

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: P960310

Luminaire Tested: **NAV-SB1C-730-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960310
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-730-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7632.1 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

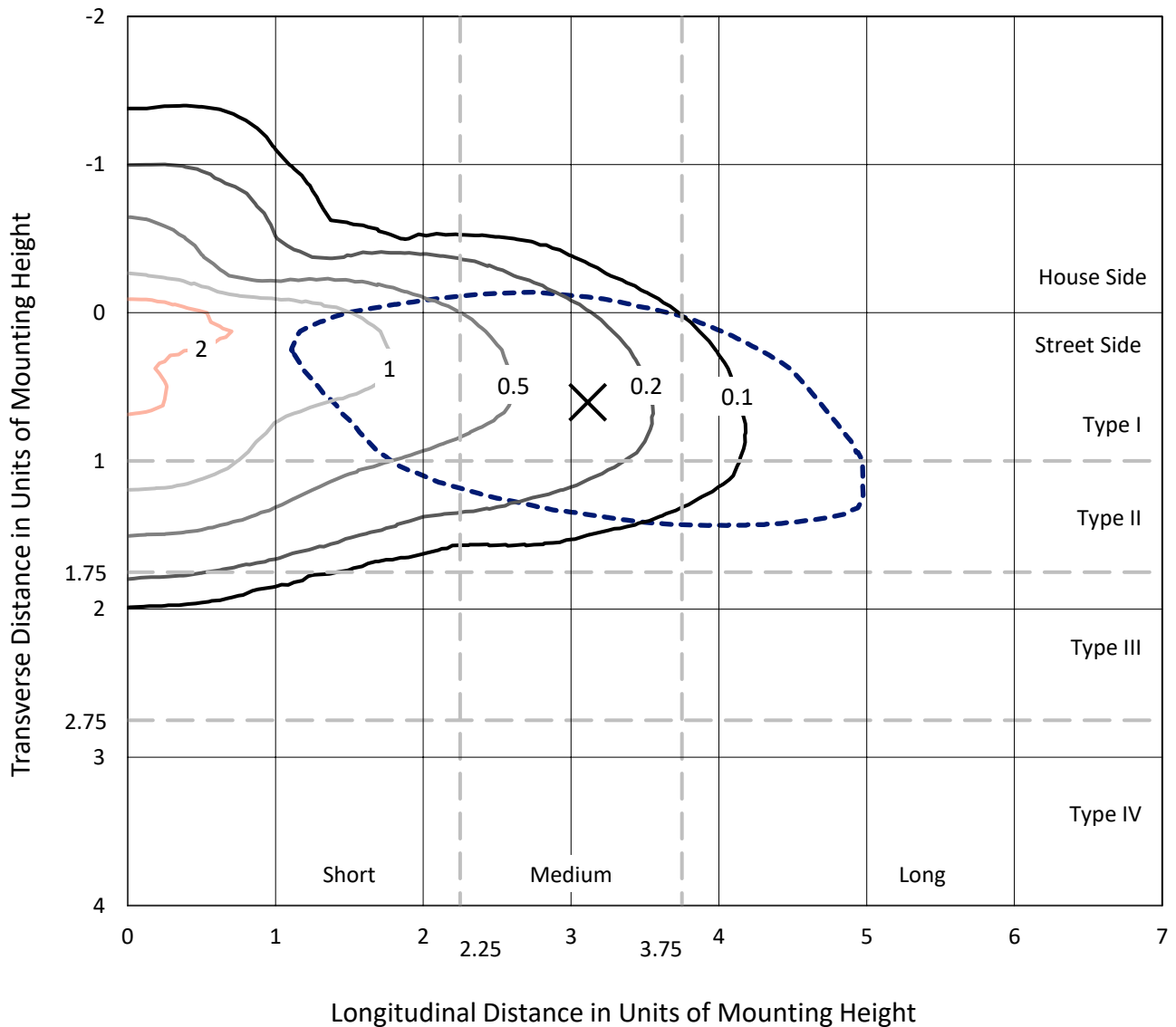
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

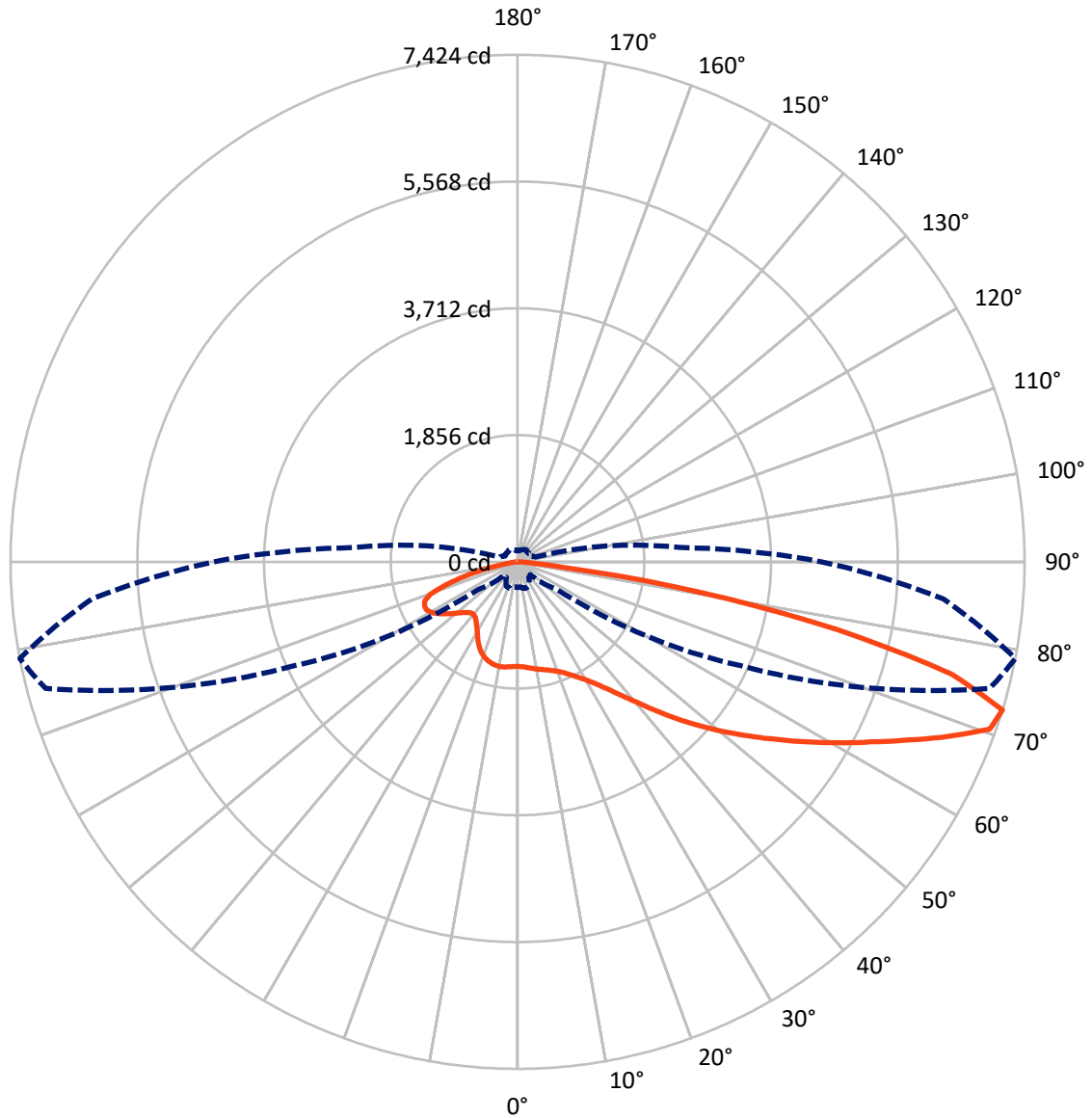
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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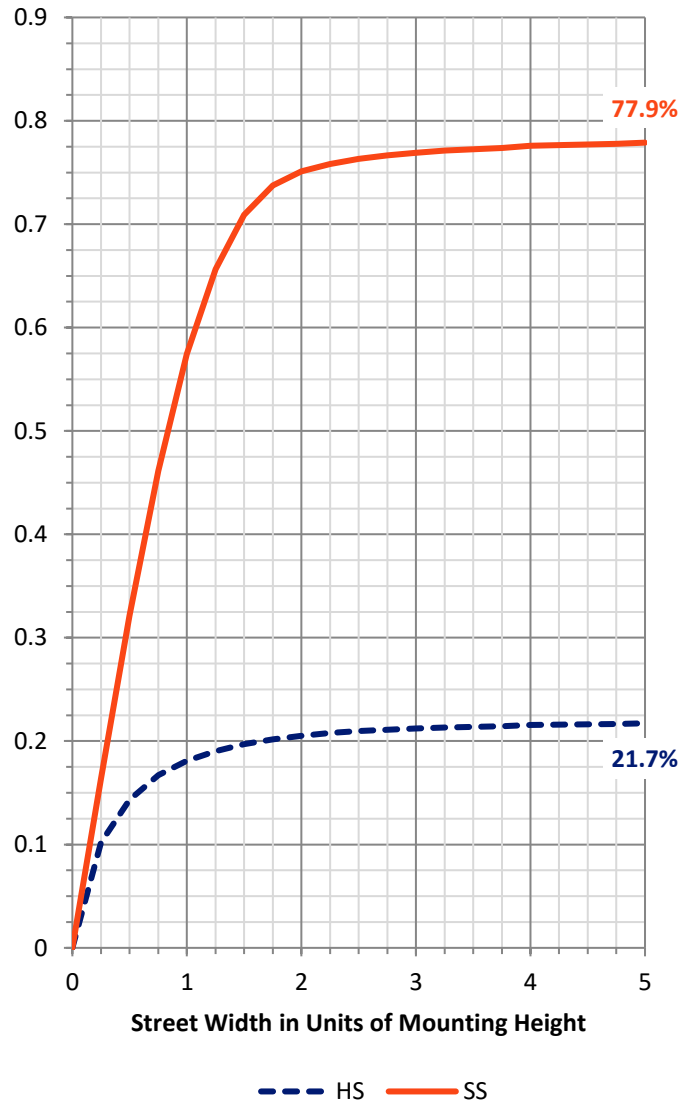
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1679.5	0.0	1679.5
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	5952.7	0.0	5952.7
	% Fixture	78.0	0.0	78.0
Total	Lumens	7632.1	0.0	7632.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.1	1.8
10°-20°	363.6	4.8
20°-30°	586.7	7.7
30°-40°	880.5	11.5
40°-50°	1249.1	16.4
50°-60°	1577.4	20.7
60°-70°	1602.1	21.0
70°-80°	1091.9	14.3
80°-90°	141.7	1.9
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°	7632.1	100.0
0°-180°	7632.1	100.0

Coefficient of Utilization

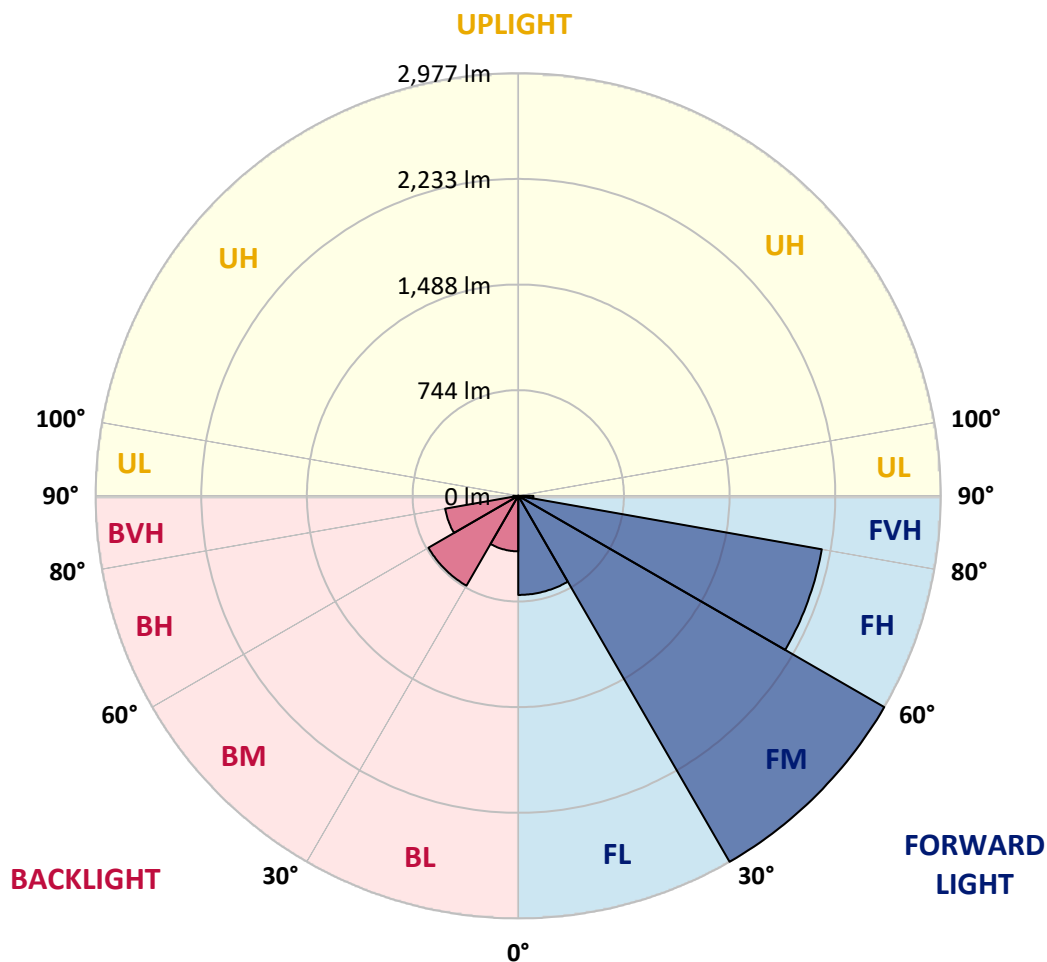


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	698.2	9.1			
FM (30°-60°)	2976.7	39.0			
FH (60°-80°)	2171.1	28.4			G2/5000
FVH (80°-90°)	106.7	1.4			G2/225
BL (0°-30°)	391.2	5.1	B1/500		
BM (30°-60°)	730.4	9.6	B1/1000		
BH (60°-80°)	522.9	6.9	B2/1000		G2/1000
BVH (80°-90°)	34.9	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1532.1	1532.1	1532.1	1532.1	1532.1	1532.1	1532.1	1532.1	1532.1	1532.1	1532.1
2.5°	1532.9	1525.6	1530.0	1528.5	1530.4	1532.9	1533.7	1534.9	1538.9	1538.5	1538.1
5°	1529.7	1522.4	1528.5	1526.4	1531.7	1537.3	1542.2	1546.6	1553.1	1555.9	1551.8
7.5°	1522.8	1517.9	1524.0	1530.0	1539.8	1548.3	1555.1	1565.2	1574.5	1576.0	1578.9
10°	1482.9	1479.2	1493.3	1509.1	1535.8	1558.7	1573.7	1585.4	1595.5	1597.1	1601.2
12.5°	1441.3	1436.8	1452.5	1473.9	1517.1	1558.7	1590.2	1605.6	1614.5	1619.7	1625.8
15°	1434.4	1430.8	1439.6	1458.2	1494.1	1547.9	1601.6	1629.7	1637.4	1643.5	1645.9
17.5°	1467.5	1460.6	1464.2	1470.7	1491.7	1537.7	1610.4	1657.2	1668.9	1675.4	1675.4
20°	1544.2	1534.5	1528.9	1516.0	1512.3	1539.3	1609.6	1690.3	1705.7	1713.8	1715.7
22.5°	1646.4	1639.9	1627.8	1595.1	1559.5	1559.1	1624.9	1732.8	1761.4	1769.0	1764.2
25°	1769.9	1760.1	1744.9	1700.5	1632.2	1598.3	1650.8	1786.8	1834.9	1836.9	1822.8
27.5°	1911.9	1897.5	1876.5	1817.9	1725.9	1659.7	1690.3	1849.0	1919.2	1918.4	1889.4
30°	2061.8	2047.2	2025.0	1954.0	1838.1	1742.4	1745.3	1916.0	2019.4	2014.9	1965.2
32.5°	2171.2	2160.3	2155.8	2100.9	1967.3	1840.1	1808.2	1990.2	2142.9	2138.9	2069.4
35°	2255.1	2241.0	2246.3	2218.4	2108.2	1949.5	1885.3	2078.7	2293.0	2292.7	2206.3
37.5°	2338.3	2325.8	2330.2	2311.7	2238.6	2088.4	1979.4	2186.9	2479.2	2488.1	2371.8
40°	2414.2	2400.9	2418.6	2401.3	2339.9	2236.1	2086.4	2309.2	2694.7	2711.7	2572.0
42.5°	2459.8	2449.3	2478.8	2479.2	2427.9	2360.9	2203.9	2444.1	2944.2	2982.2	2818.3
45°	2475.6	2471.9	2516.4	2525.6	2505.8	2433.1	2309.6	2591.0	3213.2	3280.9	3098.9
47.5°	2458.6	2451.7	2513.1	2547.4	2563.1	2467.1	2397.3	2750.1	3487.7	3587.0	3404.8
50°	2373.0	2359.7	2450.9	2523.1	2579.3	2489.3	2485.6	2933.8	3799.7	3908.3	3712.6
52.5°	2219.2	2209.1	2312.8	2438.4	2543.7	2500.2	2584.9	3134.4	4096.0	4236.5	4027.8
55°	2022.6	2009.3	2123.5	2287.4	2455.4	2496.6	2684.3	3358.8	4445.6	4588.2	4353.6
57.5°	1710.9	1684.3	1828.8	2022.6	2311.3	2492.1	2787.6	3582.2	4800.9	4971.7	4701.2
60°	1256.3	1216.8	1394.0	1623.7	2029.5	2448.9	2915.6	3832.5	5227.3	5381.0	5080.7
62.5°	731.5	708.5	824.4	1038.7	1529.7	2194.5	2987.5	4123.5	5646.3	5807.8	5453.7
65°	568.1	561.6	571.6	588.2	851.5	1643.1	2765.9	4407.3	6179.2	6292.3	5842.5
67.5°	519.6	514.8	519.2	488.1	431.9	915.2	2188.1	4479.1	6750.0	6818.7	6182.8
70°	461.9	456.2	470.7	444.1	339.9	416.3	1413.8	4218.4	7204.2	7333.0	6441.6
72.5°	376.3	369.8	403.7	391.5	286.2	267.2	710.1	3598.7	7156.6	7423.9	6256.3
75°	289.0	285.5	325.7	335.9	233.4	210.3	340.7	2674.9	6297.9	6567.2	5391.9
77.5°	224.5	221.6	242.2	279.0	188.1	163.1	209.5	1696.8	4746.1	4793.2	3715.7
80°	168.3	160.3	179.3	216.0	146.6	119.1	142.1	989.5	3000.0	2719.4	1617.2
82.5°	105.4	101.4	117.1	144.1	103.3	82.0	92.5	546.6	1202.2	708.1	312.1
85°	60.2	58.5	63.8	82.3	56.1	47.3	52.9	241.4	219.7	151.0	94.1
87.5°	24.2	23.4	29.1	36.7	20.6	17.3	18.6	58.1	48.5	44.8	31.1
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°	1532.1	1532.1	1532.1	1532.1	1532.1	1532.1	1532.1	1532.1	1532.1	1532.1	1532.1
2.5°	1536.5	1536.5	1530.8	1522.0	1511.9	1505.4	1495.0	1492.1	1481.2	1477.9	1483.3
5°	1555.1	1551.8	1534.5	1509.5	1475.2	1443.7	1409.0	1387.1	1356.5	1345.5	1353.6
7.5°	1578.5	1569.6	1539.8	1484.8	1413.0	1342.3	1268.8	1213.2	1159.9	1140.9	1143.3
10°	1599.9	1587.4	1536.5	1440.4	1316.1	1193.8	1076.7	994.8	932.5	907.1	912.8
12.5°	1621.3	1598.3	1515.2	1366.5	1178.4	1012.5	887.8	824.0	785.7	754.9	765.1
15°	1641.5	1609.1	1482.0	1267.6	1027.5	859.1	767.0	716.2	685.5	665.3	668.9
17.5°	1664.9	1618.5	1432.3	1142.1	883.8	753.0	677.8	647.2	641.1	638.7	640.3
20°	1697.6	1627.0	1366.9	1001.6	778.0	668.1	629.3	626.6	626.2	624.9	628.9
22.5°	1732.8	1637.0	1280.5	874.0	687.9	615.2	608.4	602.7	599.1	598.7	603.1
25°	1774.3	1640.3	1172.4	769.5	611.2	590.2	582.2	573.7	571.2	571.2	573.7
27.5°	1814.7	1629.3	1046.4	678.7	568.1	567.2	556.7	553.9	553.5	554.7	557.9
30°	1855.0	1608.7	921.3	594.7	542.9	542.9	539.4	541.4	542.9	547.0	549.8
32.5°	1909.6	1587.0	816.7	532.5	521.2	517.1	520.8	524.8	526.4	531.7	536.2
35°	1989.5	1571.6	733.6	498.6	498.6	493.3	495.4	494.6	490.9	488.5	494.2
37.5°	2095.3	1570.8	664.9	482.9	479.6	478.8	479.2	474.0	459.8	442.9	443.3
40°	2222.4	1592.6	612.0	471.9	469.6	474.4	471.9	457.8	419.0	389.6	388.8
42.5°	2393.2	1654.8	578.1	458.6	465.9	471.9	462.3	413.4	387.1	367.4	366.5
45°	2594.3	1755.7	560.8	444.4	459.0	466.3	419.4	398.0	377.1	353.2	351.7
47.5°	2821.9	1882.9	556.7	431.1	443.7	448.1	401.3	391.5	367.8	341.9	339.9
50°	3069.8	2033.5	567.6	415.4	421.5	406.1	395.2	386.3	361.7	336.3	333.4
52.5°	3326.1	2199.4	589.4	394.0	399.2	382.3	392.8	385.1	358.1	323.8	321.3
55°	3578.1	2366.5	610.4	369.0	376.7	360.9	385.9	380.3	341.5	302.8	300.7
57.5°	3834.0	2532.9	631.0	346.8	354.9	340.3	375.0	367.4	323.0	283.4	282.6
60°	4100.1	2694.3	640.7	325.4	331.1	321.3	358.5	345.2	302.0	263.6	262.4
62.5°	4349.2	2828.8	624.9	304.0	307.6	303.6	336.7	319.0	281.0	241.4	241.0
65°	4599.1	2908.7	576.5	283.0	283.8	281.8	306.0	290.7	256.4	222.0	219.7
67.5°	4825.6	2953.5	499.4	260.3	258.4	257.6	277.4	259.9	232.6	202.6	200.3
70°	4873.6	2839.7	381.5	233.7	233.7	231.8	245.9	228.1	206.3	182.0	181.2
72.5°	4451.3	2388.8	270.9	203.5	206.7	202.6	214.3	199.5	179.7	163.5	158.7
75°	3589.3	1751.7	197.0	172.4	178.0	171.2	182.0	171.6	154.6	154.3	138.9
77.5°	2466.3	1083.1	142.9	142.1	146.2	137.2	149.8	144.1	128.7	121.9	114.3
80°	1052.5	431.9	104.1	109.8	109.8	101.8	116.2	117.9	104.6	101.4	101.4
82.5°	209.5	122.7	73.1	75.5	71.0	68.7	82.3	91.2	126.0	140.1	140.5
85°	62.9	45.2	44.0	41.2	36.3	36.7	48.5	91.6	113.1	64.6	55.8
87.5°	17.3	11.3	11.7	9.3	7.7	10.0	16.5	69.4	37.9	16.2	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

(END OF REPORT)