

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: P963953

Luminaire Tested: **NAV-SB3B-722-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963953
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-722-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11219.6 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

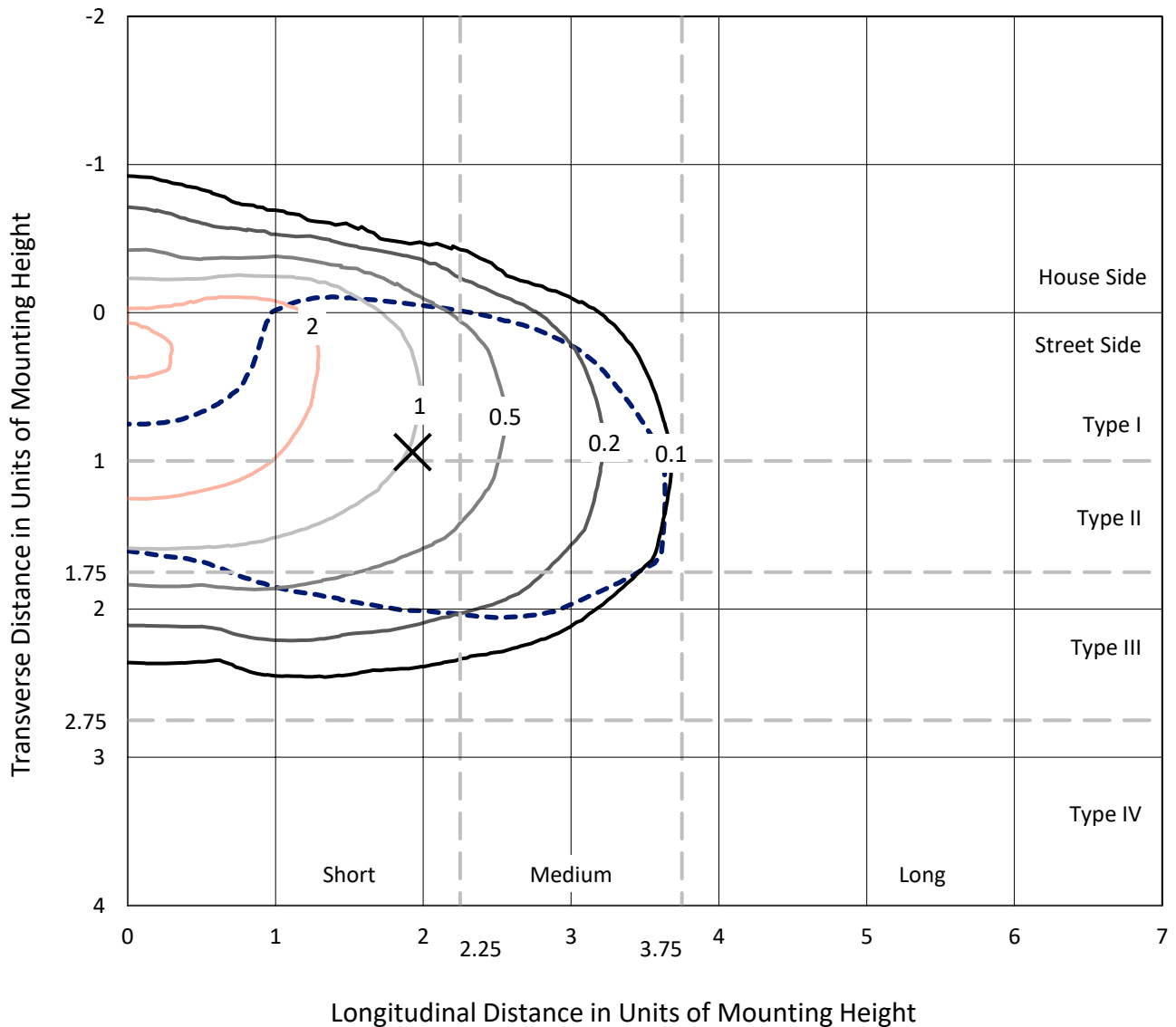
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

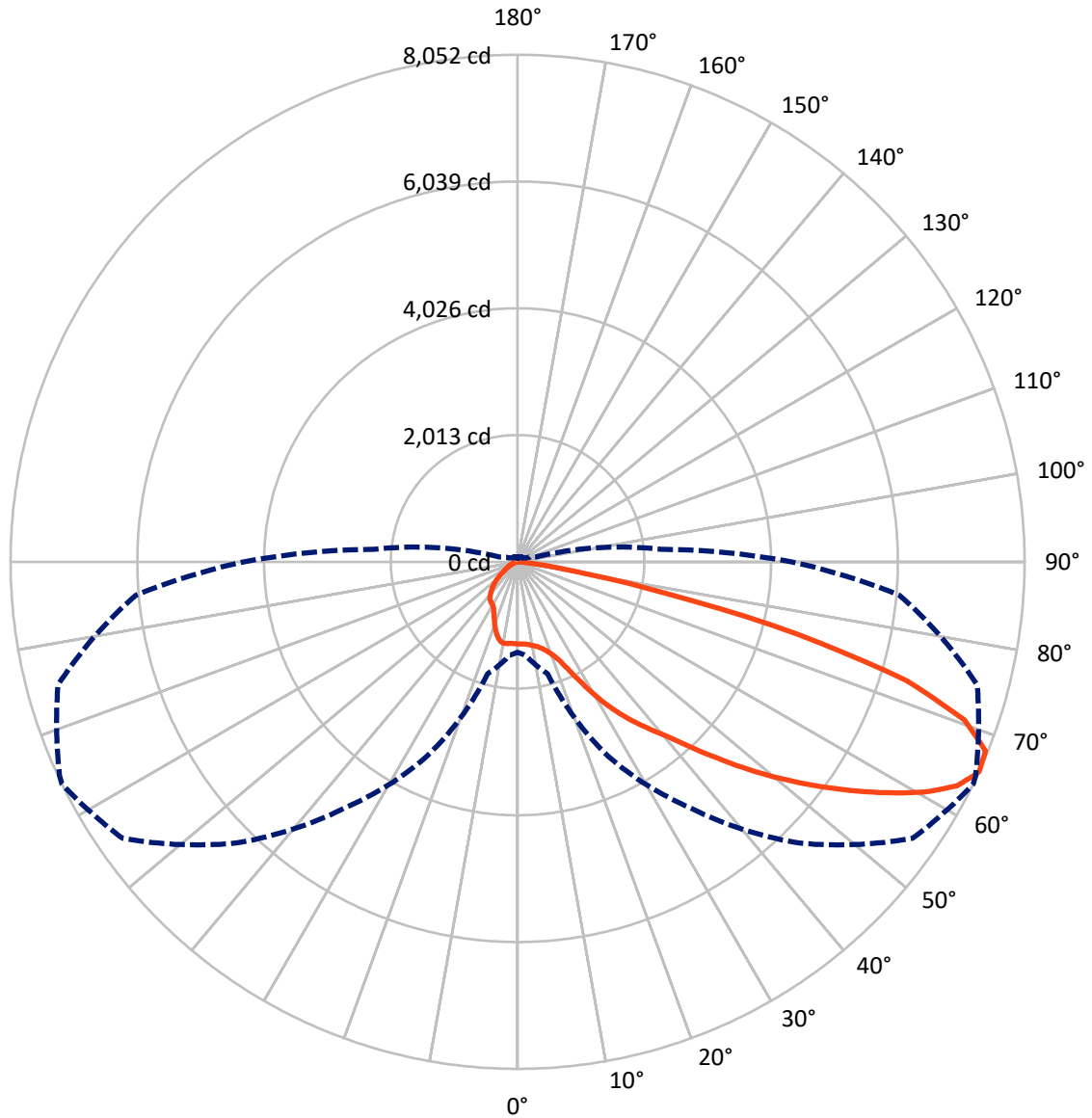
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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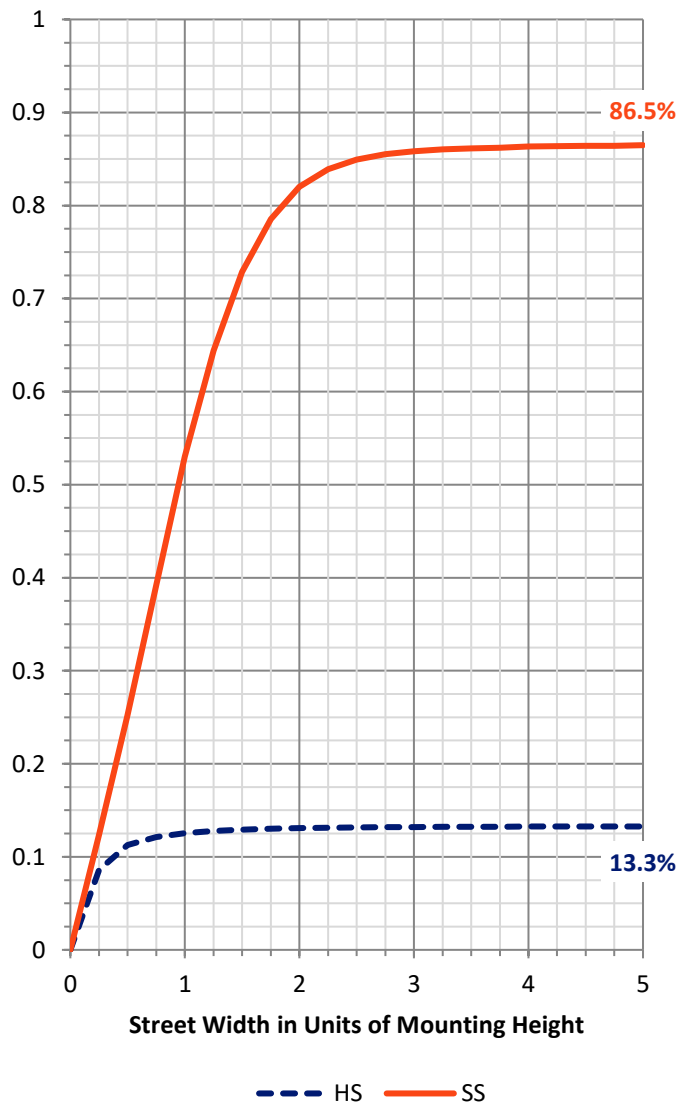
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1500.4	0.0	1500.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	9719.2	0.0	9719.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	11219.6	0.0	11219.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.4	1.1
10°-20°	326.5	2.9
20°-30°	618.8	5.5
30°-40°	1252.1	11.2
40°-50°	2133.0	19.0
50°-60°	2900.7	25.9
60°-70°	2723.9	24.3
70°-80°	1091.3	9.7
80°-90°	52.9	0.5
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°	11219.6	100.0
0°-180°	11219.6	100.0

Coefficient of Utilization



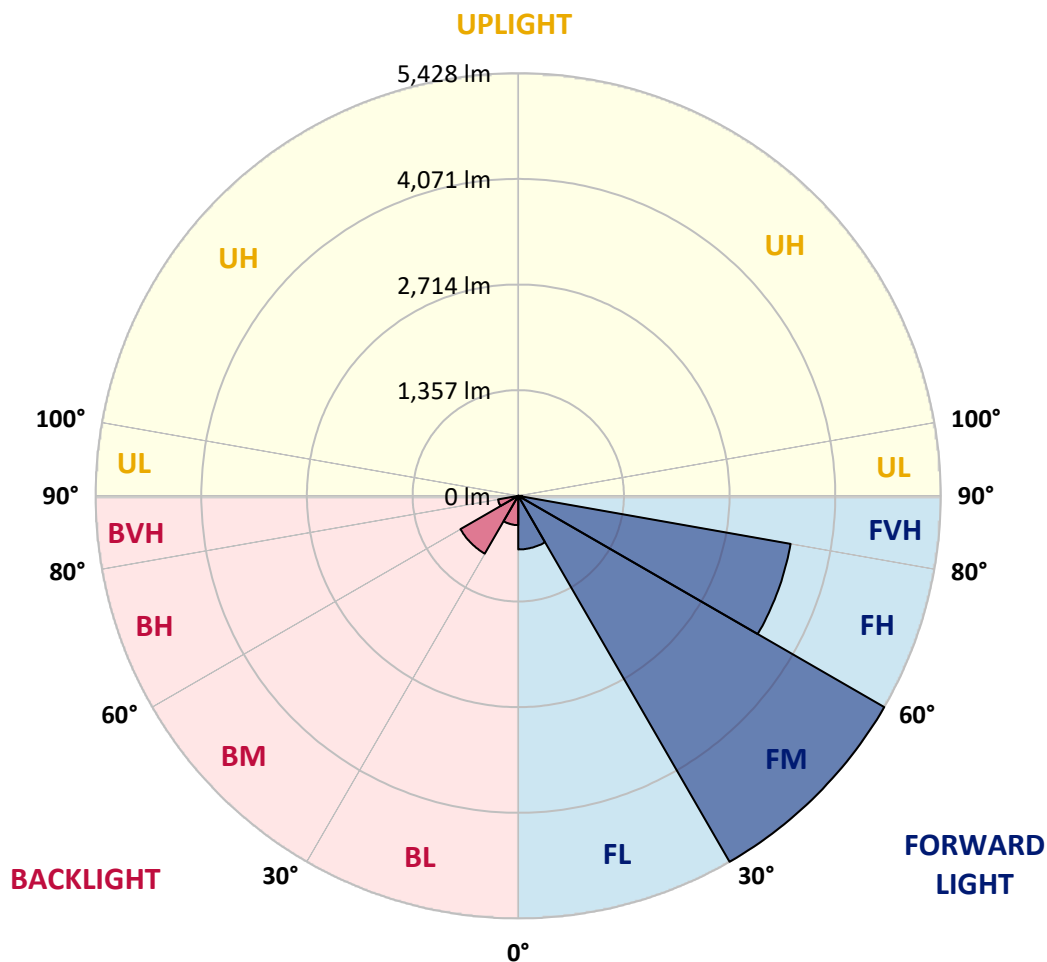
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	689.0	6.1			
FM (30°-60°)	5428.0	48.4			
FH (60°-80°)	3551.9	31.7			G2/5000
FVH (80°-90°)	50.3	0.4			G1/100
BL (0°-30°)	376.7	3.4	B1/500		
BM (30°-60°)	857.8	7.6	B1/1000		
BH (60°-80°)	263.3	2.3	B1/500		G1/500
BVH (80°-90°)	2.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1304.9	1304.9	1304.9	1304.9	1304.9	1304.9	1304.9	1304.9	1304.9	1304.9	1304.9
2.5°	1300.4	1309.4	1307.2	1304.9	1304.2	1305.7	1306.5	1305.7	1305.7	1305.7	1306.5
5°	1275.6	1283.2	1283.2	1288.4	1295.9	1304.9	1311.7	1313.2	1314.8	1317.0	1316.2
7.5°	1228.3	1234.3	1238.8	1256.0	1274.9	1299.0	1319.3	1329.7	1331.3	1339.6	1342.5
10°	1195.9	1203.5	1210.9	1229.0	1256.0	1292.2	1326.8	1352.4	1356.1	1375.7	1384.7
12.5°	1194.4	1201.9	1211.7	1231.2	1262.8	1301.2	1343.4	1380.2	1386.9	1415.5	1434.3
15°	1210.2	1219.2	1228.3	1252.3	1286.2	1332.8	1377.9	1423.8	1430.6	1471.2	1491.5
17.5°	1242.5	1254.6	1261.4	1285.5	1321.5	1373.4	1432.8	1485.4	1491.5	1538.8	1564.5
20°	1306.5	1320.7	1323.0	1342.5	1377.9	1433.6	1504.3	1569.7	1577.3	1631.4	1660.0
22.5°	1438.8	1459.2	1441.1	1450.9	1482.5	1538.1	1614.9	1697.6	1708.1	1769.8	1795.4
25°	1672.0	1700.6	1653.9	1637.4	1651.0	1708.9	1805.1	1909.7	1921.7	1971.4	1984.1
27.5°	2130.1	2093.3	2022.5	1953.3	1912.6	1945.8	2054.1	2183.5	2198.5	2246.6	2231.6
30°	2633.2	2600.9	2505.4	2352.0	2255.6	2250.4	2350.4	2494.8	2512.2	2558.0	2512.2
32.5°	3137.2	3106.4	3002.5	2813.7	2646.8	2564.0	2633.2	2793.4	2802.5	2831.8	2764.1
35°	3632.8	3601.2	3497.4	3304.2	3098.8	2910.8	2897.3	3077.8	3080.7	3111.6	3010.8
37.5°	4131.5	4105.2	3994.6	3805.1	3602.8	3343.2	3217.7	3347.0	3350.8	3380.9	3276.3
40°	4487.2	4498.5	4422.6	4275.9	4102.2	3818.6	3577.1	3633.6	3611.0	3661.4	3599.0
42.5°	4792.6	4815.2	4749.0	4675.3	4574.5	4324.8	4022.4	4012.7	3976.6	4003.6	3939.0
45°	5056.6	5075.4	5016.0	4998.7	4996.5	4821.2	4509.1	4450.4	4400.0	4394.8	4317.3
47.5°	5153.7	5189.8	5215.3	5273.2	5386.1	5312.4	5012.2	4921.2	4864.9	4823.4	4700.9
50°	5190.5	5228.8	5316.2	5484.6	5751.6	5783.2	5513.2	5410.9	5341.7	5266.4	5085.9
52.5°	5140.9	5209.4	5326.6	5610.2	5997.6	6160.8	5993.8	5904.3	5825.3	5702.7	5435.0
55°	4848.2	4916.7	5156.7	5608.7	6120.2	6425.5	6448.1	6408.2	6319.4	6126.2	5717.0
57.5°	4231.5	4333.1	4713.0	5417.6	6117.9	6653.4	6893.3	6921.9	6822.6	6545.9	5938.8
60°	3377.1	3514.7	3978.0	4994.2	5929.1	6776.8	7283.8	7426.6	7321.4	6959.5	6118.6
62.5°	2356.5	2515.9	2954.4	4330.8	5497.4	6688.0	7568.8	7832.7	7753.1	7329.6	6187.8
65°	1437.4	1488.5	1842.0	3407.9	4763.3	6316.5	7656.7	8052.4	8026.1	7556.0	6085.5
67.5°	957.5	1000.3	1101.9	2336.9	3697.5	5574.2	7446.2	8014.1	8021.5	7519.1	5711.0
70°	576.9	613.8	680.0	1359.1	2396.3	4412.0	6794.1	7525.1	7568.8	7026.5	5001.0
72.5°	237.7	262.5	322.7	616.0	1241.1	2800.2	5410.2	6460.9	6562.5	5908.1	3838.2
75°	134.6	147.4	189.5	309.1	538.5	1304.9	3277.0	4586.6	4736.2	4072.1	2309.0
77.5°	89.5	95.5	122.6	200.1	303.1	445.3	1400.5	2389.6	2675.4	2224.0	999.6
80°	60.2	65.4	84.3	133.9	197.1	191.1	446.0	885.3	1089.1	764.1	243.6
82.5°	40.6	41.4	60.2	88.0	124.8	92.6	131.6	275.3	345.9	221.1	92.6
85°	23.3	22.5	44.4	51.1	55.7	38.3	39.9	82.7	108.3	93.3	52.7
87.5°	3.0	4.5	17.3	13.5	7.5	8.3	8.3	14.2	21.0	22.5	11.3
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°	1304.9	1304.9	1304.9	1304.9	1304.9	1304.9	1304.9	1304.9	1304.9	1304.9	1304.9
2.5°	1306.5	1305.7	1303.5	1301.2	1295.9	1292.9	1294.5	1292.9	1292.2	1292.9	1295.9
5°	1316.2	1313.9	1308.0	1300.4	1290.0	1277.1	1268.8	1256.9	1245.6	1238.8	1240.2
7.5°	1342.5	1340.3	1332.1	1311.0	1277.1	1223.7	1174.9	1132.0	1099.6	1080.9	1081.6
10°	1384.7	1380.9	1368.2	1321.5	1232.8	1116.2	1019.2	938.7	886.0	861.2	859.0
12.5°	1434.3	1429.8	1407.2	1311.7	1148.5	966.5	832.6	743.1	694.2	672.4	670.1
15°	1493.0	1487.0	1442.6	1265.1	1025.9	801.0	678.4	611.5	579.9	560.4	561.1
17.5°	1566.0	1555.4	1468.9	1195.1	892.8	674.7	583.6	533.3	505.4	486.7	485.1
20°	1660.7	1643.4	1489.9	1111.6	770.2	594.9	519.8	477.6	456.5	440.0	437.0
22.5°	1793.1	1768.3	1515.6	1021.4	683.7	540.1	472.3	441.5	424.2	405.4	402.4
25°	1957.0	1927.7	1547.1	937.9	624.2	492.6	437.8	412.2	391.9	370.0	367.8
27.5°	2186.4	2133.8	1584.8	869.5	573.2	452.0	406.1	377.6	354.2	336.2	332.4
30°	2442.2	2355.7	1617.9	828.1	526.5	414.4	364.8	336.2	314.4	301.7	299.4
32.5°	2684.4	2567.0	1639.7	810.1	484.4	371.6	319.7	288.8	272.2	268.5	270.8
35°	2913.0	2758.1	1637.4	792.7	446.8	328.7	275.3	243.6	230.9	233.2	233.2
37.5°	3176.3	2961.9	1621.7	765.7	415.9	289.6	236.9	209.1	197.8	198.5	201.6
40°	3482.4	3197.4	1611.8	714.5	382.1	253.5	205.3	182.8	174.5	171.5	170.8
42.5°	3808.8	3425.2	1613.4	656.6	340.0	221.1	183.5	164.7	157.2	155.0	154.2
45°	4136.8	3642.6	1615.6	596.4	295.6	196.3	167.7	151.9	147.4	144.4	144.4
47.5°	4445.1	3827.7	1573.5	531.8	251.9	177.5	155.0	144.4	140.6	136.9	136.9
50°	4732.4	3951.0	1471.9	456.5	217.4	162.5	145.1	137.7	133.9	130.1	130.1
52.5°	4955.9	3970.5	1304.2	379.0	193.3	151.2	139.2	132.3	127.8	124.1	123.3
55°	5055.1	3848.0	1065.8	306.9	174.5	141.4	133.1	126.4	121.1	117.4	116.5
57.5°	5029.6	3590.0	831.1	246.7	156.4	131.6	125.6	121.1	115.1	109.1	108.3
60°	4903.9	3244.7	626.6	205.3	139.9	121.1	117.4	113.6	105.3	96.2	94.8
62.5°	4686.6	2810.8	446.8	169.9	121.9	109.1	107.5	104.6	92.6	76.0	74.4
65°	4354.1	2283.5	300.8	141.4	104.6	95.5	96.2	91.0	75.2	56.4	54.9
67.5°	3868.2	1669.7	192.6	115.8	87.2	79.7	80.5	77.5	64.0	48.2	45.9
70°	3249.2	1105.7	125.6	88.0	69.9	61.7	66.2	66.9	54.1	39.2	37.6
72.5°	2382.0	652.8	88.0	65.4	51.1	42.8	54.1	55.7	43.7	29.3	27.9
75°	1357.6	309.9	66.2	47.4	31.6	30.1	42.1	42.1	30.1	19.6	18.0
77.5°	570.1	129.4	46.6	30.9	18.0	17.3	28.6	26.3	15.1	9.0	9.0
80°	164.7	57.9	24.8	15.1	7.5	6.8	11.3	8.3	3.8	1.5	1.5
82.5°	64.7	25.5	9.7	6.0	3.0	3.0	1.5	0.0	0.0	0.0	0.0
85°	38.3	10.6	4.5	2.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.7	2.3	1.5	0.0	0.0	0.0	0.0	0.0	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)