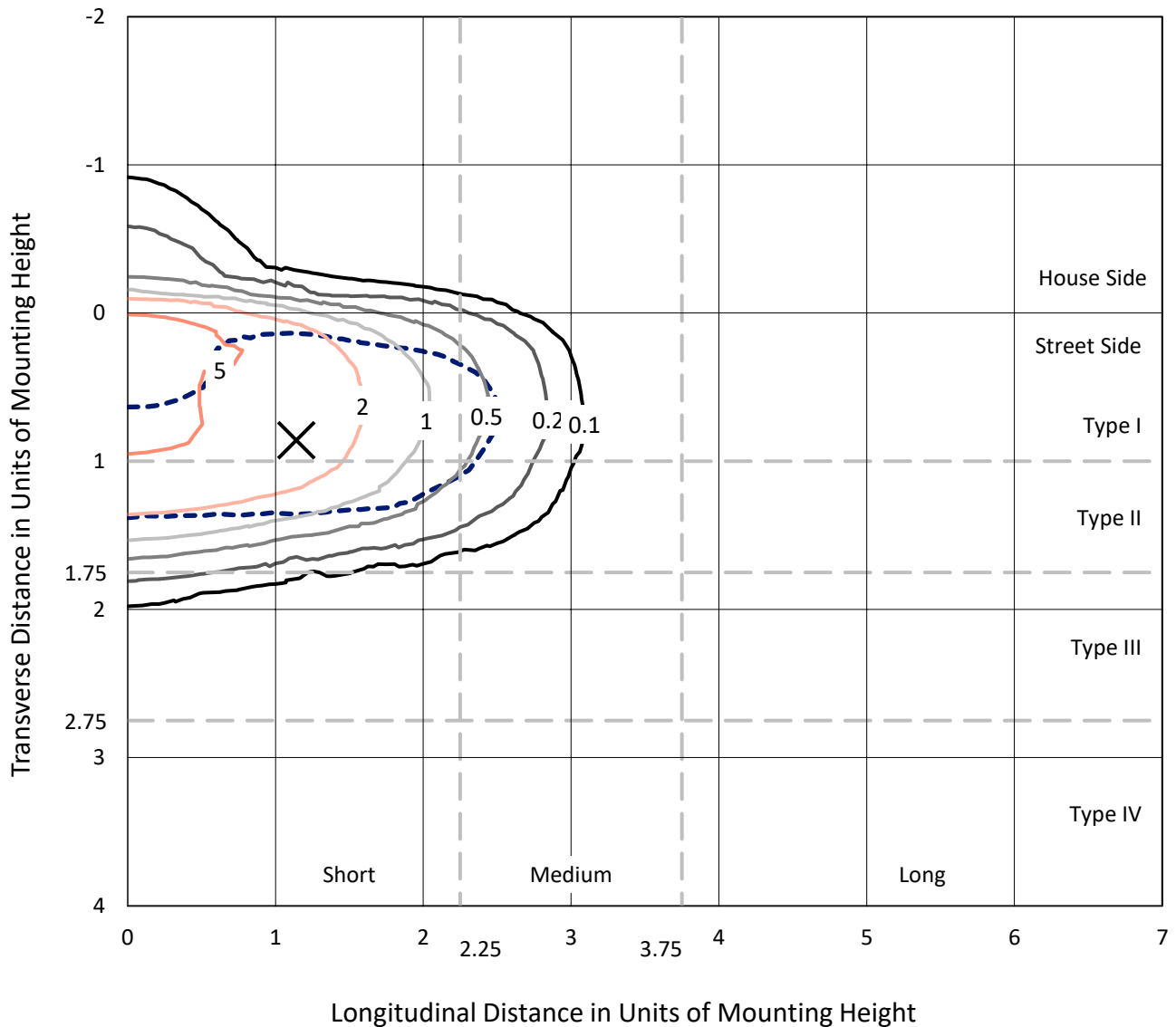
Lumens per Lamp: N/A  
Luminaire Lumens: 4641.3 lumens  
Efficiency: N/A  
Efficacy: 128.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

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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 CATALOG NUMBER: CCP-SA-2A-750-U-AFL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

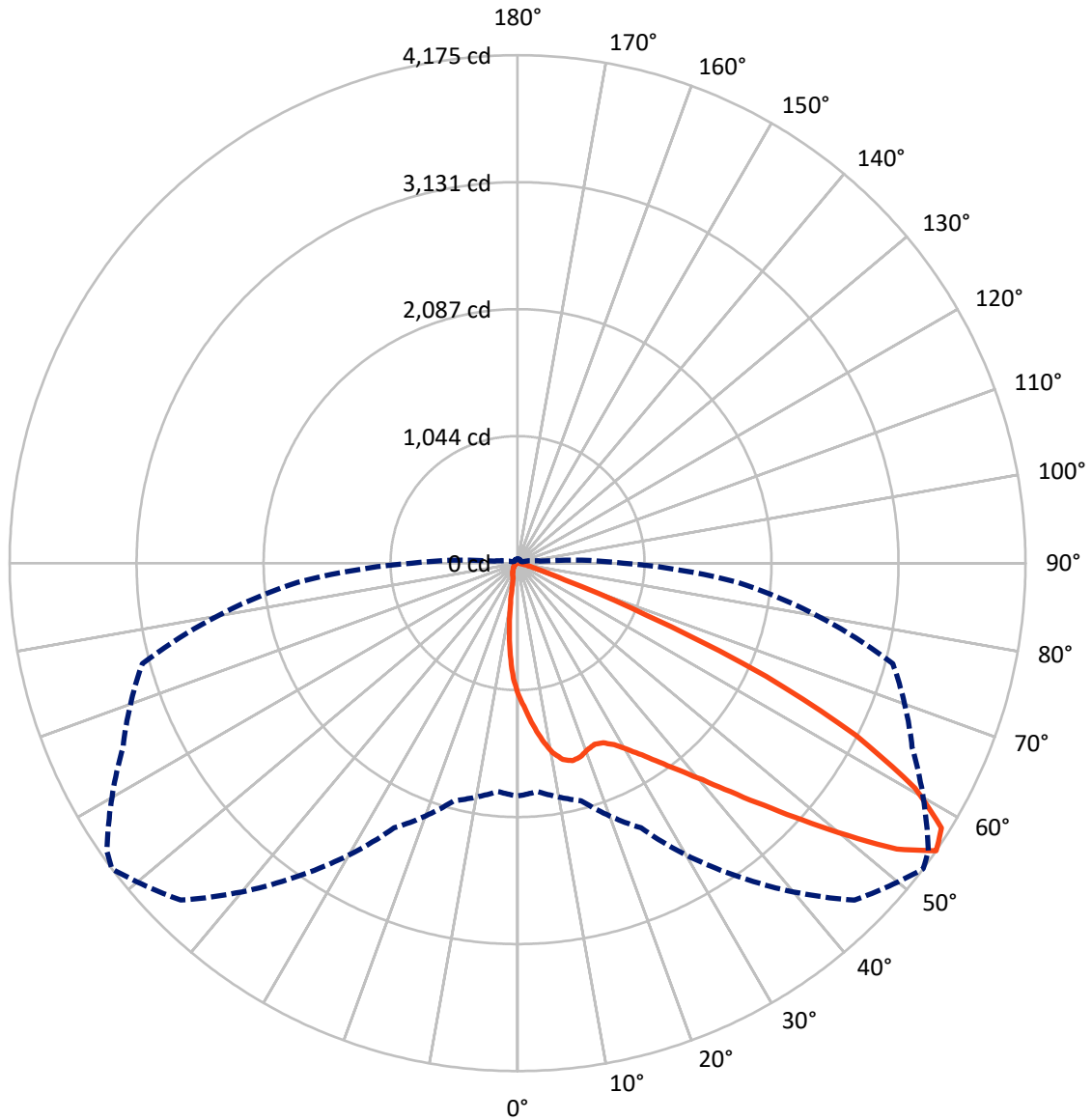
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7 fc  
 Type II - Short - N/A

REPORT NUMBER: P674431  
CATALOG NUMBER: CCP-SA-2A-750-U-AFL-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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 CATALOG NUMBER: CCP-SA-2A-750-U-AFL-HSS

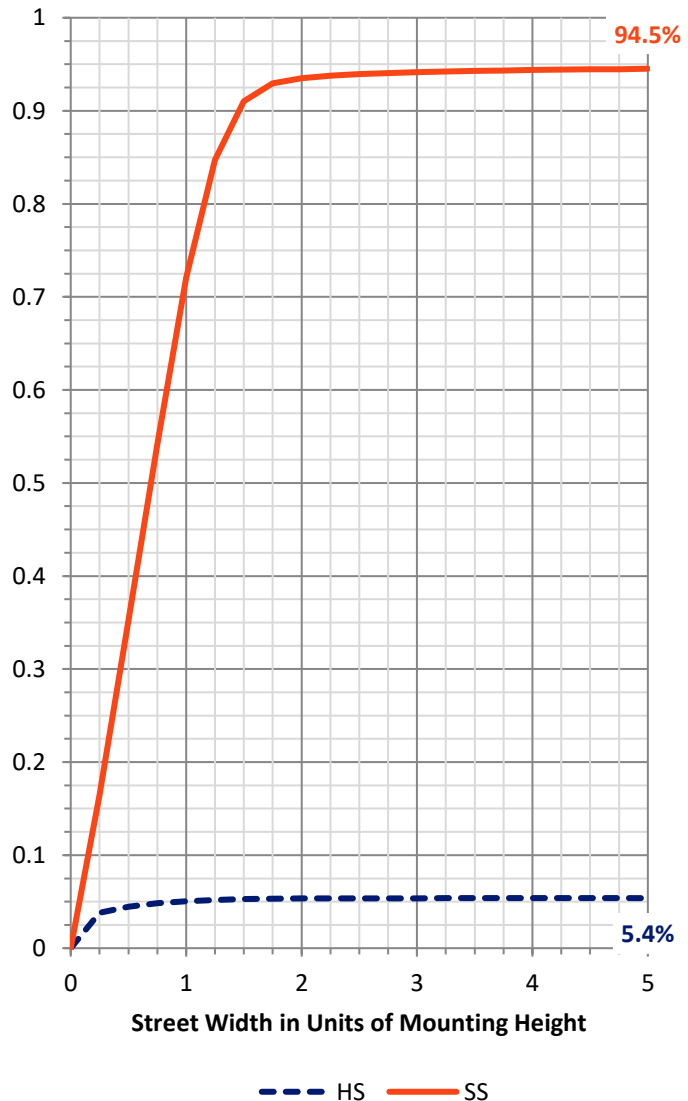
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	250.9	0.0	250.9
	% Fixture	5.4	0.0	5.4
<b>Street Side</b>	Lumens	4390.4	0.0	4390.4
	% Fixture	94.6	0.0	94.6
<b>Total</b>	Lumens	4641.3	0.0	4641.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.1	2.1
10°-20°	253.8	5.5
20°-30°	424.7	9.2
30°-40°	694.8	15.0
40°-50°	1116.9	24.1
50°-60°	1261.0	27.2
60°-70°	672.6	14.5
70°-80°	110.5	2.4
80°-90°	9.9	0.2
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°	4641.3	100.0
0°-180°	4641.3	100.0



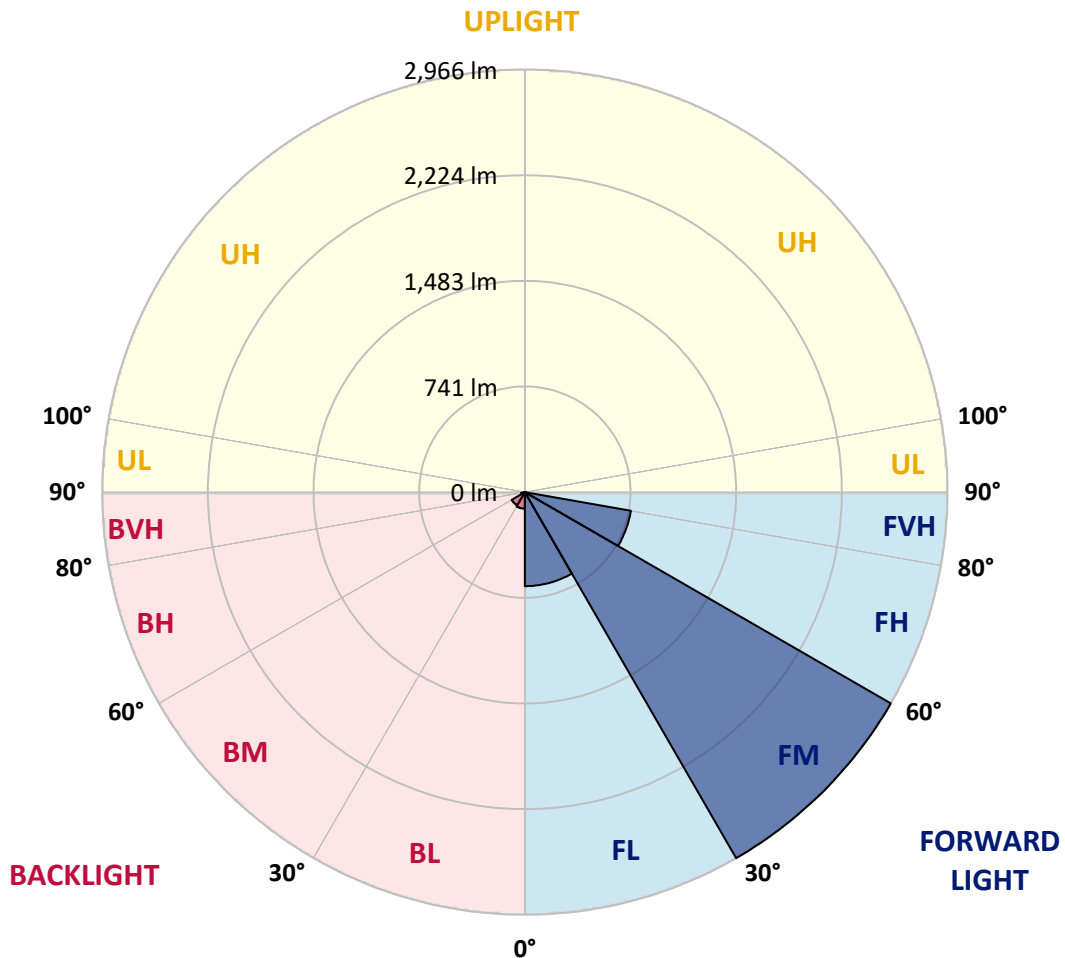
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 CATALOG NUMBER: CCP-SA-2A-750-U-AFL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	659.8	14.2			
FM (30°-60°)	2965.8	63.9			
FH (60°-80°)	755.7	16.3			G1/1800
FVH (80°-90°)	9.1	0.2			G0/10
BL (0°-30°)	115.8	2.5	B1/500		
BM (30°-60°)	106.9	2.3	B0/220		
BH (60°-80°)	27.4	0.6	B0/110		G0/110
BVH (80°-90°)	0.8	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 Short





REPORT NUMBER: P674431

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2
2.5°	1302.5	1294.8	1299.3	1287.5	1265.9	1239.1	1198.8	1200.8	1169.1	1141.5	1103.3
5°	1517.6	1509.5	1507.1	1477.0	1446.9	1398.5	1338.7	1328.9	1270.8	1200.4	1120.3
7.5°	1631.1	1624.2	1629.5	1618.5	1588.8	1544.9	1469.2	1461.9	1372.0	1265.5	1147.6
10°	1579.0	1576.6	1599.0	1625.0	1649.0	1643.7	1583.1	1571.7	1470.9	1337.1	1175.6
12.5°	1439.1	1446.9	1475.3	1523.3	1597.3	1666.9	1657.1	1659.1	1571.7	1414.7	1206.5
15°	1357.0	1366.4	1382.6	1407.4	1498.5	1622.1	1685.2	1705.5	1668.5	1501.4	1243.1
17.5°	1350.1	1357.8	1360.3	1369.6	1422.9	1550.2	1673.8	1712.4	1754.7	1583.1	1284.2
20°	1403.4	1406.6	1404.6	1397.7	1416.8	1511.1	1638.0	1693.3	1825.9	1670.1	1320.4
22.5°	1503.8	1498.9	1492.8	1467.2	1466.0	1522.1	1618.5	1676.2	1868.2	1742.1	1344.4
25°	1628.2	1618.1	1609.5	1573.3	1556.3	1579.4	1636.0	1682.3	1906.4	1812.0	1361.5
27.5°	1764.1	1767.3	1746.2	1697.4	1670.5	1665.7	1690.1	1724.6	1943.4	1874.7	1370.8
30°	1909.2	1910.9	1883.2	1832.8	1808.4	1777.1	1775.4	1796.2	1983.2	1946.7	1379.8
32.5°	2074.7	2079.2	2034.1	1981.6	1938.9	1898.3	1878.3	1895.8	2054.8	2040.6	1398.1
35°	2313.9	2294.3	2233.3	2154.0	2093.5	2040.2	2009.7	2021.1	2150.0	2153.2	1434.7
37.5°	2560.3	2558.3	2490.8	2376.5	2277.3	2211.0	2158.9	2177.6	2283.8	2304.1	1493.2
40°	2790.1	2795.3	2736.8	2637.1	2509.5	2395.6	2339.9	2352.5	2461.5	2487.1	1564.4
42.5°	2940.1	2937.3	2941.7	2913.3	2785.2	2651.0	2567.2	2574.1	2668.1	2681.5	1653.5
45°	3009.2	2998.3	3036.5	3126.8	3075.9	2934.8	2839.3	2830.7	2882.4	2878.7	1734.4
47.5°	2949.5	2929.1	3017.0	3234.5	3332.9	3290.2	3153.6	3138.1	3094.2	3064.9	1818.6
50°	2652.2	2643.2	2831.1	3183.3	3494.4	3618.8	3518.4	3461.0	3283.3	3202.4	1862.9
52.5°	2369.6	2344.8	2471.6	2921.8	3422.4	3883.1	3903.9	3801.8	3440.3	3241.8	1847.8
55°	1914.1	1883.6	2021.9	2400.5	3137.3	3916.9	4174.7	4121.4	3577.7	3193.0	1817.3
57.5°	1162.6	1132.5	1335.9	1719.3	2509.1	3636.3	4108.0	4162.1	3683.5	3139.4	1797.4
60°	488.8	469.7	549.4	820.6	1602.2	2988.5	3754.2	3889.2	3703.4	3065.8	1805.5
62.5°	254.2	245.6	250.1	328.6	647.8	1967.8	3124.7	3359.8	3502.5	3033.2	1813.7
65°	190.7	184.2	170.0	180.6	251.7	850.7	2245.5	2560.3	3067.0	2950.7	1758.8
67.5°	156.6	150.5	140.3	137.0	148.4	295.2	1146.4	1555.5	2403.3	2598.9	1562.0
70°	124.8	122.8	119.6	113.5	111.4	143.1	411.1	634.0	1589.2	1832.8	1132.1
72.5°	104.1	104.5	100.9	95.6	88.2	92.3	163.9	216.7	769.0	878.8	474.2
75°	87.0	87.0	88.2	80.9	73.6	63.4	91.1	105.7	246.8	202.9	101.3
77.5°	68.3	69.1	74.4	68.3	59.0	39.9	49.6	56.5	73.2	58.6	37.0
80°	54.5	53.7	51.6	61.4	52.9	28.1	23.6	26.0	34.2	28.1	18.3
82.5°	38.2	37.8	36.2	41.5	41.1	20.7	15.5	15.9	20.7	17.9	11.4
85°	9.4	11.0	23.2	19.5	17.1	12.2	9.4	10.2	13.4	11.8	6.1
87.5°	4.1	4.1	10.6	12.6	8.1	5.3	4.1	4.5	6.9	6.9	3.7
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°	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2	1086.2
2.5°	1089.8	1063.4	1030.1	994.7	958.5	915.0	887.3	864.5	846.7	832.8	827.9
5°	1093.9	1043.1	967.4	873.5	777.9	688.5	619.3	568.1	525.8	502.6	492.5
7.5°	1093.5	1026.0	889.4	732.0	576.6	447.7	356.2	299.7	261.9	246.4	237.1
10°	1093.1	1003.6	800.3	575.0	385.5	259.4	191.1	159.4	145.6	140.3	139.5
12.5°	1104.9	978.0	700.7	423.3	242.0	161.4	133.0	125.7	122.4	120.8	120.4
15°	1111.4	954.4	595.7	298.9	163.1	127.7	118.7	115.5	114.3	113.5	113.0
17.5°	1118.3	917.8	496.1	216.3	130.5	115.9	110.6	108.6	107.8	107.8	107.8
20°	1119.5	878.4	397.3	159.4	115.9	108.2	102.9	100.9	99.6	98.8	98.8
22.5°	1110.6	831.6	312.3	129.3	107.4	100.9	95.2	91.9	89.9	89.5	89.5
25°	1088.2	765.3	239.5	113.5	100.4	93.5	86.6	83.0	81.3	81.3	81.3
27.5°	1056.1	687.2	185.0	100.9	91.5	84.6	78.5	75.2	74.8	74.4	74.8
30°	1019.5	612.0	141.5	89.5	80.9	75.2	70.4	68.7	69.5	69.5	69.9
32.5°	982.9	536.8	110.6	80.5	71.6	66.7	64.3	64.3	65.5	65.5	65.5
35°	951.6	463.2	92.7	73.2	65.1	61.0	59.8	61.0	61.8	62.2	62.2
37.5°	934.1	399.7	81.7	66.7	59.8	56.5	56.1	57.3	59.0	60.2	60.6
40°	927.6	350.9	75.2	61.8	54.9	52.9	52.5	54.1	56.9	59.0	59.4
42.5°	928.0	307.8	69.5	56.9	51.6	48.8	48.8	51.2	54.1	56.1	56.1
45°	930.8	270.8	63.8	52.1	48.8	43.9	44.3	47.6	49.6	51.6	51.6
47.5°	933.3	241.1	57.7	46.8	42.3	39.9	40.7	43.1	46.0	49.2	49.2
50°	919.0	220.0	51.6	41.1	37.0	36.2	37.8	39.9	43.9	47.2	47.6
52.5°	884.9	200.9	46.4	36.6	33.3	33.8	35.8	37.0	40.3	40.7	41.1
55°	869.8	191.1	42.3	33.3	30.5	31.7	32.9	33.3	32.5	30.5	30.5
57.5°	866.6	184.6	38.2	30.1	28.1	29.7	29.3	26.8	24.4	22.0	21.6
60°	869.8	175.7	35.0	26.0	25.6	26.0	24.8	20.3	17.1	15.5	14.6
62.5°	851.1	162.7	32.1	22.4	22.4	22.0	18.7	13.8	11.0	9.8	9.4
65°	789.3	137.0	29.3	18.7	18.3	17.5	12.6	9.4	7.3	6.1	5.7
67.5°	667.7	106.1	26.4	15.5	14.6	12.2	8.1	6.1	4.1	3.7	3.3
70°	455.5	65.9	22.4	12.2	11.0	7.7	4.9	3.7	2.4	2.0	1.6
72.5°	165.1	38.2	18.7	9.4	7.3	4.9	2.8	1.6	1.2	1.2	0.8
75°	39.0	26.8	14.2	6.9	4.9	2.8	1.6	1.2	0.8	0.8	0.4
77.5°	17.9	20.7	9.4	4.1	3.3	2.0	1.2	0.8	0.4	0.4	0.0
80°	10.2	14.6	4.5	2.8	2.4	1.6	0.8	0.4	0.4	0.0	0.0
82.5°	5.3	8.1	3.3	2.4	2.0	1.2	0.8	0.0	0.0	0.0	0.0
85°	3.7	4.1	2.4	2.0	1.6	1.2	0.8	0.0	0.0	0.0	0.0
87.5°	2.8	2.8	2.4	2.0	1.6	1.2	0.4	0.0	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)