

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: P553504

Luminaire Tested: **VERD-G-CA2-140-727-U-T2-HSS**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553504
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-140-727-U-T2-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1290mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15951 lumens
Efficiency: N/A
Efficacy: 112.0 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

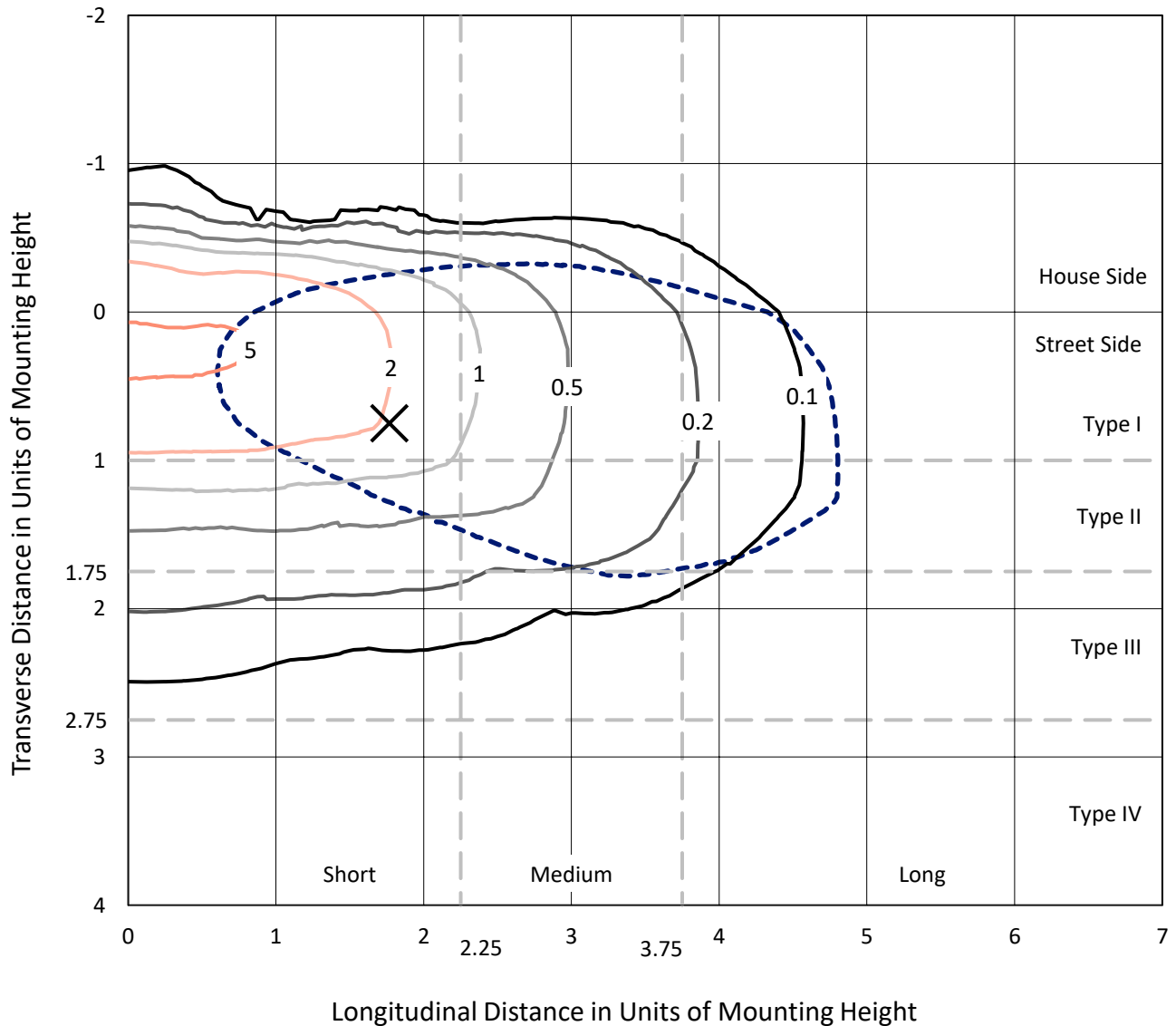
Input Watts (W): 142.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

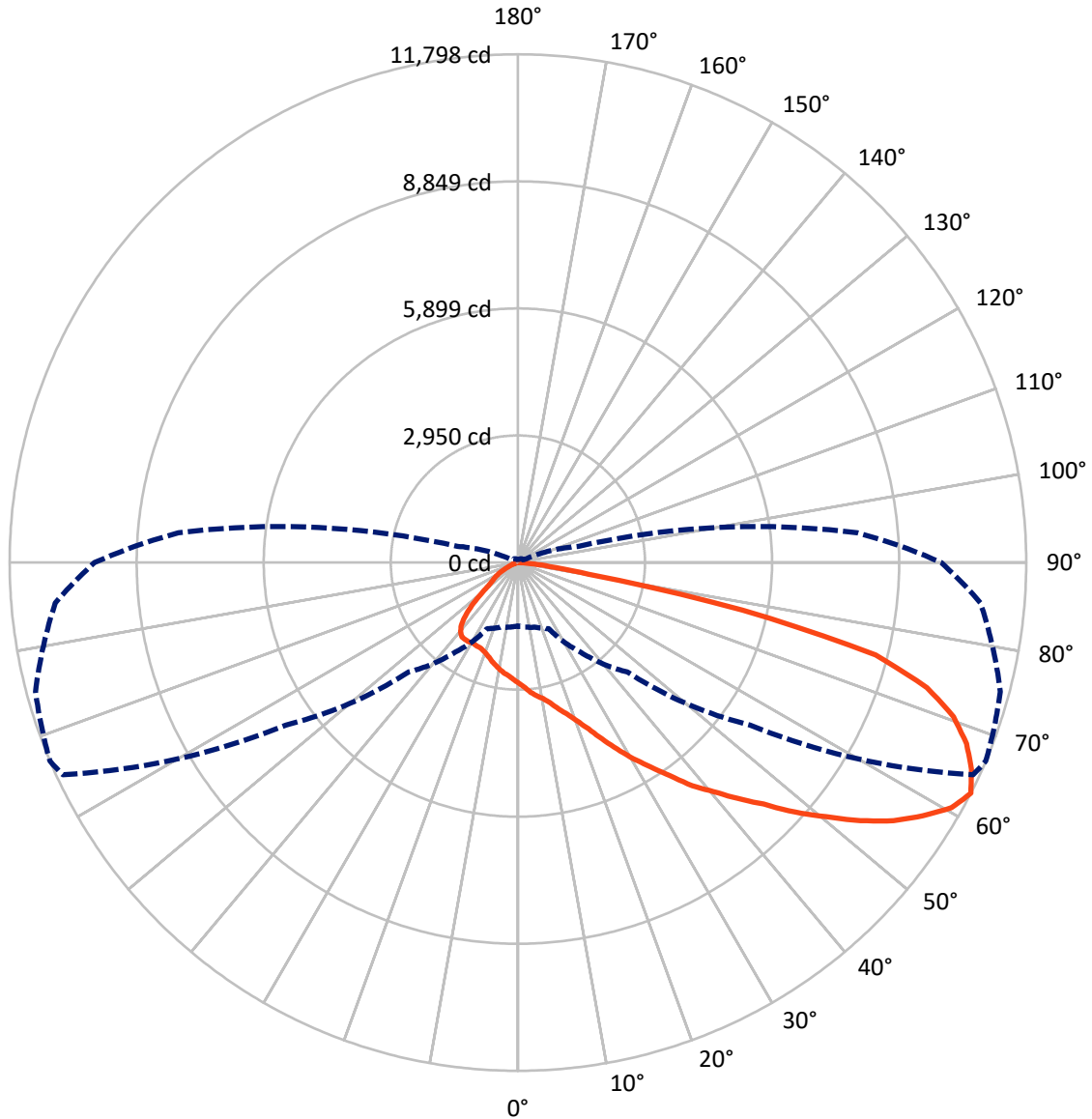
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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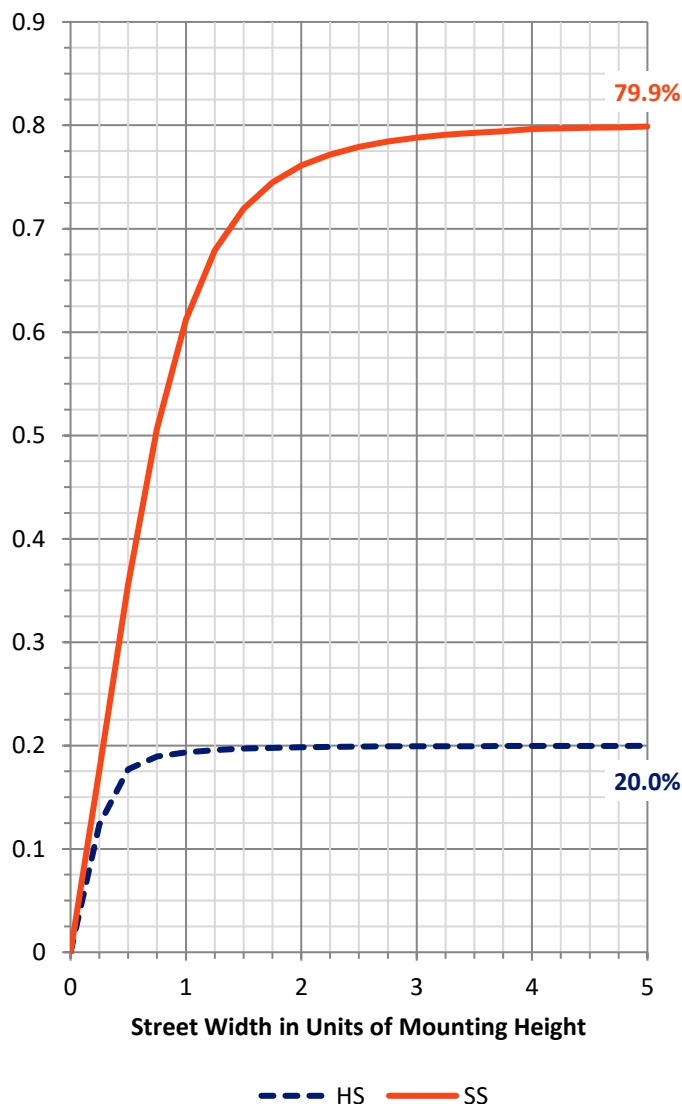
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3223.3	0.0	3223.3
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	12727.7	0.0	12727.7
	% Fixture	79.8	0.0	79.8
Total	Lumens	15951.0	0.0	15951.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.8	1.7
10°-20°	816.8	5.1
20°-30°	1393.2	8.7
30°-40°	2041.0	12.8
40°-50°	2693.5	16.9
50°-60°	3169.9	19.9
60°-70°	3260.2	20.4
70°-80°	2112.2	13.2
80°-90°	193.3	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°	15951.0	100.0
0°-180°	15951.0	100.0

Coefficient of Utilization



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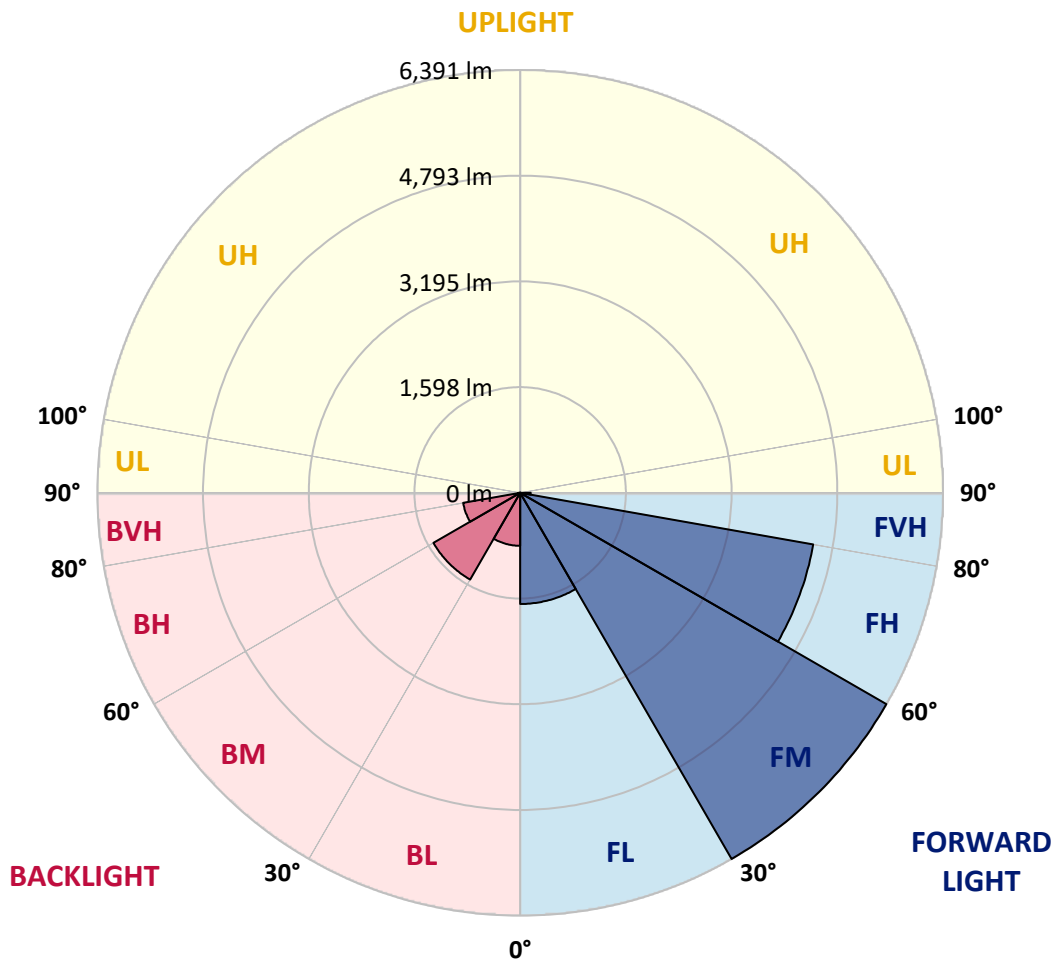
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1679.6	10.5			
FM (30°-60°)	6390.8	40.1			
FH (60°-80°)	4497.3	28.2			G2/5000
FVH (80°-90°)	159.9	1.0			G2/225
BL (0°-30°)	801.1	5.0	B2/1000		
BM (30°-60°)	1513.7	9.5	B2/2500		
BH (60°-80°)	875.1	5.5	B2/1000		G2/1000
BVH (80°-90°)	33.4	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°	2802.7	2802.7	2802.7	2802.7	2802.7	2802.7	2802.7	2802.7	2802.7	2802.7	2802.7
2.5°	3108.4	3104.9	3071.6	3040.6	3019.9	3018.7	2964.7	2916.5	2894.6	2869.4	2813.0
5°	3269.2	3296.8	3260.1	3214.1	3177.3	3149.7	3102.6	3047.5	3024.5	2964.7	2879.7
7.5°	3502.5	3502.5	3468.0	3429.0	3386.5	3312.9	3232.5	3136.0	3124.5	3057.8	2946.3
10°	3615.1	3642.7	3597.9	3551.9	3504.8	3466.9	3357.7	3239.4	3210.6	3110.7	2972.8
12.5°	3772.6	3772.6	3748.4	3709.4	3655.4	3579.5	3509.4	3389.9	3341.6	3192.3	3019.9
15°	3920.8	3908.2	3887.5	3823.1	3795.5	3748.4	3656.5	3531.2	3522.1	3356.6	3092.3
17.5°	4036.9	4016.2	3996.6	3962.2	3928.8	3910.5	3845.0	3735.8	3697.9	3546.2	3229.0
20°	4096.6	4113.9	4066.7	4065.6	4075.9	4062.1	4018.5	3936.9	3920.8	3740.4	3368.1
22.5°	4164.4	4187.4	4175.9	4187.4	4218.4	4241.4	4239.1	4221.9	4196.6	4000.1	3592.2
25°	4179.4	4164.4	4212.7	4319.5	4397.7	4452.8	4560.9	4539.0	4532.1	4358.6	3896.7
27.5°	4133.4	4147.2	4223.0	4377.0	4578.1	4728.6	4817.1	4926.3	4902.1	4767.7	4263.2
30°	4105.8	4129.9	4229.9	4410.3	4680.4	4952.7	5127.4	5263.0	5283.7	5176.8	4624.1
32.5°	4010.4	4042.6	4146.0	4436.8	4780.3	5192.9	5410.1	5662.9	5653.7	5610.0	5063.0
35°	3863.3	3905.9	4064.4	4402.3	4893.0	5408.9	5697.3	6065.1	6072.0	6090.3	5480.2
37.5°	3745.0	3758.8	3939.2	4300.0	4937.8	5583.6	5965.1	6462.7	6574.1	6547.7	5953.6
40°	3555.4	3596.7	3792.1	4174.8	4933.2	5701.9	6237.4	6928.0	6987.8	7070.5	6448.9
42.5°	3322.1	3366.9	3554.2	4004.7	4868.8	5805.4	6499.4	7402.6	7486.5	7616.4	6902.8
45°	3098.0	3117.6	3293.4	3756.5	4743.6	5886.9	6754.5	7870.3	7999.0	8185.2	7360.1
47.5°	2818.8	2871.7	3068.2	3496.8	4466.6	5916.8	6943.0	8421.9	8658.6	8772.4	7881.8
50°	2168.4	2201.7	2753.3	3268.1	4165.6	5823.7	7187.7	9121.7	9271.1	9389.5	8410.4
52.5°	1911.0	1940.9	2154.6	3003.8	3830.0	5582.4	7337.1	9772.1	9952.5	9927.3	8941.3
55°	1803.0	1817.9	1909.8	2451.1	3524.4	5134.3	7441.7	10482.3	10580.0	10416.8	9467.6
57.5°	1677.7	1695.0	1763.9	2054.6	3179.6	4566.6	7354.4	11051.1	11087.9	10885.6	9936.4
60°	1566.3	1577.7	1681.2	1838.6	2805.0	4016.2	7133.7	11460.2	11562.5	11230.4	10442.1
62.5°	1470.9	1498.5	1552.5	1691.5	2543.0	3589.9	6575.3	11653.2	11798.0	11591.2	10777.6
65°	1376.6	1389.3	1451.3	1574.3	2261.5	3338.2	6255.8	11399.3	11568.2	11639.4	10984.4
67.5°	1247.9	1266.3	1327.2	1415.7	1886.9	3093.4	5510.0	10986.7	11228.1	11385.5	10861.5
70°	1097.4	1113.5	1175.6	1249.1	1575.4	2732.6	4650.5	10566.2	10724.7	10735.1	10312.2
72.5°	922.7	937.7	999.7	1073.3	1307.7	2275.3	3645.0	9569.9	9925.0	10150.2	9390.6
75°	587.2	651.6	805.5	888.3	1076.7	1840.9	2600.5	7640.5	8573.6	9217.1	8126.6
77.5°	95.4	106.9	316.0	450.5	626.3	1247.9	1444.4	4233.4	5325.0	7702.6	6561.5
80°	72.4	81.6	114.9	305.7	402.2	776.8	568.8	1374.3	1657.0	3601.3	3676.0
82.5°	31.0	36.8	68.9	171.2	189.6	206.8	152.8	614.8	727.4	1095.1	1275.5
85°	10.3	13.8	32.2	54.0	59.8	46.0	33.3	243.6	299.9	525.1	486.1
87.5°	0.0	1.1	6.9	8.0	6.9	4.6	3.4	2.3	2.3	3.4	3.4
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°	2802.7	2802.7	2802.7	2802.7	2802.7	2802.7	2802.7	2802.7	2802.7	2802.7	2802.7
2.5°	2801.6	2762.5	2757.9	2710.8	2668.3	2620.0	2590.1	2579.8	2593.6	2607.4	2621.1
5°	2836.0	2776.3	2716.5	2618.8	2575.2	2522.3	2452.2	2409.7	2390.2	2407.4	2413.2
7.5°	2861.3	2784.3	2692.4	2559.1	2464.9	2363.7	2297.1	2225.8	2186.8	2193.7	2199.4
10°	2865.9	2780.9	2624.6	2495.9	2344.2	2205.2	2117.8	2084.5	2058.1	2035.1	2038.5
12.5°	2908.4	2783.2	2567.1	2410.9	2251.1	2071.9	1974.2	1931.7	1927.1	1880.0	1875.4
15°	2965.9	2833.7	2537.3	2333.9	2129.3	1960.4	1844.3	1768.5	1770.8	1746.7	1743.2
17.5°	3059.0	2883.1	2515.4	2244.2	2001.8	1846.6	1699.5	1630.6	1608.8	1601.9	1596.1
20°	3163.5	2955.5	2489.0	2164.9	1890.3	1709.9	1545.6	1475.5	1414.6	1396.2	1398.5
22.5°	3317.5	3050.9	2510.8	2105.2	1766.2	1576.6	1413.4	1276.7	1172.1	1144.5	1141.1
25°	3589.9	3239.4	2576.3	2053.5	1689.2	1446.7	1227.3	1035.4	897.5	867.6	869.9
27.5°	3893.2	3487.6	2667.1	2031.6	1591.5	1303.1	1000.9	787.1	658.4	624.0	626.3
30°	4252.9	3782.9	2805.0	1970.7	1487.0	1094.0	745.8	576.9	476.9	436.7	439.0
32.5°	4598.8	4078.2	2982.0	1961.5	1356.0	821.6	538.9	419.4	337.8	308.0	311.4
35°	4980.3	4416.1	3168.1	1915.6	1141.1	589.5	378.1	290.7	247.1	237.9	236.7
37.5°	5412.4	4717.1	3306.0	1873.1	853.8	414.8	258.6	224.1	218.3	205.7	205.7
40°	5813.4	5030.8	3409.4	1760.5	597.5	281.5	202.2	203.4	197.6	180.4	177.0
42.5°	6183.4	5354.9	3504.8	1580.0	404.5	191.9	181.6	185.0	187.3	167.8	163.2
45°	6602.8	5754.8	3484.1	1308.8	257.4	173.5	163.2	173.5	185.0	165.5	160.9
47.5°	7062.5	6047.8	3527.8	944.6	181.6	164.3	151.7	165.5	174.7	162.0	155.1
50°	7581.9	6431.6	3395.7	549.3	166.6	155.1	145.9	151.7	165.5	158.6	150.5
52.5°	8057.6	6774.1	3215.2	268.9	157.4	145.9	136.7	141.3	155.1	147.1	149.4
55°	8458.7	7130.3	2848.7	191.9	151.7	135.6	132.1	133.3	141.3	131.0	137.9
57.5°	8950.5	7423.3	2476.4	179.3	147.1	128.7	129.9	120.7	123.0	117.2	110.3
60°	9388.3	7700.3	1970.7	165.5	140.2	132.1	117.2	104.6	97.7	94.2	93.1
62.5°	9826.1	7910.5	1452.5	150.5	133.3	119.5	103.4	89.6	78.1	73.5	72.4
65°	9991.6	8023.2	991.7	137.9	125.3	109.2	91.9	72.4	59.8	55.2	51.7
67.5°	9868.6	7670.4	574.6	124.1	120.7	100.0	80.4	58.6	46.0	42.5	40.2
70°	9298.7	7116.5	306.8	112.6	105.7	88.5	71.2	48.3	36.8	32.2	31.0
72.5°	8318.5	6120.2	160.9	94.2	88.5	72.4	56.3	40.2	29.9	24.1	23.0
75°	7063.6	4804.5	112.6	68.9	60.9	56.3	42.5	32.2	24.1	18.4	17.2
77.5°	5575.5	3122.2	85.0	44.8	35.6	36.8	31.0	26.4	19.5	13.8	13.8
80°	2879.7	1622.6	64.4	29.9	20.7	21.8	21.8	19.5	14.9	10.3	10.3
82.5°	1142.2	597.5	44.8	17.2	12.6	13.8	12.6	12.6	10.3	6.9	6.9
85°	376.9	131.0	16.1	10.3	8.0	8.0	6.9	5.7	3.4	2.3	2.3
87.5°	3.4	3.4	4.6	5.7	5.7	4.6	3.4	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)