

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: P671444

Luminaire Tested: **CCP-SA-2E-830-U-SL3**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671444  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2E-830-U-SL3  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/ SL3 distribution lens  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

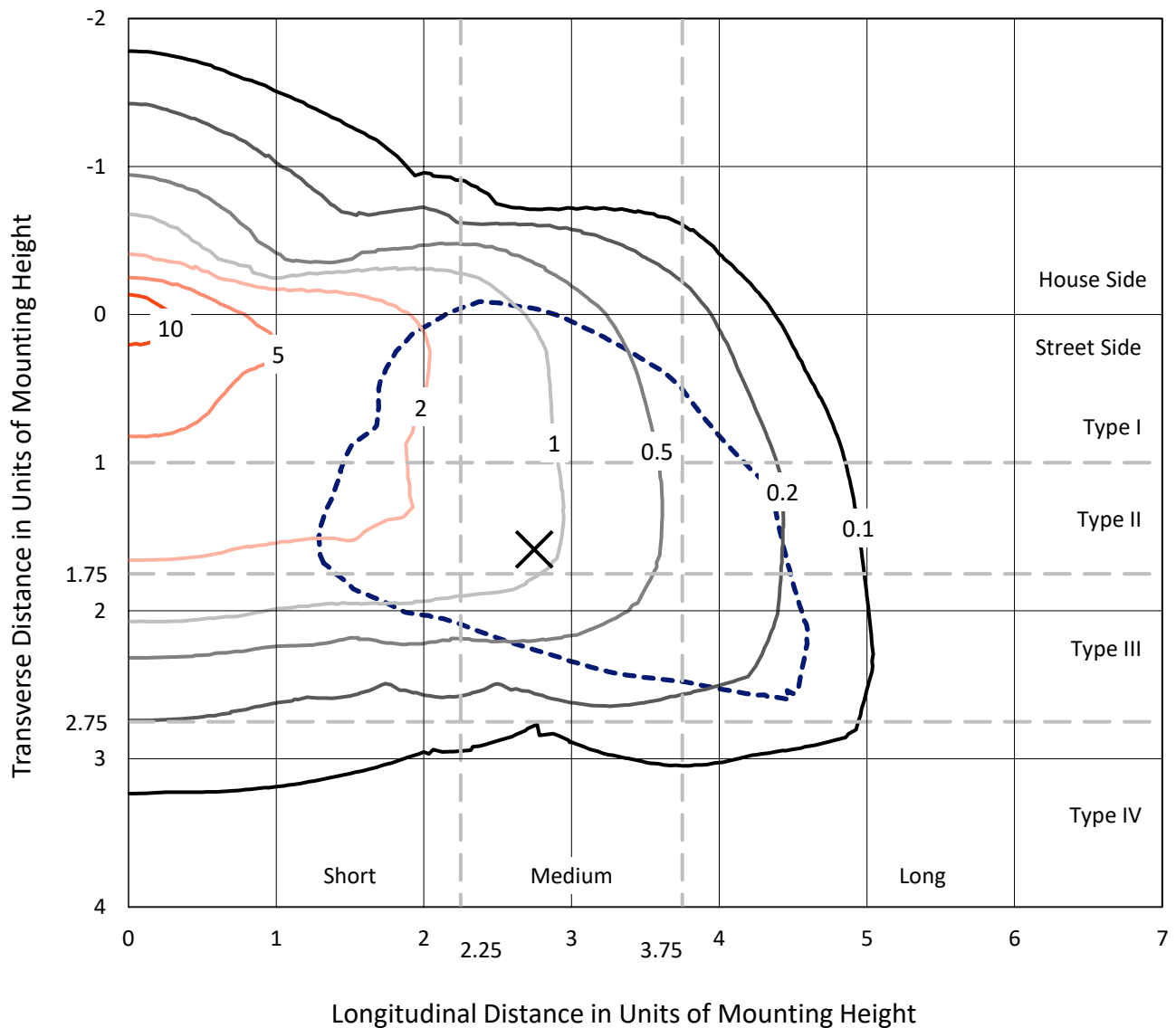
Lumens per Lamp: N/A  
Luminaire Lumens: 10742.3 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

Input Watts (W): 106.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

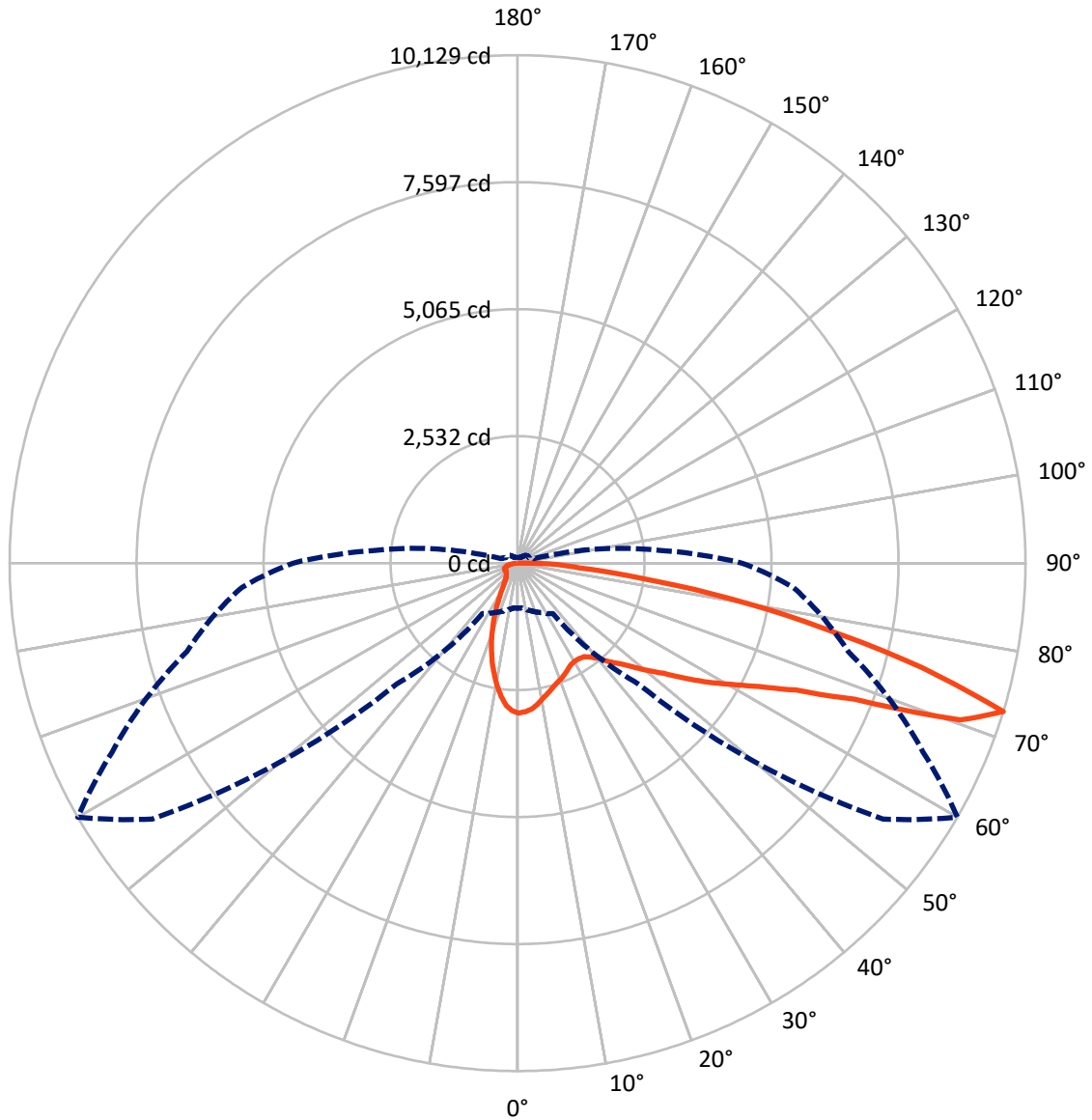
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 13.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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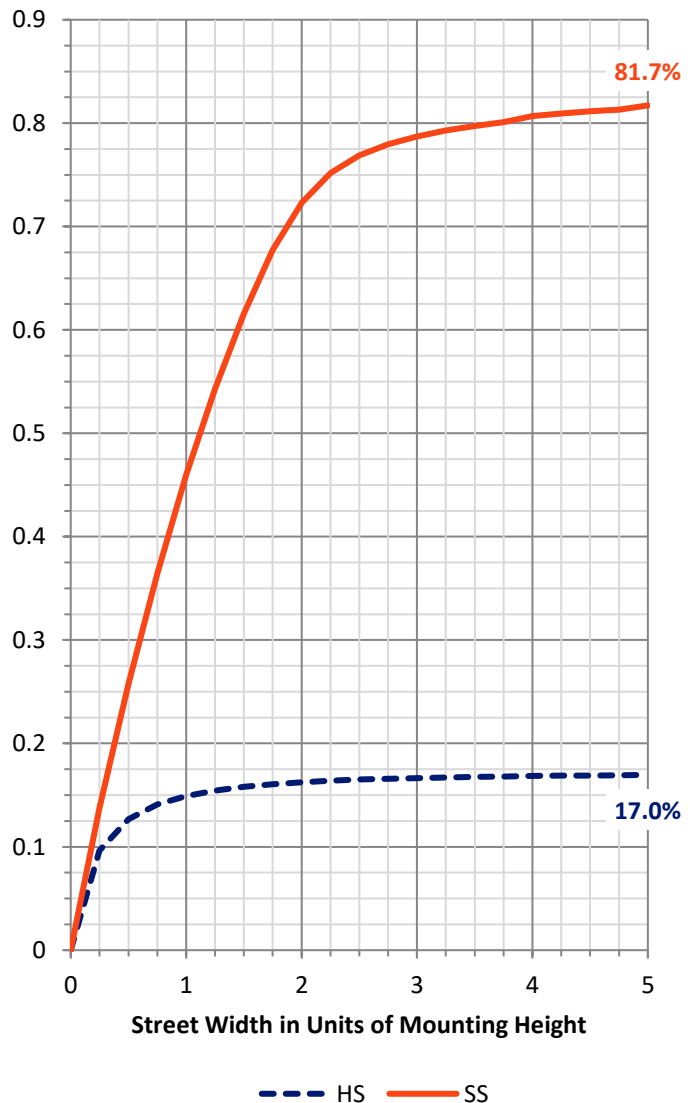
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1845.3	0.0	1845.3
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	8896.9	0.0	8896.9
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	10742.3	0.0	10742.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	259.3	2.4
10°-20°	587.9	5.5
20°-30°	752.4	7.0
30°-40°	962.6	9.0
40°-50°	1320.2	12.3
50°-60°	1909.5	17.8
60°-70°	2619.5	24.4
70°-80°	1965.7	18.3
80°-90°	365.4	3.4
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°	10742.3	100.0
0°-180°	10742.3	100.0



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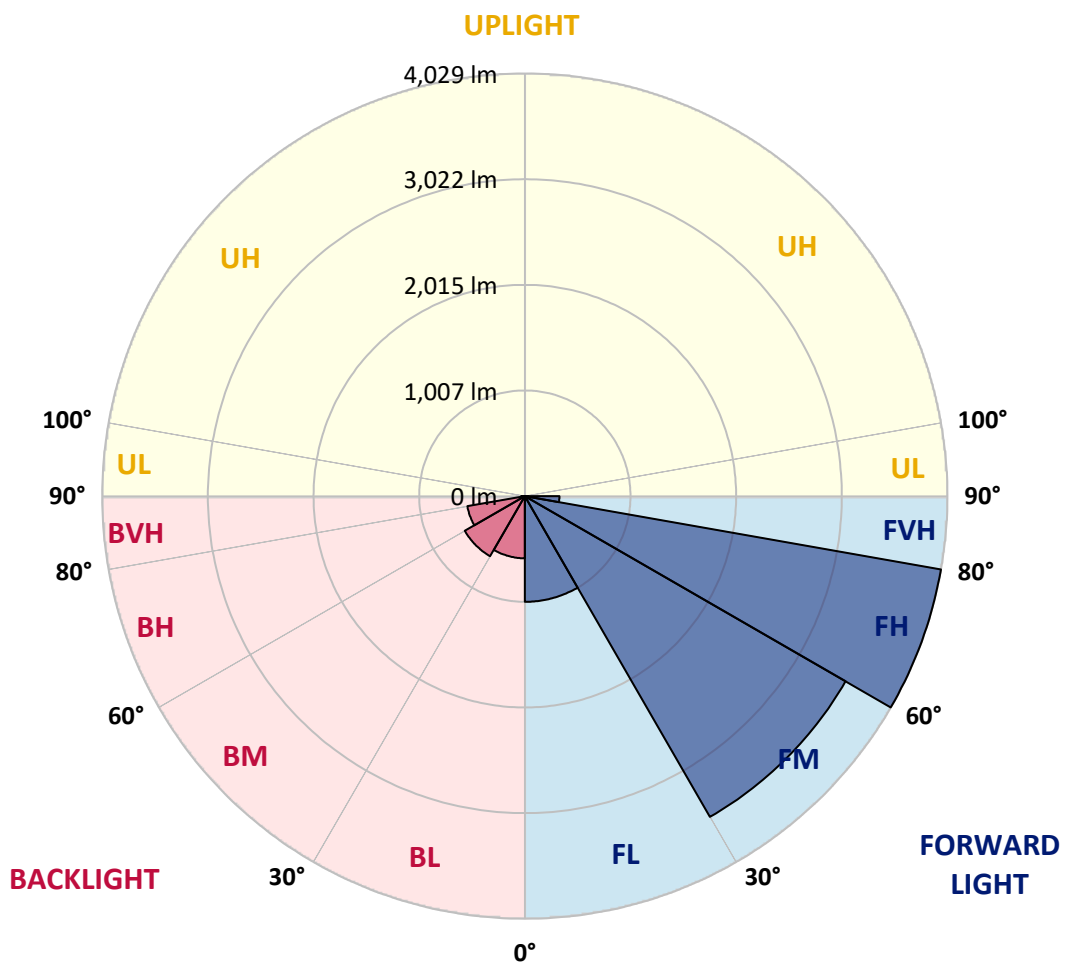
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1007.2	9.4			
FM (30°-60°)	3530.9	32.9			
FH (60°-80°)	4029.0	37.5			G2/5000
FVH (80°-90°)	329.8	3.1			G3/500
BL (0°-30°)	592.4	5.5	B2/1000		
BM (30°-60°)	661.3	6.2	B1/1000		
BH (60°-80°)	556.1	5.2	B2/1000		G2/1000
BVH (80°-90°)	35.6	0.3			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	2991.2	2991.2	2991.2	2991.2	2991.2	2991.2	2991.2	2991.2	2991.2	2991.2	2991.2
2.5°	2927.2	2955.2	2963.2	2963.2	2987.2	2959.2	2999.2	2967.2	2975.2	2987.2	2979.2
5°	2787.2	2835.2	2807.2	2859.2	2839.2	2875.2	2923.2	2923.2	2911.2	2935.2	2915.2
7.5°	2651.3	2635.3	2683.3	2683.3	2715.3	2763.3	2803.2	2843.2	2847.2	2855.2	2851.2
10°	2467.3	2487.3	2511.3	2543.3	2583.3	2631.3	2715.3	2747.3	2755.3	2803.2	2791.2
12.5°	2315.4	2343.4	2359.4	2423.3	2459.3	2527.3	2623.3	2667.3	2671.3	2739.3	2739.3
15°	2203.4	2219.4	2255.4	2279.4	2359.4	2455.3	2547.3	2587.3	2631.3	2703.3	2683.3
17.5°	2127.4	2147.4	2163.4	2195.4	2271.4	2351.4	2495.3	2519.3	2571.3	2675.3	2651.3
20°	2083.4	2087.4	2111.4	2131.4	2199.4	2275.4	2403.4	2467.3	2535.3	2627.3	2603.3
22.5°	2091.4	2075.4	2071.4	2099.4	2111.4	2183.4	2339.4	2407.3	2503.3	2611.3	2571.3
25°	2107.4	2111.4	2103.4	2079.4	2083.4	2147.4	2251.4	2339.4	2447.3	2607.3	2527.3
27.5°	2147.4	2167.4	2135.4	2111.4	2087.4	2111.4	2219.4	2283.4	2403.4	2627.3	2523.3
30°	2187.4	2207.4	2199.4	2163.4	2115.4	2107.4	2183.4	2263.4	2379.4	2643.3	2523.3
32.5°	2247.4	2275.4	2247.4	2259.4	2203.4	2167.4	2195.4	2267.4	2403.4	2699.3	2527.3
35°	2315.4	2339.4	2347.4	2319.4	2307.4	2239.4	2255.4	2291.4	2427.3	2763.3	2567.3
37.5°	2391.4	2419.3	2443.3	2447.3	2407.3	2367.4	2359.4	2379.4	2487.3	2875.2	2611.3
40°	2443.3	2459.3	2507.3	2547.3	2559.3	2503.3	2499.3	2499.3	2595.3	2975.2	2691.3
42.5°	2531.3	2523.3	2591.3	2663.3	2683.3	2651.3	2659.3	2691.3	2747.3	3119.2	2819.2
45°	2575.3	2567.3	2647.3	2767.3	2859.2	2843.2	2851.2	2863.2	2915.2	3347.1	3035.2
47.5°	2635.3	2643.3	2759.3	2895.2	2991.2	3047.2	3091.2	3087.2	3127.2	3579.0	3275.1
50°	2695.3	2711.3	2851.2	2995.2	3163.1	3259.1	3323.1	3367.1	3407.1	3823.0	3551.0
52.5°	2811.2	2827.2	2983.2	3139.2	3355.1	3495.1	3655.0	3651.0	3655.0	4066.9	3827.0
55°	2979.2	2983.2	3075.2	3255.1	3547.0	3803.0	4022.9	4046.9	3978.9	4370.8	4142.9
57.5°	3171.1	3187.1	3267.1	3403.1	3699.0	4098.9	4434.8	4482.8	4298.8	4618.8	4430.8
60°	3351.1	3363.1	3487.1	3643.0	3962.9	4470.8	4850.7	4906.7	4706.7	4922.7	4730.7
62.5°	3147.1	3207.1	3427.1	3783.0	4426.8	5034.6	5378.5	5414.5	5102.6	5230.6	5050.6
65°	2519.3	2559.3	2875.2	3451.1	4458.8	6058.4	6194.3	6098.4	5646.5	5626.5	5534.5
67.5°	1403.6	1435.6	1651.6	2255.4	3755.0	6442.3	7949.9	7246.0	6490.2	6222.3	6190.3
70°	1107.7	1115.7	1143.7	1267.7	2083.4	5678.5	9333.5	9365.5	7869.9	7042.1	6330.3
72.5°	899.8	895.8	979.7	1087.7	1231.7	3407.1	8897.6	10129.3	8925.6	6826.2	5514.5
75°	687.8	699.8	807.8	963.7	1127.7	1603.6	6638.2	8333.7	8361.7	6362.3	4650.7
77.5°	523.9	527.9	647.8	851.8	1103.7	1131.7	4330.8	6210.3	6238.3	4926.7	2563.3
80°	391.9	391.9	491.9	719.8	1075.7	1043.7	2667.3	4306.8	3898.9	1731.5	559.8
82.5°	223.9	239.9	327.9	547.9	975.7	1003.7	1503.6	2467.3	1647.6	471.9	259.9
85°	120.0	124.0	199.9	367.9	803.8	959.7	1147.7	1227.7	655.8	251.9	120.0
87.5°	44.0	44.0	92.0	187.9	507.9	711.8	911.8	783.8	375.9	116.0	60.0
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°	2991.2	2991.2	2991.2	2991.2	2991.2	2991.2	2991.2	2991.2	2991.2	2991.2	2991.2
2.5°	2987.2	2971.2	2959.2	2971.2	2927.2	2907.2	2931.2	2919.2	2895.2	2883.2	2875.2
5°	2927.2	2907.2	2887.2	2875.2	2827.2	2779.2	2755.3	2707.3	2667.3	2679.3	2655.3
7.5°	2863.2	2843.2	2783.2	2727.3	2631.3	2535.3	2491.3	2423.3	2399.4	2379.4	2367.4
10°	2783.2	2747.3	2655.3	2543.3	2403.4	2295.4	2183.4	2103.4	2019.5	1983.5	1995.5
12.5°	2683.3	2663.3	2519.3	2347.4	2151.4	1971.5	1839.5	1711.5	1599.6	1539.6	1523.6
15°	2639.3	2579.3	2371.4	2143.4	1895.5	1671.5	1475.6	1251.7	1119.7	1055.7	1055.7
17.5°	2591.3	2479.3	2231.4	1919.5	1635.6	1347.6	1071.7	867.8	763.8	727.8	727.8
20°	2515.3	2391.4	2067.4	1707.5	1363.6	1015.7	767.8	655.8	623.8	599.8	603.8
22.5°	2459.3	2307.4	1915.5	1499.6	1079.7	755.8	603.8	567.8	555.8	547.9	551.9
25°	2395.4	2207.4	1755.5	1275.7	847.8	595.8	523.9	507.9	515.9	519.9	519.9
27.5°	2343.4	2123.4	1591.6	1035.7	639.8	503.9	471.9	467.9	483.9	491.9	495.9
30°	2307.4	2047.4	1431.6	815.8	511.9	447.9	431.9	431.9	451.9	459.9	463.9
32.5°	2271.4	1983.5	1259.7	623.8	435.9	399.9	395.9	399.9	411.9	411.9	415.9
35°	2283.4	1923.5	1095.7	503.9	391.9	367.9	367.9	367.9	371.9	375.9	375.9
37.5°	2307.4	1907.5	919.8	423.9	359.9	343.9	343.9	339.9	343.9	339.9	343.9
40°	2331.4	1883.5	759.8	375.9	339.9	327.9	323.9	315.9	311.9	311.9	315.9
42.5°	2431.3	1915.5	623.8	343.9	323.9	315.9	303.9	295.9	291.9	291.9	291.9
45°	2559.3	1975.5	515.9	327.9	311.9	291.9	283.9	279.9	271.9	275.9	279.9
47.5°	2751.3	2067.4	451.9	315.9	299.9	275.9	267.9	259.9	259.9	267.9	267.9
50°	3003.2	2219.4	411.9	303.9	287.9	263.9	251.9	247.9	247.9	259.9	259.9
52.5°	3275.1	2395.4	395.9	299.9	275.9	251.9	239.9	235.9	235.9	251.9	251.9
55°	3547.0	2611.3	407.9	299.9	267.9	239.9	227.9	219.9	223.9	235.9	235.9
57.5°	3847.0	2843.2	467.9	299.9	259.9	235.9	219.9	207.9	211.9	215.9	215.9
60°	4174.9	3147.1	571.8	299.9	255.9	227.9	207.9	191.9	191.9	195.9	195.9
62.5°	4506.8	3447.1	719.8	303.9	259.9	223.9	191.9	176.0	172.0	176.0	176.0
65°	4942.7	3926.9	867.8	303.9	271.9	215.9	180.0	160.0	156.0	156.0	160.0
67.5°	5554.5	4270.8	671.8	291.9	279.9	215.9	168.0	148.0	140.0	140.0	140.0
70°	5230.6	3603.0	427.9	271.9	267.9	223.9	160.0	136.0	128.0	124.0	124.0
72.5°	4478.8	2883.2	343.9	255.9	247.9	219.9	152.0	128.0	116.0	112.0	112.0
75°	3591.0	2275.4	299.9	231.9	215.9	184.0	140.0	116.0	108.0	100.0	100.0
77.5°	1759.5	951.7	227.9	203.9	184.0	140.0	124.0	108.0	96.0	88.0	88.0
80°	439.9	331.9	168.0	160.0	136.0	108.0	100.0	92.0	84.0	76.0	76.0
82.5°	235.9	195.9	120.0	108.0	92.0	76.0	76.0	72.0	68.0	60.0	56.0
85°	120.0	116.0	80.0	72.0	60.0	48.0	52.0	52.0	48.0	36.0	36.0
87.5°	64.0	64.0	40.0	32.0	28.0	24.0	24.0	24.0	20.0	16.0	16.0
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)