

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: P963428

Luminaire Tested: **NAV-SB3A-722-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-722-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11699.4 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

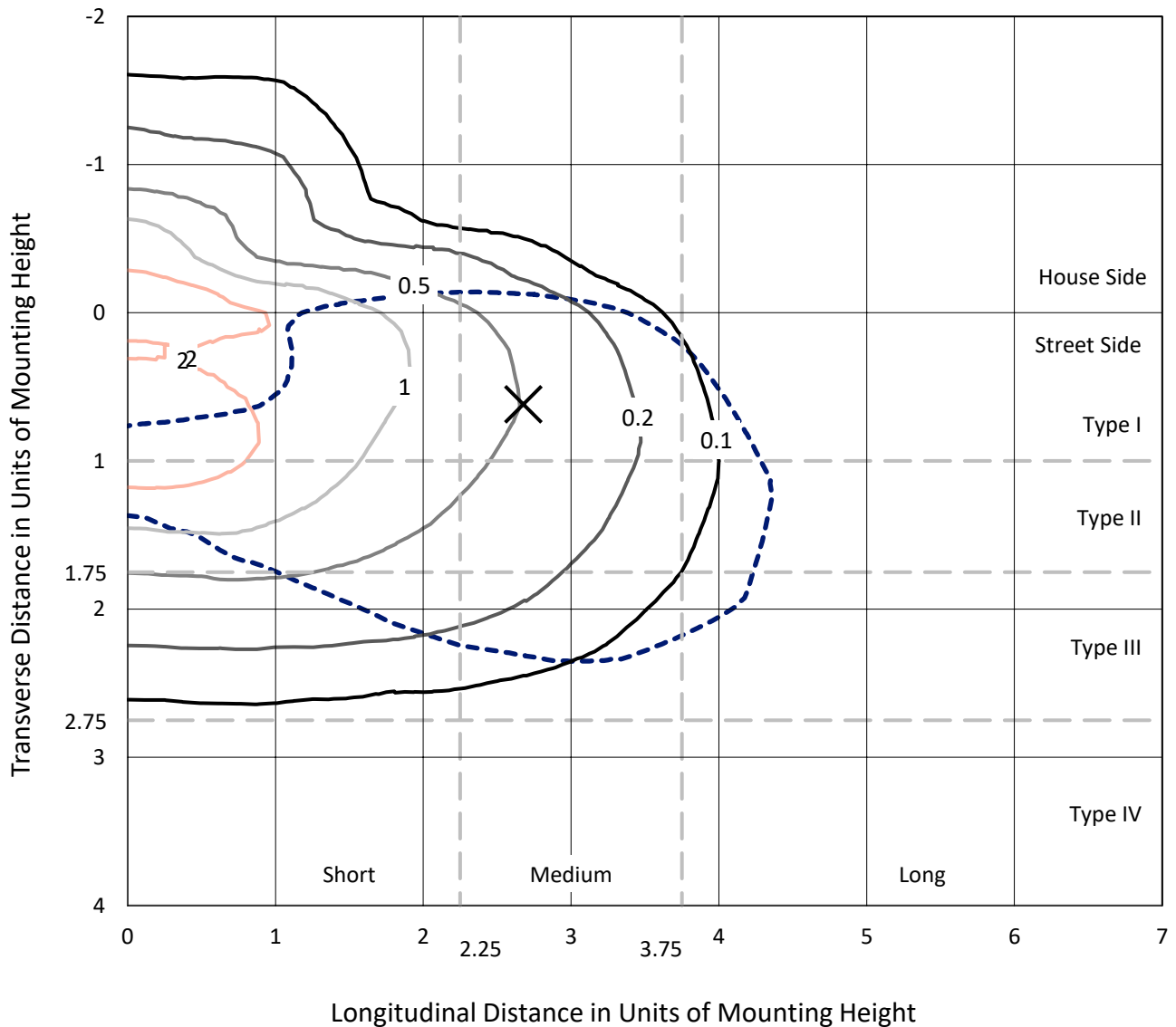
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

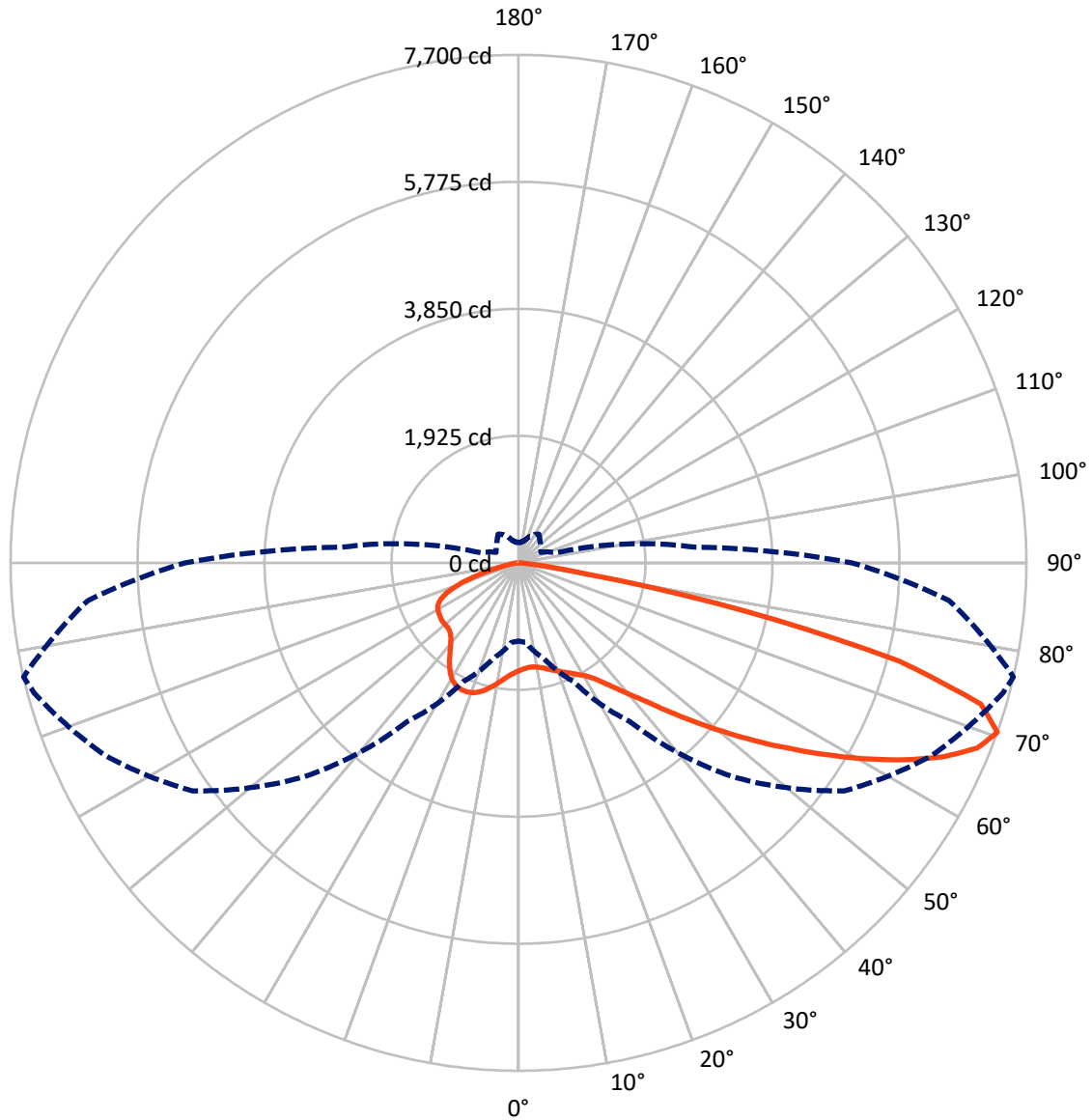
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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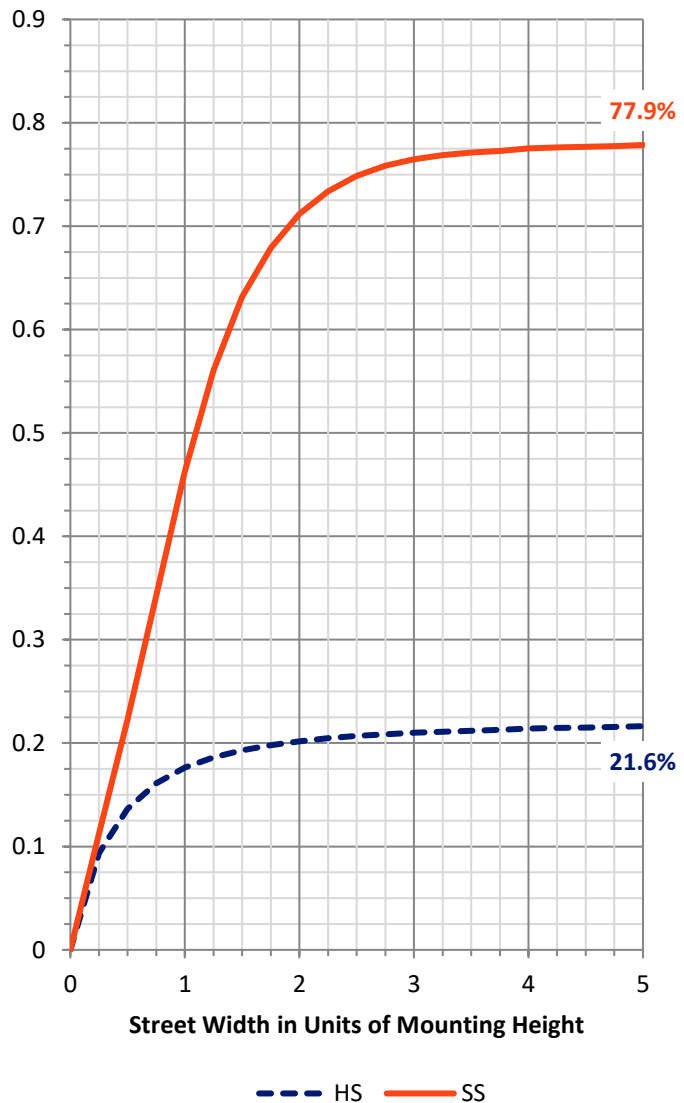
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2562.0	0.0	2562.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	9137.4	0.0	9137.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	11699.4	0.0	11699.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.7	1.3
10°-20°	449.3	3.8
20°-30°	768.3	6.6
30°-40°	1235.5	10.6
40°-50°	1929.0	16.5
50°-60°	2576.6	22.0
60°-70°	2746.3	23.5
70°-80°	1690.6	14.5
80°-90°	148.1	1.3
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°	11699.4	100.0
0°-180°	11699.4	100.0

Coefficient of Utilization

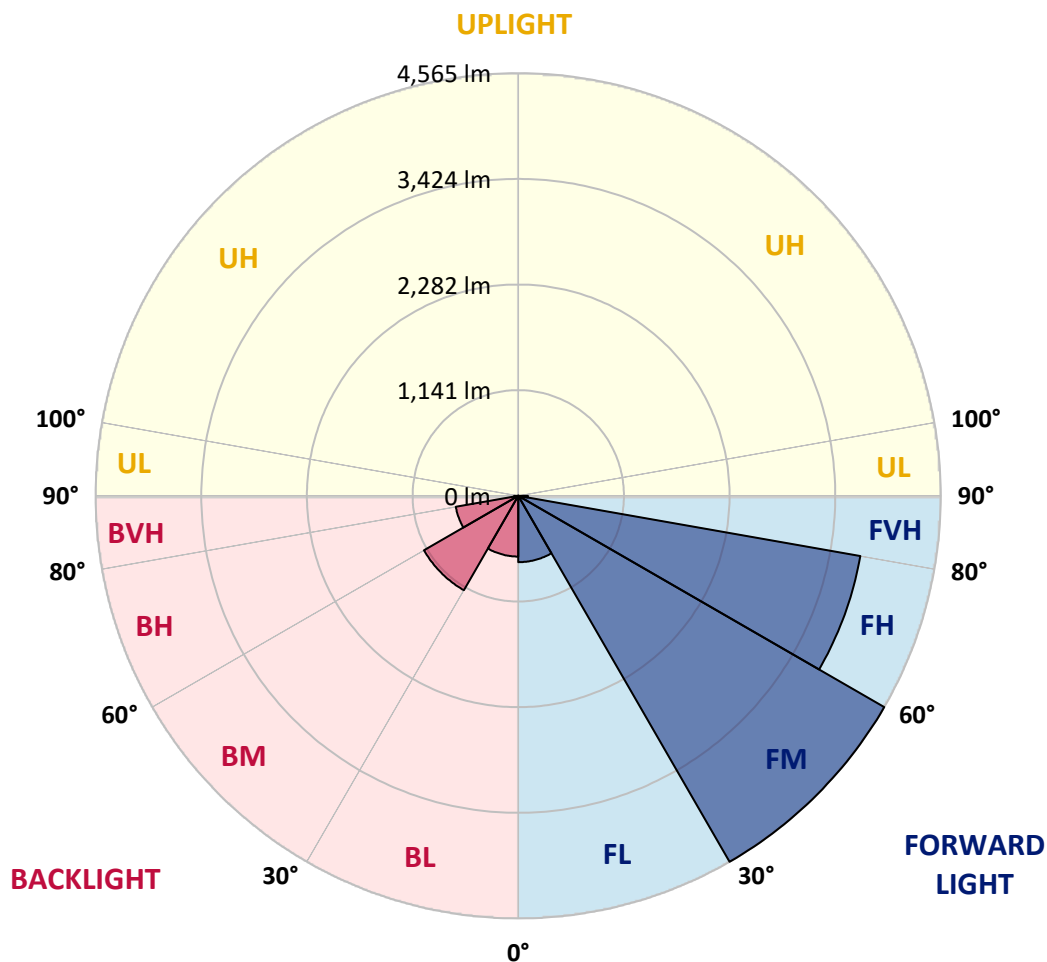


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	716.8	6.1			
FM (30°-60°)	4564.8	39.0			
FH (60°-80°)	3752.2	32.1			G2/5000
FVH (80°-90°)	103.6	0.9			G2/225
BL (0°-30°)	656.5	5.6	B2/1000		
BM (30°-60°)	1176.3	10.1	B2/2500		
BH (60°-80°)	684.7	5.9	B2/1000		G2/1000
BVH (80°-90°)	44.6	0.4			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2
2.5°	1504.5	1504.0	1511.8	1514.1	1528.5	1538.7	1557.9	1578.2	1604.6	1607.6	1623.8
5°	1417.7	1417.7	1426.7	1436.2	1454.8	1475.2	1504.5	1539.9	1585.5	1592.6	1632.7
7.5°	1344.0	1348.8	1356.6	1375.1	1396.7	1426.1	1471.0	1521.3	1581.3	1592.6	1657.3
10°	1284.6	1290.1	1299.6	1314.6	1347.0	1387.7	1446.4	1511.2	1591.4	1609.4	1693.3
12.5°	1266.1	1271.4	1276.8	1288.2	1318.1	1366.1	1436.2	1516.0	1616.0	1634.0	1742.4
15°	1309.2	1315.8	1311.6	1308.6	1324.2	1368.0	1441.0	1533.3	1646.6	1672.3	1803.0
17.5°	1408.7	1411.1	1401.5	1373.3	1370.9	1394.3	1463.8	1557.3	1684.9	1713.1	1864.1
20°	1569.3	1565.1	1545.3	1489.5	1457.8	1453.0	1502.8	1593.3	1724.5	1754.4	1930.0
22.5°	1787.4	1782.6	1743.0	1655.0	1584.2	1537.5	1559.0	1640.0	1768.7	1802.4	1994.0
25°	2059.4	2052.8	1994.6	1874.8	1765.2	1649.5	1635.8	1701.7	1823.3	1854.4	2061.2
27.5°	2377.0	2371.5	2308.6	2150.4	1992.3	1803.0	1731.0	1774.2	1880.3	1915.6	2136.7
30°	2718.5	2734.1	2622.6	2452.4	2252.3	2003.1	1859.2	1863.4	1954.0	1985.7	2228.4
32.5°	3119.9	3146.9	3012.7	2797.0	2523.8	2220.6	2021.0	1988.1	2061.2	2087.5	2344.0
35°	3517.8	3548.3	3436.9	3198.4	2883.8	2477.0	2190.0	2131.3	2203.8	2232.6	2497.4
37.5°	3861.7	3902.5	3845.0	3637.6	3269.1	2786.2	2410.5	2299.7	2379.3	2415.3	2703.5
40°	4133.1	4195.4	4191.2	4061.9	3723.3	3161.3	2690.3	2507.6	2597.5	2636.4	2953.3
42.5°	4353.7	4407.6	4454.3	4447.7	4197.3	3587.3	3019.2	2777.7	2846.1	2891.0	3234.4
45°	4505.8	4563.4	4664.1	4772.5	4653.2	4043.2	3396.1	3098.4	3160.7	3228.3	3569.4
47.5°	4641.8	4707.1	4837.8	5009.8	5040.3	4501.1	3809.0	3471.7	3528.6	3598.7	3905.5
50°	4653.8	4710.2	4912.7	5156.6	5315.3	4940.8	4252.4	3890.5	3943.8	4018.7	4265.5
52.5°	4364.4	4453.1	4806.6	5152.4	5441.7	5308.8	4692.8	4326.1	4386.0	4475.9	4638.2
55°	3387.7	3517.8	4495.6	4991.8	5396.8	5546.6	5111.6	4789.2	4866.0	4960.0	5013.4
57.5°	2918.0	2975.0	3568.7	4699.3	5191.9	5608.3	5465.1	5257.2	5380.6	5483.6	5410.0
60°	2622.6	2669.9	3021.1	4244.6	4922.3	5510.7	5738.4	5693.4	5906.7	6029.6	5815.6
62.5°	2306.2	2351.1	2670.5	3544.1	4577.1	5348.2	5910.9	6096.1	6446.0	6580.2	6197.9
65°	1992.3	2030.6	2336.8	2977.9	4138.5	5185.9	6000.1	6444.2	6945.1	7084.1	6515.5
67.5°	1642.4	1674.1	1963.5	2512.4	3605.2	4963.6	6044.5	6718.1	7379.5	7498.7	6672.4
70°	1185.2	1209.7	1508.7	1986.9	2936.0	4581.3	6026.6	6912.2	7604.8	7700.1	6553.8
72.5°	560.3	582.4	933.6	1290.1	2073.8	3837.2	5662.8	6758.1	7375.9	7328.5	5827.6
75°	299.0	318.2	536.3	707.7	1095.3	2630.4	4634.0	5821.6	6193.8	5963.7	4306.9
77.5°	202.5	217.5	331.9	424.9	500.3	1248.7	2978.5	4030.7	3877.9	3498.0	2157.0
80°	160.6	176.2	272.0	287.6	242.1	451.2	1230.7	1865.8	1340.4	1071.9	613.6
82.5°	123.4	140.8	228.9	208.5	131.8	185.1	358.3	590.2	343.4	261.3	148.6
85°	75.5	94.1	179.8	133.0	74.3	84.5	121.7	164.2	104.9	87.4	53.3
87.5°	38.3	53.9	91.1	48.5	33.5	19.8	32.4	32.4	27.6	24.0	13.7
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°	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2
2.5°	1638.2	1650.1	1670.5	1689.7	1704.7	1719.0	1733.4	1741.2	1743.6	1753.2	1758.6
5°	1657.3	1679.5	1719.0	1756.2	1779.6	1794.0	1804.1	1810.2	1811.3	1814.4	1819.1
7.5°	1692.7	1728.0	1783.2	1820.3	1837.7	1836.5	1832.3	1817.3	1811.3	1805.9	1807.2
10°	1742.4	1789.1	1856.9	1882.6	1871.9	1843.1	1805.9	1762.2	1741.8	1722.0	1716.1
12.5°	1804.1	1863.4	1930.0	1928.7	1875.4	1801.7	1715.4	1648.3	1605.8	1575.2	1568.0
15°	1879.0	1947.3	1998.2	1957.5	1840.7	1708.3	1581.9	1494.3	1456.0	1422.5	1418.9
17.5°	1956.3	2029.4	2052.8	1948.5	1753.2	1569.9	1426.7	1357.7	1320.0	1302.1	1307.4
20°	2031.9	2104.3	2085.2	1897.0	1620.2	1412.9	1285.2	1247.5	1239.7	1243.9	1242.1
22.5°	2111.5	2176.2	2091.7	1797.5	1450.6	1252.2	1182.1	1183.4	1200.8	1213.3	1216.4
25°	2193.0	2236.8	2074.4	1653.7	1268.4	1134.3	1116.8	1136.0	1170.2	1194.7	1201.4
27.5°	2271.5	2290.7	2036.6	1475.8	1112.1	1049.8	1052.8	1092.3	1143.8	1178.0	1186.3
30°	2360.2	2338.6	1964.1	1275.6	1003.6	977.2	1002.4	1048.6	1100.1	1130.7	1137.9
32.5°	2460.2	2379.9	1849.1	1090.5	926.9	919.1	960.5	990.5	1013.2	1022.2	1026.9
35°	2584.8	2438.1	1701.7	960.5	858.0	876.6	916.1	901.2	892.2	887.3	892.2
37.5°	2746.6	2516.6	1529.1	876.0	802.3	846.0	862.2	815.5	780.1	762.8	766.9
40°	2941.3	2631.6	1363.1	810.7	766.9	819.7	791.5	735.2	690.2	665.7	667.5
42.5°	3157.7	2752.0	1223.5	761.6	747.2	798.1	739.4	672.3	599.8	592.0	599.8
45°	3384.8	2876.0	1128.2	723.9	737.6	779.5	709.4	601.0	549.4	581.2	598.0
47.5°	3611.9	2989.9	1070.7	695.7	732.8	758.6	683.1	561.4	524.9	571.0	592.6
50°	3864.7	3091.8	1045.0	675.3	727.4	750.2	643.5	551.2	499.1	529.7	552.5
52.5°	4115.8	3170.8	1025.8	654.9	719.7	743.5	624.3	539.3	467.9	469.8	482.4
55°	4366.2	3222.4	1004.8	627.9	702.2	729.2	622.6	526.0	444.5	436.2	442.2
57.5°	4633.4	3251.7	979.1	598.0	672.3	692.7	620.7	515.9	437.4	423.6	425.4
60°	4905.4	3294.9	945.5	561.4	632.1	648.9	616.5	512.3	433.2	409.8	411.6
62.5°	5149.4	3309.8	905.4	526.6	580.6	605.8	607.5	509.3	421.8	381.7	381.7
65°	5309.3	3245.1	835.3	487.2	524.9	561.4	590.2	499.1	401.5	361.3	361.3
67.5°	5302.7	3060.6	725.6	436.2	471.0	512.3	565.0	481.7	376.9	336.1	337.9
70°	5055.9	2696.3	586.6	376.9	411.6	459.6	532.7	456.0	347.5	308.6	312.2
72.5°	4336.3	2110.3	426.0	307.4	342.8	405.1	490.8	424.9	317.5	284.0	282.2
75°	3097.8	1335.6	288.8	236.1	266.6	343.4	438.6	388.3	290.0	285.3	269.1
77.5°	1582.4	638.2	191.2	172.6	185.7	270.8	368.5	347.0	294.2	235.4	209.7
80°	514.7	235.4	120.4	117.5	123.4	180.4	285.3	284.6	222.9	160.0	141.4
82.5°	164.2	101.3	78.5	75.5	72.5	113.3	199.0	225.3	150.4	101.3	100.7
85°	65.3	60.5	46.1	42.5	30.5	53.3	104.2	149.8	112.0	73.1	74.9
87.5°	24.0	24.0	12.6	9.0	6.6	17.9	28.2	44.9	64.1	37.7	37.1
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)