

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: P835816

Luminaire Tested: **ARCH3-100-727-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-100-727-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 805mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15270 lumens
Efficiency: N/A
Efficacy: 148.8 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - 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

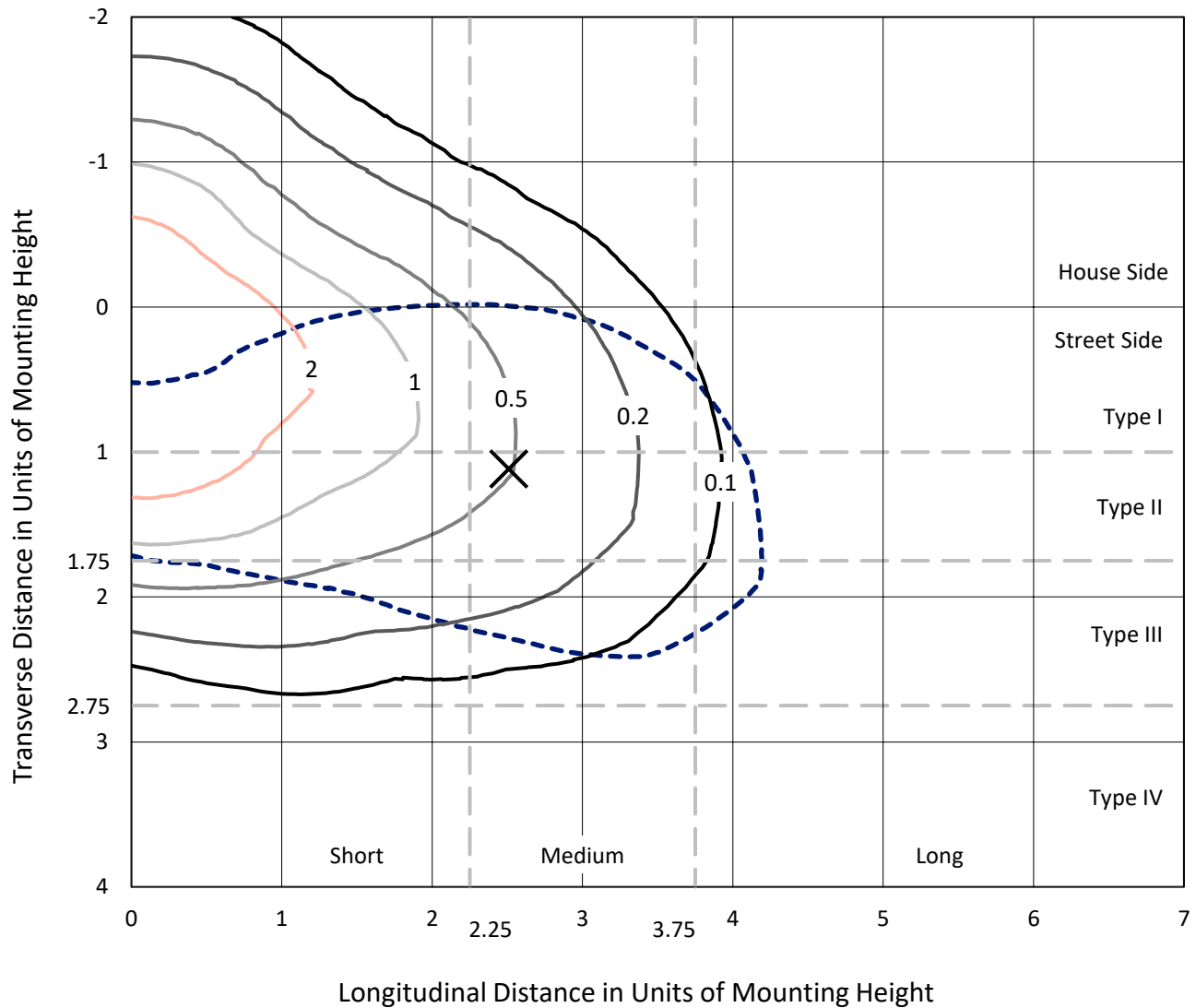


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Iso-Footcandle Lines of Horizontal Illumination

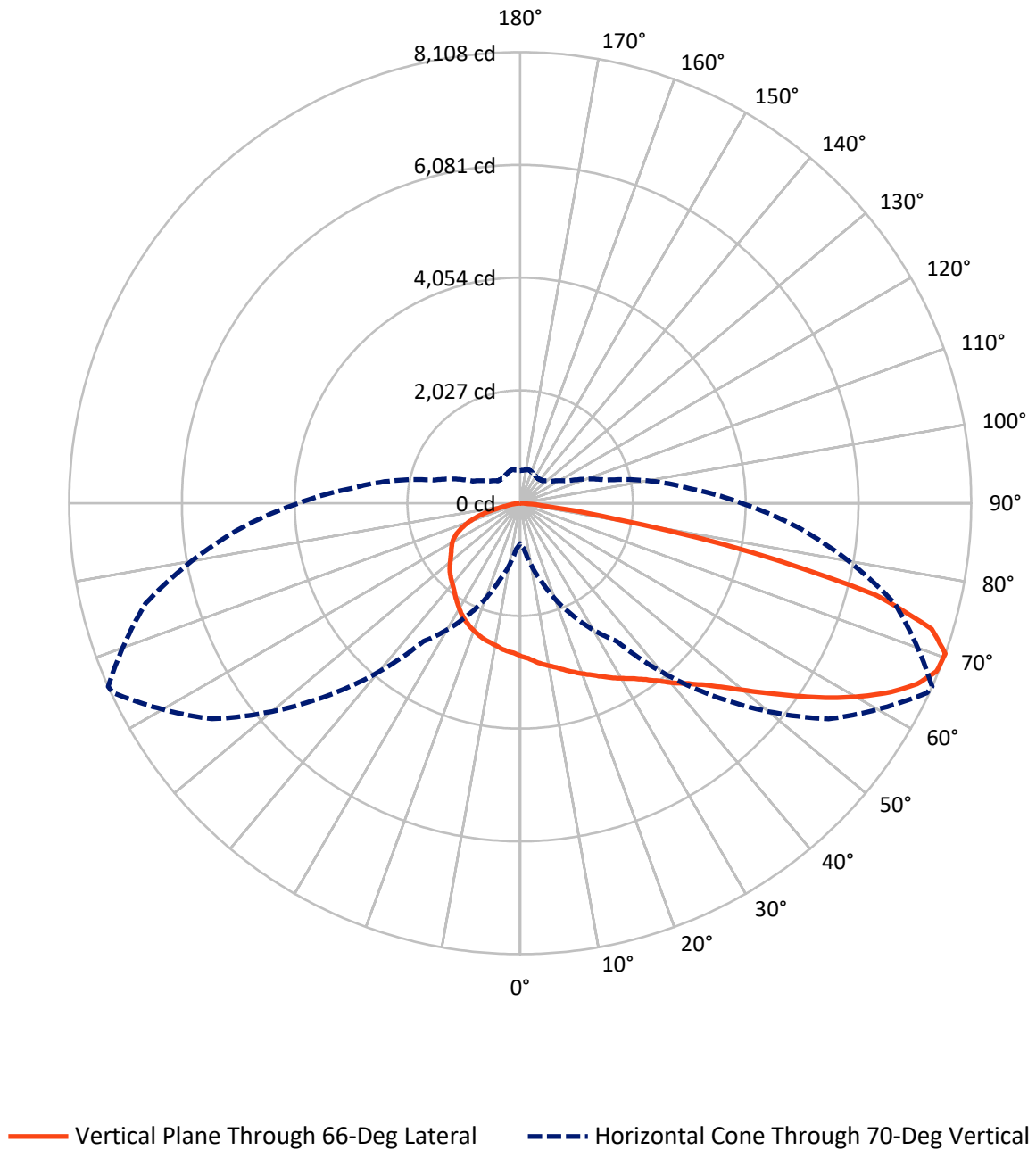
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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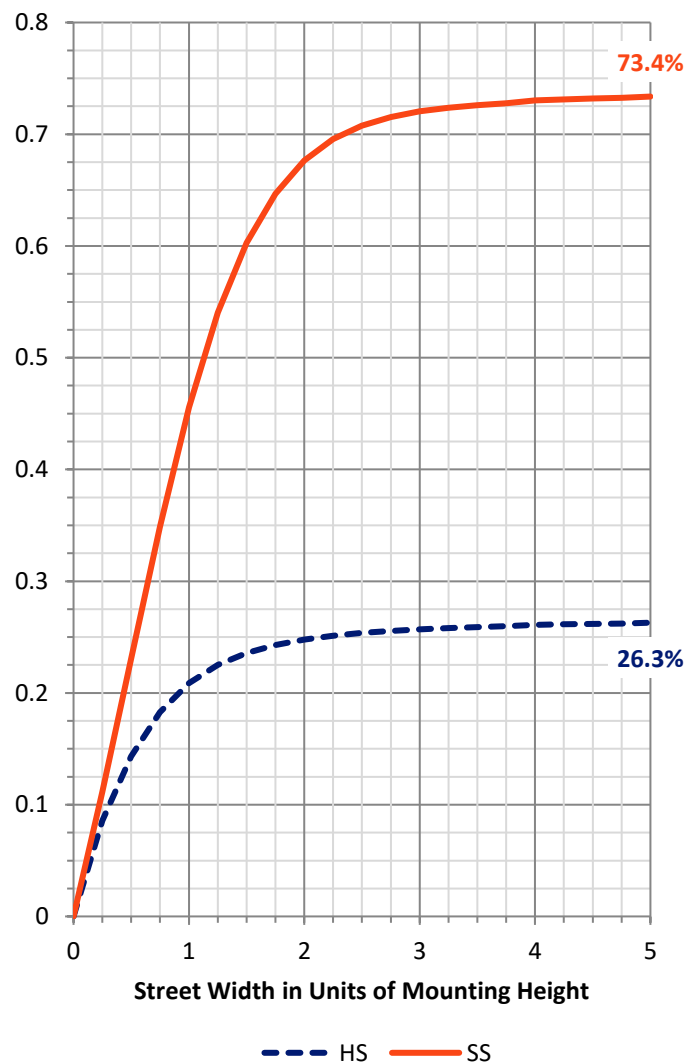
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4046.2	0.0	4046.2
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	11223.8	0.0	11223.8
	% Fixture	73.5	0.0	73.5
Total	Lumens	15270.0	0.0	15270.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.8	1.7
10°-20°	794.3	5.2
20°-30°	1331.6	8.7
30°-40°	1993.8	13.1
40°-50°	2665.7	17.5
50°-60°	3112.3	20.4
60°-70°	3094.7	20.3
70°-80°	1832.1	12.0
80°-90°	180.6	1.2
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°	15270.0	100.0
0°-180°	15270.0	100.0

Coefficient of Utilization



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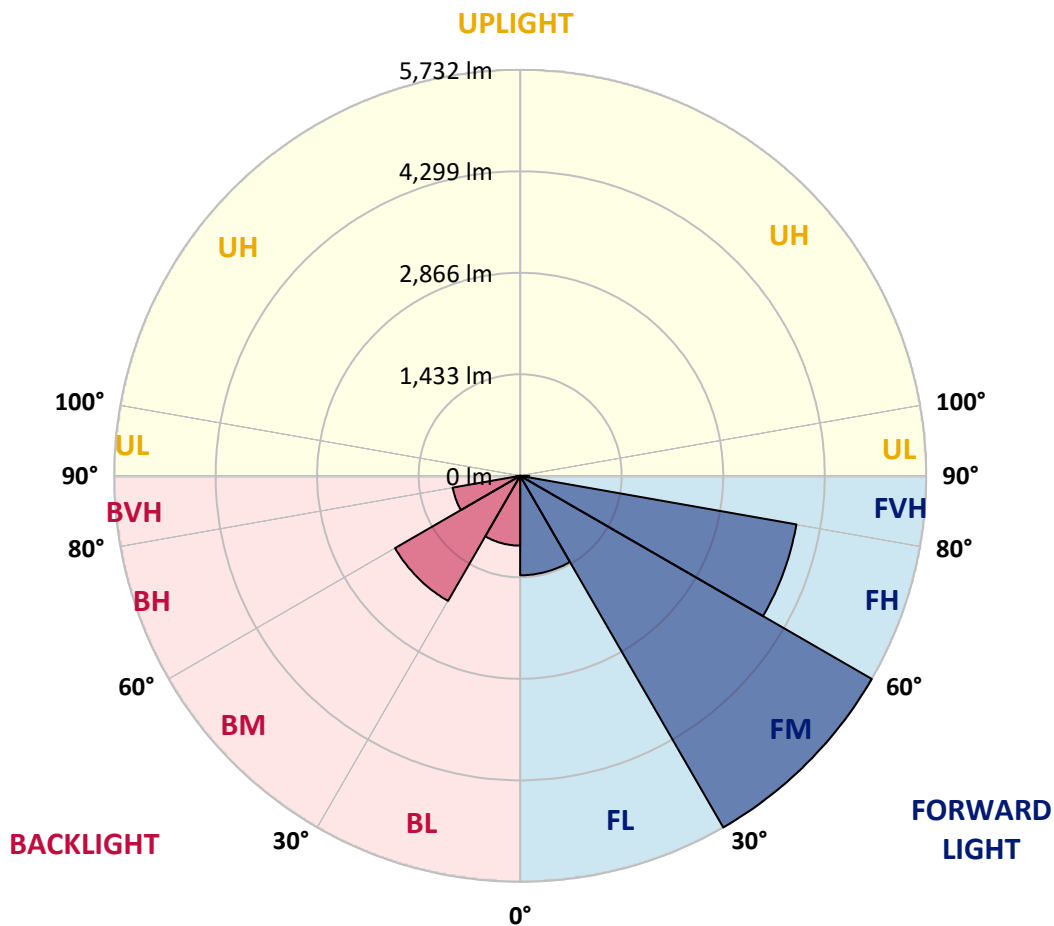
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1404.4	9.2			
FM	(30°-60°)	5732.2	37.5			
FH	(60°-80°)	3960.3	25.9			G2/5000
FVH	(80°-90°)	126.9	0.8			G2/225
BL	(0°-30°)	986.3	6.5	B2/1000		
BM	(30°-60°)	2039.7	13.4	B2/2500		
BH	(60°-80°)	966.5	6.3	B2/1000		G2/1000
BVH	(80°-90°)	53.7	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2755.9	2755.9	2755.9	2755.9	2755.9	2755.9	2755.9	2755.9	2755.9	2755.9	2755.9
2.5°	2857.2	2852.7	2850.5	2841.4	2821.2	2830.2	2809.9	2796.4	2794.2	2762.6	2744.6
5°	2974.3	2972.0	2967.5	2954.0	2922.5	2927.0	2893.2	2868.5	2861.7	2812.2	2773.9
7.5°	3073.4	3068.9	3066.6	3048.6	3014.8	3012.6	2972.0	2936.0	2924.8	2857.2	2798.7
10°	3149.9	3143.2	3147.7	3129.6	3093.6	3086.9	3035.1	2987.8	2976.5	2891.0	2809.9
12.5°	3215.2	3210.7	3217.5	3201.7	3172.4	3165.7	3113.9	3053.1	3039.6	2940.5	2834.7
15°	3287.3	3271.5	3285.0	3278.2	3258.0	3255.7	3208.4	3140.9	3122.9	3003.6	2873.0
17.5°	3325.5	3316.5	3332.3	3334.5	3325.5	3341.3	3296.3	3215.2	3199.4	3062.1	2906.7
20°	3352.5	3339.0	3357.0	3370.6	3377.3	3408.8	3372.8	3294.0	3276.0	3118.4	2938.3
22.5°	3444.9	3415.6	3417.8	3426.8	3431.3	3476.4	3453.9	3377.3	3359.3	3188.2	2976.5
25°	3676.8	3618.2	3580.0	3552.9	3521.4	3559.7	3546.2	3471.9	3456.1	3271.5	3023.8
27.5°	4037.0	3962.7	3886.2	3807.4	3683.5	3667.8	3645.2	3577.7	3559.7	3354.8	3071.1
30°	4446.8	4372.5	4282.4	4156.3	3924.4	3802.9	3751.1	3676.8	3656.5	3429.1	3116.1
32.5°	4854.3	4789.0	4699.0	4545.9	4214.9	3967.2	3856.9	3780.3	3760.1	3510.2	3170.2
35°	5171.8	5131.3	5072.7	4881.3	4503.1	4160.8	4010.0	3917.7	3895.2	3638.5	3269.2
37.5°	5428.5	5399.2	5349.7	5149.3	4712.5	4354.5	4185.6	4079.8	4055.0	3778.1	3375.1
40°	5806.7	5730.2	5689.6	5399.2	4894.9	4530.1	4383.8	4273.4	4246.4	3926.7	3460.6
42.5°	6128.7	6072.4	6022.9	5622.1	5068.2	4681.0	4570.6	4469.3	4433.3	4073.0	3552.9
45°	6182.7	6205.2	6180.5	5732.4	5342.9	4829.6	4759.8	4694.5	4660.7	4271.2	3692.5
47.5°	6185.0	6185.0	6038.6	5795.5	5682.9	4996.2	4962.4	4984.9	4948.9	4523.3	3859.1
50°	6022.9	6052.1	5975.6	5811.2	5773.0	5162.8	5210.1	5331.7	5295.6	4791.3	4039.3
52.5°	5687.4	5784.2	5782.0	5786.5	5642.4	5304.6	5471.2	5748.2	5687.4	5093.0	4230.6
55°	5095.2	5288.9	5462.2	5610.8	5529.8	5390.2	5791.0	6191.7	6128.7	5430.7	4424.3
57.5°	4588.6	4712.5	4928.6	5349.7	5396.9	5464.5	6090.4	6655.6	6599.3	5804.5	4626.9
60°	4010.0	4181.1	4397.3	4996.2	5234.8	5561.3	6419.1	7108.1	7054.1	6182.7	4822.8
62.5°	3120.6	3341.3	3773.6	4453.5	4998.4	5622.1	6678.1	7506.6	7481.9	6540.7	4998.4
65°	2175.0	2370.9	2976.5	3787.1	4622.4	5595.1	6885.2	7862.4	7839.9	6833.4	5122.3
67.5°	1269.9	1497.3	2181.7	3048.6	3958.2	5408.2	6952.8	8071.8	8071.8	7011.3	5156.0
70°	725.0	830.8	1438.7	2222.3	3035.1	4892.6	6763.6	8069.5	8107.8	6970.8	5016.4
72.5°	506.6	553.9	968.2	1495.0	2057.9	3958.2	6268.3	7680.0	7731.8	6588.0	4539.1
75°	394.0	427.8	682.2	1019.9	1296.9	2688.3	5185.3	6475.4	6612.8	5615.3	3670.0
77.5°	299.5	324.2	398.5	637.2	830.8	1544.6	3422.3	4246.4	4255.4	3438.1	1967.8
80°	218.4	243.2	265.7	389.5	441.3	722.7	1292.4	1774.2	1724.7	1663.9	1065.0
82.5°	130.6	155.4	162.1	211.6	216.1	308.5	452.6	571.9	549.4	731.8	499.8
85°	56.3	78.8	83.3	96.8	92.3	126.1	180.1	150.9	135.1	155.4	108.1
87.5°	13.5	22.5	22.5	24.8	20.3	31.5	33.8	24.8	22.5	27.0	27.0
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°	2755.9	2755.9	2755.9	2755.9	2755.9	2755.9	2755.9	2755.9	2755.9	2755.9	2755.9
2.5°	2740.1	2733.4	2735.6	2697.3	2686.1	2674.8	2668.1	2663.6	2659.1	2665.8	2672.6
5°	2760.4	2744.6	2726.6	2670.3	2647.8	2623.0	2605.0	2589.3	2582.5	2582.5	2589.3
7.5°	2776.2	2749.1	2710.9	2636.6	2596.0	2562.3	2533.0	2512.7	2501.5	2501.5	2508.2
10°	2778.4	2740.1	2679.3	2589.3	2535.2	2485.7	2451.9	2429.4	2413.7	2413.7	2418.2
12.5°	2791.9	2740.1	2661.3	2553.2	2485.7	2424.9	2384.4	2350.6	2343.9	2343.9	2348.4
15°	2814.4	2751.4	2650.1	2521.7	2440.7	2370.9	2325.8	2289.8	2276.3	2285.3	2287.6
17.5°	2834.7	2758.1	2629.8	2481.2	2384.4	2307.8	2258.3	2226.8	2208.8	2229.0	2229.0
20°	2848.2	2758.1	2600.5	2429.4	2323.6	2238.0	2190.8	2152.5	2139.0	2163.7	2166.0
22.5°	2868.5	2755.9	2569.0	2377.6	2258.3	2168.2	2121.0	2091.7	2084.9	2111.9	2121.0
25°	2891.0	2760.4	2535.2	2319.1	2186.2	2098.4	2062.4	2048.9	2053.4	2087.2	2098.4
27.5°	2915.7	2769.4	2501.5	2253.8	2107.4	2028.6	2008.4	2015.1	2033.1	2075.9	2089.4
30°	2938.3	2771.6	2454.2	2177.2	2017.4	1943.1	1952.1	1981.4	2008.4	2051.2	2066.9
32.5°	2967.5	2773.9	2404.6	2093.9	1920.6	1866.5	1907.1	1954.3	1981.4	2021.9	2039.9
35°	3039.6	2812.2	2366.4	2012.9	1830.5	1801.2	1868.8	1929.6	1945.3	1981.4	1997.1
37.5°	3122.9	2875.2	2346.1	1929.6	1742.7	1735.9	1821.5	1882.3	1886.8	1909.3	1925.1
40°	3174.7	2902.2	2323.6	1859.8	1663.9	1668.4	1756.2	1803.5	1794.5	1810.2	1821.5
42.5°	3226.5	2911.2	2276.3	1801.2	1589.6	1594.1	1661.6	1695.4	1699.9	1733.7	1749.4
45°	3314.3	2936.0	2224.5	1747.2	1522.0	1506.3	1546.8	1591.8	1650.4	1715.7	1733.7
47.5°	3431.3	2987.8	2170.5	1681.9	1456.7	1405.0	1420.7	1499.5	1560.3	1621.1	1632.4
50°	3550.7	3039.6	2121.0	1603.1	1391.5	1296.9	1303.6	1375.7	1425.2	1472.5	1479.3
52.5°	3667.8	3084.6	2078.2	1528.8	1317.2	1168.6	1195.6	1269.9	1303.6	1326.2	1332.9
55°	3784.8	3122.9	2039.9	1465.8	1231.6	1067.2	1092.0	1161.8	1195.6	1206.8	1211.3
57.5°	3906.4	3167.9	2010.6	1411.7	1134.8	977.2	992.9	1042.5	1074.0	1087.5	1083.0
60°	4007.7	3206.2	1994.9	1355.4	1038.0	893.9	889.4	934.4	979.4	992.9	988.4
62.5°	4086.5	3231.0	1970.1	1283.4	952.4	810.6	788.0	846.6	893.9	902.9	909.6
65°	4129.3	3233.2	1909.3	1191.1	864.6	720.5	704.7	763.3	792.5	801.5	801.5
67.5°	4122.6	3197.2	1790.0	1067.2	783.5	639.4	625.9	662.0	704.7	711.5	704.7
70°	3983.0	3048.6	1598.6	936.6	686.7	567.4	542.6	578.6	619.2	594.4	583.1
72.5°	3586.7	2663.6	1317.2	792.5	578.6	477.3	466.1	502.1	504.3	508.8	497.6
75°	2830.2	1983.6	986.2	616.9	468.3	400.8	398.5	391.8	400.8	418.8	405.3
77.5°	1486.0	990.7	533.6	378.3	340.0	322.0	306.2	304.0	331.0	342.2	328.7
80°	806.1	556.1	306.2	227.4	207.1	209.4	229.7	225.2	254.4	261.2	249.9
82.5°	351.2	263.4	150.9	137.3	137.3	135.1	141.8	157.6	189.1	189.1	150.9
85°	76.6	65.3	58.5	67.5	76.6	76.6	76.6	76.6	54.0	29.3	20.3
87.5°	24.8	24.8	24.8	27.0	29.3	29.3	24.8	18.0	11.3	2.3	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)