

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: LUMARK

Report Number: P965518

Luminaire Tested: **NAV-SB4A-722-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P965518  
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: LUMARK  
Catalog Number: NAV-SB4A-722-U-SL2  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 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: 15130 lumens  
Efficiency: N/A  
Efficacy: 132.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

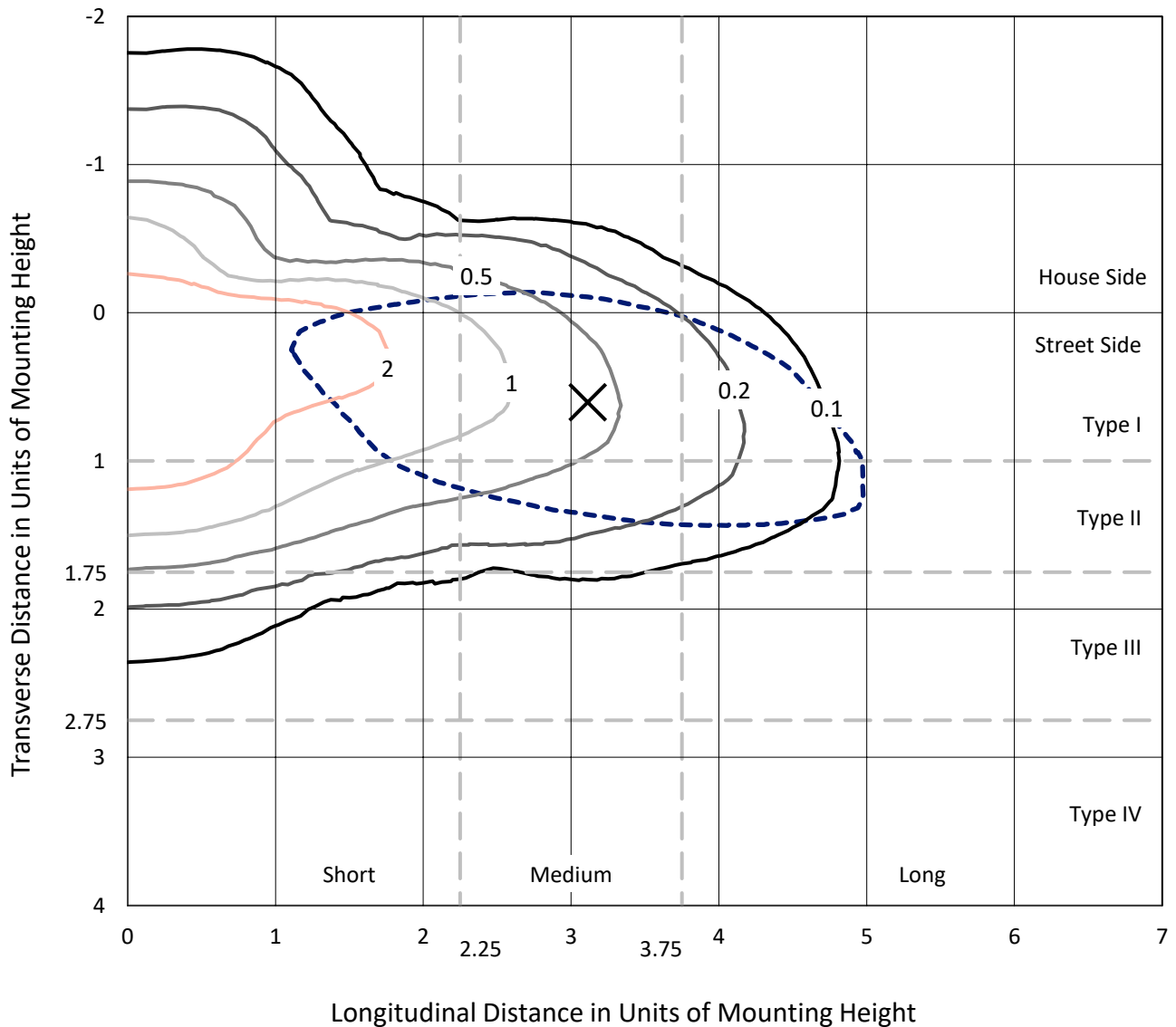
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

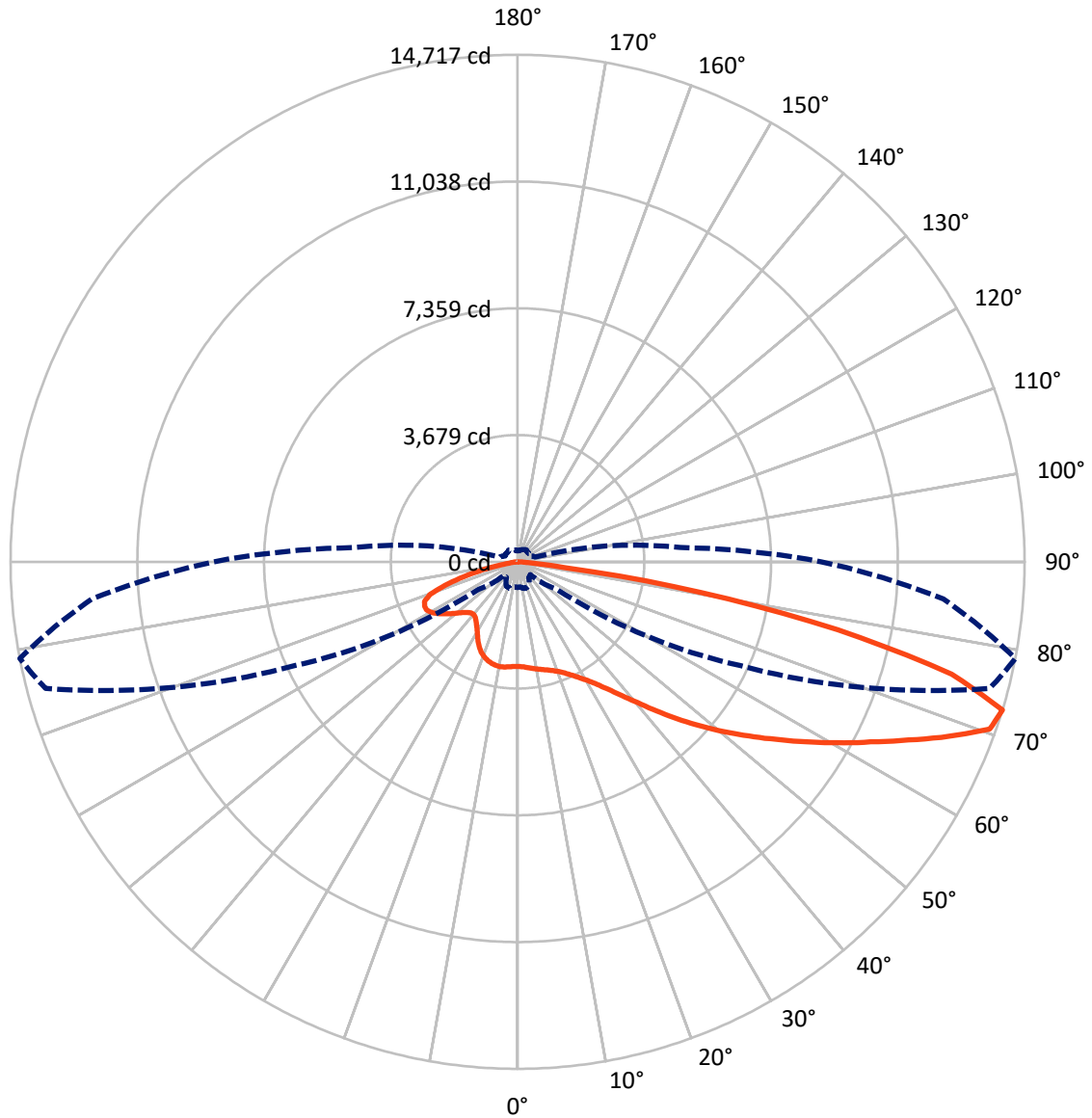
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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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 CATALOG NUMBER: NAV-SB4A-722-U-SL2

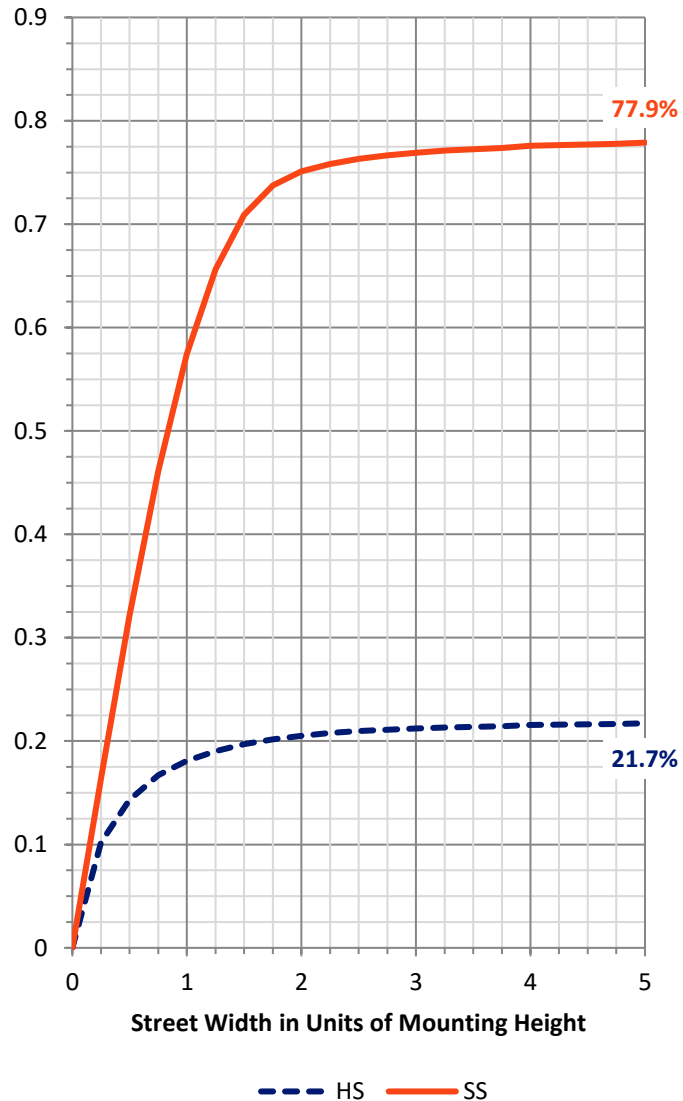
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3329.4	0.0	3329.4
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	11800.6	0.0	11800.6
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	15130.0	0.0	15130.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.7	1.8
10°-20°	720.8	4.8
20°-30°	1163.1	7.7
30°-40°	1745.6	11.5
40°-50°	2476.2	16.4
50°-60°	3127.1	20.7
60°-70°	3176.0	21.0
70°-80°	2164.6	14.3
80°-90°	280.8	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°	15130.0	100.0
0°-180°	15130.0	100.0

**Coefficient of Utilization**

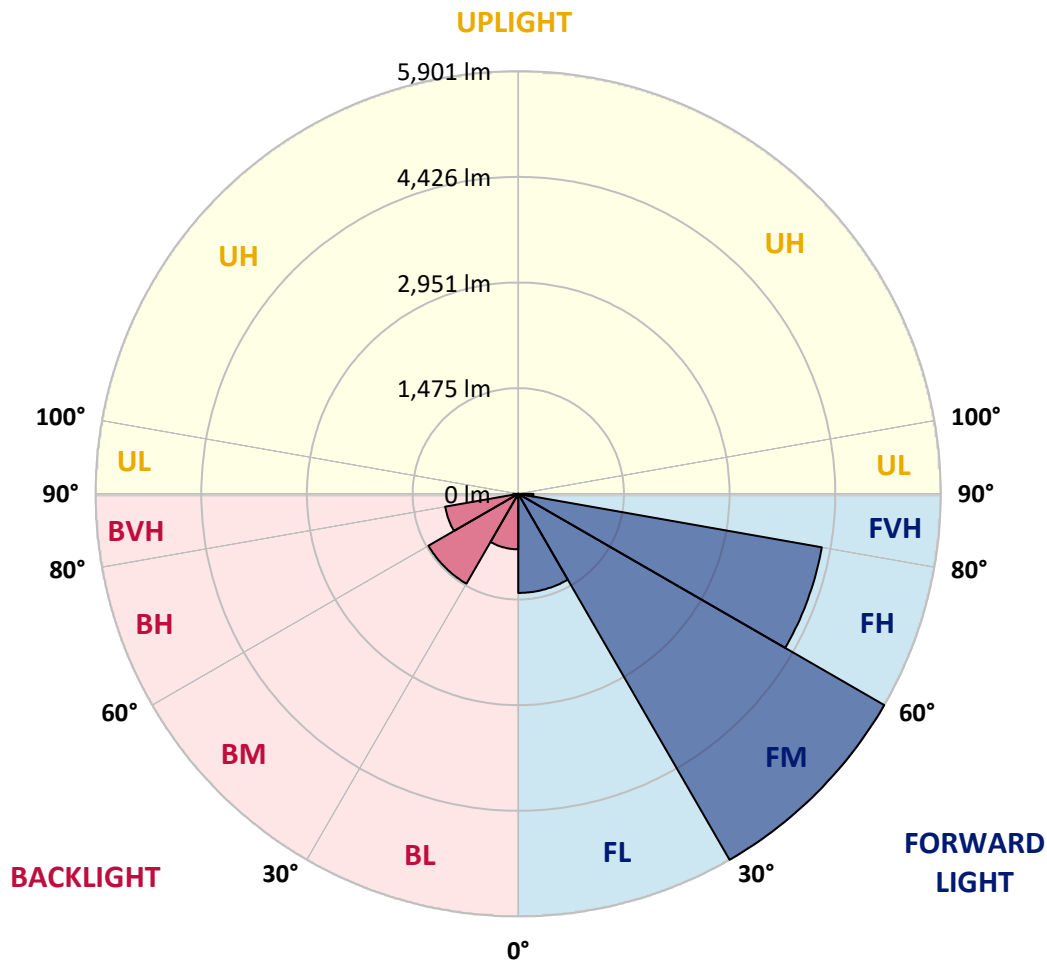


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1384.0	9.1			
FM (30°-60°)	5901.0	39.0			
FH (60°-80°)	4304.0	28.4			G2/5000
FVH (80°-90°)	211.6	1.4			G2/225
BL (0°-30°)	775.5	5.1	B2/1000		
BM (30°-60°)	1448.0	9.6	B2/2500		
BH (60°-80°)	1036.7	6.9	B3/2500		G3/2500
BVH (80°-90°)	69.3	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°	3037.2	3037.2	3037.2	3037.2	3037.2	3037.2	3037.2	3037.2	3037.2	3037.2	3037.2
2.5°	3038.8	3024.4	3033.2	3030.0	3034.0	3038.8	3040.5	3042.8	3050.8	3050.0	3049.2
5°	3032.4	3018.0	3030.0	3026.0	3036.4	3047.6	3057.3	3066.0	3078.8	3084.4	3076.4
7.5°	3018.8	3009.2	3021.2	3033.2	3052.4	3069.3	3082.8	3102.9	3121.2	3124.4	3130.0
10°	2939.6	2932.3	2960.4	2991.6	3044.5	3090.1	3119.7	3142.9	3162.8	3166.0	3174.0
12.5°	2857.2	2848.4	2879.5	2922.0	3007.6	3090.1	3152.5	3182.8	3200.5	3210.9	3222.9
15°	2843.6	2836.3	2853.9	2890.7	2961.9	3068.4	3174.8	3230.9	3246.1	3258.1	3262.9
17.5°	2909.2	2895.5	2902.8	2915.5	2957.2	3048.5	3192.5	3285.3	3308.5	3321.3	3321.3
20°	3061.3	3042.0	3030.8	3005.2	2998.0	3051.6	3190.8	3350.9	3381.4	3397.4	3401.4
22.5°	3263.7	3250.9	3226.9	3162.0	3091.6	3090.8	3221.3	3435.0	3491.8	3507.0	3497.4
25°	3508.6	3489.4	3459.0	3370.9	3235.7	3168.5	3272.5	3542.2	3637.4	3641.4	3613.4
27.5°	3790.3	3761.5	3719.9	3603.8	3421.3	3290.1	3350.9	3665.5	3804.7	3803.2	3745.5
30°	4087.2	4058.4	4014.4	3873.6	3643.9	3454.1	3459.8	3798.3	4003.2	3994.4	3895.9
32.5°	4304.1	4282.6	4273.7	4164.9	3899.9	3647.9	3584.6	3945.5	4248.1	4240.1	4102.5
35°	4470.5	4442.6	4453.0	4397.8	4179.2	3864.8	3737.5	4120.8	4545.8	4545.1	4373.8
37.5°	4635.5	4610.7	4619.5	4582.7	4437.7	4140.1	3924.0	4335.3	4914.8	4932.4	4701.9
40°	4785.9	4759.5	4794.7	4760.3	4638.6	4432.9	4136.1	4577.9	5342.1	5375.7	5098.9
42.5°	4876.3	4855.5	4914.0	4914.8	4813.1	4680.3	4369.0	4845.2	5836.8	5912.0	5587.1
45°	4907.6	4900.3	4988.4	5006.8	4967.6	4823.5	4578.6	5136.5	6369.8	6504.1	6143.2
47.5°	4874.0	4860.3	4982.0	5050.0	5081.2	4890.8	4752.3	5451.8	6913.9	7110.8	6749.9
50°	4704.2	4677.9	4858.7	5002.0	5113.2	4934.8	4927.6	5816.0	7532.6	7747.9	7359.7
52.5°	4399.3	4379.3	4585.0	4833.9	5042.8	4956.4	5124.5	6213.7	8120.0	8398.5	7984.7
55°	4009.6	3983.2	4209.7	4534.6	4867.5	4949.2	5321.3	6658.6	8813.2	9095.6	8630.6
57.5°	3391.7	3338.9	3625.4	4009.6	4581.9	4940.4	5526.2	7101.2	9517.4	9855.9	9319.7
60°	2490.5	2412.1	2763.5	3218.9	4023.2	4854.7	5779.9	7597.4	10362.5	10667.5	10072.0
62.5°	1450.2	1404.6	1634.3	2059.2	3032.4	4350.5	5922.3	8174.5	11193.2	11513.4	10811.5
65°	1126.1	1113.3	1133.2	1166.0	1687.9	3257.2	5483.0	8737.1	12249.7	12473.7	11582.2
67.5°	1030.0	1020.4	1029.2	967.6	856.4	1814.4	4337.7	8879.6	13381.4	13517.4	12256.8
70°	915.5	904.4	933.2	880.4	673.8	825.1	2802.8	8362.6	14281.6	14537.0	12769.9
72.5°	745.9	733.1	800.3	776.3	567.4	529.8	1407.7	7134.0	14187.2	14717.1	12402.5
75°	573.1	565.8	645.9	665.8	462.6	417.0	675.5	5302.9	12485.0	13018.7	10689.0
77.5°	445.0	439.4	480.2	553.0	373.0	323.3	415.3	3363.7	9408.6	9502.2	7366.2
80°	333.7	317.8	355.4	428.1	290.5	236.1	281.7	1961.5	5947.2	5391.0	3206.1
82.5°	208.9	200.9	232.1	285.7	204.9	162.5	183.3	1083.6	2383.3	1403.7	618.7
85°	119.2	116.0	126.5	163.3	111.2	93.7	104.9	478.6	435.4	299.3	186.4
87.5°	48.0	46.4	57.6	72.9	40.8	34.4	36.8	115.2	96.0	88.9	61.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P965518  
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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3037.2	3037.2	3037.2	3037.2	3037.2	3037.2	3037.2	3037.2	3037.2	3037.2	3037.2
2.5°	3046.0	3046.0	3034.8	3017.2	2997.2	2984.4	2963.6	2957.9	2936.3	2930.0	2940.4
5°	3082.8	3076.4	3042.0	2992.4	2924.3	2861.9	2793.1	2749.9	2689.1	2667.5	2683.4
7.5°	3129.2	3111.6	3052.4	2943.6	2801.1	2661.1	2515.4	2405.0	2299.3	2261.7	2266.5
10°	3171.7	3146.9	3046.0	2855.5	2609.0	2366.5	2134.5	1972.0	1848.7	1798.4	1809.5
12.5°	3214.1	3168.5	3003.6	2709.1	2336.2	2007.2	1759.9	1633.4	1557.4	1496.6	1516.6
15°	3254.1	3190.1	2938.0	2513.0	2036.8	1703.0	1520.6	1419.7	1358.9	1319.0	1326.1
17.5°	3300.5	3208.5	2839.6	2264.1	1751.9	1492.6	1343.8	1282.9	1270.9	1266.1	1269.3
20°	3365.4	3225.3	2709.9	1985.6	1542.2	1324.5	1247.7	1242.1	1241.3	1238.9	1246.9
22.5°	3435.0	3245.3	2538.6	1732.7	1363.8	1219.6	1206.1	1194.8	1187.7	1186.8	1195.7
25°	3517.4	3251.7	2324.1	1525.4	1211.7	1170.0	1154.0	1137.2	1132.4	1132.4	1137.2
27.5°	3597.4	3230.1	2074.4	1345.3	1126.1	1124.4	1103.6	1098.1	1097.3	1099.6	1106.1
30°	3677.5	3189.3	1826.3	1178.9	1076.5	1076.5	1069.2	1073.3	1076.5	1084.4	1090.0
32.5°	3785.5	3146.0	1619.1	1055.6	1033.2	1025.2	1032.4	1040.4	1043.7	1054.0	1062.8
35°	3944.0	3115.6	1454.2	988.4	988.4	978.0	982.0	980.4	973.2	968.4	979.6
37.5°	4153.6	3114.1	1318.1	957.1	950.8	949.1	950.0	939.6	911.5	877.9	878.7
40°	4405.8	3157.3	1213.3	935.6	930.8	940.3	935.6	907.5	830.8	772.3	770.7
42.5°	4744.3	3280.5	1146.1	909.2	923.5	935.6	916.4	819.5	767.5	728.3	726.7
45°	5142.8	3480.6	1111.6	881.2	910.0	924.3	831.5	789.1	747.5	700.3	697.1
47.5°	5594.2	3732.6	1103.6	854.7	879.6	888.4	795.5	776.3	729.1	677.8	673.8
50°	6085.6	4031.2	1125.2	823.5	835.6	805.1	783.5	765.9	717.1	666.7	661.0
52.5°	6593.8	4360.1	1168.5	781.2	791.5	757.9	778.7	763.5	709.9	641.9	637.0
55°	7093.2	4691.4	1210.1	731.4	746.7	715.4	765.1	753.9	677.1	600.2	596.2
57.5°	7600.6	5021.2	1250.9	687.5	703.5	674.7	743.5	728.3	640.2	561.8	560.3
60°	8128.0	5341.3	1270.1	645.0	656.3	637.0	710.6	684.3	598.6	522.6	520.2
62.5°	8621.8	5607.9	1238.9	602.6	609.9	601.9	667.5	632.2	557.0	478.6	477.8
65°	9117.3	5766.3	1142.9	561.0	562.6	558.6	606.6	576.3	508.2	440.1	435.4
67.5°	9566.2	5855.1	989.9	516.2	512.2	510.6	549.8	515.4	460.9	401.8	397.0
70°	9661.4	5629.4	756.3	463.4	463.4	459.4	487.4	452.2	409.0	360.9	359.4
72.5°	8824.3	4735.5	537.0	403.3	409.8	401.8	425.0	395.3	356.2	324.1	314.6
75°	7115.7	3472.6	390.5	341.7	352.9	339.4	360.9	340.1	306.5	305.8	275.3
77.5°	4889.1	2147.3	283.3	281.7	289.7	272.1	296.9	285.7	255.3	241.7	226.5
80°	2086.4	856.4	206.4	217.7	217.7	201.7	230.5	233.7	207.3	200.9	200.9
82.5°	415.3	243.3	144.8	149.6	140.8	136.0	163.3	180.9	249.7	277.7	278.5
85°	124.8	89.6	87.2	81.6	72.1	72.9	96.0	181.6	224.1	128.0	110.5
87.5°	34.4	22.4	23.2	18.4	15.2	20.0	32.8	137.7	75.2	32.0	27.2
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)