

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: P964476

Luminaire Tested: **NAV-SB3C-722-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-722-U-T2R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19379.7 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

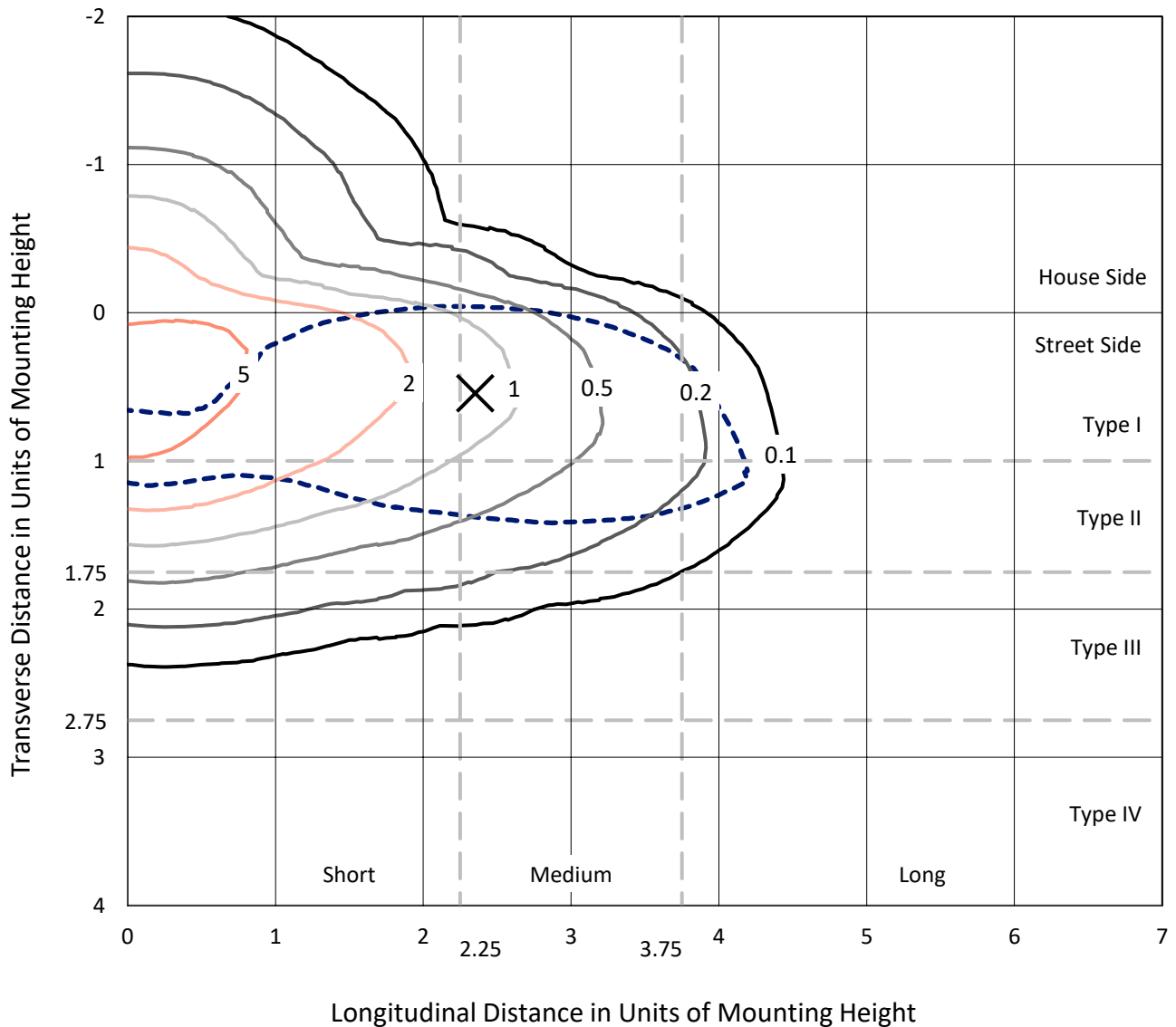
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

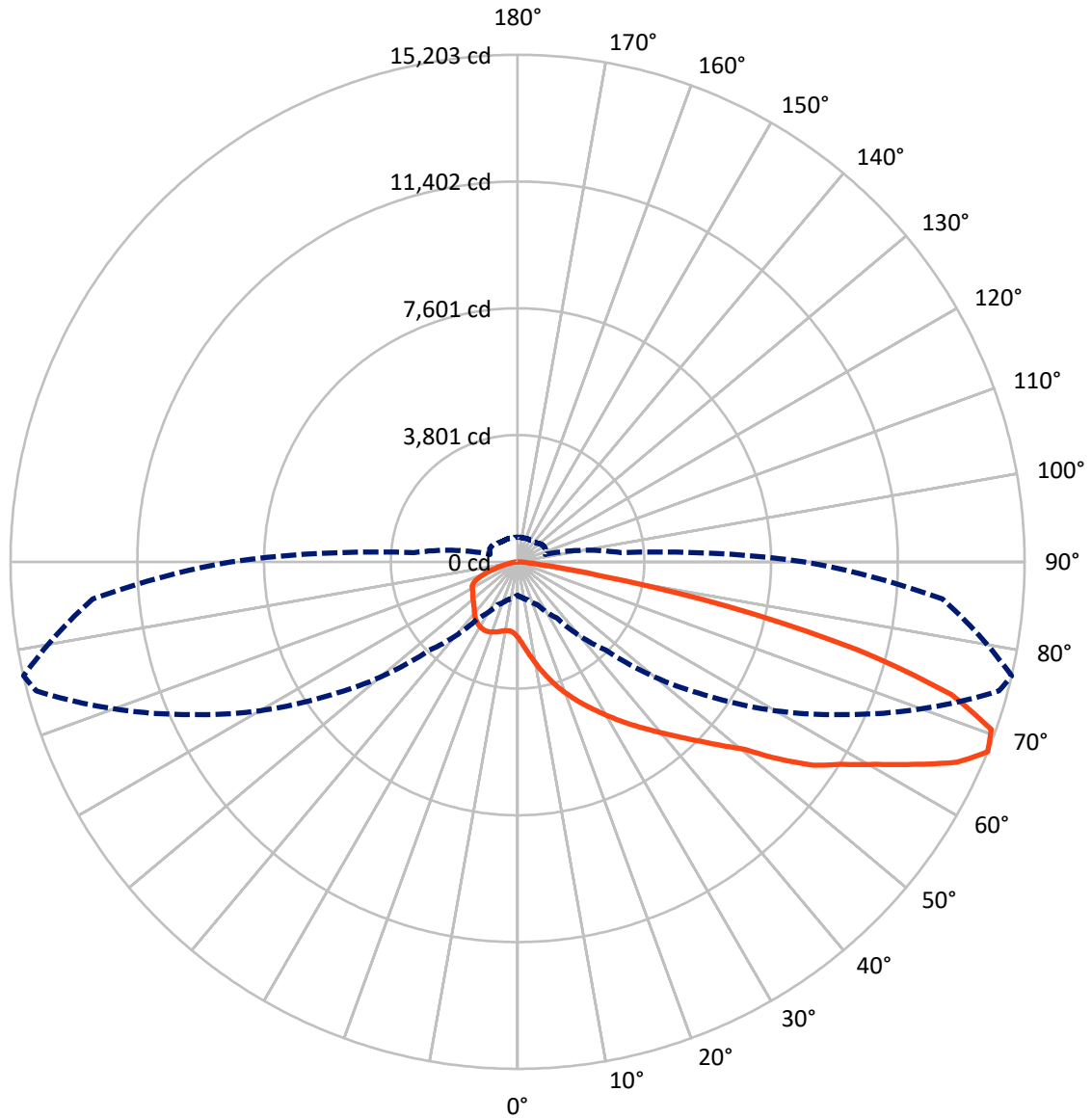
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Medium - N/A

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CATALOG NUMBER: NAV-SB3C-722-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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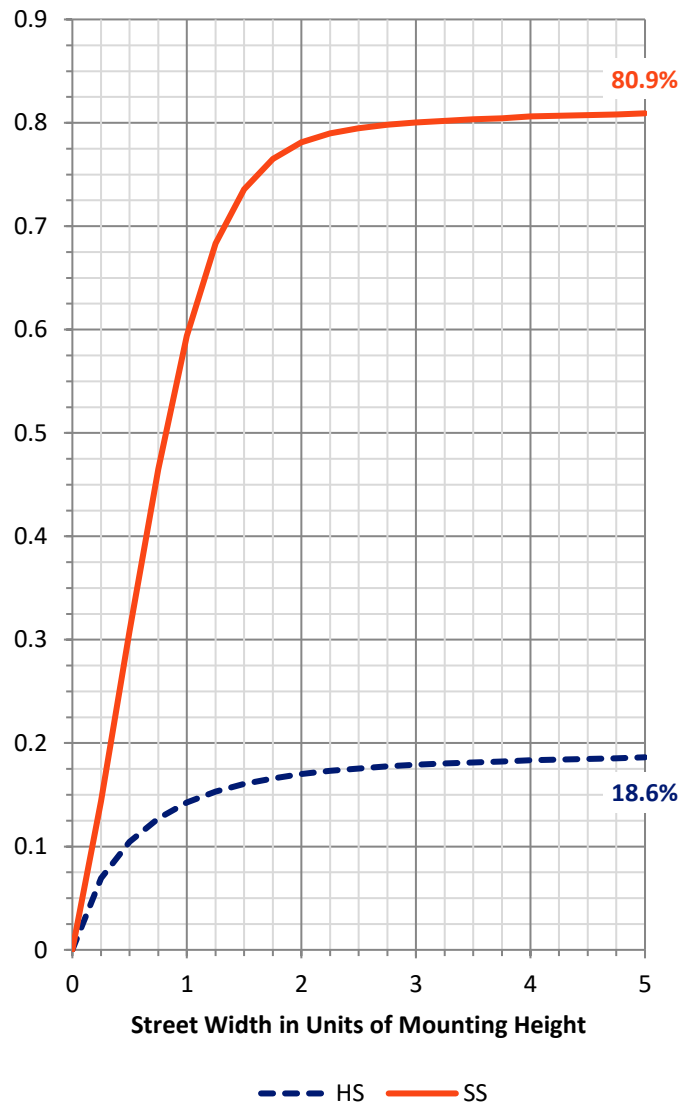
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3665.9	0.0	3665.9
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	15713.8	0.0	15713.8
	% Fixture	81.1	0.0	81.1
Total	Lumens	19379.7	0.0	19379.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.7	1.3
10°-20°	875.6	4.5
20°-30°	1653.2	8.5
30°-40°	2663.3	13.7
40°-50°	3642.9	18.8
50°-60°	4109.3	21.2
60°-70°	3835.5	19.8
70°-80°	2102.5	10.8
80°-90°	253.6	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°	19379.7	100.0
0°-180°	19379.7	100.0

Coefficient of Utilization

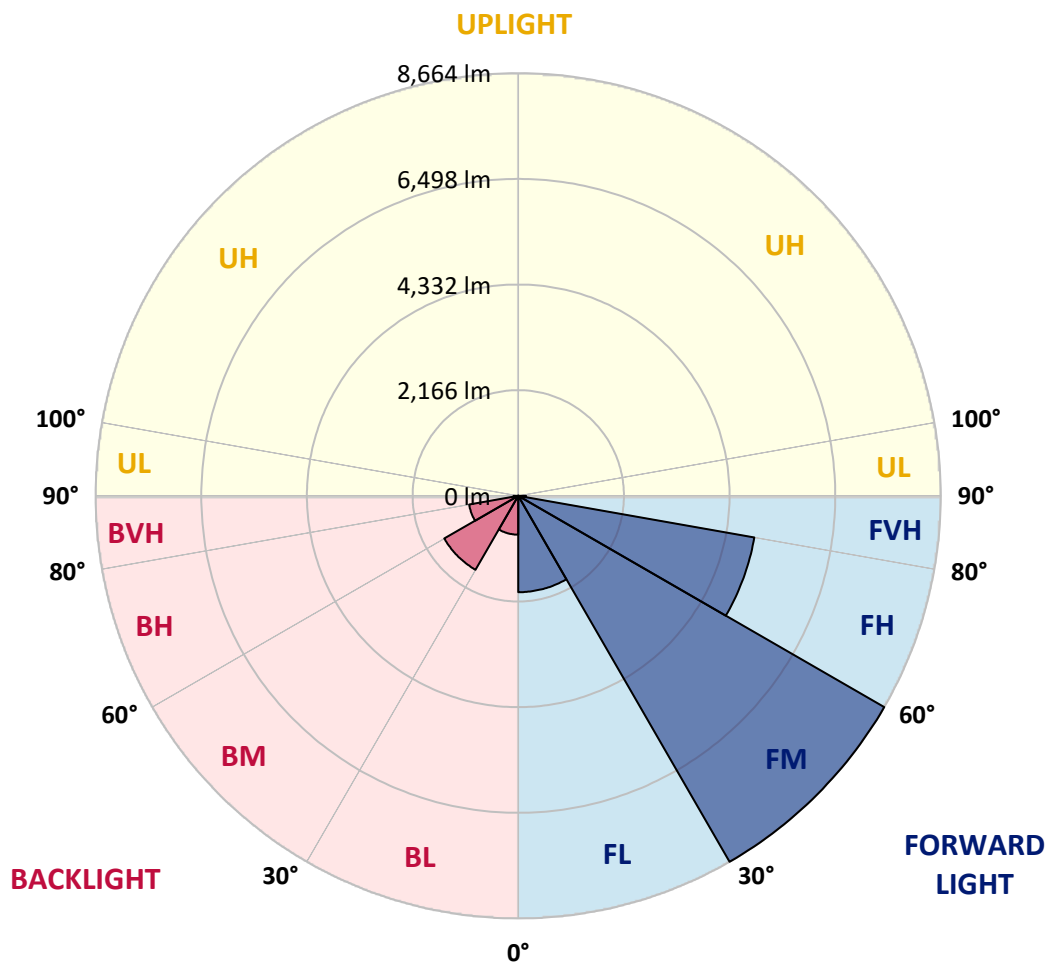


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 CATALOG NUMBER: NAV-SB3C-722-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1975.5	10.2			
FM (30°-60°)	8664.4	44.7			
FH (60°-80°)	4915.3	25.4			G2/5000
FVH (80°-90°)	158.6	0.8			G2/225
BL (0°-30°)	797.0	4.1	B2/1000		
BM (30°-60°)	1751.1	9.0	B2/2500		
BH (60°-80°)	1022.7	5.3	B3/2500		G3/2500
BVH (80°-90°)	95.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Medium



REPORT NUMBER: P964476
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9
2.5°	2847.0	2867.0	2842.0	2842.0	2758.0	2714.0	2629.9	2566.0	2450.9	2430.9	2354.8
5°	3365.3	3390.3	3355.2	3340.3	3241.2	3150.1	3009.1	2870.1	2665.0	2644.0	2464.9
7.5°	3766.4	3798.4	3767.4	3751.4	3663.4	3561.4	3396.2	3202.2	2913.0	2872.0	2612.9
10°	4093.5	4098.5	4088.5	4094.5	4025.5	3941.4	3772.4	3546.3	3185.2	3129.1	2792.0
12.5°	4278.6	4301.6	4321.6	4357.6	4345.6	4293.6	4141.5	3871.4	3473.3	3401.3	2987.1
15°	4365.6	4405.7	4450.7	4533.7	4600.7	4613.7	4497.7	4220.5	3766.4	3679.3	3184.2
17.5°	4396.6	4434.7	4505.7	4625.7	4769.7	4866.8	4814.7	4559.7	4056.5	3956.5	3391.2
20°	4553.7	4564.6	4607.7	4721.8	4877.8	5038.9	5077.8	4885.8	4343.6	4230.6	3605.3
22.5°	4889.8	4867.8	4879.8	4931.8	5043.8	5199.9	5289.0	5173.9	4638.7	4508.7	3821.4
25°	5445.0	5380.9	5317.0	5256.9	5313.9	5402.0	5503.0	5462.0	4947.8	4782.8	4039.5
27.5°	6146.3	6068.2	5927.2	5730.2	5661.1	5692.1	5737.1	5729.1	5234.0	5066.9	4264.6
30°	6836.5	6745.5	6577.4	6292.3	6110.2	6028.2	5994.2	5971.2	5545.0	5367.0	4491.7
32.5°	7387.7	7315.7	7150.6	6831.5	6567.4	6427.4	6314.3	6232.3	5870.2	5692.1	4731.7
35°	7869.9	7802.9	7613.8	7265.7	6978.6	6829.5	6681.5	6506.4	6208.3	6028.2	4989.8
37.5°	8310.1	8243.0	7983.9	7621.8	7332.7	7229.6	7097.6	6800.5	6547.4	6377.3	5263.0
40°	8588.2	8573.2	8331.1	7920.9	7620.8	7569.8	7525.8	7141.6	6923.6	6765.5	5563.1
42.5°	8659.2	8692.2	8500.1	8163.0	7876.9	7835.9	7938.9	7527.8	7345.7	7194.7	5903.2
45°	8488.1	8583.1	8457.1	8228.0	8059.0	8036.9	8305.1	7949.9	7812.9	7674.8	6313.3
47.5°	8055.0	8216.0	8164.0	8132.0	8108.0	8203.0	8627.2	8398.1	8342.1	8222.0	6781.5
50°	7180.6	7485.8	7576.8	7778.8	8011.0	8332.0	8920.3	8887.3	8960.3	8839.3	7351.7
52.5°	5669.1	6089.2	6617.4	7123.6	7712.8	8289.1	9242.4	9589.5	9897.6	9831.6	8258.0
55°	4679.7	4868.8	5275.0	6203.3	7134.6	8108.0	9387.5	10156.7	10828.0	10769.0	8945.3
57.5°	3919.4	4088.5	4338.6	5113.9	6260.3	7696.8	9477.5	10502.9	11465.2	11459.2	9623.5
60°	3104.1	3283.2	3539.3	4088.5	5239.0	6986.6	9457.5	10897.0	12278.5	12328.5	10450.9
62.5°	2183.8	2380.9	2665.0	3177.2	4195.5	6066.3	9049.3	11182.1	13235.9	13371.9	11446.2
65°	1435.5	1565.6	1779.6	2221.8	3126.1	4882.8	8270.0	11219.1	14260.2	14490.3	12380.6
67.5°	1006.3	1056.4	1182.4	1422.5	2060.8	3744.4	7028.6	10836.0	14943.5	15202.6	12785.7
70°	785.3	810.3	874.3	970.4	1294.5	2517.9	5386.0	9839.6	14797.4	15067.6	12362.5
72.5°	678.2	702.2	726.3	738.3	868.3	1554.6	3648.4	8227.1	13422.0	13605.0	10749.0
75°	615.2	621.3	641.2	637.2	662.3	1008.4	2105.8	5994.2	10589.9	10526.9	7934.9
77.5°	517.2	525.2	558.2	553.2	588.2	689.2	1093.4	3868.5	6865.6	6437.4	4416.6
80°	438.2	442.2	478.2	472.2	511.2	499.2	558.2	1971.7	2912.0	2466.9	1273.5
82.5°	152.0	188.1	365.1	376.2	390.1	302.1	322.2	804.3	889.3	681.2	267.1
85°	74.0	79.0	186.0	264.1	263.1	152.0	157.0	287.1	280.1	220.1	89.1
87.5°	12.0	15.0	22.0	103.0	82.0	40.0	54.0	56.1	58.0	50.0	20.0
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: P964476
 CATALOG NUMBER: NAV-SB3C-722-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9
2.5°	2298.9	2248.8	2143.8	2046.7	1970.8	1897.7	1856.7	1821.6	1801.6	1797.6	1797.6
5°	2360.9	2257.9	2066.8	1905.7	1800.6	1722.6	1681.6	1655.6	1642.6	1634.6	1633.6
7.5°	2449.9	2298.9	2026.7	1843.7	1733.7	1677.6	1656.6	1652.6	1651.6	1652.6	1655.6
10°	2573.0	2365.9	2022.7	1828.7	1736.7	1705.6	1704.7	1705.6	1709.6	1710.6	1711.6
12.5°	2706.0	2434.9	2038.7	1841.7	1774.7	1757.7	1754.7	1753.7	1756.6	1758.7	1759.6
15°	2851.0	2525.9	2065.8	1869.7	1816.7	1798.7	1795.7	1789.6	1788.6	1787.7	1786.7
17.5°	3000.1	2616.0	2095.8	1899.7	1843.7	1818.7	1807.7	1793.6	1782.7	1779.6	1782.7
20°	3151.2	2705.0	2116.8	1914.7	1845.7	1810.7	1788.6	1764.6	1745.7	1734.6	1738.6
22.5°	3312.2	2798.0	2129.7	1910.7	1827.7	1779.6	1739.6	1711.6	1682.6	1663.6	1664.6
25°	3469.3	2879.0	2128.8	1889.7	1792.6	1731.6	1680.6	1644.6	1604.6	1584.5	1584.5
27.5°	3620.3	2952.1	2103.8	1852.7	1742.6	1674.6	1613.6	1570.6	1531.6	1512.6	1511.6
30°	3776.4	3013.1	2064.8	1798.7	1683.7	1608.6	1541.6	1504.6	1469.5	1451.5	1450.6
32.5°	3931.5	3069.2	2009.7	1731.6	1615.6	1543.5	1477.5	1443.5	1422.5	1422.5	1423.5
35°	4095.5	3108.1	1936.7	1653.6	1543.5	1474.6	1422.5	1402.5	1400.6	1388.5	1385.5
37.5°	4268.6	3133.1	1847.7	1573.6	1472.5	1407.5	1391.5	1367.6	1347.5	1321.5	1317.5
40°	4450.7	3158.1	1740.7	1490.6	1397.5	1361.5	1354.5	1322.5	1265.5	1201.4	1192.5
42.5°	4671.7	3175.1	1629.6	1407.5	1318.5	1306.5	1316.5	1261.5	1170.4	1122.4	1123.4
45°	4927.8	3203.2	1527.6	1325.5	1237.5	1237.5	1279.5	1207.4	1132.4	1102.4	1107.4
47.5°	5259.9	3268.2	1432.5	1235.4	1162.5	1182.4	1197.4	1142.5	1100.4	1063.4	1062.4
50°	5740.1	3424.2	1334.4	1144.4	1105.4	1145.4	1124.4	1092.4	1043.3	1013.4	1010.3
52.5°	6336.3	3516.3	1247.4	1062.4	1056.4	1096.4	1066.4	1036.4	999.4	959.4	951.3
55°	6742.4	3533.3	1174.4	1002.3	1023.4	1019.4	1008.4	981.3	961.3	908.4	909.4
57.5°	7196.6	3567.3	1114.4	966.4	1002.3	958.4	954.4	931.3	905.4	869.3	857.3
60°	7739.9	3620.3	1062.4	952.3	984.4	918.3	898.3	889.3	863.4	845.3	850.3
62.5°	8332.0	3668.4	1009.4	954.4	963.4	879.3	849.3	846.3	830.4	824.3	824.3
65°	8736.2	3537.3	943.3	952.3	930.4	839.3	801.3	800.3	787.3	785.3	784.3
67.5°	8595.1	3122.1	854.3	924.3	896.4	799.3	757.3	753.3	736.3	737.3	737.3
70°	7888.9	2529.9	731.2	855.4	854.3	763.3	711.2	698.2	675.3	679.3	683.3
72.5°	6564.4	1874.7	566.2	740.3	787.3	730.3	658.3	637.2	608.2	612.2	611.2
75°	4740.7	1274.5	412.2	563.2	685.2	691.3	606.2	570.2	535.2	541.2	543.2
77.5°	2425.9	722.2	303.1	388.2	538.2	628.2	559.2	511.2	503.2	559.2	551.2
80°	791.3	362.1	210.1	272.1	353.1	514.1	490.2	435.1	433.2	446.2	383.1
82.5°	236.1	153.0	135.1	179.1	195.1	394.1	423.1	329.1	283.1	298.1	308.1
85°	81.1	74.0	77.0	89.1	93.1	231.0	296.1	218.1	206.0	227.0	224.1
87.5°	19.0	26.0	22.0	20.0	20.0	56.1	115.0	91.0	126.1	84.0	81.1
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)