

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: P963429

Luminaire Tested: **NAV-SB3A-722-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P963429  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB3A-722-U-T3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

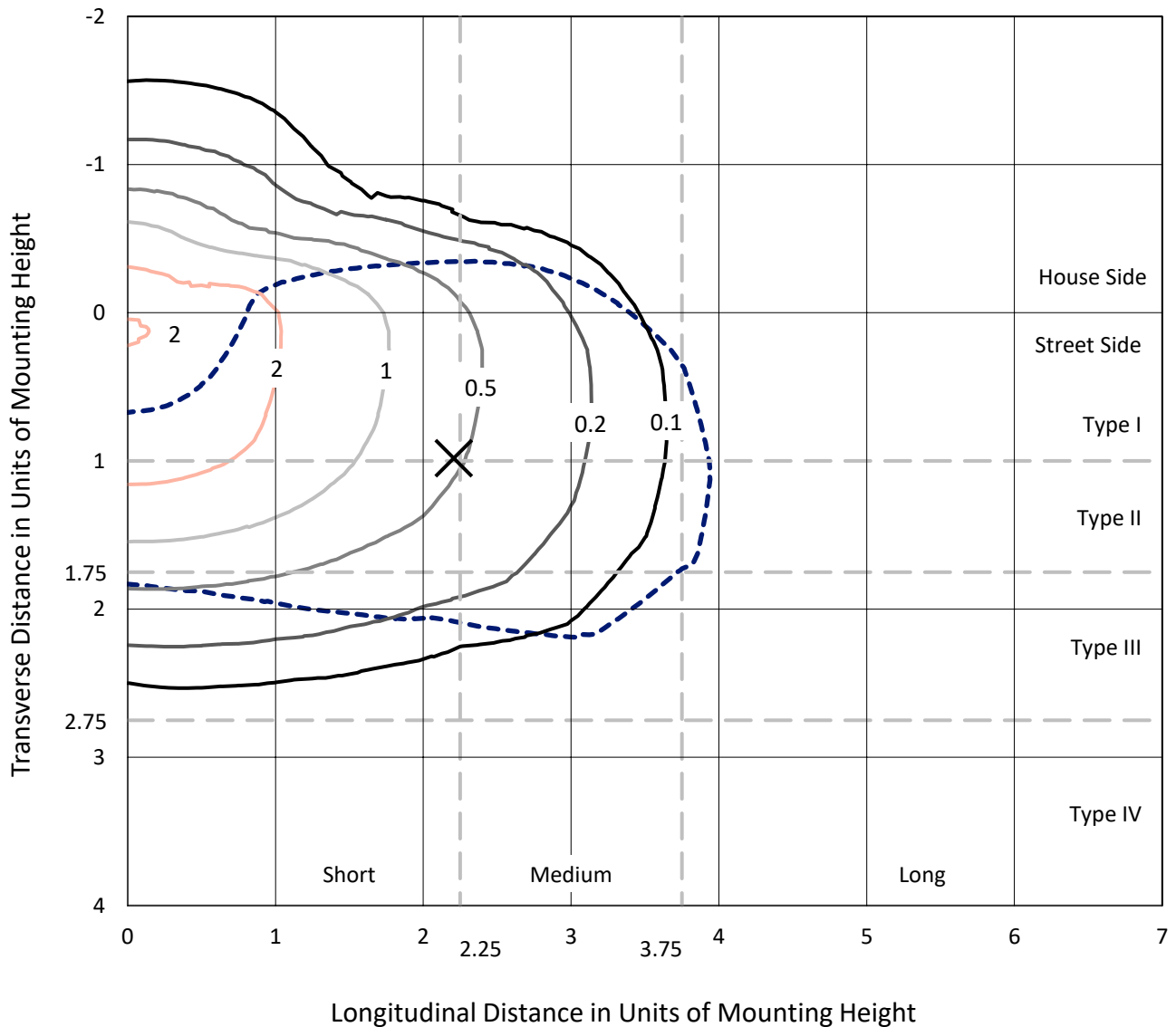
Lumens per Lamp: N/A  
Luminaire Lumens: 11404.1 lumens  
Efficiency: N/A  
Efficacy: 134.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

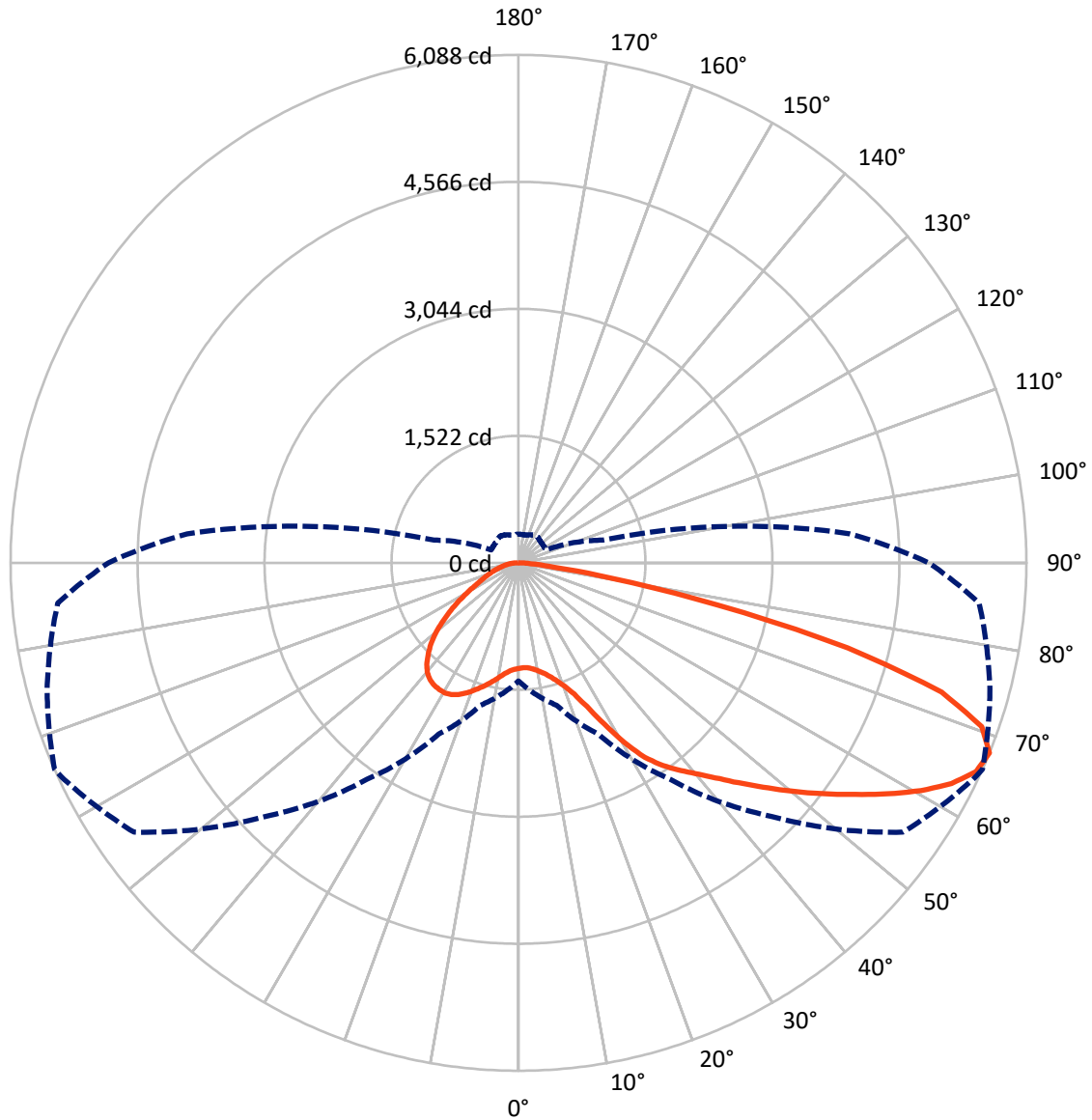
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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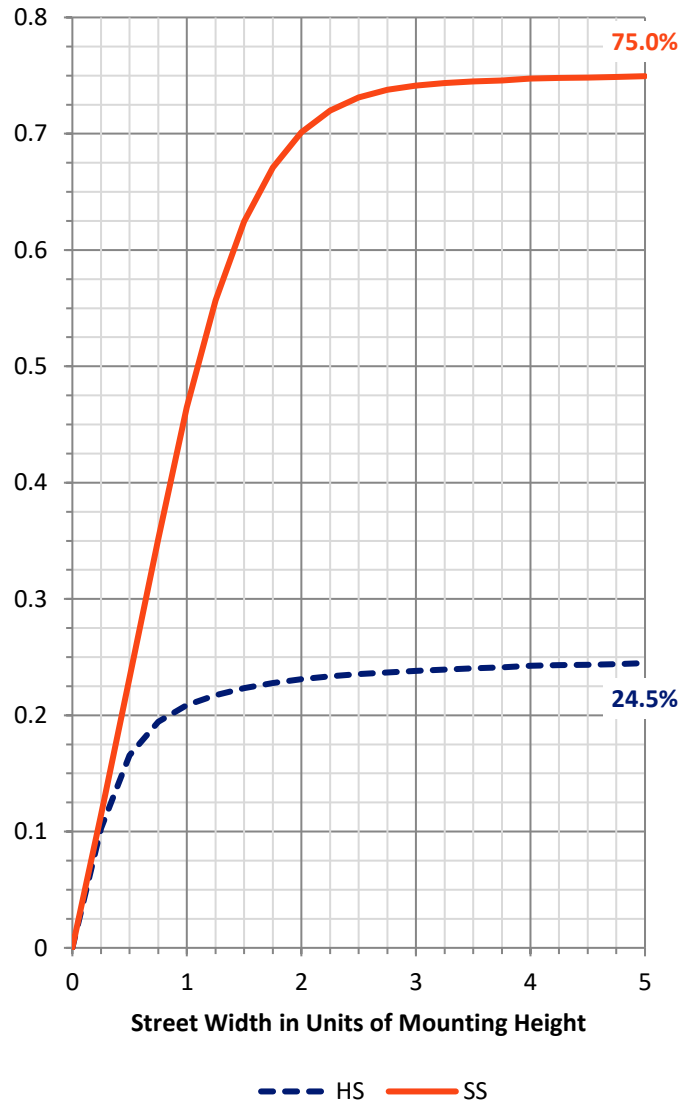
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2835.6	0.0	2835.6
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	8568.5	0.0	8568.5
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	11404.1	0.0	11404.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.4	1.1
10°-20°	414.3	3.6
20°-30°	798.6	7.0
30°-40°	1400.2	12.3
40°-50°	2081.7	18.3
50°-60°	2638.7	23.1
60°-70°	2581.9	22.6
70°-80°	1231.6	10.8
80°-90°	131.6	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°	11404.1	100.0
0°-180°	11404.1	100.0

**Coefficient of Utilization**



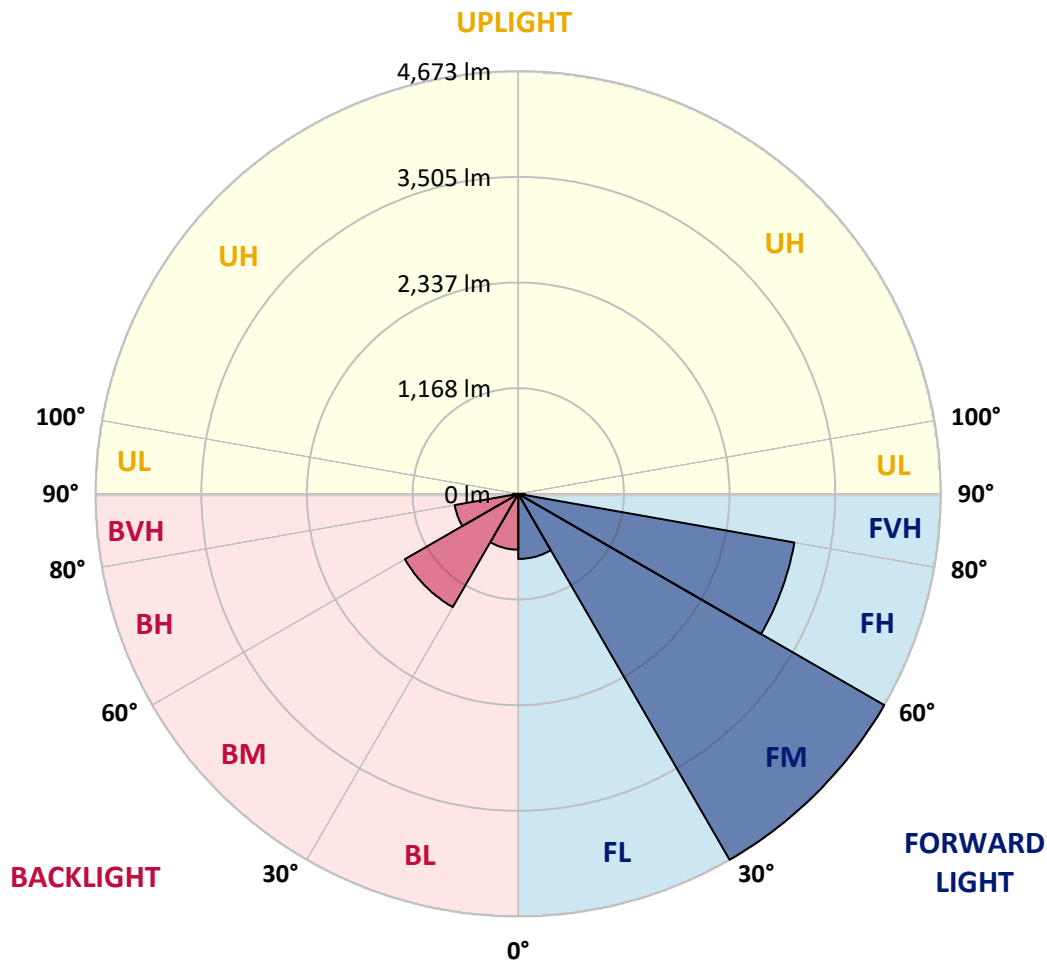
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	720.6	6.3			
FM (30°-60°)	4673.3	41.0			
FH (60°-80°)	3100.0	27.2			G2/5000
FVH (80°-90°)	74.6	0.7			G1/100
BL (0°-30°)	617.7	5.4	B2/1000		
BM (30°-60°)	1447.3	12.7	B2/2500		
BH (60°-80°)	713.6	6.3	B2/1000		G2/1000
BVH (80°-90°)	57.0	0.5			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 III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1264.8	1264.8	1264.8	1264.8	1264.8	1264.8	1264.8	1264.8	1264.8	1264.8	1264.8
2.5°	1251.7	1258.9	1257.1	1254.1	1253.5	1254.7	1256.4	1258.3	1257.7	1260.6	1265.5
5°	1248.1	1255.3	1254.7	1254.7	1257.1	1261.9	1264.8	1267.8	1264.8	1268.4	1275.1
7.5°	1250.5	1255.9	1258.3	1260.6	1266.7	1275.6	1282.9	1289.4	1285.9	1290.1	1298.5
10°	1281.0	1285.2	1287.6	1287.6	1291.8	1302.1	1309.2	1321.2	1318.1	1324.8	1335.6
12.5°	1336.8	1341.0	1341.0	1338.5	1341.5	1348.2	1350.5	1363.8	1358.3	1369.1	1380.0
15°	1405.1	1413.5	1406.9	1402.7	1403.8	1410.5	1409.9	1420.0	1414.7	1423.6	1433.3
17.5°	1480.6	1491.4	1480.6	1480.0	1477.5	1484.8	1485.3	1494.3	1484.8	1491.4	1497.9
20°	1569.9	1584.9	1575.8	1578.8	1573.5	1576.4	1579.4	1592.6	1577.7	1582.4	1580.7
22.5°	1695.7	1713.7	1704.1	1715.4	1711.9	1709.5	1708.9	1732.2	1708.9	1710.6	1693.3
25°	1879.0	1900.6	1883.8	1899.4	1899.4	1907.2	1916.1	1946.2	1907.2	1895.8	1850.8
27.5°	2149.8	2171.5	2138.5	2148.1	2145.0	2164.3	2154.7	2229.0	2187.0	2168.4	2078.0
30°	2475.8	2514.1	2451.8	2449.4	2446.5	2477.0	2490.8	2540.0	2497.4	2478.9	2369.8
32.5°	2828.2	2868.3	2793.9	2772.4	2761.0	2779.6	2768.2	2807.8	2778.4	2749.7	2614.8
35°	3200.9	3240.3	3169.7	3127.7	3082.2	3043.2	3002.5	3012.7	2985.1	2941.3	2801.7
37.5°	3553.2	3625.6	3550.7	3505.8	3422.0	3345.8	3232.0	3184.7	3158.8	3118.8	2977.9
40°	3912.0	3953.4	3896.4	3858.1	3767.1	3647.8	3465.6	3365.6	3330.8	3291.9	3172.7
42.5°	4176.3	4215.8	4185.3	4158.9	4087.6	3949.2	3713.7	3588.5	3538.2	3494.4	3393.2
45°	4386.0	4415.4	4396.2	4405.8	4375.2	4241.0	3970.7	3827.6	3775.5	3722.1	3642.4
47.5°	4470.5	4501.7	4532.2	4589.1	4641.3	4542.4	4247.0	4086.4	4031.3	3976.8	3898.3
50°	4460.9	4492.7	4581.3	4702.4	4864.1	4831.2	4538.2	4362.0	4311.2	4248.8	4176.3
52.5°	4384.2	4420.1	4534.0	4735.3	4993.0	5047.5	4834.8	4646.6	4598.7	4524.5	4451.9
55°	4182.9	4204.4	4375.2	4660.5	5023.5	5198.5	5125.4	4949.8	4901.9	4798.2	4719.1
57.5°	3809.6	3840.8	4089.4	4458.5	4946.9	5301.0	5380.6	5268.6	5222.5	5073.2	4990.6
60°	3322.4	3372.1	3656.8	4119.4	4751.5	5300.4	5612.5	5581.9	5543.6	5344.1	5257.8
62.5°	2771.2	2828.7	3102.6	3640.0	4410.0	5150.0	5757.5	5844.4	5824.7	5593.9	5483.7
65°	2128.3	2167.9	2440.4	3019.9	3878.5	4827.0	5774.3	6023.5	6027.2	5783.9	5601.7
67.5°	1417.1	1530.9	1767.6	2266.1	3166.6	4299.2	5626.9	6052.9	6087.7	5849.2	5542.4
70°	691.5	841.2	1073.2	1472.8	2266.1	3489.6	5241.6	5812.1	5889.3	5658.6	5188.9
72.5°	287.0	335.6	462.0	726.8	1300.8	2354.7	4467.5	5158.9	5302.1	5014.0	4362.6
75°	193.5	209.7	264.2	372.7	592.6	1161.2	3221.8	3846.7	4077.4	3786.9	3095.4
77.5°	149.2	159.4	192.3	260.7	352.3	439.2	1724.5	2318.2	2437.4	2256.5	1610.6
80°	117.5	125.3	143.8	189.9	249.9	234.9	587.8	1050.3	1119.3	938.9	517.7
82.5°	101.9	104.9	103.0	128.8	165.9	137.2	192.9	387.7	427.8	310.4	168.9
85°	73.7	82.1	85.7	79.6	88.0	69.5	79.1	137.2	151.0	134.8	95.2
87.5°	29.9	44.4	54.5	51.6	32.4	19.8	24.6	40.2	46.1	50.3	31.2
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°	1264.8	1264.8	1264.8	1264.8	1264.8	1264.8	1264.8	1264.8	1264.8	1264.8	1264.8
2.5°	1266.1	1270.3	1273.3	1276.8	1279.3	1282.9	1290.1	1294.3	1294.8	1297.9	1297.2
5°	1277.5	1283.4	1290.1	1299.6	1310.4	1319.4	1333.2	1342.7	1346.3	1349.3	1348.8
7.5°	1302.1	1310.4	1322.4	1339.2	1354.7	1366.7	1383.5	1394.9	1406.3	1410.5	1411.1
10°	1338.5	1350.5	1368.0	1390.7	1407.4	1423.0	1440.4	1450.1	1461.4	1466.2	1468.6
12.5°	1384.1	1396.7	1419.4	1451.2	1466.8	1477.5	1483.6	1481.1	1483.6	1487.8	1488.9
15°	1436.2	1450.1	1475.8	1509.9	1520.7	1511.2	1497.9	1485.9	1484.2	1485.3	1489.5
17.5°	1497.9	1508.2	1538.1	1566.8	1559.0	1519.6	1490.8	1471.6	1462.0	1459.0	1463.2
20°	1584.2	1584.2	1608.8	1626.8	1574.6	1507.6	1462.6	1431.4	1411.6	1403.3	1401.5
22.5°	1689.1	1679.5	1695.0	1682.5	1571.6	1473.9	1411.6	1357.7	1327.8	1315.8	1314.0
25°	1822.1	1810.8	1806.6	1728.7	1550.1	1420.6	1319.4	1254.1	1227.7	1221.1	1222.3
27.5°	2022.8	1994.0	1939.5	1753.8	1510.5	1336.8	1211.6	1151.1	1136.0	1136.6	1138.5
30°	2290.1	2232.6	2098.9	1758.0	1445.9	1218.1	1101.3	1058.1	1050.9	1054.0	1064.2
32.5°	2537.5	2483.0	2261.9	1738.8	1346.3	1101.9	1002.4	973.6	962.9	966.5	971.3
35°	2731.6	2716.7	2413.0	1711.9	1224.2	992.8	913.8	889.2	868.2	863.5	867.0
37.5°	2915.0	2909.1	2526.1	1674.1	1103.1	915.5	842.4	810.1	779.5	762.8	763.3
40°	3116.3	3110.4	2600.4	1616.0	995.8	848.4	778.4	735.7	698.0	667.5	670.5
42.5°	3342.8	3307.5	2635.8	1532.7	904.8	791.5	726.2	668.7	619.0	590.8	592.6
45°	3590.3	3510.6	2635.2	1426.7	828.1	739.4	670.5	589.0	542.8	516.5	515.3
47.5°	3852.8	3704.8	2602.9	1309.2	753.8	681.8	584.2	521.9	491.3	475.2	471.6
50°	4123.6	3886.3	2547.7	1174.4	677.6	616.5	530.2	487.7	464.3	449.4	444.0
52.5°	4378.2	4051.1	2481.2	1021.6	600.3	553.1	506.4	473.3	448.7	432.0	424.9
55°	4614.9	4193.1	2387.1	865.2	537.5	510.6	495.0	467.4	439.2	419.4	411.6
57.5°	4825.2	4285.3	2224.8	718.4	492.5	481.1	483.0	457.2	424.9	408.1	397.3
60°	5000.2	4353.1	1984.5	582.4	456.0	452.3	464.3	438.0	400.3	381.1	372.7
62.5°	5105.0	4351.8	1689.7	476.9	424.9	426.0	439.8	414.0	375.7	357.7	352.3
65°	5096.0	4245.2	1366.1	408.1	394.8	396.1	414.0	387.7	355.3	344.5	343.9
67.5°	4915.7	3985.2	1048.0	363.1	361.9	367.3	388.3	369.7	342.8	341.5	343.4
70°	4427.4	3445.3	755.0	327.2	327.8	335.6	363.1	358.3	336.1	338.6	337.9
72.5°	3550.2	2626.8	506.9	289.4	290.0	302.6	339.2	349.3	329.5	361.3	366.1
75°	2364.4	1638.2	326.0	249.3	249.9	266.0	318.2	331.9	311.6	360.1	363.1
77.5°	1136.0	736.4	236.1	209.7	209.7	224.7	275.0	297.1	265.5	279.8	256.5
80°	392.5	276.9	185.7	168.9	165.3	175.6	231.9	257.7	228.9	210.9	197.7
82.5°	154.6	143.8	149.2	131.2	119.2	125.9	180.4	212.7	168.4	152.2	151.6
85°	88.7	93.5	105.5	86.9	68.9	77.3	132.4	152.8	127.0	112.0	114.5
87.5°	24.0	33.0	48.5	44.9	31.2	33.0	62.9	84.5	73.1	56.3	58.1
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)