

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: STREETWORKS

Report Number: P835822

Luminaire Tested: **ARCH3-100-730-U-T2U-HSS**

Issue Date: 5/16/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P835822  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH3-100-730-U-T2U-HSS  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 805mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10879 lumens  
Efficiency: N/A  
Efficacy: 106.0 lumens/watt  
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

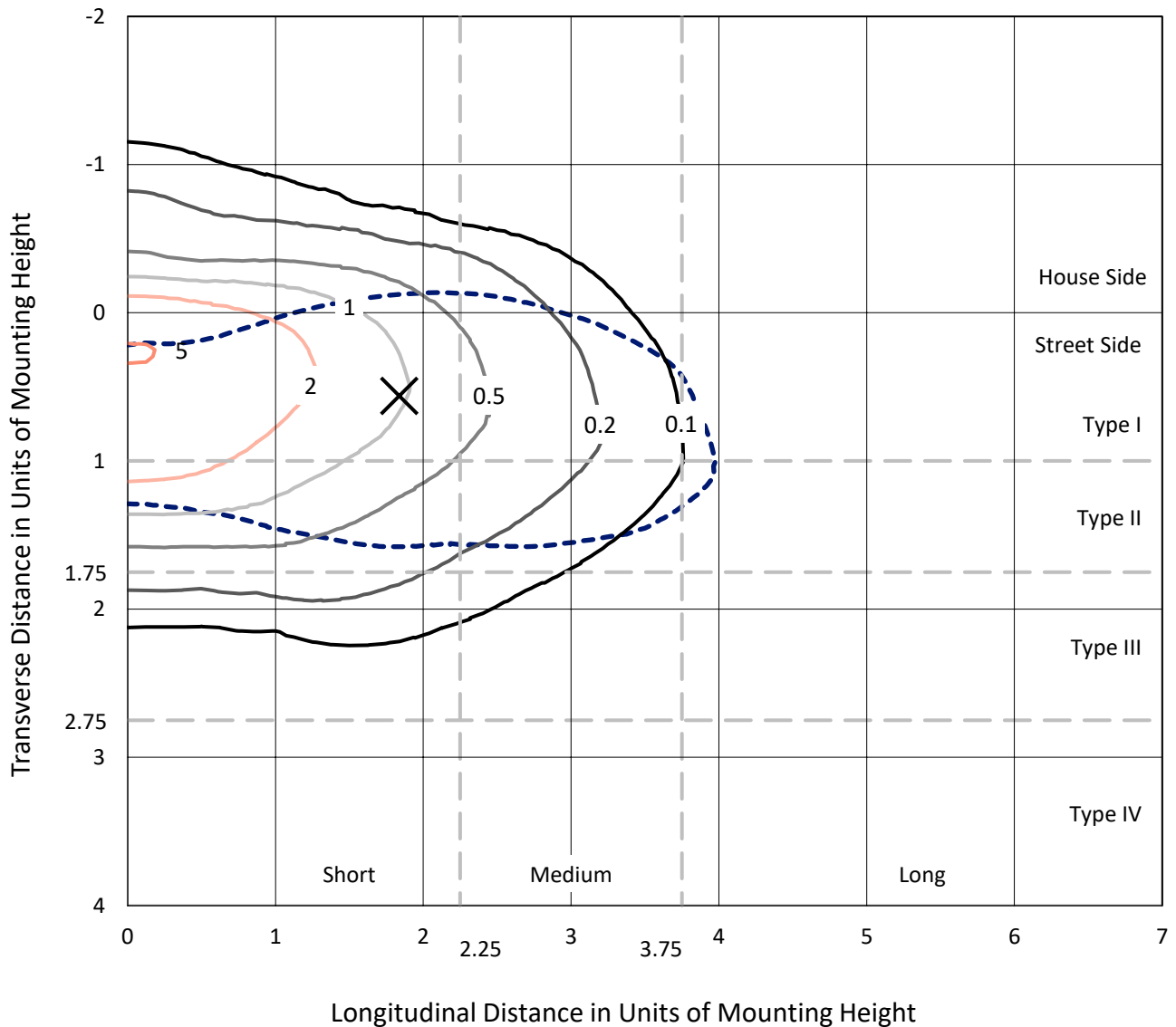
Input Watts (W): 102.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P835822  
 CATALOG NUMBER: ARCH3-100-730-U-T2U-HSS

### Iso-Footcandle Lines of Horizontal Illumination

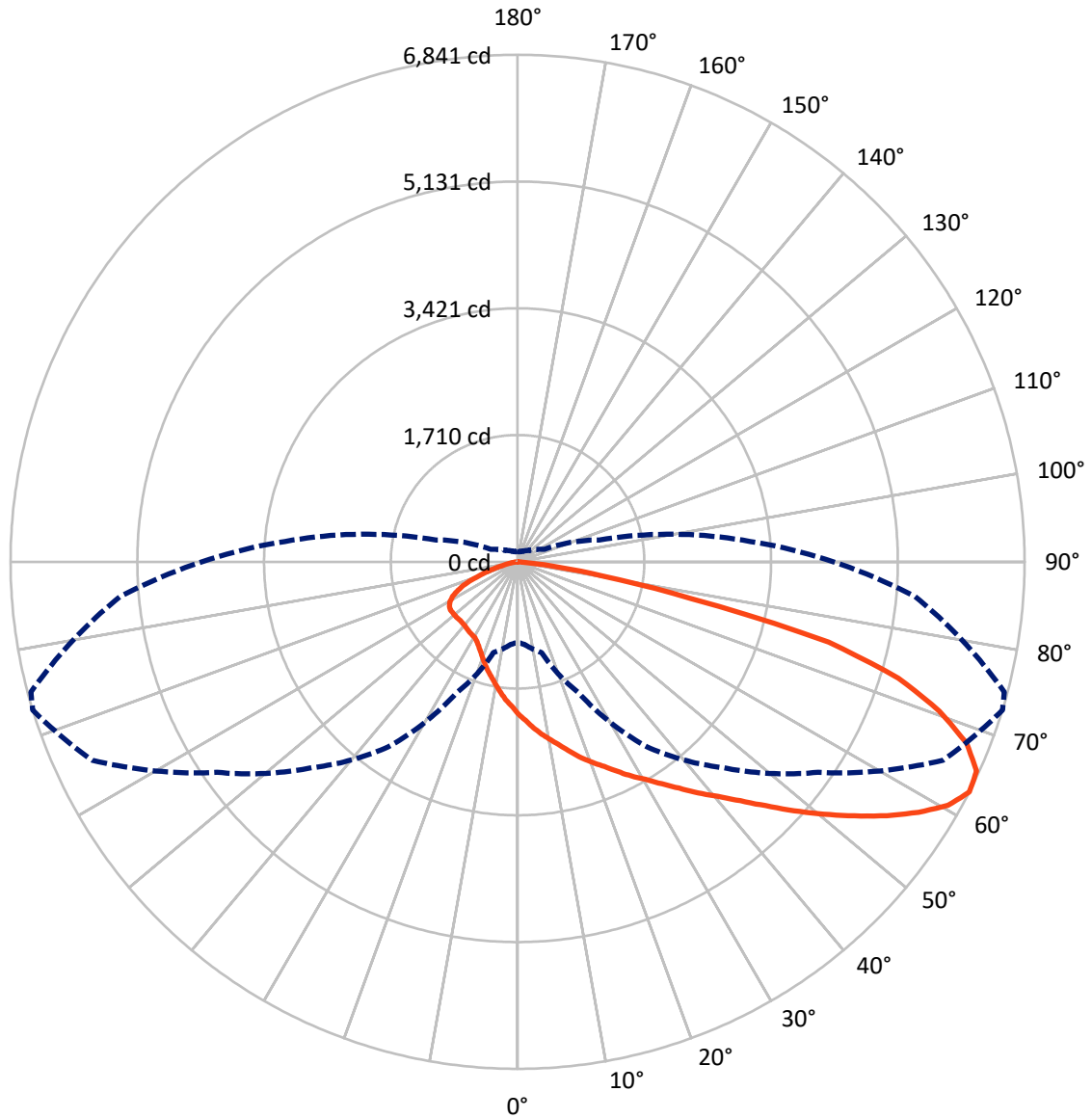
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type II - Short - N/A

REPORT NUMBER: P835822  
CATALOG NUMBER: ARCH3-100-730-U-T2U-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P835822  
 CATALOG NUMBER: ARCH3-100-730-U-T2U-HSS

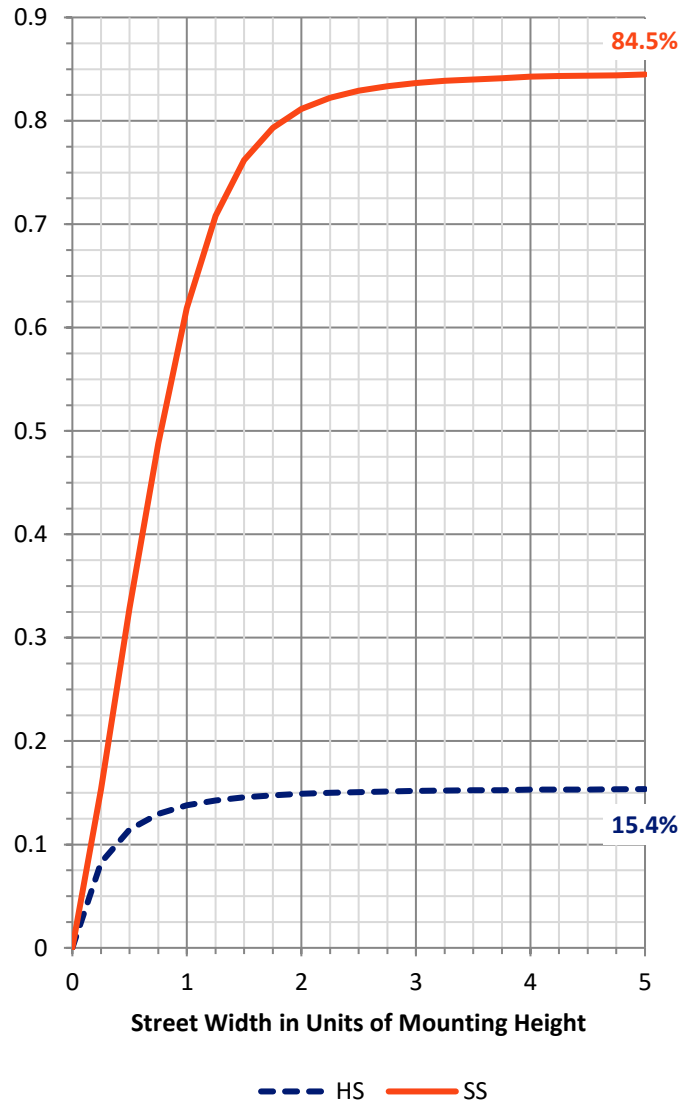
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1686.4	0.0	1686.4
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	9192.6	0.0	9192.6
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	10879.0	0.0	10879.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.0	1.8
10°-20°	600.5	5.5
20°-30°	999.6	9.2
30°-40°	1508.2	13.9
40°-50°	2108.0	19.4
50°-60°	2328.5	21.4
60°-70°	2028.4	18.6
70°-80°	1024.6	9.4
80°-90°	82.2	0.8
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°	10879.0	100.0
0°-180°	10879.0	100.0

**Coefficient of Utilization**



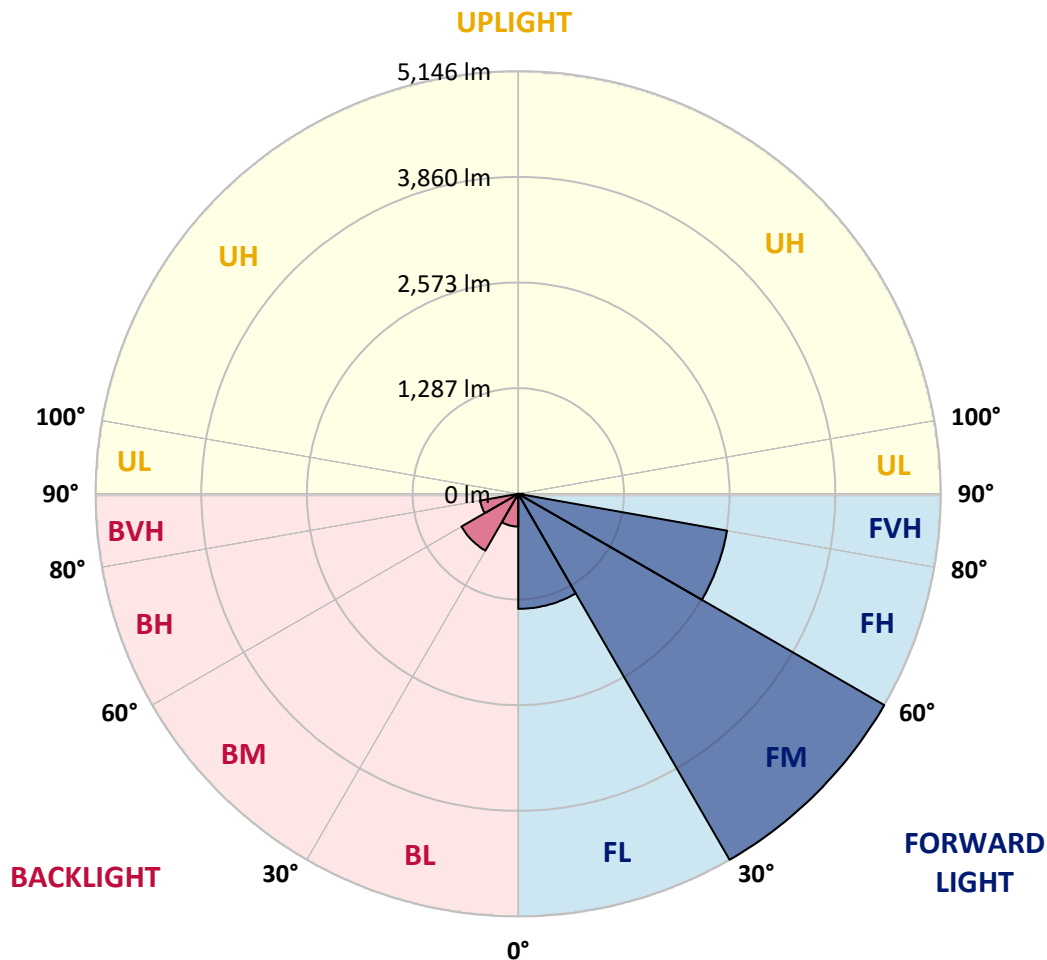
REPORT NUMBER: P835822  
 CATALOG NUMBER: ARCH3-100-730-U-T2U-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1400.5	12.9			
FM (30°-60°)	5146.2	47.3			
FH (60°-80°)	2582.3	23.7			G2/5000
FVH (80°-90°)	63.6	0.6			G1/100
BL (0°-30°)	398.6	3.7	B1/500		
BM (30°-60°)	798.5	7.3	B1/1000		
BH (60°-80°)	470.7	4.3	B1/500		G1/500
BVH (80°-90°)	18.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short



REPORT NUMBER: P835822  
 CATALOG NUMBER: ARCH3-100-730-U-T2U-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	2060.0	2060.0	2060.0	2060.0	2060.0	2060.0	2060.0	2060.0	2060.0	2060.0	2060.0
2.5°	2344.4	2370.5	2356.3	2365.8	2318.3	2287.5	2252.0	2183.2	2145.3	2140.6	2095.5
5°	2688.1	2716.6	2692.9	2685.8	2602.8	2531.7	2451.1	2330.2	2249.6	2235.4	2135.8
7.5°	3031.9	3057.9	3029.5	3008.2	2896.7	2771.1	2652.6	2474.8	2349.2	2325.5	2169.0
10°	3273.7	3297.4	3276.0	3254.7	3138.5	3010.5	2842.2	2609.9	2439.2	2401.3	2190.3
12.5°	3456.2	3470.4	3460.9	3442.0	3332.9	3195.4	3034.2	2761.6	2541.2	2493.8	2223.5
15°	3605.5	3629.2	3617.4	3603.2	3498.9	3361.4	3207.3	2920.5	2659.7	2600.4	2273.3
17.5°	3705.1	3721.7	3724.1	3724.1	3631.6	3496.5	3347.1	3065.1	2778.2	2702.4	2320.7
20°	3750.1	3769.1	3780.9	3799.9	3724.1	3607.9	3456.2	3188.3	2889.6	2804.3	2365.8
22.5°	3771.5	3788.1	3818.9	3861.5	3799.9	3702.7	3562.9	3302.1	3001.0	2911.0	2417.9
25°	3788.1	3809.4	3854.4	3935.0	3892.4	3809.4	3688.5	3432.5	3133.8	3041.3	2493.8
27.5°	3833.1	3859.2	3901.8	3999.0	3946.9	3906.6	3821.2	3572.3	3273.7	3178.8	2586.2
30°	3989.5	4010.9	4008.5	4070.1	4006.1	3994.3	3935.0	3707.5	3408.8	3314.0	2695.3
32.5°	4274.0	4295.3	4243.2	4219.5	4079.6	4082.0	4058.3	3852.1	3570.0	3472.8	2820.9
35°	4579.8	4603.5	4534.8	4494.5	4259.8	4191.0	4202.9	4032.2	3750.1	3652.9	2977.3
37.5°	4852.4	4880.9	4821.6	4762.3	4525.3	4366.5	4364.1	4233.7	3956.4	3856.8	3150.4
40°	5001.7	5034.9	5070.5	5037.3	4788.4	4613.0	4537.1	4439.9	4160.2	4058.3	3337.7
42.5°	5072.9	5165.3	5229.3	5208.0	5004.1	4826.3	4736.3	4655.7	4409.1	4309.6	3560.5
45°	4873.7	4876.1	5011.2	5127.4	5089.5	4970.9	4954.3	4897.4	4693.6	4598.8	3811.8
47.5°	4624.8	4605.9	4700.7	4906.9	5013.6	5044.4	5141.6	5165.3	5018.3	4923.5	4067.8
50°	4027.5	4039.3	4347.5	4643.8	4852.4	5051.5	5274.4	5440.3	5352.6	5262.5	4338.0
52.5°	3276.0	3304.5	3657.7	4309.6	4639.1	4980.4	5352.6	5715.3	5693.9	5608.6	4608.2
55°	2626.5	2671.5	3046.1	3752.5	4366.5	4821.6	5385.8	5966.5	6047.1	5968.9	4873.7
57.5°	2007.8	2055.2	2370.5	3095.9	4018.0	4563.2	5362.1	6187.0	6376.6	6326.9	5117.9
60°	1512.4	1559.8	1761.3	2510.4	3581.8	4274.0	5243.5	6331.6	6672.9	6620.8	5295.7
62.5°	1083.3	1121.2	1270.6	1953.3	3050.8	3930.3	4952.0	6334.0	6841.3	6798.6	5381.0
65°	779.9	779.9	900.8	1393.9	2553.0	3517.8	4511.1	6042.4	6805.7	6793.8	5321.8
67.5°	561.8	566.5	663.7	974.3	2036.3	3017.6	3939.8	5523.3	6530.7	6590.0	5108.4
70°	398.2	410.1	455.1	680.3	1538.5	2382.3	3328.2	4842.9	6035.3	6139.6	4696.0
72.5°	308.2	315.3	346.1	474.1	1123.6	1770.8	2652.6	4084.4	5373.9	5492.4	4134.1
75°	237.0	244.2	267.9	348.5	806.0	1242.1	1884.5	3169.4	4333.3	4544.2	3321.1
77.5°	173.0	182.5	199.1	253.6	469.4	789.4	1142.6	1782.6	2391.8	2491.4	1739.9
80°	80.6	92.4	116.2	163.6	253.6	372.2	405.4	687.4	1149.7	1201.8	943.5
82.5°	45.0	56.9	66.4	99.6	128.0	132.7	137.5	173.0	433.8	478.8	395.9
85°	21.3	28.4	30.8	42.7	42.7	37.9	45.0	33.2	71.1	85.3	83.0
87.5°	0.0	2.4	4.7	11.9	9.5	7.1	7.1	7.1	7.1	9.5	7.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P835822  
 CATALOG NUMBER: ARCH3-100-730-U-T2U-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2060.0	2060.0	2060.0	2060.0	2060.0	2060.0	2060.0	2060.0	2060.0	2060.0	2060.0
2.5°	2074.2	2043.4	1972.3	1910.6	1870.3	1834.8	1787.4	1766.0	1728.1	1735.2	1713.9
5°	2086.0	2029.1	1903.5	1787.4	1702.0	1626.2	1543.2	1495.8	1443.6	1438.9	1422.3
7.5°	2093.1	2005.4	1825.3	1661.7	1531.3	1415.2	1303.8	1242.1	1178.1	1163.9	1149.7
10°	2086.0	1969.9	1744.7	1531.3	1358.3	1213.7	1088.1	1009.8	943.5	926.9	912.6
12.5°	2093.1	1950.9	1668.8	1410.4	1204.2	1040.6	898.4	817.8	756.2	739.6	730.1
15°	2109.7	1939.1	1604.8	1301.4	1066.7	884.2	744.3	675.6	625.8	609.2	604.5
17.5°	2124.0	1927.2	1536.1	1194.7	929.2	746.7	625.8	568.9	526.3	509.7	504.9
20°	2142.9	1910.6	1467.3	1092.8	808.3	637.7	531.0	481.2	448.0	436.2	433.8
22.5°	2159.5	1898.8	1403.3	990.9	696.9	550.0	459.9	419.6	395.9	384.0	384.0
25°	2202.2	1903.5	1348.8	896.0	614.0	481.2	405.4	374.5	355.6	348.5	348.5
27.5°	2252.0	1922.5	1306.1	815.5	542.8	429.1	367.4	341.4	331.9	322.4	324.8
30°	2323.1	1960.4	1277.7	749.1	490.7	388.8	336.6	317.6	308.2	305.8	305.8
32.5°	2413.2	2022.0	1275.3	706.4	452.8	357.9	315.3	298.7	293.9	291.6	291.6
35°	2519.8	2076.6	1261.1	687.4	429.1	336.6	298.7	286.8	284.5	284.5	284.5
37.5°	2647.8	2166.6	1251.6	661.4	417.2	324.8	286.8	277.3	277.3	277.3	277.3
40°	2780.6	2240.1	1237.4	637.7	412.5	317.6	279.7	267.9	267.9	267.9	267.9
42.5°	2939.4	2346.8	1232.7	625.8	405.4	312.9	270.2	256.0	258.4	258.4	260.8
45°	3131.4	2467.7	1230.3	614.0	403.0	308.2	260.8	244.2	246.5	244.2	244.2
47.5°	3325.8	2607.5	1237.4	606.8	400.6	303.4	253.6	232.3	232.3	229.9	229.9
50°	3529.7	2735.6	1242.1	599.7	395.9	293.9	241.8	222.8	218.1	213.3	215.7
52.5°	3721.7	2854.1	1244.5	587.9	381.6	279.7	232.3	211.0	203.9	196.8	199.1
55°	3913.7	2967.9	1249.3	573.7	362.7	265.5	220.5	199.1	189.6	180.2	180.2
57.5°	4086.7	3067.4	1237.4	538.1	341.4	251.3	208.6	184.9	170.7	161.2	161.2
60°	4205.3	3138.5	1201.8	486.0	312.9	234.7	196.8	170.7	154.1	147.0	147.0
62.5°	4262.2	3150.4	1137.8	400.6	277.3	218.1	182.5	156.5	142.2	137.5	137.5
65°	4207.6	3098.2	1038.3	301.1	239.4	199.1	168.3	144.6	130.4	118.5	118.5
67.5°	4018.0	2951.3	900.8	227.6	203.9	180.2	154.1	132.7	116.2	106.7	106.7
70°	3636.3	2645.5	696.9	182.5	173.0	156.5	139.9	118.5	104.3	92.4	92.4
72.5°	3136.2	2242.5	490.7	147.0	147.0	132.7	118.5	104.3	90.1	80.6	80.6
75°	2406.1	1659.3	329.5	118.5	120.9	111.4	97.2	85.3	75.9	68.7	68.7
77.5°	1313.3	820.2	201.5	87.7	90.1	85.3	75.9	68.7	64.0	56.9	56.9
80°	637.7	360.3	116.2	61.6	64.0	61.6	56.9	49.8	49.8	45.0	45.0
82.5°	267.9	135.1	61.6	42.7	42.7	37.9	35.6	35.6	35.6	33.2	33.2
85°	66.4	26.1	26.1	23.7	23.7	23.7	21.3	21.3	21.3	16.6	19.0
87.5°	9.5	9.5	9.5	9.5	9.5	9.5	7.1	2.4	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)