

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: P509524

Luminaire Tested: **VERD-G-CA2-110-760-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509524
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-110-760-U-T2-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 1020mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15041 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

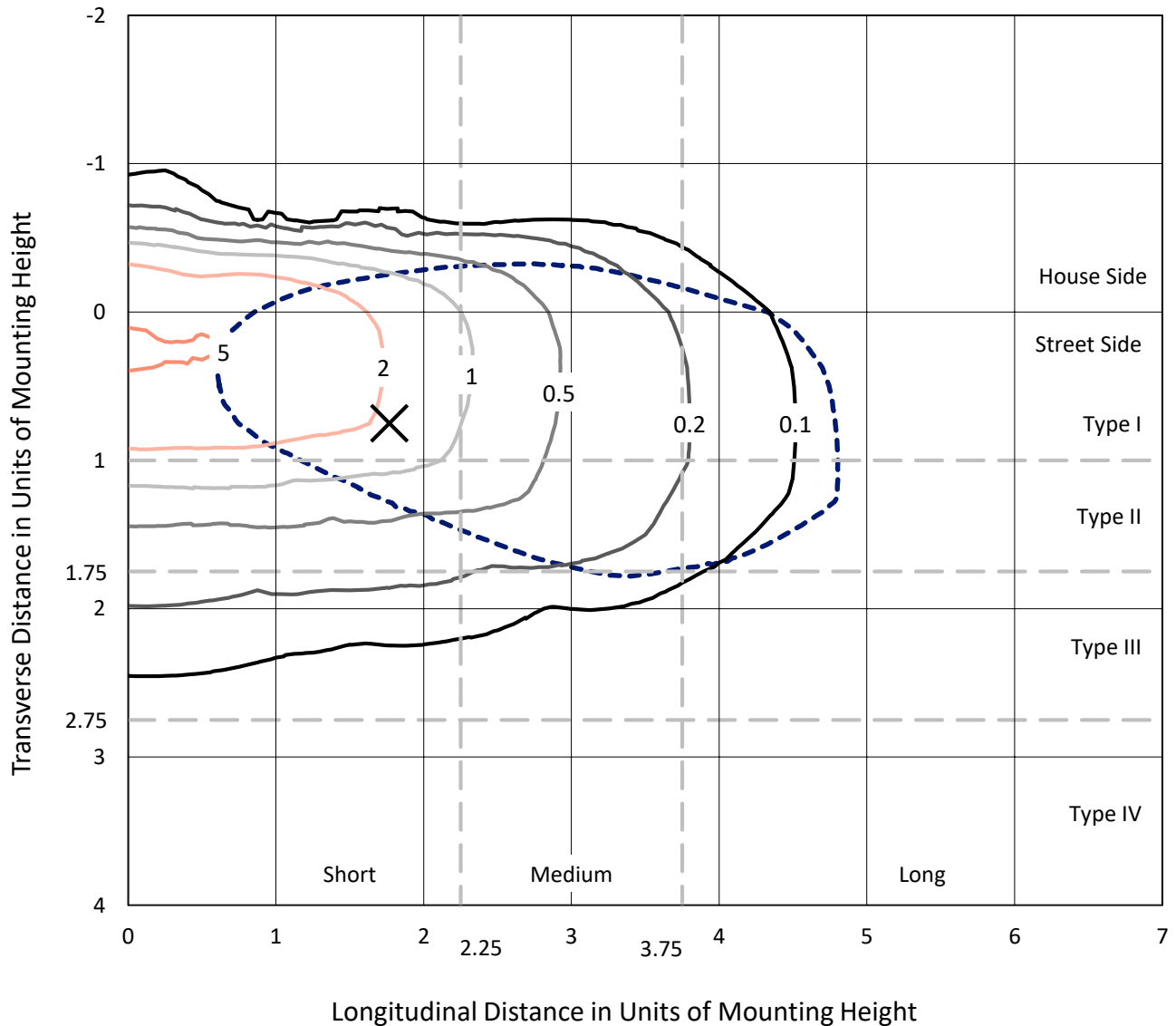
Input Watts (W): 113.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

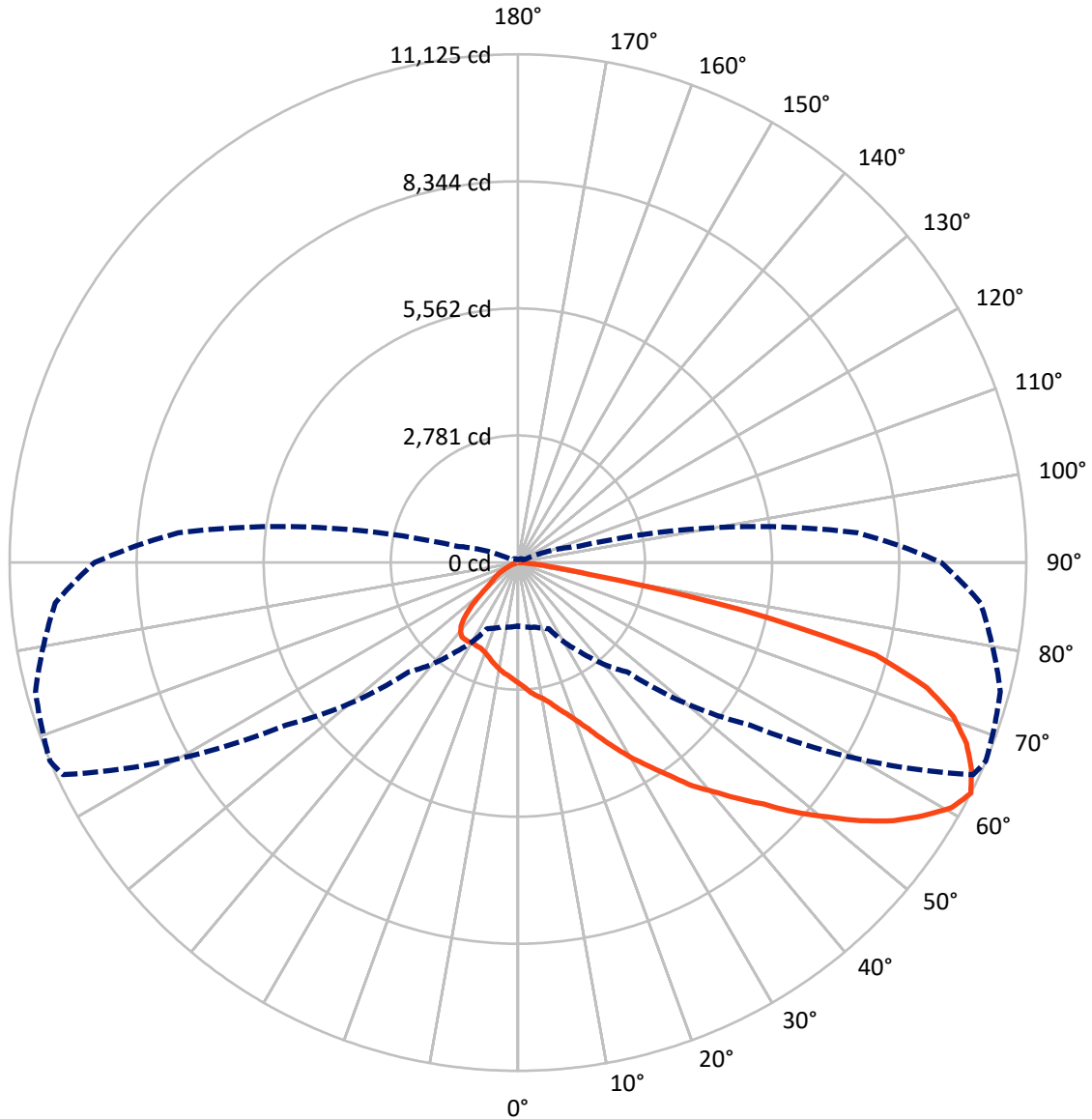
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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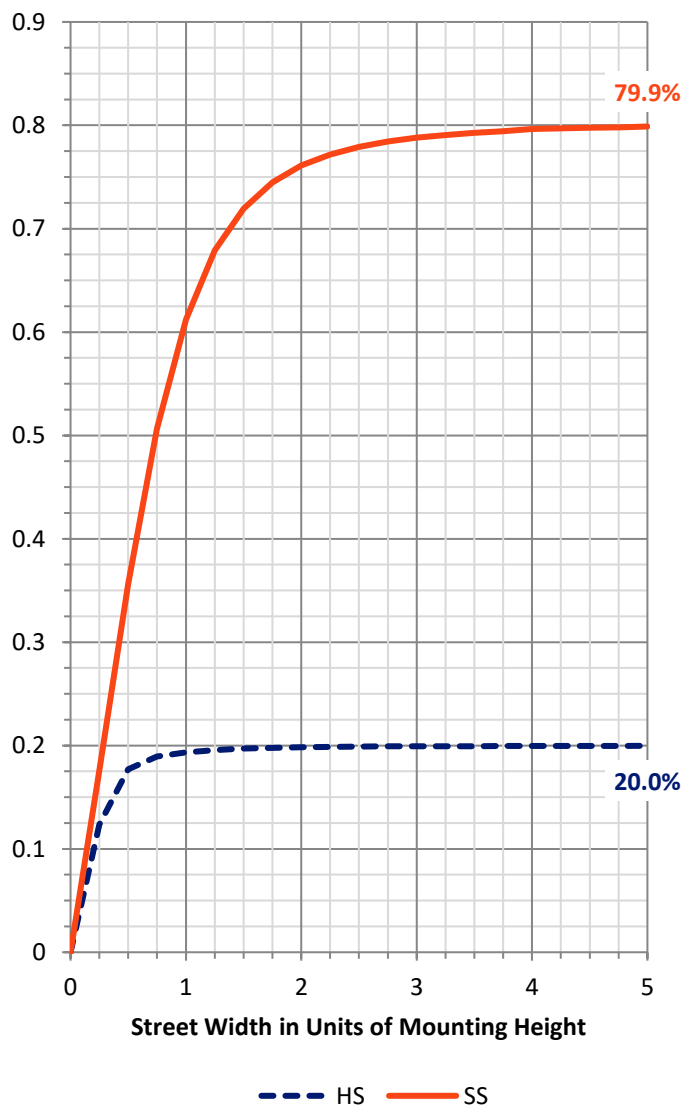
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3039.5	0.0	3039.5
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	12001.6	0.0	12001.6
	% Fixture	79.8	0.0	79.8
Total	Lumens	15041.0	0.0	15041.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.4	1.7
10°-20°	770.2	5.1
20°-30°	1313.7	8.7
30°-40°	1924.6	12.8
40°-50°	2539.9	16.9
50°-60°	2989.0	19.9
60°-70°	3074.2	20.4
70°-80°	1991.7	13.2
80°-90°	182.3	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°	15041.0	100.0
0°-180°	15041.0	100.0

Coefficient of Utilization



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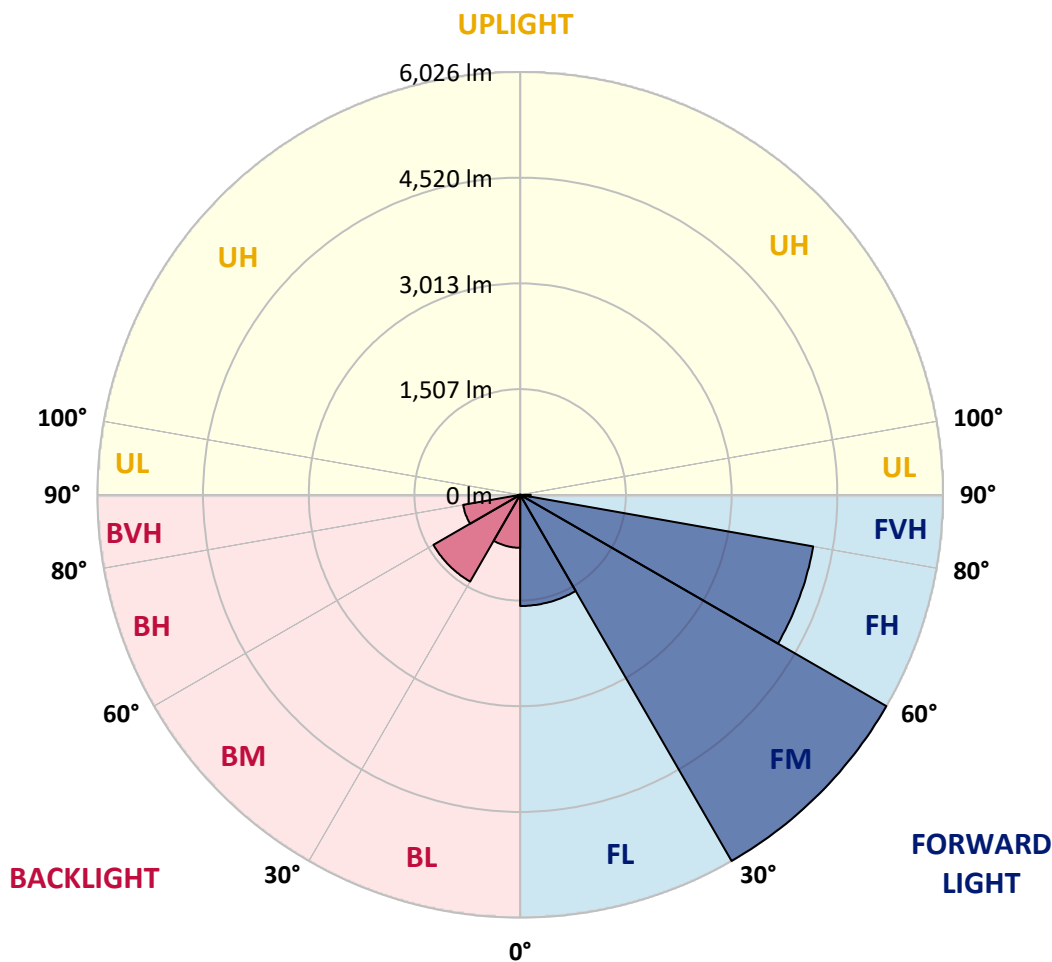
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1583.8	10.5			
FM (30°-60°)	6026.2	40.1			
FH (60°-80°)	4240.8	28.2			G2/5000
FVH (80°-90°)	150.8	1.0			G2/225
BL (0°-30°)	755.4	5.0	B2/1000		
BM (30°-60°)	1427.3	9.5	B2/2500		
BH (60°-80°)	825.2	5.5	B2/1000		G2/1000
BVH (80°-90°)	31.5	0.2			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2642.8	2642.8	2642.8	2642.8	2642.8	2642.8	2642.8	2642.8	2642.8	2642.8	2642.8
2.5°	2931.0	2927.8	2896.4	2867.1	2847.6	2846.5	2795.6	2750.1	2729.5	2705.7	2652.6
5°	3082.7	3108.7	3074.1	3030.7	2996.1	2970.0	2925.6	2873.6	2851.9	2795.6	2715.4
7.5°	3302.7	3302.7	3270.2	3233.4	3193.3	3123.9	3048.1	2957.0	2946.2	2883.4	2778.3
10°	3408.9	3434.9	3392.6	3349.3	3304.9	3269.1	3166.2	3054.6	3027.5	2933.2	2803.2
12.5°	3557.3	3557.3	3534.6	3497.7	3446.8	3375.3	3309.2	3196.5	3151.0	3010.1	2847.6
15°	3697.1	3685.2	3665.7	3605.0	3579.0	3534.6	3447.9	3329.8	3321.1	3165.1	2915.9
17.5°	3806.6	3787.1	3768.6	3736.1	3704.7	3687.4	3625.6	3522.7	3486.9	3343.9	3044.8
20°	3862.9	3879.2	3834.7	3833.6	3843.4	3830.4	3789.2	3712.3	3697.1	3527.0	3175.9
22.5°	3926.8	3948.5	3937.7	3948.5	3977.8	3999.4	3997.3	3981.0	3957.2	3771.9	3387.2
25°	3940.9	3926.8	3972.3	4073.1	4146.8	4198.8	4300.7	4280.1	4273.6	4110.0	3674.4
27.5°	3897.6	3910.6	3982.1	4127.3	4316.9	4458.9	4542.3	4645.2	4622.5	4495.7	4020.0
30°	3871.6	3894.3	3988.6	4158.7	4413.4	4670.2	4834.9	4962.7	4982.2	4881.5	4360.3
32.5°	3781.6	3812.0	3909.5	4183.6	4507.6	4896.6	5101.4	5339.8	5331.1	5290.0	4774.2
35°	3642.9	3683.0	3832.6	4151.1	4613.8	5100.3	5372.3	5719.0	5725.6	5742.9	5167.5
37.5°	3531.3	3544.3	3714.5	4054.7	4656.1	5265.0	5624.8	6094.0	6199.1	6174.1	5613.9
40°	3352.5	3391.6	3575.8	3936.6	4651.7	5376.6	5881.6	6532.8	6589.2	6667.2	6081.0
42.5°	3132.6	3174.8	3351.5	3776.2	4591.1	5474.2	6128.6	6980.3	7059.4	7181.9	6509.0
45°	2921.3	2939.7	3105.5	3542.2	4473.0	5551.1	6369.2	7421.3	7542.7	7718.2	6940.2
47.5°	2658.0	2707.8	2893.1	3297.3	4211.8	5579.3	6546.9	7941.4	8164.7	8271.9	7432.2
50°	2044.7	2076.1	2596.2	3081.7	3927.9	5491.5	6777.7	8601.3	8742.2	8853.8	7930.6
52.5°	1802.0	1830.1	2031.7	2832.4	3611.5	5264.0	6918.6	9214.6	9384.7	9360.9	8431.2
55°	1700.1	1714.2	1800.9	2311.2	3323.3	4841.4	7017.2	9884.3	9976.4	9822.5	8927.5
57.5°	1582.0	1598.3	1663.3	1937.4	2998.2	4306.1	6934.8	10420.6	10455.3	10264.6	9369.6
60°	1476.9	1487.7	1585.3	1733.7	2645.0	3787.1	6726.8	10806.4	10902.8	10589.7	9846.3
62.5°	1387.0	1413.0	1463.9	1595.0	2397.9	3385.1	6200.2	10988.4	11124.9	10929.9	10162.7
65°	1298.1	1310.0	1368.5	1484.5	2132.5	3147.8	5898.9	10749.0	10908.2	10975.4	10357.8
67.5°	1176.8	1194.1	1251.5	1335.0	1779.2	2917.0	5195.7	10360.0	10587.5	10735.9	10241.8
70°	1034.8	1050.0	1108.5	1177.8	1485.6	2576.7	4385.2	9963.4	10112.9	10122.7	9723.9
72.5°	870.1	884.2	942.7	1012.0	1233.1	2145.5	3437.1	9023.9	9358.7	9571.1	8854.9
75°	553.7	614.4	759.6	837.6	1015.3	1735.9	2452.1	7204.6	8084.5	8691.3	7663.0
77.5°	89.9	100.8	298.0	424.8	590.5	1176.8	1362.0	3991.8	5021.2	7263.1	6187.1
80°	68.3	76.9	108.4	288.2	379.2	732.5	536.4	1295.9	1562.5	3395.9	3466.3
82.5°	29.3	34.7	65.0	161.5	178.8	195.0	144.1	579.7	685.9	1032.6	1202.8
85°	9.8	13.0	30.3	50.9	56.3	43.3	31.4	229.7	282.8	495.2	458.3
87.5°	0.0	1.1	6.5	7.6	6.5	4.3	3.3	2.2	2.2	3.3	3.3
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°	2642.8	2642.8	2642.8	2642.8	2642.8	2642.8	2642.8	2642.8	2642.8	2642.8	2642.8
2.5°	2641.7	2604.9	2600.6	2556.1	2516.0	2470.5	2442.4	2432.6	2445.6	2458.6	2471.6
5°	2674.2	2617.9	2561.5	2469.4	2428.3	2378.4	2312.3	2272.2	2253.8	2270.1	2275.5
7.5°	2698.1	2625.5	2538.8	2413.1	2324.2	2228.9	2166.0	2098.9	2062.0	2068.5	2073.9
10°	2702.4	2622.2	2474.9	2353.5	2210.5	2079.4	1997.0	1965.6	1940.7	1919.0	1922.2
12.5°	2742.5	2624.4	2420.7	2273.3	2122.7	1953.7	1861.6	1821.5	1817.1	1772.7	1768.4
15°	2796.7	2672.1	2392.5	2200.7	2007.8	1848.6	1739.1	1667.6	1669.8	1647.0	1643.8
17.5°	2884.4	2718.7	2371.9	2116.2	1887.6	1741.3	1602.6	1537.6	1517.0	1510.5	1505.1
20°	2983.1	2786.9	2347.0	2041.4	1782.5	1612.3	1457.4	1391.3	1333.9	1316.5	1318.7
22.5°	3128.2	2876.9	2367.6	1985.1	1665.4	1486.6	1332.8	1203.8	1105.2	1079.2	1076.0
25°	3385.1	3054.6	2429.3	1936.3	1592.8	1364.2	1157.2	976.3	846.3	818.1	820.3
27.5°	3671.1	3288.6	2515.0	1915.7	1500.7	1228.8	943.8	742.2	620.9	588.4	590.5
30°	4010.3	3567.1	2645.0	1858.3	1402.1	1031.6	703.2	543.9	449.7	411.8	413.9
32.5°	4336.4	3845.6	2811.8	1849.6	1278.6	774.7	508.2	395.5	318.6	290.4	293.6
35°	4696.2	4164.1	2987.4	1806.3	1076.0	555.9	356.5	274.1	233.0	224.3	223.2
37.5°	5103.6	4448.0	3117.4	1766.2	805.1	391.2	243.8	211.3	205.9	194.0	194.0
40°	5481.7	4743.8	3214.9	1660.0	563.5	265.5	190.7	191.8	186.4	170.1	166.9
42.5°	5830.7	5049.4	3304.9	1489.9	381.4	181.0	171.2	174.5	176.6	158.2	153.9
45°	6226.2	5426.5	3285.4	1234.2	242.7	163.6	153.9	163.6	174.5	156.0	151.7
47.5°	6659.6	5702.8	3326.5	890.7	171.2	154.9	143.0	156.0	164.7	152.8	146.3
50°	7149.4	6064.7	3201.9	517.9	157.1	146.3	137.6	143.0	156.0	149.5	141.9
52.5°	7597.9	6387.6	3031.8	253.6	148.4	137.6	128.9	133.3	146.3	138.7	140.9
55°	7976.1	6723.5	2686.2	181.0	143.0	127.9	124.6	125.7	133.3	123.5	130.0
57.5°	8439.9	6999.8	2335.1	169.0	138.7	121.4	122.4	113.8	115.9	110.5	104.0
60°	8852.7	7261.0	1858.3	156.0	132.2	124.6	110.5	98.6	92.1	88.9	87.8
62.5°	9265.6	7459.3	1369.6	141.9	125.7	112.7	97.5	84.5	73.7	69.3	68.3
65°	9421.6	7565.4	935.1	130.0	118.1	102.9	86.7	68.3	56.3	52.0	48.8
67.5°	9305.6	7232.8	541.8	117.0	113.8	94.3	75.8	55.3	43.3	40.1	37.9
70°	8768.2	6710.5	289.3	106.2	99.7	83.4	67.2	45.5	34.7	30.3	29.3
72.5°	7843.9	5771.1	151.7	88.9	83.4	68.3	53.1	37.9	28.2	22.8	21.7
75°	6660.7	4530.4	106.2	65.0	57.4	53.1	40.1	30.3	22.8	17.3	16.3
77.5°	5257.5	2944.0	80.2	42.3	33.6	34.7	29.3	24.9	18.4	13.0	13.0
80°	2715.4	1530.0	60.7	28.2	19.5	20.6	20.6	18.4	14.1	9.8	9.8
82.5°	1077.1	563.5	42.3	16.3	11.9	13.0	11.9	11.9	9.8	6.5	6.5
85°	355.4	123.5	15.2	9.8	7.6	7.6	6.5	5.4	3.3	2.2	2.2
87.5°	3.3	3.3	4.3	5.4	5.4	4.3	3.3	1.1	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)