

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: P963433

Luminaire Tested: **NAV-SB3A-722-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963433
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-722-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11374.4 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

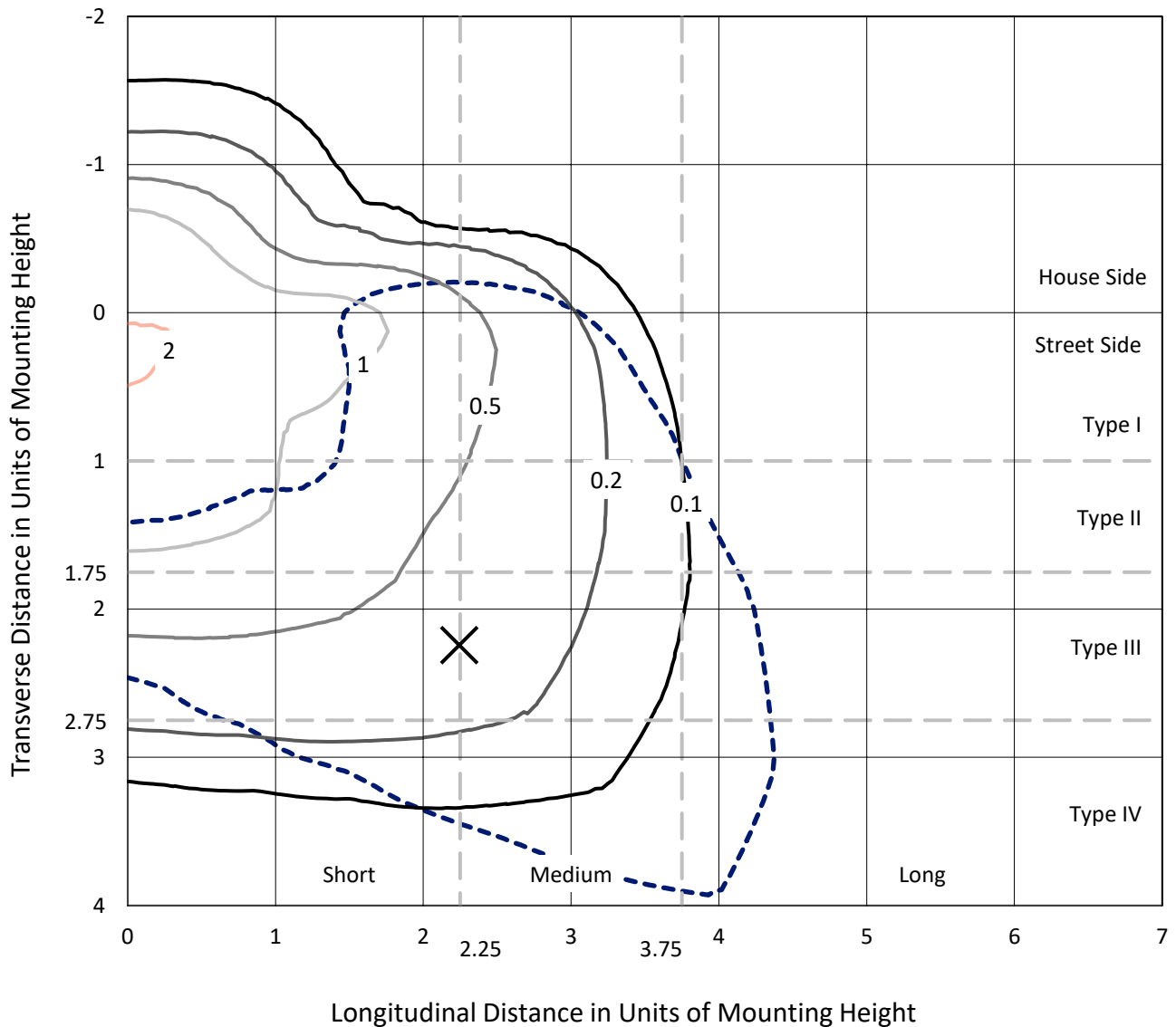
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

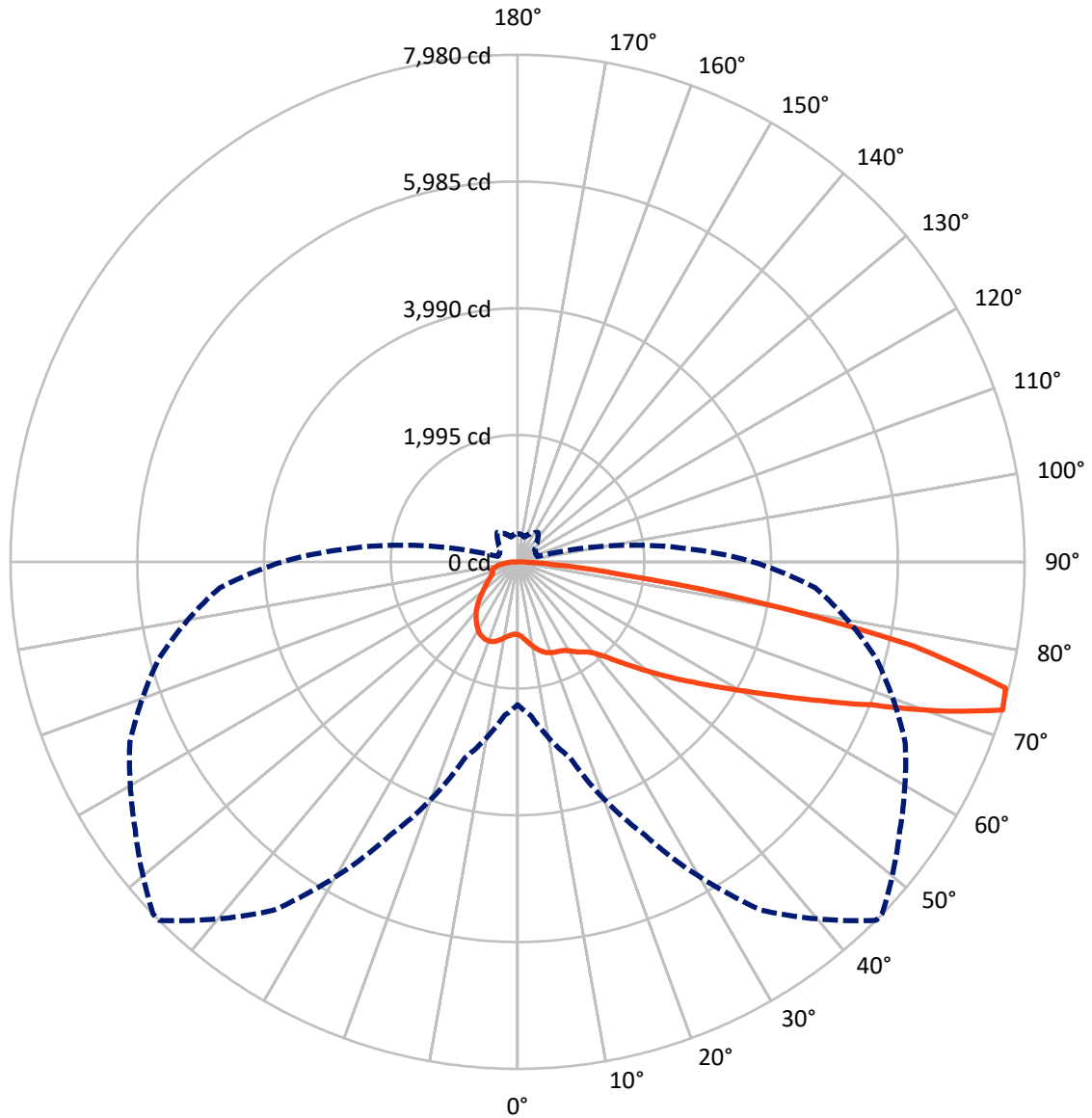
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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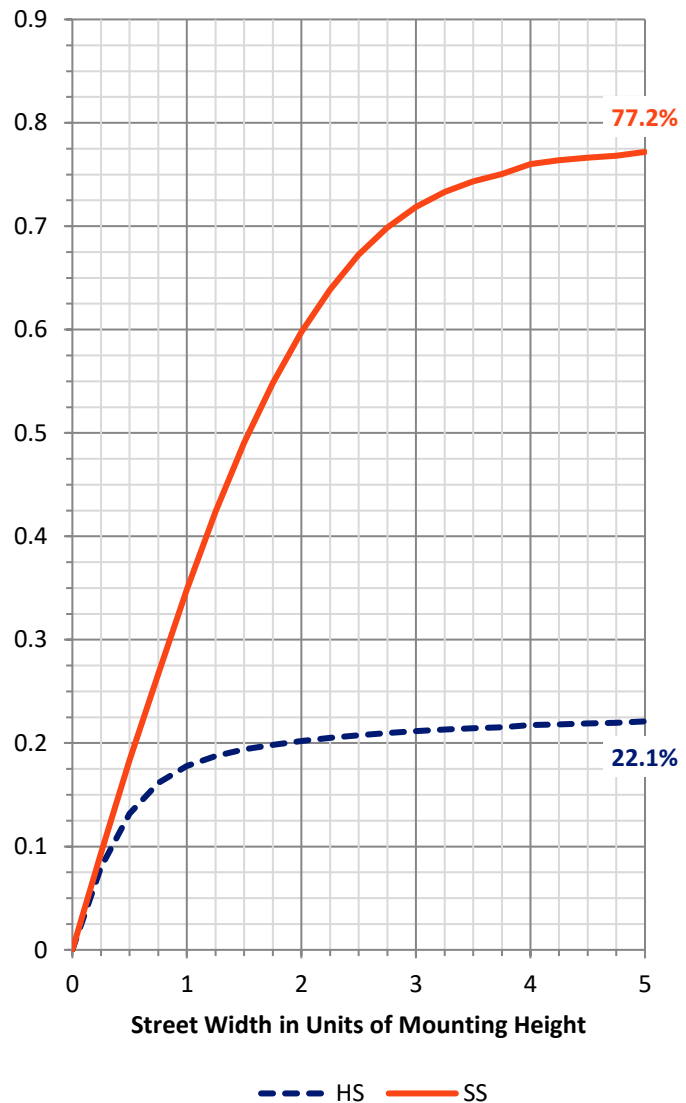
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2571.4	0.0	2571.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	8803.0	0.0	8803.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	11374.4	0.0	11374.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.8	1.0
10°-20°	389.4	3.4
20°-30°	677.4	6.0
30°-40°	971.0	8.5
40°-50°	1367.3	12.0
50°-60°	2094.3	18.4
60°-70°	3033.8	26.7
70°-80°	2422.7	21.3
80°-90°	301.7	2.7
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°	11374.4	100.0
0°-180°	11374.4	100.0

Coefficient of Utilization

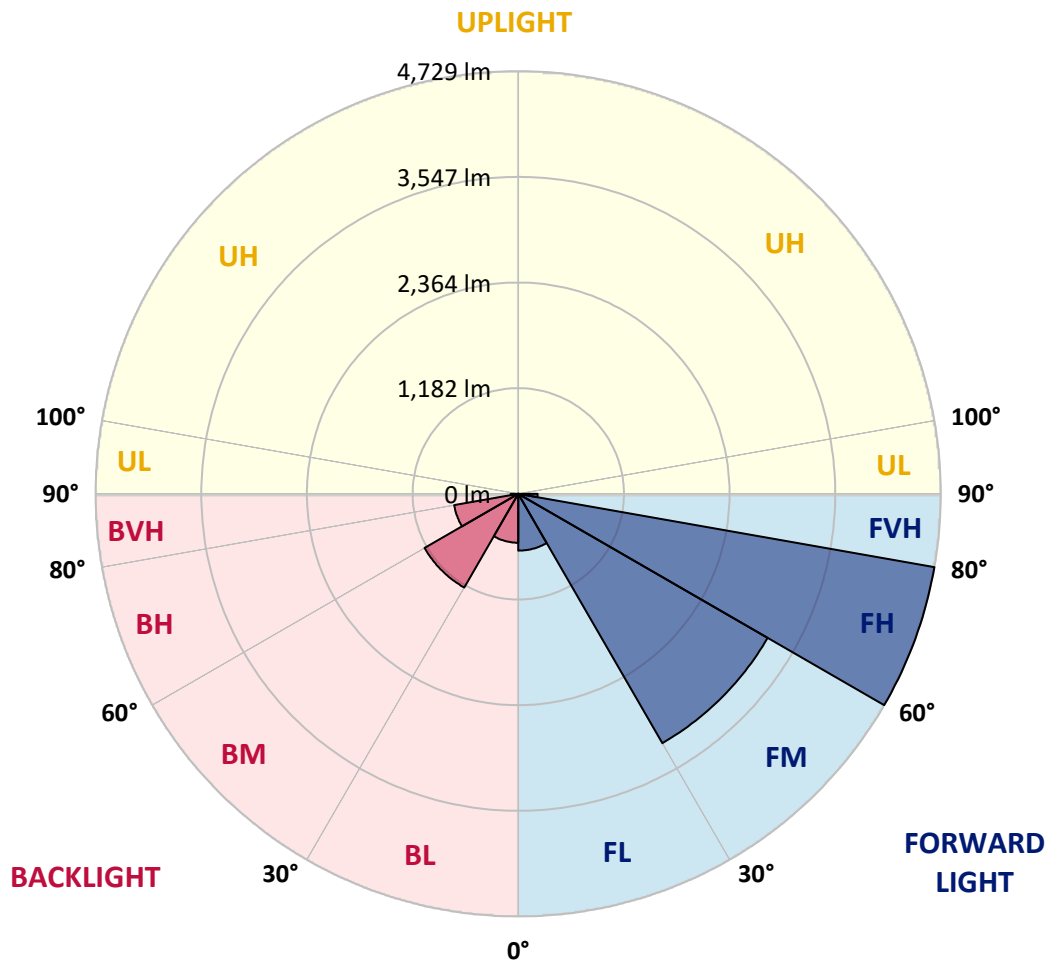


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	636.1	5.6			
FM (30°-60°)	3221.8	28.3			
FH (60°-80°)	4728.7	41.6			G2/5000
FVH (80°-90°)	216.5	1.9			G2/225
BL (0°-30°)	547.5	4.8	B2/1000		
BM (30°-60°)	1210.7	10.6	B2/2500		
BH (60°-80°)	727.9	6.4	B2/1000		G2/1000
BVH (80°-90°)	85.3	0.7			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1147.5	1147.5	1147.5	1147.5	1147.5	1147.5	1147.5	1147.5	1147.5	1147.5	1147.5
2.5°	1192.4	1200.2	1193.0	1186.4	1183.4	1175.6	1175.1	1170.2	1167.3	1158.9	1156.4
5°	1275.7	1285.9	1273.9	1260.8	1248.8	1229.6	1227.1	1213.4	1197.8	1179.8	1169.6
7.5°	1369.8	1378.7	1365.0	1345.2	1324.2	1292.4	1291.9	1266.7	1242.1	1211.6	1194.2
10°	1451.8	1463.8	1445.2	1418.3	1391.9	1356.0	1351.8	1323.1	1291.9	1252.3	1226.0
12.5°	1524.4	1532.8	1514.7	1481.8	1451.3	1415.3	1409.9	1378.1	1343.4	1298.5	1264.8
15°	1581.9	1592.6	1568.7	1533.3	1501.0	1465.6	1460.8	1432.0	1397.3	1350.0	1306.9
17.5°	1619.6	1628.6	1604.0	1564.5	1533.3	1504.0	1500.4	1476.4	1445.9	1397.9	1351.8
20°	1634.1	1643.6	1617.9	1577.7	1548.9	1526.1	1524.4	1507.0	1486.0	1442.3	1395.5
22.5°	1648.4	1657.3	1623.8	1581.9	1556.7	1542.3	1541.7	1530.3	1521.9	1486.0	1440.4
25°	1706.5	1708.9	1664.0	1603.4	1567.5	1554.9	1554.3	1553.7	1557.3	1529.1	1489.0
27.5°	1756.8	1756.2	1717.9	1661.0	1605.3	1578.9	1578.3	1584.2	1595.6	1572.2	1539.3
30°	1830.5	1824.0	1778.4	1719.1	1668.2	1627.4	1623.8	1618.5	1627.4	1608.8	1589.7
32.5°	1987.0	1966.0	1892.3	1786.8	1720.3	1689.1	1684.4	1650.8	1654.4	1643.0	1633.4
35°	2211.0	2183.5	2085.2	1915.0	1785.0	1740.7	1738.3	1695.8	1688.5	1678.3	1681.9
37.5°	2477.6	2443.5	2329.1	2100.7	1896.5	1800.6	1797.0	1758.6	1729.3	1718.5	1738.9
40°	2745.5	2702.4	2607.7	2327.3	2060.7	1900.7	1889.3	1831.2	1797.5	1779.6	1822.8
42.5°	3005.6	2969.6	2888.8	2581.4	2263.2	2046.8	2021.7	1922.2	1897.1	1880.3	1958.2
45°	3235.6	3203.3	3144.0	2852.8	2500.5	2245.8	2221.2	2058.8	2051.0	2051.0	2163.7
47.5°	3422.6	3415.4	3352.5	3129.6	2780.3	2472.3	2429.8	2248.7	2269.8	2302.1	2455.5
50°	3629.9	3610.2	3543.0	3402.2	3109.2	2731.7	2697.0	2481.8	2560.3	2649.0	2877.4
52.5°	3820.5	3831.2	3756.3	3686.2	3480.7	3021.2	2960.0	2756.9	2926.5	3073.3	3371.6
55°	4016.4	4017.0	3996.1	3986.4	3870.2	3341.1	3274.0	3087.6	3357.3	3539.4	3948.1
57.5°	4200.3	4201.6	4232.7	4317.2	4322.0	3710.2	3634.1	3493.9	3836.1	4021.8	4542.5
60°	4364.6	4373.0	4458.0	4655.8	4719.3	4133.2	4061.4	3973.8	4330.9	4517.9	5167.4
62.5°	4419.7	4450.2	4639.6	4920.6	5111.8	4652.2	4581.4	4529.3	4851.1	5024.9	5690.0
65°	4326.2	4396.3	4762.4	5139.2	5515.6	5268.7	5198.6	5141.7	5391.6	5555.1	6118.9
67.5°	4096.7	4187.1	4755.2	5368.7	6005.7	6010.5	5945.2	5811.5	5970.9	6033.9	6258.5
70°	3492.1	3627.5	4336.4	5454.4	6568.4	7024.9	6962.0	6618.1	6549.2	6244.8	5865.6
72.5°	2250.0	2432.1	3193.1	4749.2	6693.6	7979.5	7975.8	7346.2	6732.0	5834.9	4704.2
75°	820.9	932.3	1483.6	2981.0	5618.6	7930.9	7954.3	7221.5	6145.4	4507.1	2930.7
77.5°	299.0	327.2	484.1	1145.6	3455.6	6363.4	6412.0	5773.2	4374.1	2262.0	1161.2
80°	157.0	172.6	248.0	444.6	1480.6	3779.1	3855.2	3431.0	2055.8	681.3	348.1
82.5°	86.9	94.1	139.0	241.5	666.9	1616.0	1661.5	1355.4	723.2	288.8	143.8
85°	46.7	49.7	65.3	131.8	326.0	560.3	572.9	405.1	288.2	169.5	69.5
87.5°	13.7	16.8	21.5	41.9	127.6	125.9	128.8	80.3	113.9	85.7	22.8
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°	1147.5	1147.5	1147.5	1147.5	1147.5	1147.5	1147.5	1147.5	1147.5	1147.5	1147.5
2.5°	1152.8	1151.1	1144.4	1141.4	1137.9	1137.2	1140.3	1140.8	1141.4	1142.1	1144.4
5°	1163.7	1157.6	1151.7	1148.1	1149.2	1149.8	1155.9	1160.0	1163.1	1165.4	1166.7
7.5°	1184.6	1179.8	1169.6	1169.0	1170.9	1176.2	1184.0	1193.6	1198.9	1203.1	1204.4
10°	1215.8	1206.7	1194.8	1196.6	1200.2	1208.0	1224.2	1231.9	1241.0	1248.8	1246.9
12.5°	1247.5	1239.7	1226.0	1227.1	1233.2	1246.9	1262.5	1272.1	1278.1	1284.1	1286.5
15°	1288.8	1275.1	1260.1	1260.1	1270.9	1285.9	1293.0	1300.8	1304.4	1311.1	1313.4
17.5°	1331.4	1313.4	1293.7	1292.4	1305.6	1312.8	1317.0	1318.3	1319.4	1326.7	1329.0
20°	1373.9	1354.2	1326.0	1323.6	1326.7	1325.4	1324.8	1323.6	1325.4	1334.4	1338.0
22.5°	1415.9	1393.1	1354.2	1343.4	1335.0	1323.6	1323.1	1322.5	1323.6	1332.6	1338.6
25°	1465.0	1437.5	1385.3	1353.0	1324.8	1309.2	1311.1	1311.6	1312.8	1320.0	1329.6
27.5°	1518.3	1487.8	1414.1	1350.0	1299.1	1288.2	1285.2	1287.1	1291.3	1302.7	1314.0
30°	1571.7	1535.8	1440.4	1338.0	1266.7	1251.7	1242.1	1246.3	1259.5	1270.9	1283.5
32.5°	1620.2	1584.2	1461.4	1311.6	1225.4	1202.0	1189.4	1194.8	1208.0	1212.2	1227.1
35°	1677.1	1636.4	1470.5	1269.7	1180.4	1144.4	1127.7	1119.9	1126.5	1122.3	1135.5
37.5°	1740.7	1698.1	1469.2	1214.5	1127.7	1086.3	1062.9	1033.6	1019.9	1005.4	1014.4
40°	1834.7	1773.7	1454.9	1148.1	1062.4	1024.6	982.7	933.0	901.8	873.6	875.5
42.5°	1963.0	1878.5	1428.4	1074.9	988.7	953.4	896.4	838.2	789.1	742.4	738.2
45°	2154.1	2015.7	1395.5	997.0	909.0	874.2	812.5	747.2	691.5	631.5	624.3
47.5°	2429.8	2200.3	1364.4	908.4	825.1	793.3	737.6	677.1	611.2	553.1	546.4
50°	2808.4	2465.1	1335.6	822.0	742.4	718.4	674.1	612.3	545.9	499.2	496.1
52.5°	3290.1	2825.2	1323.6	738.8	665.1	656.1	620.7	563.2	500.3	460.7	457.8
55°	3843.2	3256.0	1323.6	659.1	597.4	600.3	575.8	522.5	468.0	432.7	429.1
57.5°	4407.7	3692.3	1299.7	585.4	539.9	552.5	536.9	490.2	441.1	404.5	398.4
60°	4927.8	4057.8	1202.6	518.3	488.9	508.7	498.6	458.4	398.4	367.9	363.2
62.5°	5327.4	4263.9	1015.7	464.9	447.0	469.8	464.3	416.5	390.6	378.1	373.9
65°	5527.6	4230.3	776.5	417.7	411.6	447.0	435.6	433.8	413.5	399.0	394.3
67.5°	5404.7	3941.5	563.2	382.8	391.2	426.0	469.8	476.9	439.2	411.0	406.2
70°	4866.1	3419.0	419.4	349.9	365.5	426.6	535.7	499.2	430.8	397.9	392.5
72.5°	3701.8	2549.6	325.3	315.2	332.0	429.6	565.1	488.9	406.8	439.8	436.2
75°	2116.9	1399.7	261.3	272.6	290.0	401.5	550.0	462.6	388.3	403.8	403.8
77.5°	807.1	538.1	215.7	230.7	233.1	350.5	526.1	460.7	369.7	360.7	328.9
80°	279.8	210.3	178.6	183.4	180.4	311.6	504.5	400.9	302.6	270.8	261.9
82.5°	114.5	104.9	141.4	135.4	128.2	242.1	407.4	327.8	247.4	218.7	216.3
85°	49.7	66.5	93.5	82.1	74.3	167.8	326.6	277.5	209.1	180.4	179.8
87.5°	10.1	25.2	39.6	37.1	38.3	112.0	231.9	197.1	148.0	110.8	86.9
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)