

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: P509508

Luminaire Tested: **VERD-G-CA2-110-740-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509508
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-CA2-110-740-U-T2-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1020mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15090 lumens
Efficiency: N/A
Efficacy: 133.3 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

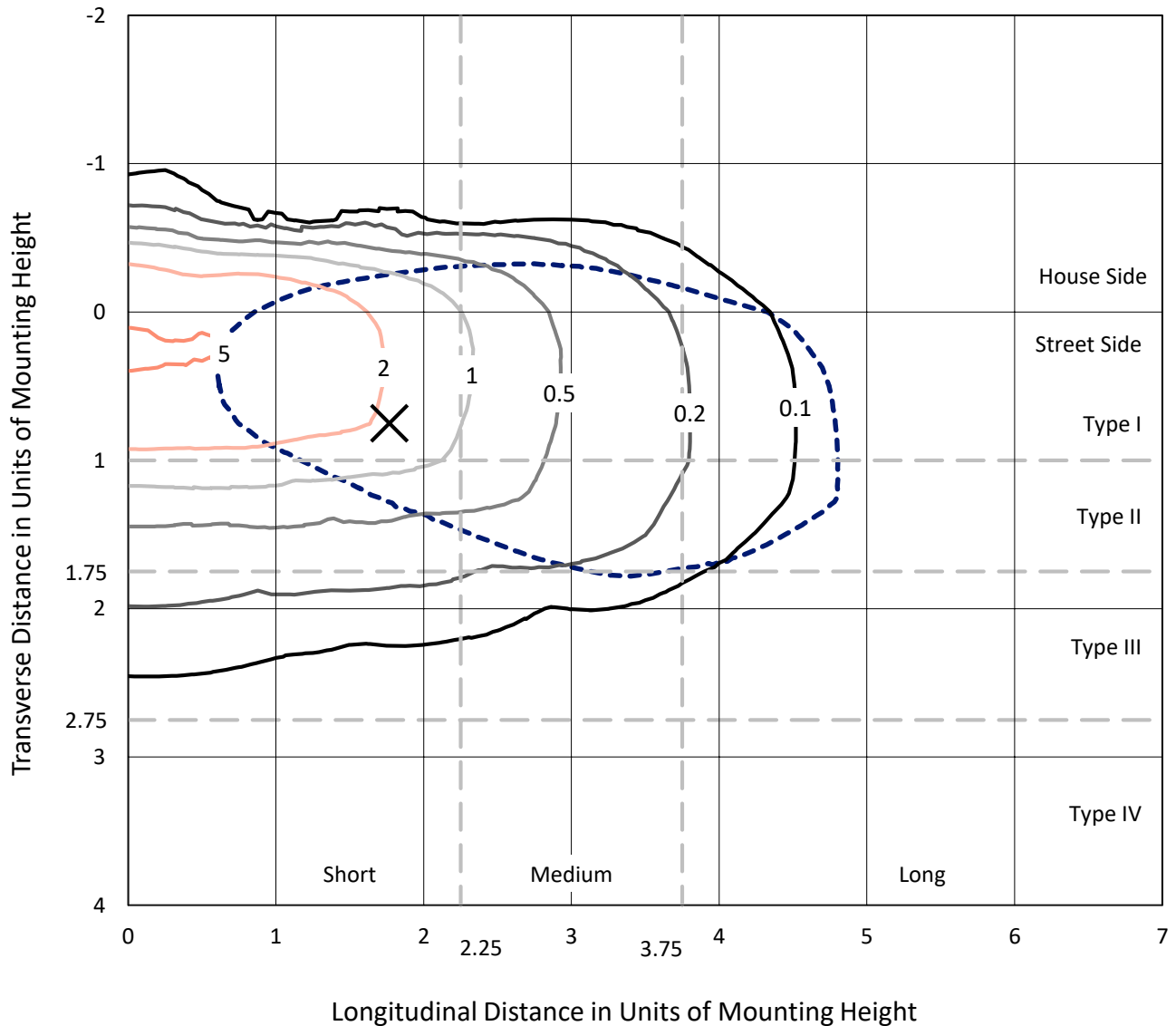
Input Watts (W): 113.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

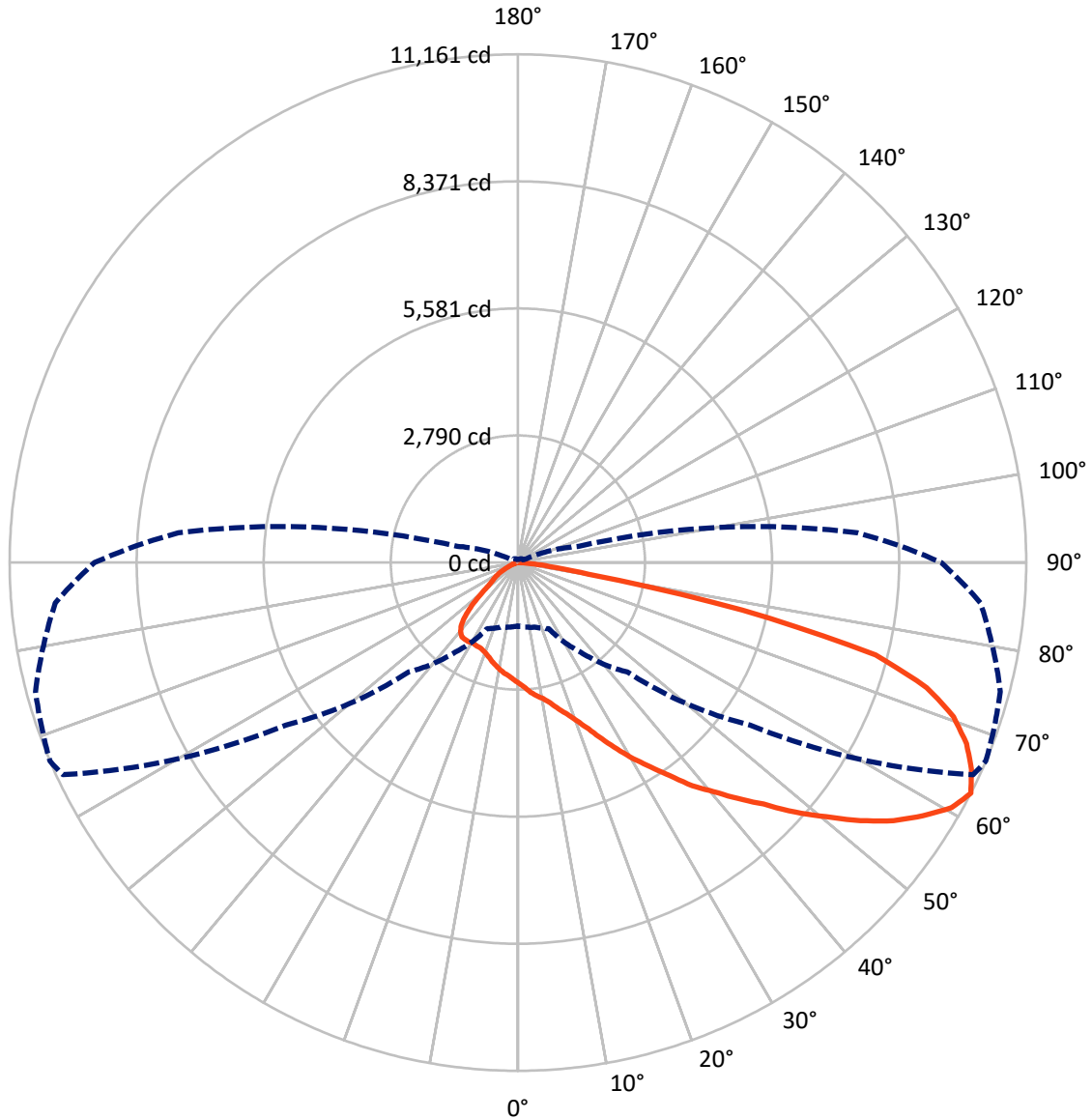
✕ Max cd
 - - - 1/2 Max cd



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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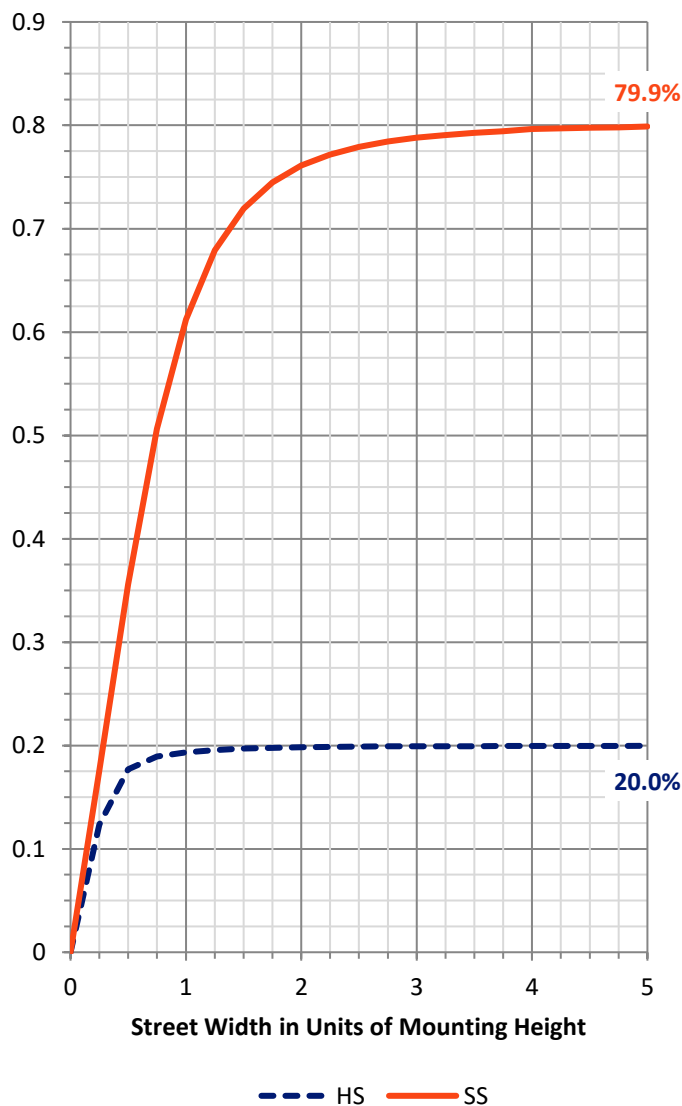
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3049.4	0.0	3049.4
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	12040.7	0.0	12040.7
	% Fixture	79.8	0.0	79.8
Total	Lumens	15090.0	0.0	15090.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.2	1.7
10°-20°	772.7	5.1
20°-30°	1318.0	8.7
30°-40°	1930.9	12.8
40°-50°	2548.2	16.9
50°-60°	2998.8	19.9
60°-70°	3084.2	20.4
70°-80°	1998.2	13.2
80°-90°	182.9	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°	15090.0	100.0
0°-180°	15090.0	100.0

Coefficient of Utilization



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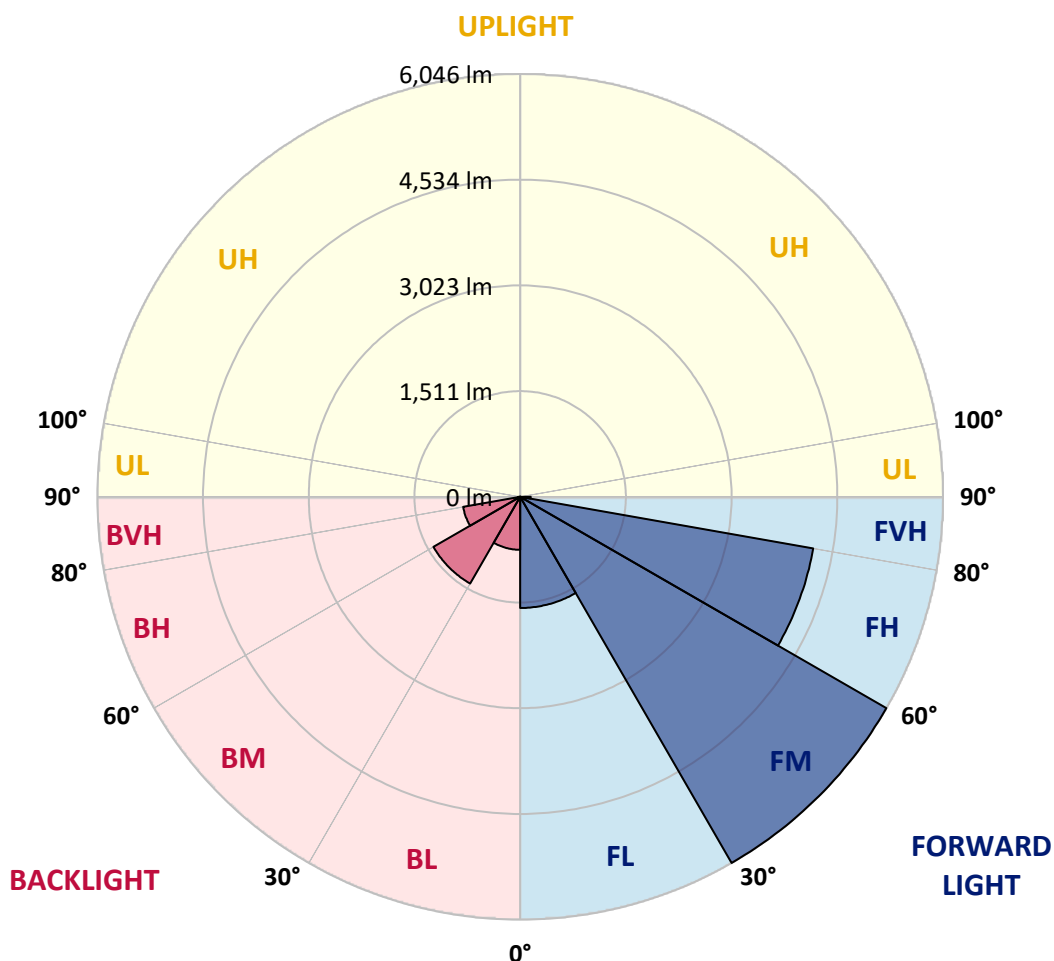
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1589.0	10.5			
FM (30°-60°)	6045.8	40.1			
FH (60°-80°)	4254.6	28.2			G2/5000
FVH (80°-90°)	151.3	1.0			G2/225
BL (0°-30°)	757.9	5.0	B2/1000		
BM (30°-60°)	1432.0	9.5	B2/2500		
BH (60°-80°)	827.9	5.5	B2/1000		G2/1000
BVH (80°-90°)	31.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2651.4	2651.4	2651.4	2651.4	2651.4	2651.4	2651.4	2651.4	2651.4	2651.4	2651.4
2.5°	2940.6	2937.3	2905.8	2876.4	2856.9	2855.8	2804.7	2759.0	2738.4	2714.5	2661.2
5°	3092.8	3118.9	3084.1	3040.6	3005.8	2979.7	2935.2	2883.0	2861.2	2804.7	2724.3
7.5°	3313.5	3313.5	3280.8	3243.9	3203.7	3134.1	3058.0	2966.7	2955.8	2892.8	2787.3
10°	3420.0	3446.1	3403.7	3360.2	3315.6	3279.8	3176.5	3064.5	3037.3	2942.8	2812.3
12.5°	3568.9	3568.9	3546.1	3509.1	3458.0	3386.3	3320.0	3206.9	3161.3	3019.9	2856.9
15°	3709.2	3697.2	3677.6	3616.8	3590.7	3546.1	3459.1	3340.6	3331.9	3175.4	2925.4
17.5°	3819.0	3799.4	3780.9	3748.3	3716.8	3699.4	3637.4	3534.1	3498.3	3354.8	3054.7
20°	3875.5	3891.8	3847.2	3846.1	3855.9	3842.9	3801.6	3724.4	3709.2	3538.5	3186.3
22.5°	3939.6	3961.4	3950.5	3961.4	3990.7	4012.5	4010.3	3994.0	3970.1	3784.2	3398.3
25°	3953.8	3939.6	3985.3	4086.4	4160.3	4212.5	4314.7	4294.0	4287.5	4123.3	3686.3
27.5°	3910.3	3923.3	3995.1	4140.7	4331.0	4473.4	4557.1	4660.4	4637.5	4510.4	4033.1
30°	3884.2	3907.0	4001.6	4172.3	4427.7	4685.4	4850.6	4978.9	4998.5	4897.4	4374.5
32.5°	3794.0	3824.4	3922.2	4197.3	4522.3	4912.6	5118.0	5357.2	5348.5	5307.2	4789.7
35°	3654.8	3695.0	3845.1	4164.7	4628.8	5116.9	5389.8	5737.7	5744.2	5761.6	5184.3
37.5°	3542.8	3555.9	3726.6	4067.9	4671.2	5282.2	5643.1	6113.8	6219.3	6194.3	5632.2
40°	3363.5	3402.6	3587.4	3949.4	4666.9	5394.2	5900.7	6554.1	6610.6	6688.9	6100.8
42.5°	3142.8	3185.2	3362.4	3788.5	4606.0	5492.0	6148.6	7003.1	7082.4	7205.3	6530.2
45°	2930.8	2949.3	3115.6	3553.7	4487.5	5569.2	6389.9	7445.5	7567.3	7743.4	6962.8
47.5°	2666.6	2716.6	2902.5	3308.0	4225.5	5597.4	6568.2	7967.3	8191.3	8298.9	7456.4
50°	2051.3	2082.9	2604.7	3091.7	3940.7	5509.4	6799.8	8629.3	8770.7	8882.6	7956.4
52.5°	1807.8	1836.1	2038.3	2841.7	3623.3	5281.1	6941.1	9244.6	9415.3	9391.4	8458.7
55°	1705.6	1719.8	1806.7	2318.8	3334.1	4857.1	7040.0	9916.5	10008.9	9854.5	8956.6
57.5°	1587.2	1603.5	1668.7	1943.7	3008.0	4320.1	6957.4	10454.6	10489.4	10298.0	9400.1
60°	1481.7	1492.6	1590.4	1739.3	2653.6	3799.4	6748.7	10841.6	10938.3	10624.2	9878.4
62.5°	1391.5	1417.6	1468.7	1600.2	2405.7	3396.1	6220.3	11024.2	11161.2	10965.5	10195.9
65°	1302.3	1314.3	1373.0	1489.3	2139.4	3158.0	5918.1	10784.0	10943.8	11011.2	10391.5
67.5°	1180.6	1198.0	1255.6	1339.3	1785.0	2926.5	5212.6	10393.7	10622.0	10770.9	10275.2
70°	1038.2	1053.4	1112.1	1181.7	1490.4	2585.1	4399.5	9995.8	10145.8	10155.6	9755.6
72.5°	872.9	887.1	945.8	1015.3	1237.1	2152.4	3448.3	9053.3	9389.2	9602.3	8883.7
75°	555.5	616.4	762.1	840.3	1018.6	1741.5	2460.1	7228.1	8110.8	8719.6	7687.9
77.5°	90.2	101.1	299.0	426.1	592.5	1180.6	1366.5	4004.9	5037.6	7286.8	6207.3
80°	68.5	77.2	108.7	289.2	380.5	734.9	538.1	1300.2	1567.6	3407.0	3477.6
82.5°	29.4	34.8	65.2	162.0	179.4	195.7	144.6	581.6	688.1	1036.0	1206.7
85°	9.8	13.0	30.4	51.1	56.5	43.5	31.5	230.5	283.7	496.8	459.8
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°	2651.4	2651.4	2651.4	2651.4	2651.4	2651.4	2651.4	2651.4	2651.4	2651.4	2651.4
2.5°	2650.3	2613.4	2609.0	2564.5	2524.2	2478.6	2450.3	2440.5	2453.6	2466.6	2479.7
5°	2682.9	2626.4	2569.9	2477.5	2436.2	2386.2	2319.9	2279.6	2261.2	2277.5	2282.9
7.5°	2706.9	2634.0	2547.1	2421.0	2331.8	2236.2	2173.1	2105.7	2068.7	2075.3	2080.7
10°	2711.2	2630.8	2482.9	2361.2	2217.7	2086.1	2003.5	1972.0	1947.0	1925.2	1928.5
12.5°	2751.4	2632.9	2428.6	2280.7	2129.6	1960.0	1867.6	1827.4	1823.1	1778.5	1774.1
15°	2805.8	2680.8	2400.3	2207.9	2014.4	1854.6	1744.8	1673.0	1675.2	1652.4	1649.1
17.5°	2893.8	2727.5	2379.6	2123.1	1893.7	1747.0	1607.8	1542.6	1521.9	1515.4	1510.0
20°	2992.8	2796.0	2354.6	2048.1	1788.3	1617.6	1462.1	1395.8	1338.2	1320.8	1323.0
22.5°	3138.4	2886.2	2375.3	1991.6	1670.9	1491.5	1337.1	1207.8	1108.8	1082.7	1079.5
25°	3396.1	3064.5	2437.3	1942.6	1598.0	1368.7	1161.0	979.5	849.0	820.8	822.9
27.5°	3683.1	3299.3	2523.1	1922.0	1505.6	1232.8	946.9	744.7	622.9	590.3	592.5
30°	4023.3	3578.7	2653.6	1864.4	1406.7	1034.9	705.5	545.7	451.1	413.1	415.3
32.5°	4350.5	3858.1	2821.0	1855.7	1282.8	777.3	509.8	396.8	319.6	291.3	294.6
35°	4711.5	4177.7	2997.1	1812.2	1079.5	557.7	357.7	275.0	233.7	225.0	223.9
37.5°	5120.2	4462.5	3127.6	1772.0	807.7	392.4	244.6	212.0	206.5	194.6	194.6
40°	5499.6	4759.3	3225.4	1665.4	565.3	266.3	191.3	192.4	187.0	170.7	167.4
42.5°	5849.7	5065.9	3315.6	1494.8	382.7	181.5	171.8	175.0	177.2	158.7	154.4
45°	6246.4	5444.2	3296.1	1238.2	243.5	164.2	154.4	164.2	175.0	156.5	152.2
47.5°	6681.3	5721.4	3337.4	893.6	171.8	155.5	143.5	156.5	165.2	153.3	146.8
50°	7172.6	6084.5	3212.4	519.6	157.6	146.8	138.1	143.5	156.5	150.0	142.4
52.5°	7622.7	6408.4	3041.7	254.4	148.9	138.1	129.4	133.7	146.8	139.1	141.3
55°	8002.1	6745.4	2694.9	181.5	143.5	128.3	125.0	126.1	133.7	123.9	130.5
57.5°	8467.4	7022.6	2342.7	169.6	139.1	121.8	122.8	114.1	116.3	110.9	104.4
60°	8881.6	7284.6	1864.4	156.5	132.6	125.0	110.9	98.9	92.4	89.1	88.1
62.5°	9295.7	7483.6	1374.1	142.4	126.1	113.1	97.8	84.8	73.9	69.6	68.5
65°	9452.3	7590.1	938.2	130.5	118.5	103.3	87.0	68.5	56.5	52.2	48.9
67.5°	9336.0	7256.3	543.5	117.4	114.1	94.6	76.1	55.4	43.5	40.2	38.0
70°	8796.8	6732.4	290.3	106.5	100.0	83.7	67.4	45.7	34.8	30.4	29.4
72.5°	7869.5	5789.9	152.2	89.1	83.7	68.5	53.3	38.0	28.3	22.8	21.7
75°	6682.4	4545.1	106.5	65.2	57.6	53.3	40.2	30.4	22.8	17.4	16.3
77.5°	5274.6	2953.6	80.4	42.4	33.7	34.8	29.4	25.0	18.5	13.0	13.0
80°	2724.3	1535.0	60.9	28.3	19.6	20.7	20.7	18.5	14.1	9.8	9.8
82.5°	1080.6	565.3	42.4	16.3	12.0	13.0	12.0	12.0	9.8	6.5	6.5
85°	356.6	123.9	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)