

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: P960777

Luminaire Tested: **NAV-SB1D-722-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1D-722-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8423.4 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G3

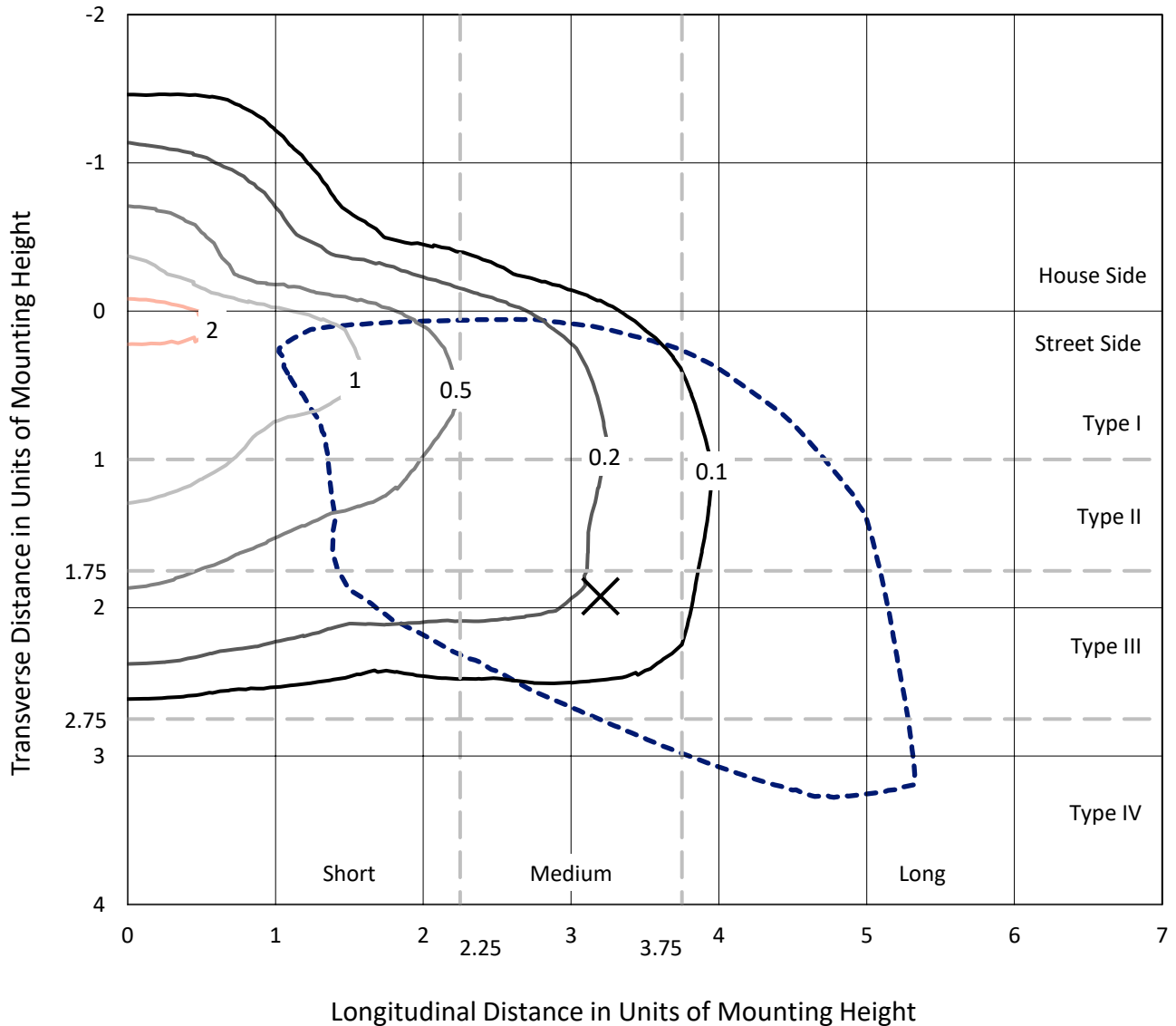
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

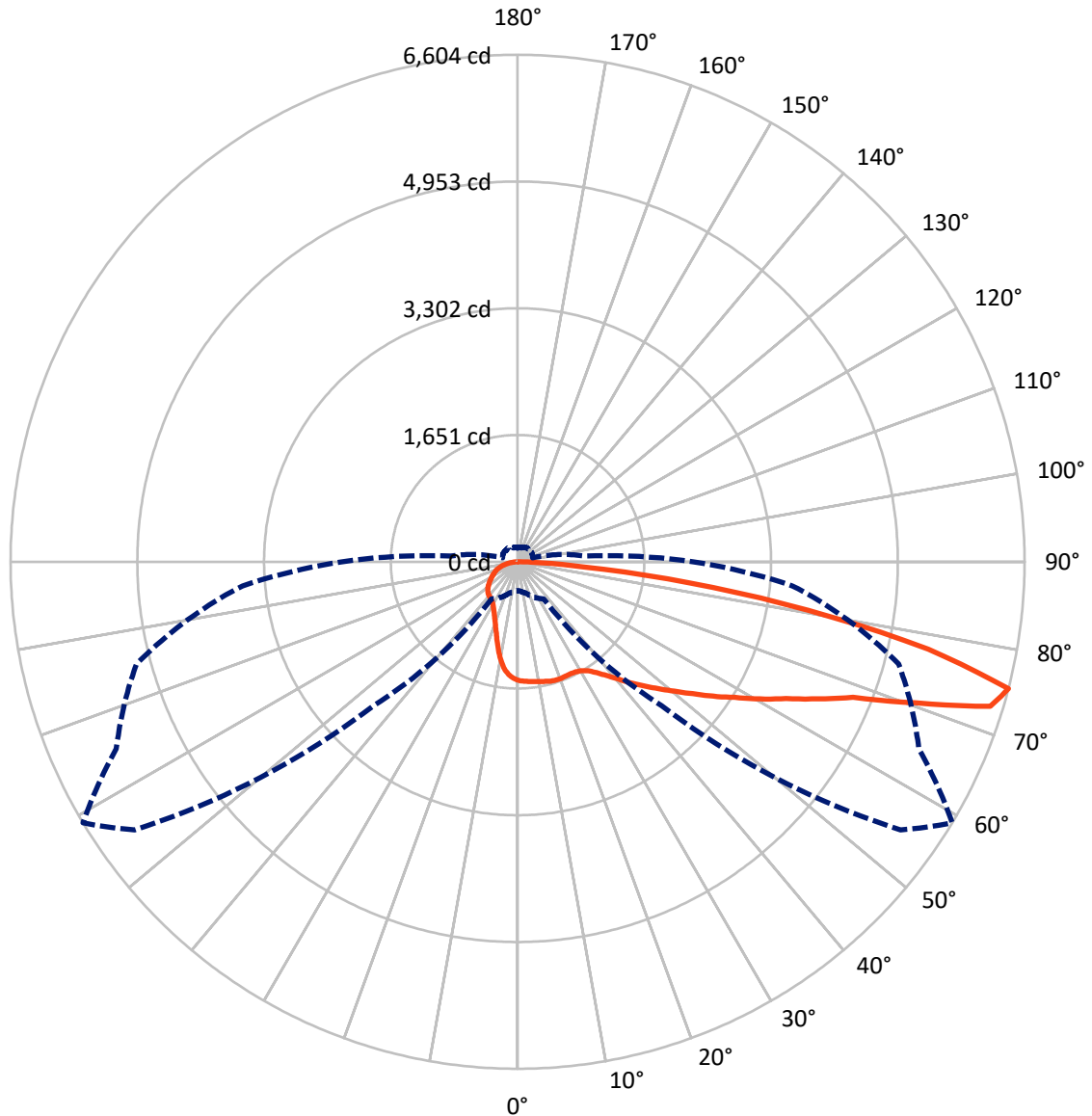
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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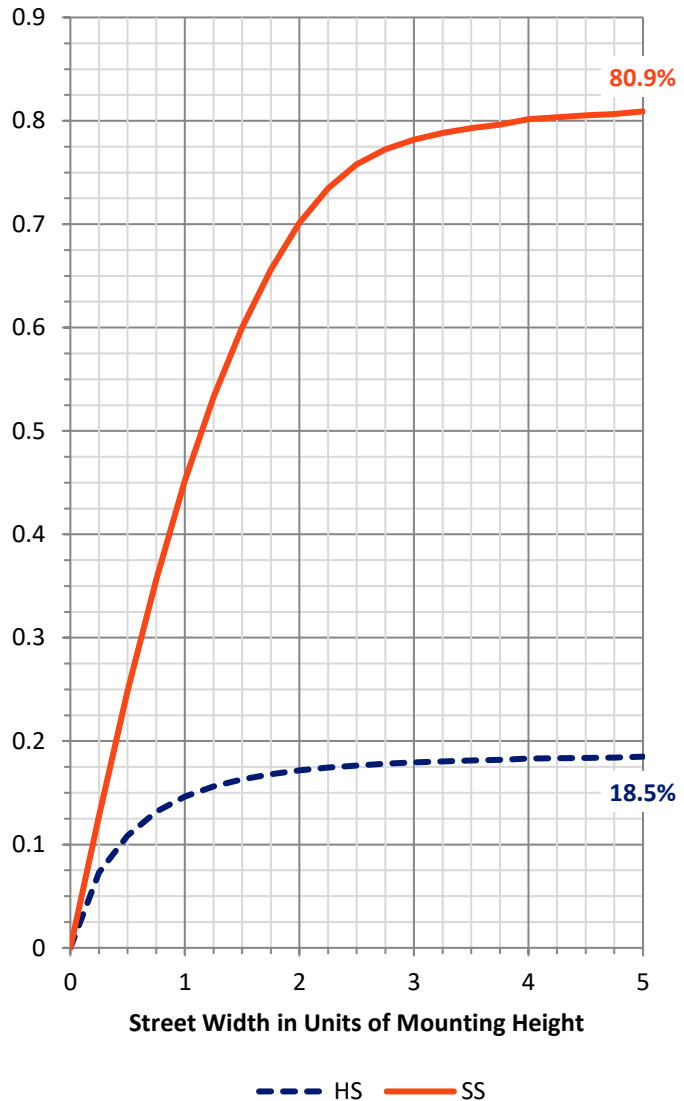
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1579.9	0.0	1579.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	6843.6	0.0	6843.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	8423.4	0.0	8423.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.6	1.6
10°-20°	354.4	4.2
20°-30°	538.2	6.4
30°-40°	800.1	9.5
40°-50°	1189.9	14.1
50°-60°	1615.1	19.2
60°-70°	1971.8	23.4
70°-80°	1547.4	18.4
80°-90°	268.0	3.2
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°	8423.4	100.0
0°-180°	8423.4	100.0

Coefficient of Utilization



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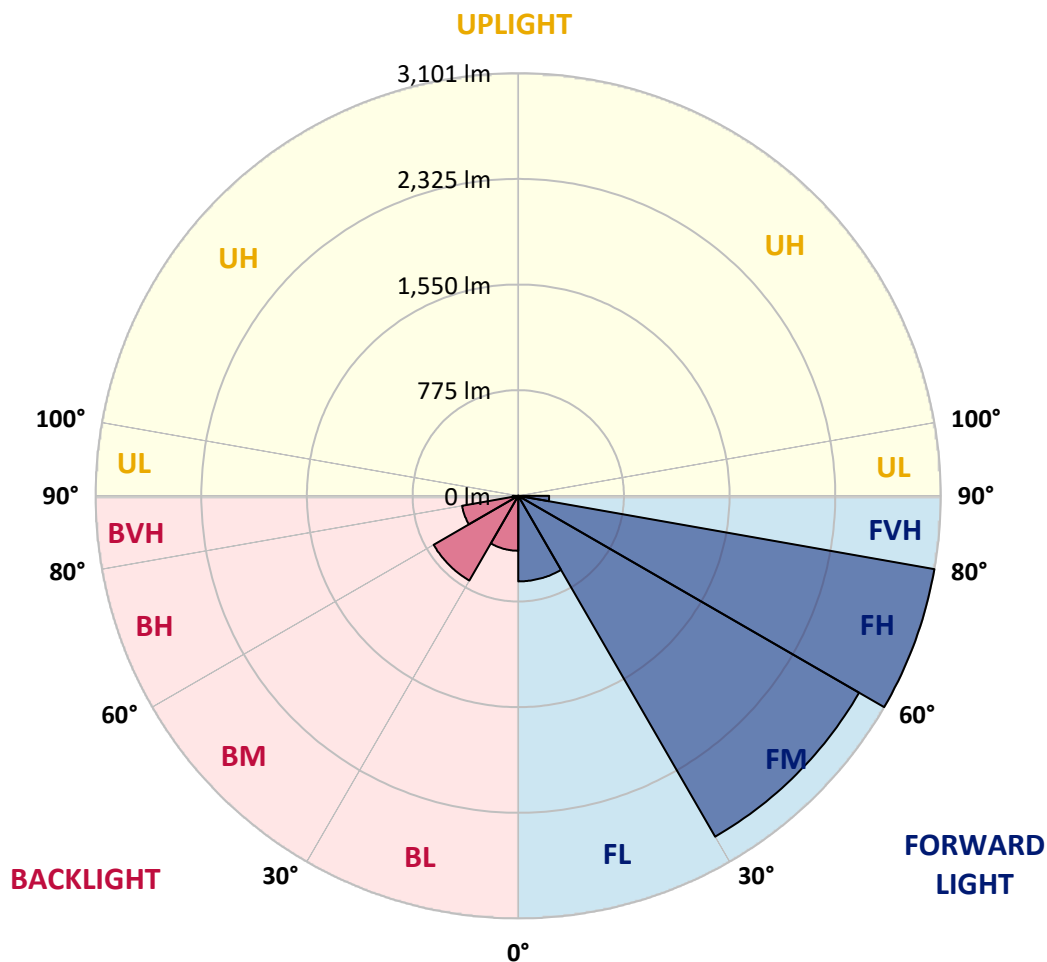
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	628.1	7.5			
FM (30°-60°)	2887.9	34.3			
FH (60°-80°)	3100.6	36.8			G2/5000
FVH (80°-90°)	227.0	2.7			G3/500
BL (0°-30°)	403.2	4.8	B1/500		
BM (30°-60°)	717.1	8.5	B1/1000		
BH (60°-80°)	418.6	5.0	B1/500		G1/500
BVH (80°-90°)	41.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1546.1	1546.1	1546.1	1546.1	1546.1	1546.1	1546.1	1546.1	1546.1	1546.1	1546.1
2.5°	1559.2	1553.8	1559.2	1557.0	1556.1	1554.3	1554.7	1557.9	1556.1	1558.3	1550.6
5°	1548.8	1545.7	1551.1	1549.7	1555.6	1556.6	1562.4	1566.0	1568.4	1568.8	1562.9
7.5°	1531.6	1528.5	1536.2	1542.5	1555.1	1558.8	1571.0	1577.0	1580.1	1585.6	1577.0
10°	1468.6	1467.3	1486.2	1510.3	1540.2	1558.8	1577.4	1587.3	1592.3	1606.8	1596.8
12.5°	1357.1	1358.9	1383.9	1430.1	1489.9	1549.7	1584.6	1599.1	1606.8	1624.9	1620.4
15°	1250.7	1250.2	1277.4	1326.8	1410.6	1509.8	1588.2	1613.1	1626.3	1653.0	1649.4
17.5°	1189.0	1187.3	1206.2	1243.8	1321.8	1448.6	1579.2	1620.8	1648.9	1682.5	1679.4
20°	1177.7	1174.0	1184.1	1202.6	1257.9	1381.6	1555.6	1620.8	1667.1	1710.6	1708.8
22.5°	1218.9	1213.1	1209.0	1206.7	1231.1	1326.4	1528.9	1615.4	1693.8	1750.9	1747.7
25°	1301.9	1292.8	1271.9	1251.5	1244.4	1301.4	1505.3	1614.1	1733.7	1805.3	1793.5
27.5°	1436.0	1424.6	1382.5	1333.6	1289.7	1314.0	1494.9	1622.3	1777.7	1862.8	1839.3
30°	1602.3	1590.1	1537.1	1461.9	1382.9	1361.2	1508.1	1646.3	1833.8	1939.4	1893.2
32.5°	1751.4	1737.8	1692.5	1615.9	1509.4	1442.8	1549.7	1692.0	1922.2	2045.9	1974.4
35°	1883.6	1867.9	1827.1	1756.3	1664.4	1557.4	1624.9	1773.1	2047.7	2219.0	2084.4
37.5°	2013.3	1994.8	1950.3	1875.5	1811.2	1710.1	1728.8	1877.4	2214.5	2429.2	2230.3
40°	2158.3	2131.6	2077.7	2003.8	1941.2	1889.2	1865.1	2005.1	2383.9	2664.0	2412.5
42.5°	2298.8	2273.3	2209.1	2146.0	2067.6	2052.7	2023.2	2154.7	2569.3	2921.9	2597.4
45°	2450.2	2419.7	2341.8	2262.1	2212.7	2161.4	2176.4	2304.2	2751.0	3184.7	2791.3
47.5°	2591.9	2558.0	2465.9	2377.2	2350.0	2253.0	2316.9	2468.7	2940.0	3451.1	2983.5
50°	2668.5	2635.0	2558.4	2478.2	2456.9	2365.8	2469.1	2649.5	3137.9	3716.6	3167.9
52.5°	2732.4	2696.2	2596.0	2551.6	2545.3	2488.6	2656.7	2856.2	3336.0	3951.4	3346.0
55°	2800.4	2760.0	2632.3	2592.4	2621.4	2626.4	2879.2	3090.4	3545.4	4180.2	3514.1
57.5°	2878.8	2827.6	2667.2	2626.9	2695.7	2787.7	3134.8	3333.3	3751.1	4392.2	3663.7
60°	2952.6	2901.0	2734.2	2681.7	2775.9	2974.9	3428.0	3627.4	3984.0	4581.2	3805.0
62.5°	2967.2	2924.5	2787.7	2787.3	2884.7	3193.3	3775.1	3924.2	4187.4	4767.9	3931.9
65°	2716.1	2689.4	2608.2	2783.2	3040.6	3507.8	4161.6	4303.9	4446.1	4931.1	4043.3
67.5°	2067.2	2070.8	2065.0	2402.5	2914.6	3959.5	4721.3	4710.4	4765.6	5114.1	4171.5
70°	945.3	966.6	1105.2	1658.4	2335.1	4011.6	5646.5	5505.6	5166.7	5351.1	4282.6
72.5°	510.7	527.0	583.6	803.4	1403.8	3566.7	6338.0	6438.2	5700.0	5510.6	4160.7
75°	374.7	383.8	423.2	510.7	589.6	2650.9	6090.1	6604.1	5766.6	5138.5	3592.9
77.5°	280.5	284.5	316.7	404.7	301.8	1397.5	4866.3	5469.4	4936.5	4221.9	2654.0
80°	203.5	208.0	232.0	303.6	211.7	511.2	3341.4	3838.9	3380.9	2691.1	1322.7
82.5°	140.4	142.3	152.7	206.6	147.7	198.4	1895.9	2251.2	1887.3	944.3	357.1
85°	84.8	87.0	91.5	120.5	83.8	94.3	818.4	846.4	564.2	225.7	111.0
87.5°	34.8	37.2	40.8	50.7	33.1	26.2	135.0	169.4	105.6	66.1	34.4
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°	1546.1	1546.1	1546.1	1546.1	1546.1	1546.1	1546.1	1546.1	1546.1	1546.1	1546.1
2.5°	1548.4	1545.2	1536.6	1524.8	1513.9	1500.3	1494.4	1489.4	1484.9	1476.3	1472.2
5°	1557.9	1549.3	1526.1	1496.3	1462.3	1425.2	1388.9	1364.0	1342.6	1326.8	1313.6
7.5°	1572.4	1556.1	1513.9	1452.7	1374.8	1295.1	1223.0	1171.8	1133.3	1119.3	1094.8
10°	1587.3	1567.8	1494.4	1386.6	1252.0	1129.2	1033.6	981.0	950.3	940.2	924.9
12.5°	1605.0	1576.4	1464.1	1294.6	1114.7	980.1	896.8	865.9	850.1	844.6	846.0
15°	1630.9	1583.7	1418.3	1179.5	983.8	871.4	817.4	796.1	788.0	787.5	789.4
17.5°	1650.4	1585.1	1347.2	1056.3	883.1	805.6	761.3	753.1	758.6	766.7	769.9
20°	1672.1	1572.9	1253.9	943.9	812.5	748.1	729.6	735.0	748.1	759.9	764.0
22.5°	1687.5	1550.6	1141.0	856.4	751.3	715.0	714.1	725.5	732.8	738.6	741.8
25°	1701.1	1513.0	1021.4	783.0	701.0	695.2	705.1	701.4	696.5	701.4	704.6
27.5°	1711.0	1453.7	914.4	718.6	665.6	681.5	675.6	667.5	667.0	669.7	674.2
30°	1707.9	1374.3	826.6	657.5	640.7	656.1	642.1	640.7	639.4	640.7	645.8
32.5°	1707.9	1284.2	759.0	615.4	624.8	619.0	617.7	614.5	609.1	608.5	614.5
35°	1717.4	1194.0	701.0	592.7	611.7	597.7	598.6	590.9	579.5	574.1	579.5
37.5°	1736.9	1121.6	643.5	581.8	588.7	588.1	584.6	571.4	551.4	534.2	540.2
40°	1784.0	1100.2	604.0	576.9	577.8	583.2	573.7	548.3	503.0	474.9	478.5
42.5°	1857.9	1136.0	595.4	564.6	570.5	575.9	557.4	498.5	466.3	449.5	449.5
45°	1951.7	1198.5	614.0	546.9	553.3	562.8	507.5	479.4	464.9	465.4	467.6
47.5°	2070.4	1264.2	648.4	531.6	528.4	533.8	474.5	457.3	437.3	442.3	455.0
50°	2207.6	1330.9	681.1	510.7	500.7	483.1	453.2	436.9	411.4	399.6	402.8
52.5°	2356.3	1395.2	694.2	485.3	470.8	450.4	438.6	418.7	387.9	368.4	368.0
55°	2497.2	1453.7	679.7	455.0	440.9	425.1	423.2	411.0	377.9	350.8	350.8
57.5°	2630.5	1502.6	643.5	424.1	410.5	401.0	413.3	407.3	365.7	330.8	329.0
60°	2743.3	1536.2	590.9	392.9	383.3	378.3	397.0	395.1	348.5	309.4	308.1
62.5°	2833.0	1549.3	532.9	363.0	360.7	351.7	374.3	374.3	326.7	288.6	287.3
65°	2903.2	1536.6	474.0	333.5	338.0	324.4	346.7	343.9	303.6	270.1	268.2
67.5°	2965.3	1494.9	408.8	304.5	314.9	297.8	317.6	311.3	278.2	251.5	249.7
70°	2993.0	1397.9	334.5	275.5	288.2	271.4	288.6	276.9	249.7	231.5	228.0
72.5°	2771.0	1161.8	263.3	245.2	256.0	242.4	257.4	243.7	218.8	210.7	203.9
75°	2292.4	871.9	202.5	212.1	220.3	209.8	219.8	209.8	187.2	193.0	176.3
77.5°	1664.8	588.7	155.0	177.2	180.8	175.4	184.0	172.6	152.2	150.9	144.1
80°	827.9	344.8	121.5	140.0	138.7	135.0	145.0	139.6	122.4	129.6	128.2
82.5°	239.7	147.7	88.4	98.3	95.6	96.6	103.7	106.5	159.5	158.2	161.7
85°	75.2	58.0	53.0	54.8	52.1	53.5	61.2	121.5	112.3	65.7	71.1
87.5°	19.5	20.0	13.1	14.0	14.5	17.2	19.5	73.9	35.4	23.1	24.5
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)