

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: P967626

Luminaire Tested: **NVN-SB5A-722-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967626
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5A-722-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19070.1 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

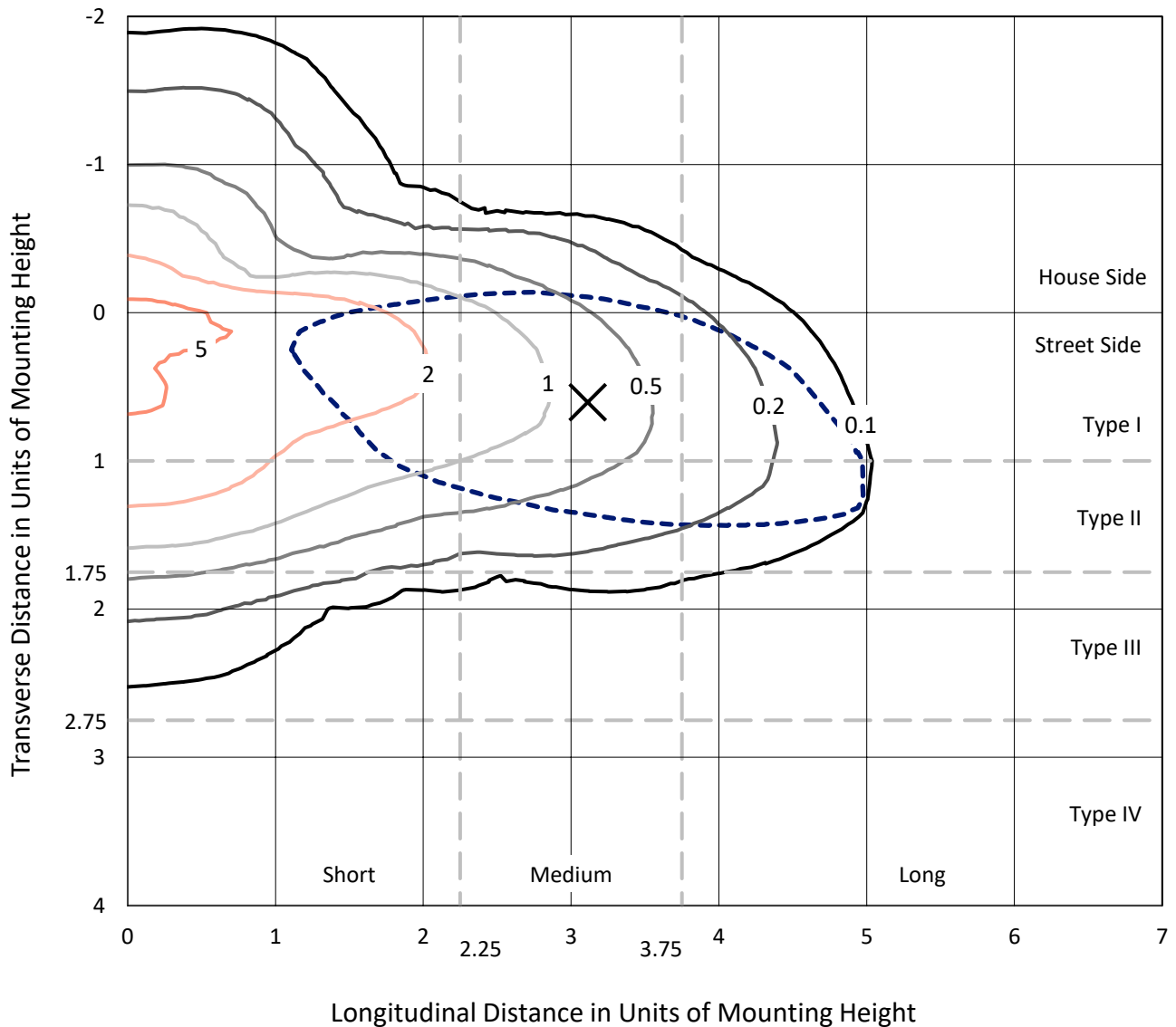
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

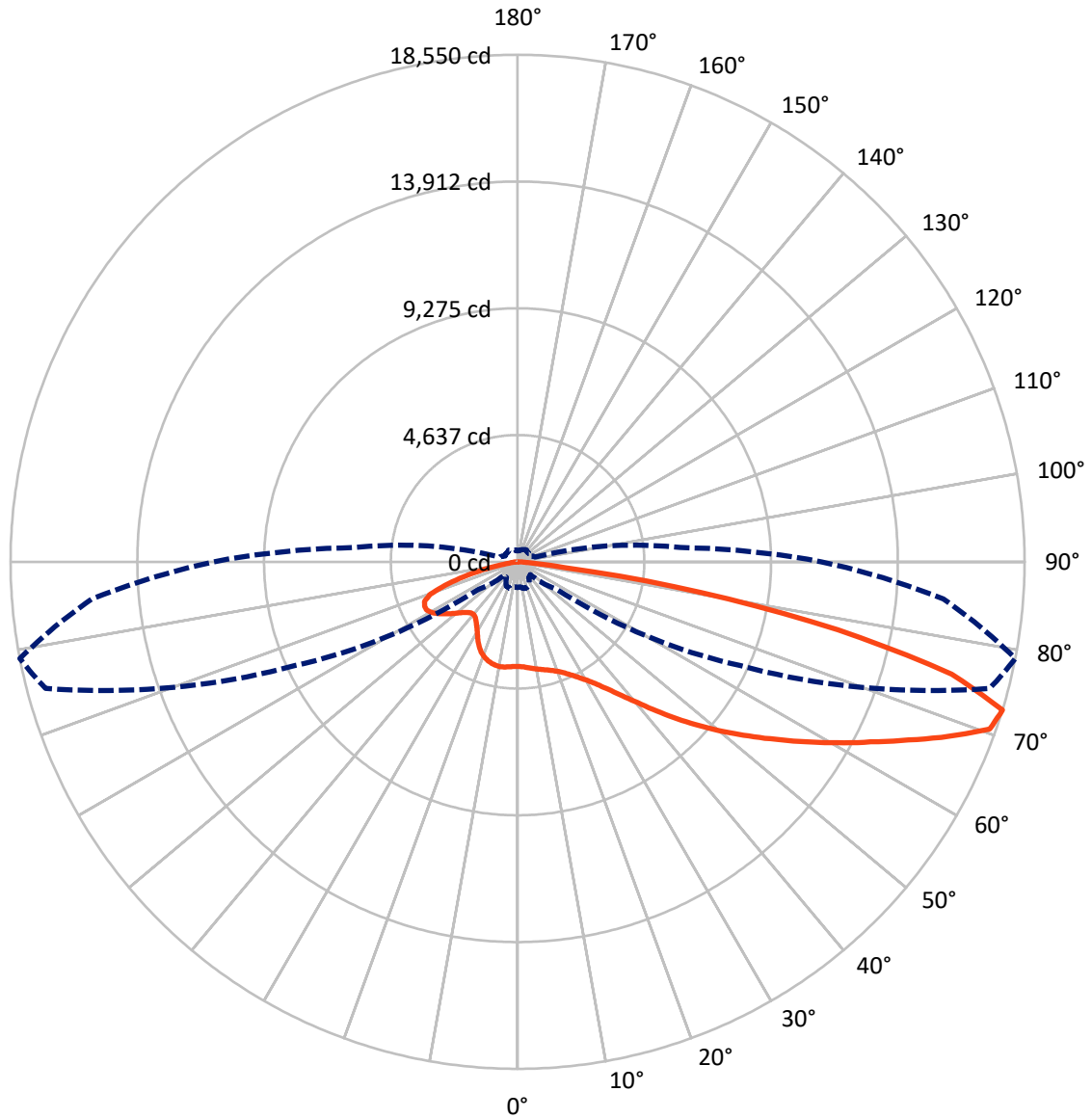
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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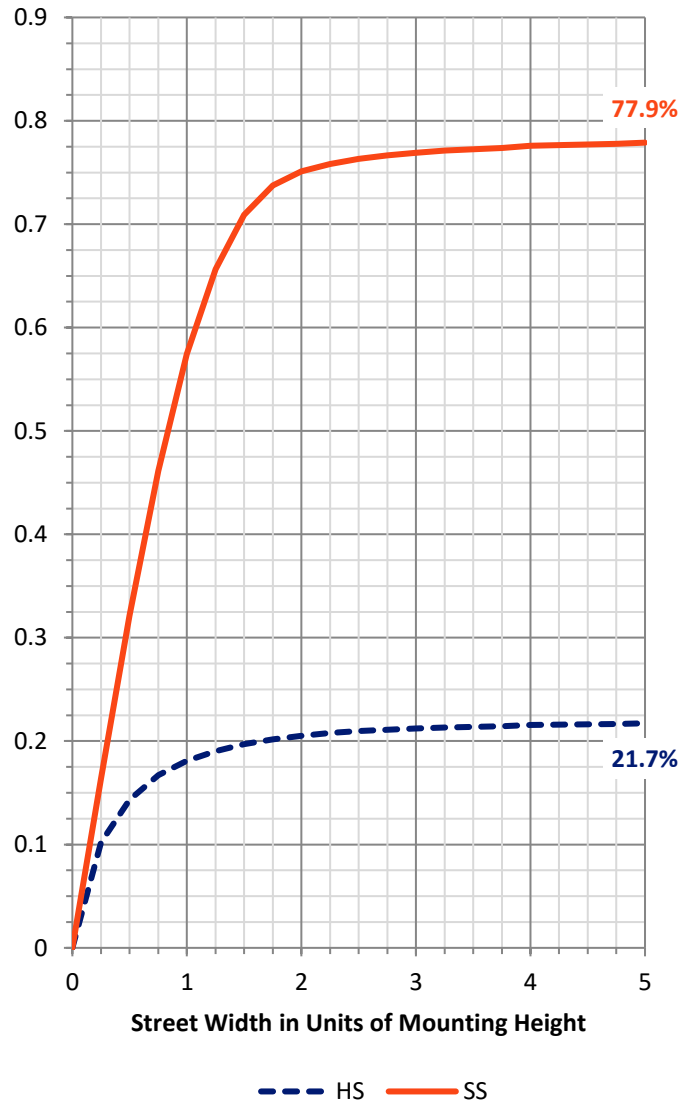
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4196.5	0.0	4196.5
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	14873.7	0.0	14873.7
	% Fixture	78.0	0.0	78.0
Total	Lumens	19070.1	0.0	19070.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.5	1.8
10°-20°	908.5	4.8
20°-30°	1465.9	7.7
30°-40°	2200.2	11.5
40°-50°	3121.1	16.4
50°-60°	3941.5	20.7
60°-70°	4003.1	21.0
70°-80°	2728.3	14.3
80°-90°	354.0	1.9
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°	19070.1	100.0
0°-180°	19070.1	100.0

Coefficient of Utilization



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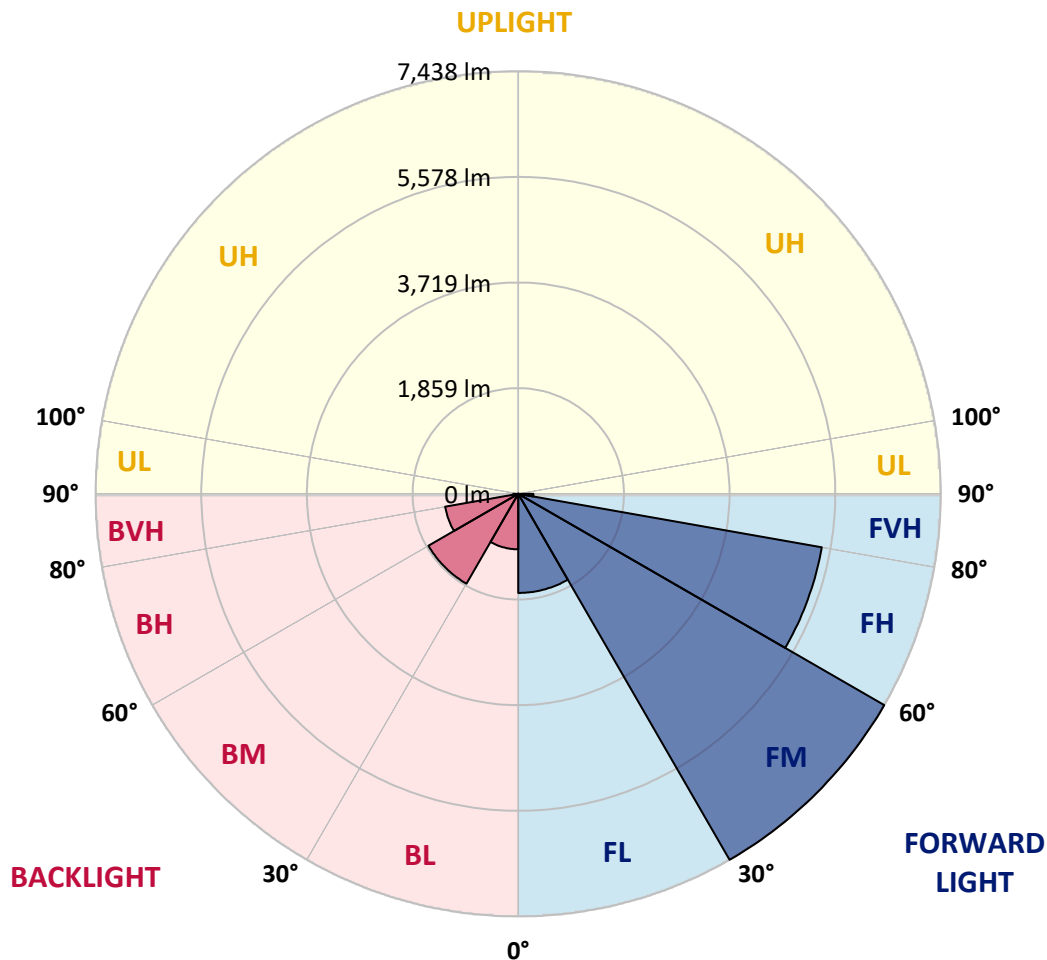
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1744.5	9.1			
FM (30°-60°)	7437.7	39.0			
FH (60°-80°)	5424.8	28.4			G3/7500
FVH (80°-90°)	266.7	1.4			G3/500
BL (0°-30°)	977.5	5.1	B2/1000		
BM (30°-60°)	1825.0	9.6	B2/2500		
BH (60°-80°)	1306.6	6.9	B3/2500		G3/2500
BVH (80°-90°)	87.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3828.2	3828.2	3828.2	3828.2	3828.2	3828.2	3828.2	3828.2	3828.2	3828.2	3828.2
2.5°	3830.1	3812.0	3823.1	3819.0	3824.1	3830.1	3832.2	3835.2	3845.3	3844.3	3843.2
5°	3822.1	3804.0	3819.0	3814.0	3827.1	3841.3	3853.4	3864.5	3880.6	3887.6	3877.6
7.5°	3804.9	3792.8	3808.0	3823.1	3847.3	3868.5	3885.7	3910.9	3934.1	3938.0	3945.1
10°	3705.1	3696.0	3731.3	3770.7	3837.2	3894.7	3932.0	3961.3	3986.5	3990.5	4000.7
12.5°	3601.1	3590.1	3629.4	3682.9	3790.9	3894.7	3973.4	4011.7	4033.9	4047.0	4062.2
15°	3584.0	3575.0	3597.1	3643.6	3733.4	3867.5	4001.6	4072.2	4091.4	4106.6	4112.6
17.5°	3666.7	3649.6	3658.6	3674.8	3727.3	3842.3	4023.8	4140.9	4170.1	4186.2	4186.2
20°	3858.4	3834.2	3820.1	3787.8	3778.8	3846.3	4021.8	4223.6	4262.0	4282.0	4287.2
22.5°	4113.6	4097.4	4067.2	3985.5	3896.7	3895.7	4060.1	4329.5	4401.1	4420.3	4408.2
25°	4422.3	4398.1	4359.7	4248.8	4078.3	3993.6	4124.7	4464.7	4584.7	4589.7	4554.5
27.5°	4777.3	4741.0	4688.6	4542.3	4312.4	4146.9	4223.6	4620.0	4795.6	4793.5	4720.8
30°	5151.6	5115.3	5059.8	4882.3	4592.7	4353.7	4360.8	4787.5	5045.7	5034.6	4910.5
32.5°	5425.0	5397.8	5386.7	5249.4	4915.6	4597.8	4518.1	4973.1	5354.4	5344.2	5170.8
35°	5634.8	5599.5	5612.6	5543.0	5267.6	4871.2	4710.8	5194.0	5729.6	5728.6	5512.8
37.5°	5842.6	5811.3	5822.4	5776.0	5593.4	5218.2	4945.8	5464.3	6194.6	6216.8	5926.3
40°	6032.2	5998.9	6043.3	5999.9	5846.6	5587.4	5213.2	5769.9	6733.3	6775.7	6426.6
42.5°	6146.2	6120.0	6193.7	6194.6	6066.6	5899.1	5506.7	6106.8	7356.7	7451.5	7042.0
45°	6185.6	6176.4	6287.5	6310.6	6261.2	6079.7	5771.0	6474.1	8028.5	8197.9	7743.1
47.5°	6143.2	6126.0	6279.4	6365.1	6404.4	6164.3	5989.9	6871.5	8714.4	8962.6	8507.7
50°	5929.3	5896.0	6124.1	6304.6	6444.8	6219.9	6210.8	7330.5	9494.2	9765.6	9276.4
52.5°	5545.0	5519.8	5779.1	6092.8	6356.0	6247.1	6458.9	7831.8	10234.6	10585.7	10064.2
55°	5053.8	5020.4	5305.9	5715.5	6135.1	6238.0	6707.1	8392.7	11108.1	11464.2	10878.2
57.5°	4275.0	4208.4	4569.6	5053.8	5775.0	6226.9	6965.3	8950.5	11995.9	12422.6	11746.7
60°	3139.2	3040.4	3483.2	4057.2	5070.9	6118.9	7285.1	9576.0	13061.1	13445.4	12694.9
62.5°	1827.8	1770.3	2059.8	2595.5	3822.1	5483.4	7464.7	10303.2	14108.2	14511.6	13627.0
65°	1419.3	1403.1	1428.3	1469.7	2127.4	4105.5	6910.9	11012.4	15439.7	15722.2	14598.4
67.5°	1298.3	1286.2	1297.2	1219.5	1079.3	2286.8	5467.3	11191.9	16866.1	17037.6	15448.8
70°	1153.9	1139.9	1176.2	1109.6	849.3	1040.0	3532.6	10540.3	18000.8	18322.7	16095.4
72.5°	940.1	924.0	1008.7	978.5	715.1	667.8	1774.4	8991.8	17881.8	18549.6	15632.4
75°	722.2	713.2	814.1	839.3	583.0	525.5	851.4	6683.9	15736.2	16409.1	13472.7
77.5°	560.9	553.8	605.3	697.0	470.1	407.5	523.6	4239.7	11858.6	11976.7	9284.3
80°	420.7	400.5	447.9	539.7	366.1	297.6	355.1	2472.4	7495.9	6794.8	4041.0
82.5°	263.3	253.2	292.5	360.1	258.2	204.8	231.0	1365.8	3004.0	1769.4	779.7
85°	150.3	146.3	159.4	205.8	140.2	118.0	132.1	603.2	548.8	377.3	235.0
87.5°	60.5	58.5	72.7	91.8	51.5	43.4	46.4	145.2	121.1	111.9	77.7
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°	3828.2	3828.2	3828.2	3828.2	3828.2	3828.2	3828.2	3828.2	3828.2	3828.2	3828.2
2.5°	3839.2	3839.2	3825.1	3803.0	3777.7	3761.5	3735.3	3728.2	3701.1	3693.0	3706.1
5°	3885.7	3877.6	3834.2	3771.7	3685.9	3607.3	3520.5	3466.0	3389.4	3362.1	3382.3
7.5°	3944.2	3922.0	3847.3	3710.1	3530.6	3354.0	3170.4	3031.2	2898.1	2850.7	2856.8
10°	3997.6	3966.3	3839.2	3599.2	3288.5	2982.9	2690.3	2485.5	2330.1	2266.6	2280.7
12.5°	4051.1	3993.6	3785.7	3414.6	2944.5	2529.9	2218.2	2058.8	1963.0	1886.3	1911.5
15°	4101.5	4020.8	3703.0	3167.5	2567.2	2146.6	1916.5	1789.4	1712.9	1662.3	1671.5
17.5°	4160.1	4044.0	3579.0	2853.7	2208.2	1881.3	1693.7	1617.0	1601.9	1595.8	1599.8
20°	4241.8	4065.2	3415.6	2502.6	1943.8	1669.4	1572.7	1565.6	1564.6	1561.5	1571.6
22.5°	4329.5	4090.5	3199.7	2183.9	1718.9	1537.3	1520.2	1506.0	1497.0	1496.0	1507.1
25°	4433.4	4098.5	2929.3	1922.7	1527.2	1474.8	1454.6	1433.5	1427.3	1427.3	1433.5
27.5°	4534.3	4071.3	2614.7	1695.7	1419.3	1417.3	1391.0	1384.0	1382.9	1386.0	1394.1
30°	4635.2	4019.8	2301.9	1485.8	1356.8	1356.8	1347.7	1352.7	1356.8	1366.8	1373.9
32.5°	4771.3	3965.3	2040.7	1330.6	1302.3	1292.2	1301.2	1311.4	1315.4	1328.5	1339.6
35°	4971.0	3927.0	1832.9	1245.8	1245.8	1232.7	1237.7	1235.7	1226.6	1220.6	1234.7
37.5°	5235.3	3925.0	1661.4	1206.4	1198.3	1196.4	1197.4	1184.3	1148.9	1106.6	1107.6
40°	5553.0	3979.5	1529.2	1179.2	1173.1	1185.3	1179.2	1143.9	1047.0	973.4	971.4
42.5°	5979.7	4134.8	1444.5	1145.9	1164.1	1179.2	1155.0	1033.0	967.4	918.0	915.9
45°	6482.1	4387.0	1401.2	1110.6	1147.0	1165.1	1048.1	994.7	942.2	882.6	878.6
47.5°	7051.1	4704.8	1391.0	1077.4	1108.6	1119.7	1002.7	978.5	918.9	854.4	849.3
50°	7670.4	5081.0	1418.3	1038.0	1053.1	1014.7	987.6	965.3	903.8	840.3	833.2
52.5°	8311.0	5495.5	1472.7	984.5	997.6	955.3	981.5	962.4	894.7	809.0	803.0
55°	8940.5	5913.2	1525.2	922.0	941.2	901.8	964.3	950.3	853.4	756.6	751.5
57.5°	9580.0	6328.8	1576.7	866.5	886.7	850.3	937.2	918.0	807.0	708.2	706.1
60°	10244.7	6732.3	1600.8	813.0	827.2	803.0	895.7	862.4	754.5	658.7	655.7
62.5°	10867.0	7068.2	1561.5	759.6	768.6	758.6	841.3	796.9	702.1	603.2	602.2
65°	11491.5	7268.0	1440.4	707.1	709.1	704.1	764.6	726.3	640.5	554.8	548.8
67.5°	12057.4	7379.9	1247.8	650.7	645.5	643.6	693.0	649.6	581.1	506.4	500.3
70°	12177.4	7095.5	953.2	584.0	584.0	579.0	614.3	569.9	515.5	454.9	452.9
72.5°	11122.3	5968.7	676.9	508.4	516.5	506.4	535.7	498.4	448.8	408.6	396.5
75°	8968.6	4376.9	492.3	430.7	444.8	427.7	454.9	428.8	386.3	385.3	347.0
77.5°	6162.4	2706.4	357.1	355.1	365.2	343.0	374.2	360.1	321.7	304.6	285.5
80°	2629.7	1079.3	260.2	274.4	274.4	254.2	290.5	294.6	261.3	253.2	253.2
82.5°	523.6	306.7	182.6	188.6	177.5	171.5	205.8	228.0	314.7	350.0	351.1
85°	157.3	113.0	110.0	102.9	90.8	91.8	121.1	229.0	282.5	161.4	139.2
87.5°	43.4	28.3	29.2	23.2	19.2	25.2	41.3	173.5	94.8	40.4	34.3
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)