

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: P674473

Luminaire Tested: **CCP-SA-1E-835-U-AFL-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674473  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1E-835-U-AFL-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1050mA w/ AFL distribution lens and House Side Shield  
Light Source: (16) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

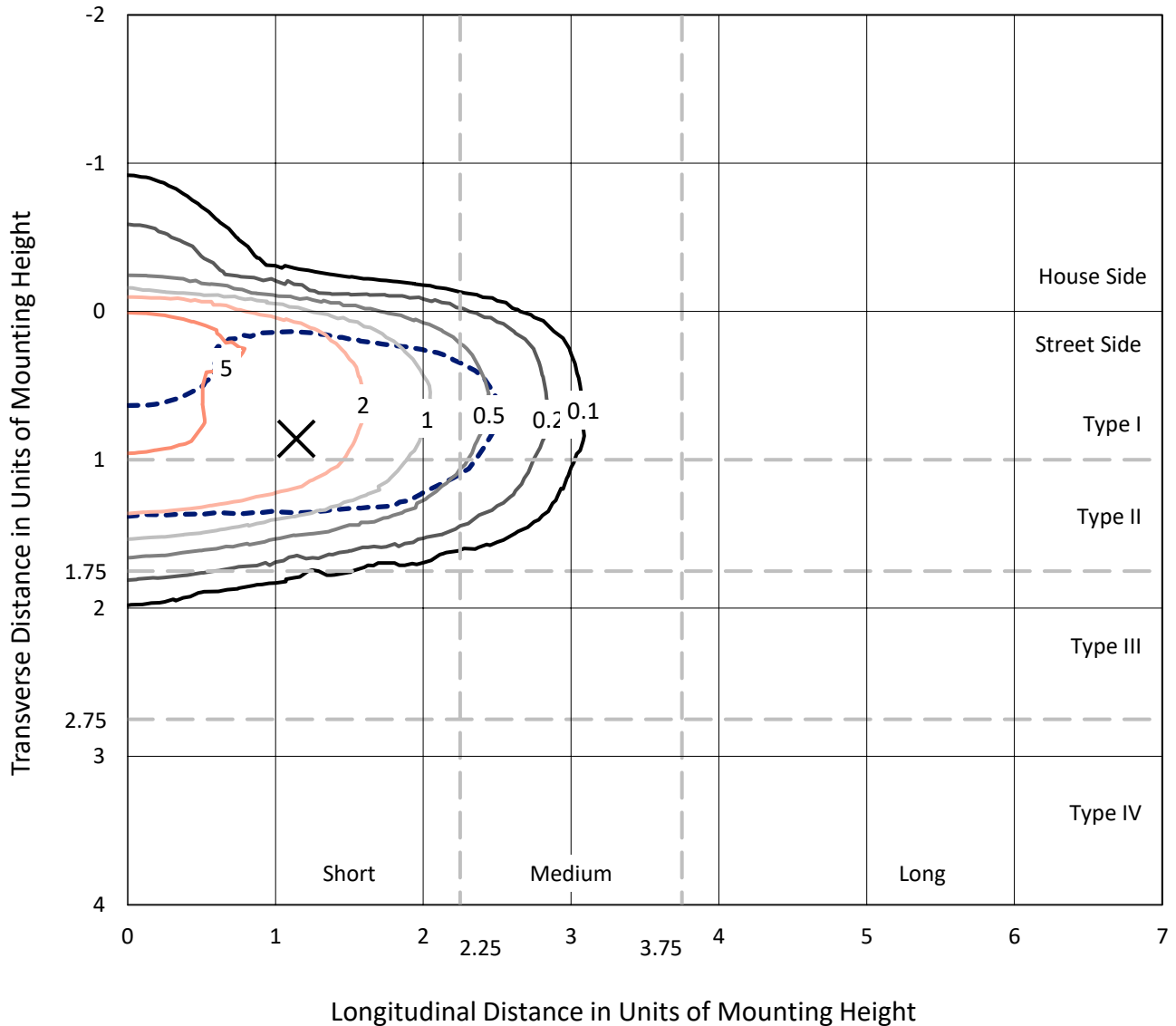
Lumens per Lamp: N/A  
Luminaire Lumens: 4671.8 lumens  
Efficiency: N/A  
Efficacy: 83.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 56.1  
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

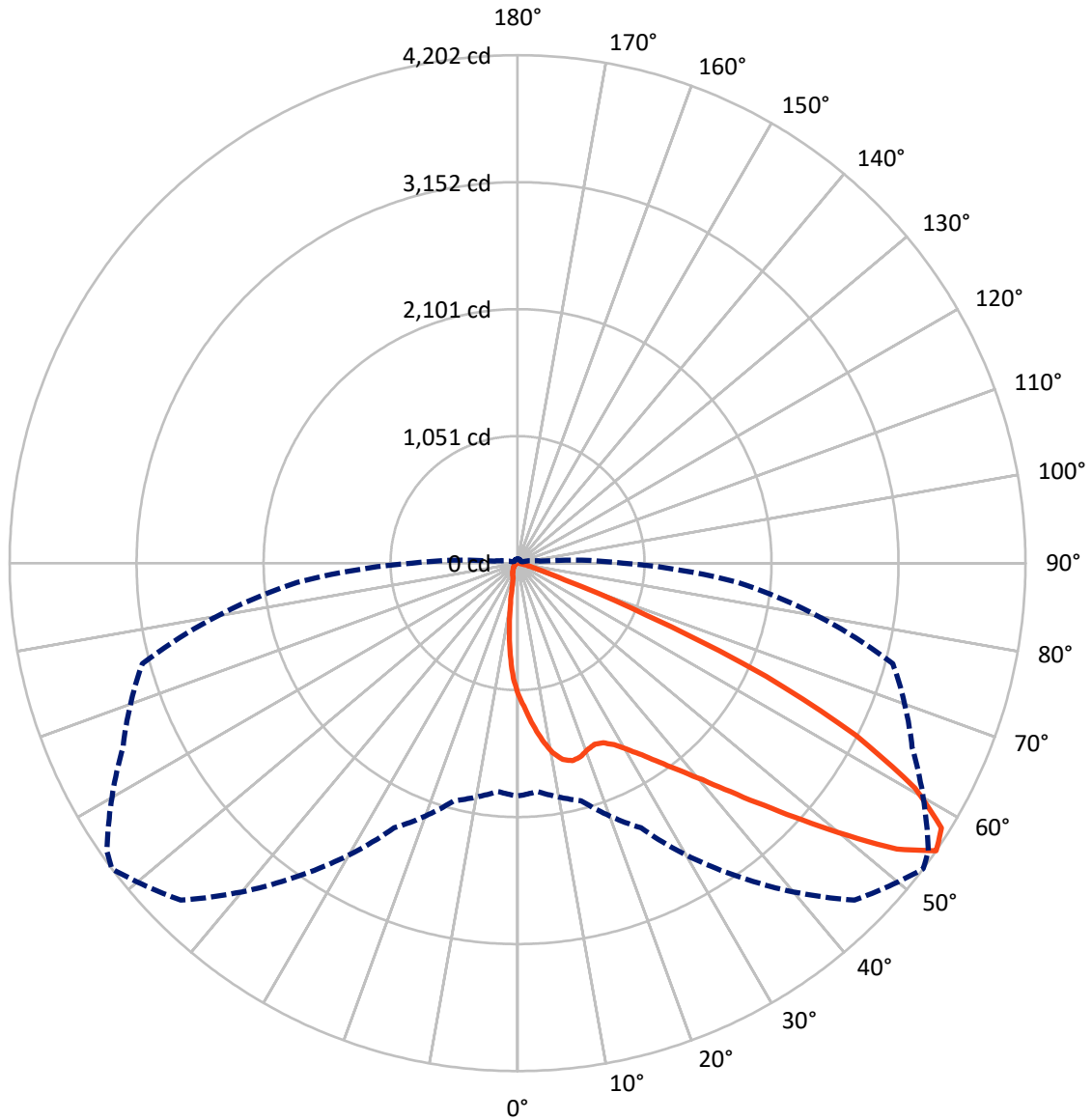
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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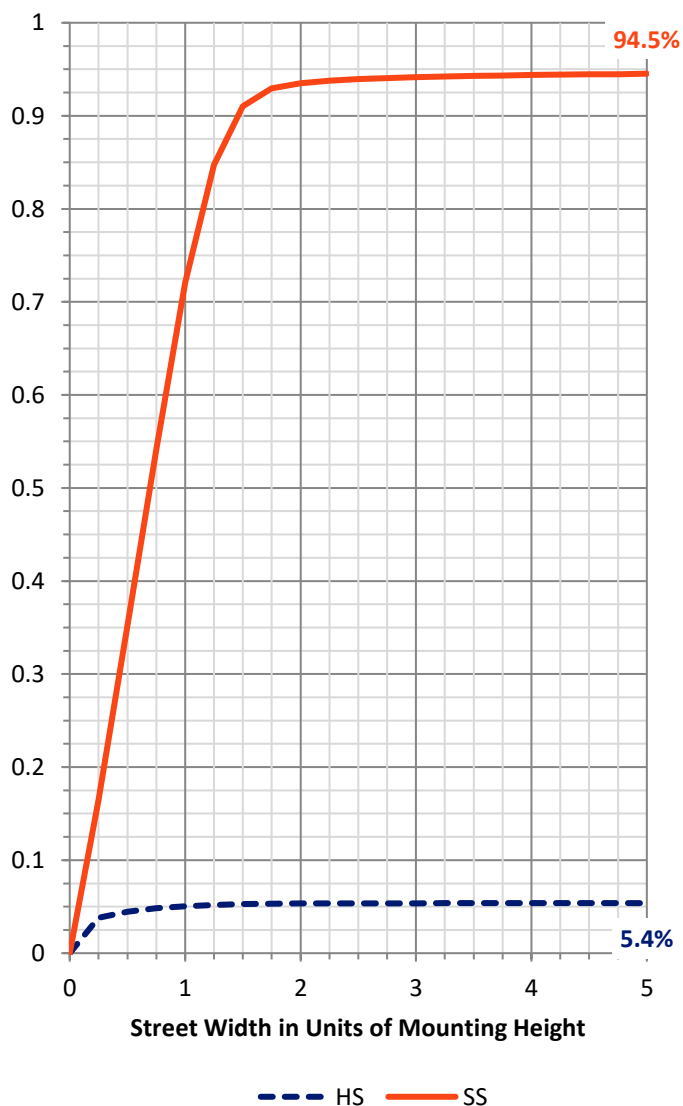
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	252.5	0.0	252.5
	% Fixture	5.4	0.0	5.4
<b>Street Side</b>	Lumens	4419.3	0.0	4419.3
	% Fixture	94.6	0.0	94.6
<b>Total</b>	Lumens	4671.8	0.0	4671.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.7	2.1
10°-20°	255.4	5.5
20°-30°	427.5	9.2
30°-40°	699.4	15.0
40°-50°	1124.2	24.1
50°-60°	1269.3	27.2
60°-70°	677.0	14.5
70°-80°	111.2	2.4
80°-90°	10.0	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°	4671.8	100.0
0°-180°	4671.8	100.0



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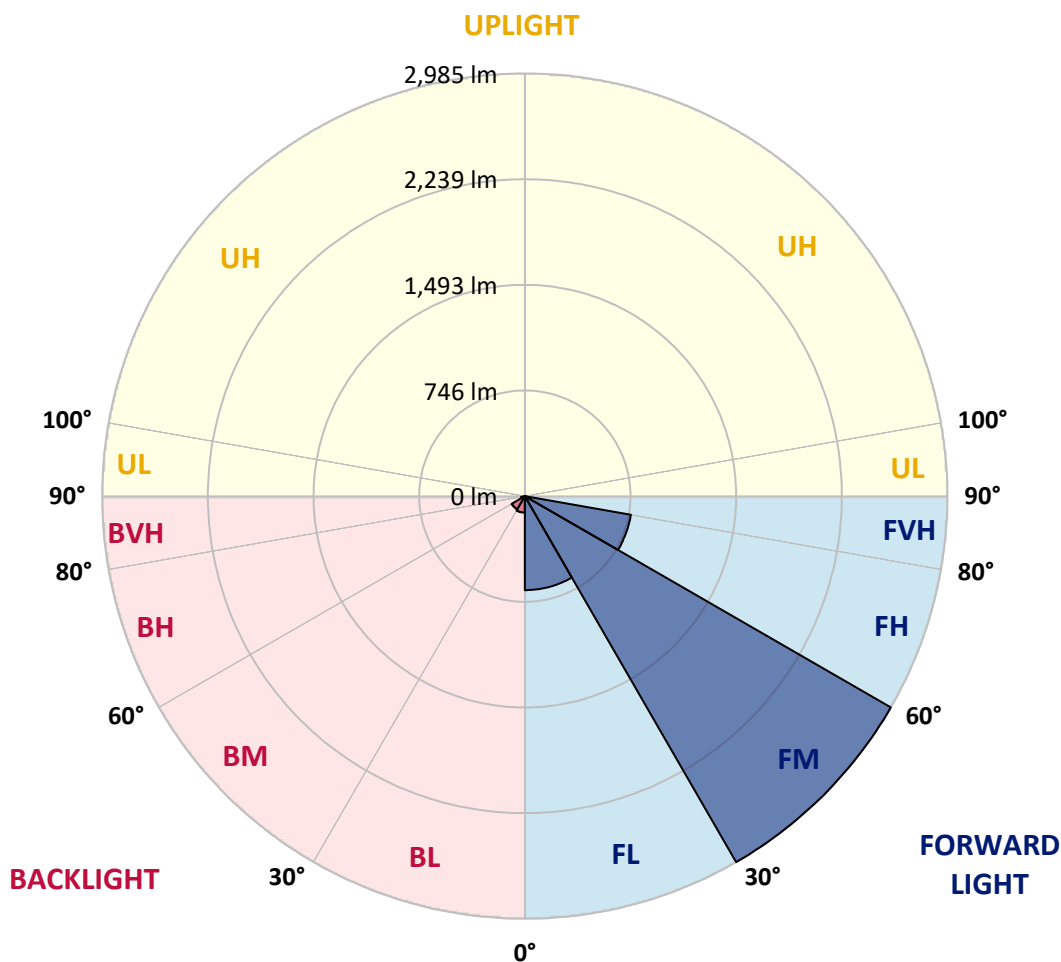
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	664.1	14.2			
FM (30°-60°)	2985.3	63.9			
FH (60°-80°)	760.7	16.3			G1/1800
FVH (80°-90°)	9.1	0.2			G0/10
BL (0°-30°)	116.5	2.5	B1/500		
BM (30°-60°)	107.6	2.3	B0/220		
BH (60°-80°)	27.6	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1093.3	1093.3	1093.3	1093.3	1093.3	1093.3	1093.3	1093.3	1093.3	1093.3	1093.3
2.5°	1311.1	1303.3	1307.8	1295.9	1274.2	1247.2	1206.7	1208.7	1176.8	1149.0	1110.5
5°	1527.6	1519.4	1517.0	1486.7	1456.4	1407.7	1347.5	1337.7	1279.1	1208.3	1127.7
7.5°	1641.8	1634.8	1640.2	1629.1	1599.2	1555.0	1478.9	1471.5	1381.1	1273.8	1155.1
10°	1589.4	1587.0	1609.5	1635.7	1659.8	1654.5	1593.5	1582.0	1480.5	1345.9	1183.4
12.5°	1448.6	1456.4	1485.0	1533.3	1607.8	1677.8	1668.0	1670.1	1582.0	1424.0	1214.5
15°	1365.9	1375.3	1391.7	1416.7	1508.4	1632.8	1696.2	1716.7	1679.5	1511.2	1251.3
17.5°	1359.0	1366.7	1369.2	1378.6	1432.2	1560.4	1684.8	1723.7	1766.2	1593.5	1292.7
20°	1412.6	1415.9	1413.8	1406.9	1426.1	1521.1	1648.8	1704.4	1837.9	1681.1	1329.1
22.5°	1513.7	1508.8	1502.6	1476.8	1475.6	1532.1	1629.1	1687.2	1880.4	1753.6	1353.2
25°	1638.9	1628.7	1620.1	1583.7	1566.5	1589.8	1646.7	1693.4	1918.9	1824.0	1370.4
27.5°	1775.7	1778.9	1757.6	1708.5	1681.5	1676.6	1701.2	1736.0	1956.2	1887.0	1379.8
30°	1921.8	1923.4	1895.6	1844.8	1820.3	1788.8	1787.1	1808.0	1996.3	1959.4	1388.8
32.5°	2088.4	2092.9	2047.4	1994.6	1951.7	1910.7	1890.7	1908.3	2068.3	2054.0	1407.3
35°	2329.1	2309.4	2248.0	2168.2	2107.2	2053.6	2022.9	2034.4	2164.1	2167.4	1444.1
37.5°	2577.1	2575.1	2507.1	2392.1	2292.2	2225.5	2173.1	2191.9	2298.8	2319.2	1503.0
40°	2808.4	2813.7	2754.8	2654.5	2526.0	2411.3	2355.3	2368.0	2477.7	2503.4	1574.7
42.5°	2959.4	2956.6	2961.1	2932.4	2803.5	2668.4	2584.1	2591.0	2685.6	2699.1	1664.3
45°	3029.0	3018.0	3056.4	3147.3	3096.1	2954.1	2857.9	2849.3	2901.3	2897.6	1745.8
47.5°	2968.8	2948.4	3036.8	3255.8	3354.8	3311.9	3174.3	3158.8	3114.6	3085.1	1830.5
50°	2669.6	2660.6	2849.7	3204.2	3517.3	3642.6	3541.5	3483.8	3304.9	3223.4	1875.1
52.5°	2385.1	2360.2	2487.9	2941.0	3444.9	3908.7	3929.5	3826.8	3462.9	3263.1	1860.0
55°	1926.7	1896.0	2035.2	2416.3	3158.0	3942.6	4202.1	4148.5	3601.3	3214.0	1829.3
57.5°	1170.3	1140.0	1344.6	1730.6	2525.5	3660.2	4135.0	4189.5	3707.7	3160.0	1809.2
60°	492.0	472.8	553.0	826.0	1612.7	3008.1	3778.9	3914.8	3727.7	3085.9	1817.4
62.5°	255.8	247.2	251.7	330.7	652.1	1980.7	3145.3	3381.9	3525.5	3053.2	1825.6
65°	192.0	185.4	171.1	181.7	253.4	856.3	2260.3	2577.1	3087.1	2970.1	1770.3
67.5°	157.6	151.5	141.2	137.9	149.4	297.2	1153.9	1565.7	2419.1	2616.0	1572.2
70°	125.7	123.6	120.3	114.2	112.2	144.1	413.8	638.1	1599.6	1844.8	1139.6
72.5°	104.8	105.2	101.5	96.2	88.8	92.9	165.0	218.2	774.0	884.6	477.3
75°	87.6	87.6	88.8	81.5	74.1	63.9	91.7	106.4	248.5	204.3	101.9
77.5°	68.8	69.6	74.9	68.8	59.4	40.1	49.9	56.9	73.7	58.9	37.2
80°	54.8	54.0	52.0	61.8	53.2	28.2	23.7	26.2	34.4	28.2	18.4
82.5°	38.5	38.1	36.4	41.8	41.3	20.9	15.6	16.0	20.9	18.0	11.5
85°	9.4	11.1	23.3	19.6	17.2	12.3	9.4	10.2	13.5	11.9	6.1
87.5°	4.1	4.1	10.6	12.7	8.2	5.3	4.1	4.5	7.0	7.0	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°	1093.3	1093.3	1093.3	1093.3	1093.3	1093.3	1093.3	1093.3	1093.3	1093.3	1093.3
2.5°	1097.0	1070.4	1036.8	1001.2	964.8	921.0	893.1	870.2	852.2	838.3	833.4
5°	1101.1	1049.9	973.8	879.2	783.0	693.0	623.4	571.8	529.3	505.9	495.7
7.5°	1100.7	1032.7	895.2	736.8	580.4	450.7	358.6	301.7	263.6	248.1	238.6
10°	1100.3	1010.2	805.6	578.8	388.0	261.2	192.4	160.5	146.5	141.2	140.4
12.5°	1112.1	984.4	705.3	426.1	243.5	162.5	133.8	126.5	123.2	121.6	121.2
15°	1118.7	960.7	599.7	300.9	164.1	128.5	119.5	116.2	115.0	114.2	113.8
17.5°	1125.6	923.8	499.4	217.8	131.4	116.7	111.3	109.3	108.5	108.5	108.5
20°	1126.9	884.1	399.9	160.5	116.7	108.9	103.6	101.5	100.3	99.5	99.5
22.5°	1117.9	837.1	314.4	130.2	108.1	101.5	95.8	92.5	90.5	90.1	90.1
25°	1095.4	770.4	241.1	114.2	101.1	94.1	87.2	83.5	81.9	81.9	81.9
27.5°	1063.0	691.8	186.2	101.5	92.1	85.1	79.0	75.7	75.3	74.9	75.3
30°	1026.2	616.0	142.4	90.1	81.5	75.7	70.8	69.2	70.0	70.0	70.4
32.5°	989.3	540.3	111.3	81.0	72.0	67.1	64.7	64.7	65.9	65.9	65.9
35°	957.8	466.2	93.3	73.7	65.5	61.4	60.2	61.4	62.2	62.6	62.6
37.5°	940.2	402.4	82.3	67.1	60.2	56.9	56.5	57.7	59.4	60.6	61.0
40°	933.7	353.2	75.7	62.2	55.3	53.2	52.8	54.4	57.3	59.4	59.8
42.5°	934.1	309.9	70.0	57.3	52.0	49.1	49.1	51.6	54.4	56.5	56.5
45°	936.9	272.6	64.3	52.4	49.1	44.2	44.6	47.9	49.9	52.0	52.0
47.5°	939.4	242.7	58.1	47.1	42.6	40.1	40.9	43.4	46.3	49.5	49.5
50°	925.1	221.4	52.0	41.3	37.2	36.4	38.1	40.1	44.2	47.5	47.9
52.5°	890.7	202.2	46.7	36.8	33.6	34.0	36.0	37.2	40.5	40.9	41.3
55°	875.5	192.4	42.6	33.6	30.7	31.9	33.2	33.6	32.7	30.7	30.7
57.5°	872.3	185.8	38.5	30.3	28.2	29.9	29.5	27.0	24.6	22.1	21.7
60°	875.5	176.8	35.2	26.2	25.8	26.2	25.0	20.5	17.2	15.6	14.7
62.5°	856.7	163.7	32.3	22.5	22.5	22.1	18.8	13.9	11.1	9.8	9.4
65°	794.5	137.9	29.5	18.8	18.4	17.6	12.7	9.4	7.4	6.1	5.7
67.5°	672.1	106.8	26.6	15.6	14.7	12.3	8.2	6.1	4.1	3.7	3.3
70°	458.4	66.3	22.5	12.3	11.1	7.8	4.9	3.7	2.5	2.0	1.6
72.5°	166.2	38.5	18.8	9.4	7.4	4.9	2.9	1.6	1.2	1.2	0.8
75°	39.3	27.0	14.3	7.0	4.9	2.9	1.6	1.2	0.8	0.8	0.4
77.5°	18.0	20.9	9.4	4.1	3.3	2.0	1.2	0.8	0.4	0.4	0.0
80°	10.2	14.7	4.5	2.9	2.5	1.6	0.8	0.4	0.4	0.0	0.0
82.5°	5.3	8.2	3.3	2.5	2.0	1.2	0.8	0.0	0.0	0.0	0.0
85°	3.7	4.1	2.5	2.0	1.6	1.2	0.8	0.0	0.0	0.0	0.0
87.5°	2.9	2.9	2.5	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)