

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: P963959

Luminaire Tested: **NAV-SB3B-722-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963959
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-722-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11019.8 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

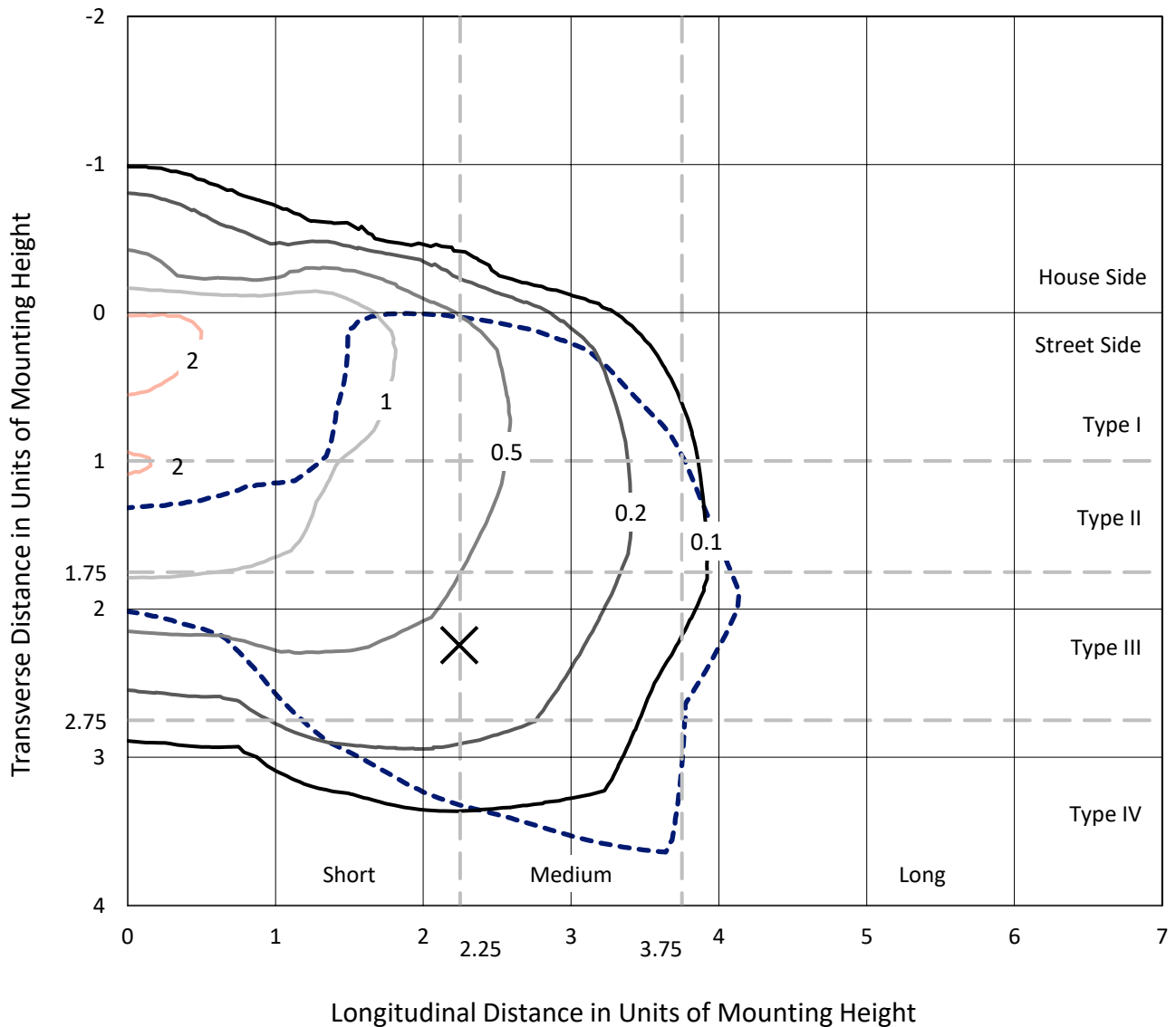
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

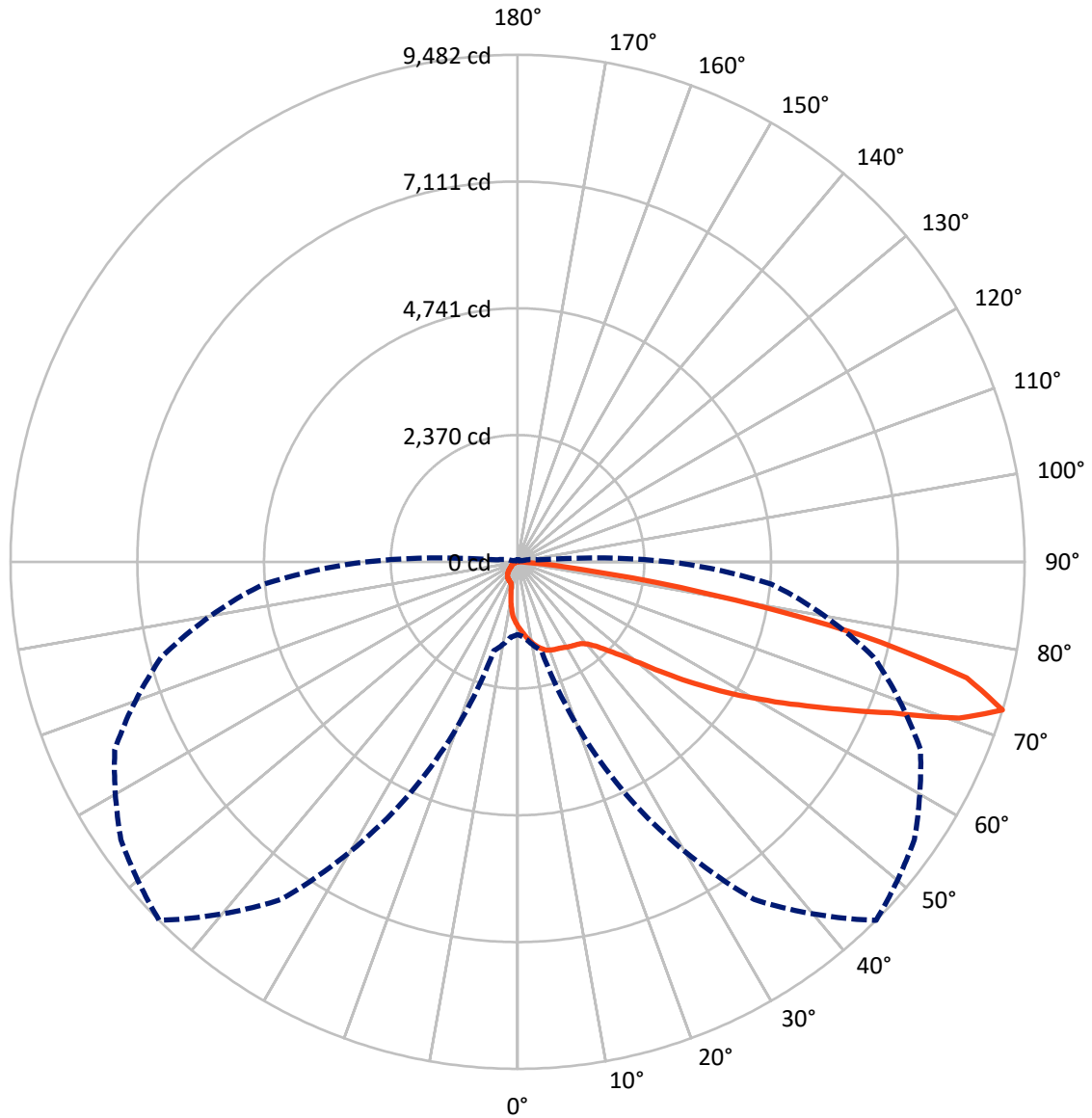
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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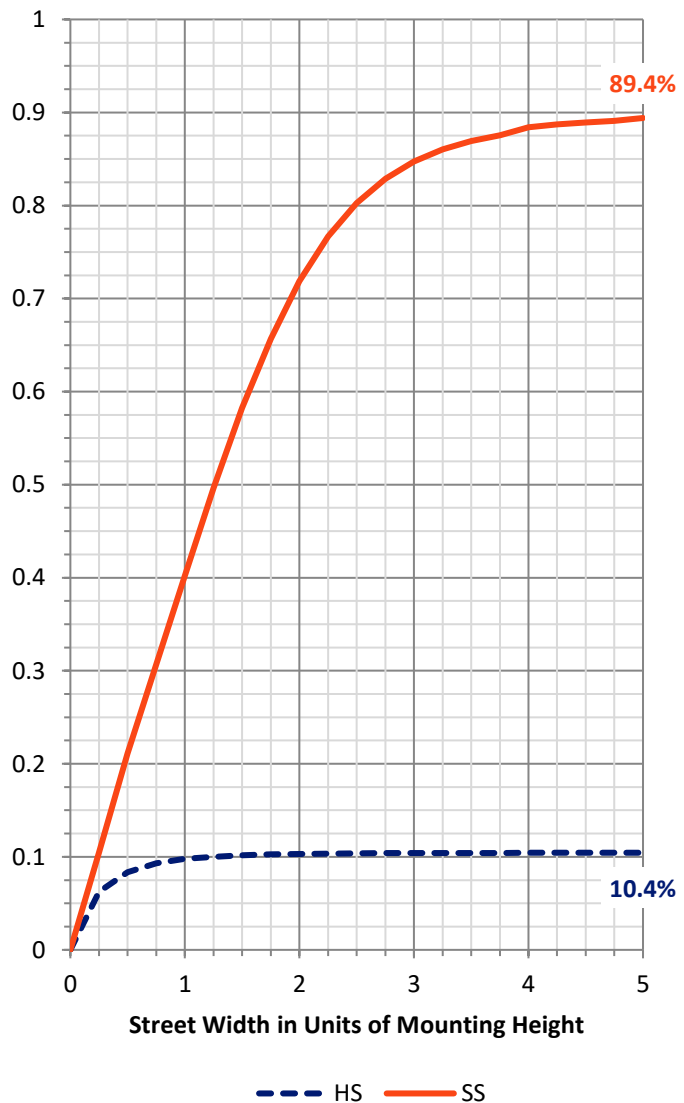
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1157.9	0.0	1157.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	9861.9	0.0	9861.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	11019.8	0.0	11019.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.7	1.0
10°-20°	332.4	3.0
20°-30°	545.9	5.0
30°-40°	774.2	7.0
40°-50°	1279.7	11.6
50°-60°	2298.9	20.9
60°-70°	3192.1	29.0
70°-80°	2315.4	21.0
80°-90°	167.4	1.5
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°	11019.8	100.0
0°-180°	11019.8	100.0

Coefficient of Utilization



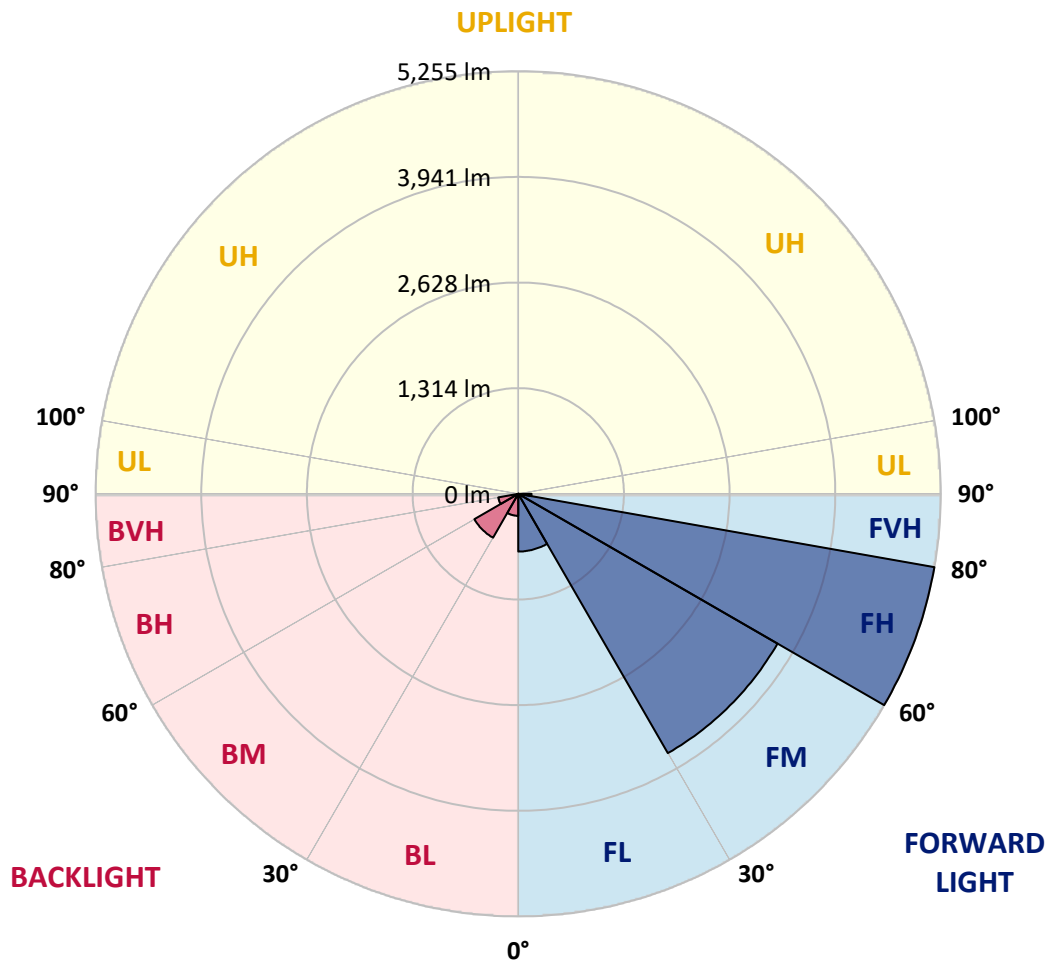
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	717.8	6.5			
FM (30°-60°)	3723.1	33.8			
FH (60°-80°)	5255.0	47.7			G3/7500
FVH (80°-90°)	166.0	1.5			G2/225
BL (0°-30°)	274.3	2.5	B1/500		
BM (30°-60°)	629.7	5.7	B1/1000		
BH (60°-80°)	252.5	2.3	B1/500		G1/500
BVH (80°-90°)	1.4	0.0			G0/10
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2
2.5°	1318.6	1320.8	1319.3	1310.3	1295.3	1287.0	1282.5	1267.4	1257.7	1240.4	1222.3
5°	1439.6	1448.7	1443.4	1425.4	1396.8	1376.5	1370.4	1339.6	1311.8	1279.4	1241.9
7.5°	1568.2	1572.8	1563.0	1539.7	1501.3	1466.8	1461.4	1418.6	1374.2	1324.6	1273.5
10°	1679.6	1684.9	1669.8	1636.0	1592.3	1549.5	1541.9	1494.6	1441.9	1381.0	1315.6
12.5°	1772.8	1778.2	1758.6	1718.0	1669.8	1625.4	1618.0	1568.2	1510.3	1442.7	1361.4
15°	1843.6	1853.4	1827.1	1783.4	1731.5	1687.2	1683.4	1634.5	1578.1	1502.9	1416.3
17.5°	1885.0	1894.7	1869.9	1817.2	1772.8	1735.2	1730.7	1690.1	1637.4	1565.3	1469.7
20°	1891.7	1900.8	1874.4	1828.5	1791.7	1761.6	1759.3	1730.0	1691.7	1622.5	1527.7
22.5°	1871.4	1882.7	1858.6	1821.7	1796.2	1780.4	1777.4	1760.8	1739.0	1680.4	1581.8
25°	1850.3	1859.4	1841.3	1809.0	1795.4	1794.0	1796.2	1793.1	1788.6	1739.0	1645.0
27.5°	1848.9	1858.6	1838.3	1807.5	1800.0	1815.8	1818.0	1832.3	1836.1	1792.4	1705.9
30°	1861.6	1868.4	1848.9	1816.5	1812.7	1848.9	1849.6	1875.1	1881.2	1837.5	1766.1
32.5°	1889.5	1897.0	1877.4	1830.0	1824.8	1875.1	1877.4	1911.3	1921.1	1885.7	1829.3
35°	1954.9	1963.9	1941.4	1867.7	1848.9	1900.0	1906.8	1946.6	1966.2	1936.8	1894.7
37.5°	2118.2	2091.8	2061.0	1943.6	1903.7	1939.1	1950.4	1997.0	2031.7	1997.7	1972.9
40°	2523.5	2440.8	2344.5	2073.0	2000.1	2022.6	2031.7	2078.3	2125.6	2092.5	2080.5
42.5°	3132.1	3034.3	2879.3	2370.8	2145.2	2156.5	2163.3	2203.9	2270.8	2244.4	2247.5
45°	3674.4	3639.1	3481.1	2879.3	2416.7	2361.1	2369.4	2390.4	2488.9	2479.2	2498.7
47.5°	4091.1	4070.8	3948.9	3463.0	2875.5	2611.6	2634.9	2644.6	2786.8	2821.4	2874.1
50°	4411.5	4404.0	4295.0	3982.0	3475.1	2980.9	2989.1	2968.1	3181.0	3266.7	3366.7
52.5°	4713.9	4739.5	4658.9	4464.2	4115.2	3464.5	3463.0	3363.7	3651.0	3780.4	3951.2
55°	4986.9	4996.0	5004.3	4956.1	4759.0	4015.1	4000.8	3838.3	4196.3	4330.3	4515.3
57.5°	5243.4	5247.2	5320.9	5419.4	5429.2	4606.3	4580.0	4385.2	4792.1	4887.6	5001.2
60°	5415.7	5432.9	5588.6	5862.5	5982.0	5216.3	5202.1	5003.4	5398.4	5442.7	5421.6
62.5°	5167.4	5272.7	5665.4	6208.4	6504.0	5892.5	5885.8	5699.2	6036.2	6000.1	5819.5
65°	4182.8	4361.1	5051.6	6442.3	7016.3	6647.7	6657.5	6458.9	6691.3	6574.0	6143.0
67.5°	2926.0	3114.1	3930.9	6461.2	7588.7	7534.6	7590.9	7279.6	7387.1	7123.9	6219.7
70°	2023.4	2120.4	2652.2	6056.5	8034.8	8756.1	8754.5	8287.4	8079.2	7374.4	5828.6
72.5°	1360.7	1411.1	1722.5	4804.9	7706.8	9481.9	9438.3	9057.7	8312.2	6896.7	4762.0
75°	573.9	610.8	797.3	2700.3	6097.1	8674.8	8556.7	8004.6	7385.6	5430.7	2971.1
77.5°	182.0	197.8	314.4	966.6	3358.4	6520.6	6395.7	4998.9	4950.0	2724.3	1086.1
80°	86.5	100.8	176.7	388.2	1321.5	3546.5	3529.2	2267.8	2129.4	735.6	218.1
82.5°	37.6	44.4	97.8	207.6	591.2	1265.2	1290.7	771.7	638.6	279.1	66.9
85°	12.0	15.8	45.1	95.5	249.7	314.4	310.7	183.6	257.3	151.9	23.3
87.5°	0.0	0.0	15.1	21.8	25.6	18.0	20.3	15.8	71.4	42.1	8.3
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°	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2
2.5°	1213.3	1201.2	1180.2	1160.6	1143.3	1126.0	1115.5	1100.4	1098.9	1098.9	1102.7
5°	1221.5	1202.0	1164.4	1124.5	1078.6	1034.9	991.4	949.3	935.7	925.9	930.4
7.5°	1245.6	1214.7	1155.4	1079.3	992.1	896.6	829.6	757.5	729.6	714.5	716.8
10°	1280.2	1238.1	1147.8	1014.6	873.3	743.1	647.6	569.4	539.4	526.5	526.5
12.5°	1318.6	1266.7	1134.3	934.2	743.1	587.4	494.2	458.1	453.6	453.6	453.6
15°	1364.5	1301.2	1111.0	839.5	607.0	464.8	431.7	433.3	437.8	440.7	440.7
17.5°	1411.8	1338.1	1074.1	733.4	486.7	418.2	418.9	421.2	425.0	427.9	427.9
20°	1463.0	1374.9	1025.2	620.5	417.5	404.7	406.9	409.2	412.2	413.7	414.4
22.5°	1517.9	1409.6	967.3	509.9	394.1	393.4	394.1	396.4	400.2	400.2	401.7
25°	1576.6	1447.9	901.1	429.5	382.1	382.1	383.7	385.1	388.2	388.2	388.9
27.5°	1636.7	1483.3	831.2	387.3	371.6	370.8	370.8	373.1	374.5	375.4	376.1
30°	1702.9	1524.7	761.2	378.3	363.3	359.6	357.3	358.7	360.3	361.0	362.5
32.5°	1770.6	1564.6	698.7	382.1	355.1	348.3	340.7	339.3	339.3	342.2	344.5
35°	1845.8	1608.1	650.7	394.9	350.5	331.7	319.7	312.9	313.6	318.2	320.4
37.5°	1936.1	1660.8	615.3	406.2	347.5	312.9	293.4	285.1	279.8	285.1	283.6
40°	2054.2	1738.3	589.7	415.2	343.8	291.1	264.8	251.2	241.5	244.5	242.9
42.5°	2227.9	1860.2	579.9	415.9	335.5	265.5	235.4	217.4	203.1	203.9	200.8
45°	2471.7	2052.7	630.3	406.2	317.4	237.7	204.6	180.5	171.5	169.2	166.3
47.5°	2805.6	2333.2	746.9	385.9	291.1	210.6	174.5	154.2	147.4	143.7	141.4
50°	3253.1	2693.5	876.3	363.3	264.8	185.0	149.6	136.9	132.4	128.6	127.9
52.5°	3772.2	3059.1	982.4	340.7	238.4	162.5	133.9	126.4	122.6	119.6	118.8
55°	4248.3	3311.1	976.3	316.6	212.9	144.4	122.6	118.1	113.6	110.6	109.1
57.5°	4544.6	3346.4	804.8	290.4	183.6	130.2	112.0	109.1	103.8	100.0	99.3
60°	4680.8	3144.8	564.2	255.7	154.2	116.5	100.8	99.3	92.6	87.2	85.8
62.5°	4705.6	2770.3	376.1	212.9	128.6	103.8	89.5	87.2	78.2	69.2	64.7
65°	4604.8	2234.7	260.2	166.3	109.8	90.3	76.8	72.2	62.4	53.4	50.4
67.5°	4285.9	1569.1	181.3	119.6	93.3	71.4	60.9	59.4	51.9	44.4	42.1
70°	3701.5	894.3	121.1	89.5	73.7	48.9	48.2	49.6	42.1	36.1	33.1
72.5°	2837.9	409.2	75.2	65.4	50.4	33.1	38.3	39.2	32.4	27.1	24.1
75°	1670.5	175.3	47.4	42.1	25.6	21.8	27.9	28.6	21.8	17.3	15.1
77.5°	568.7	66.2	30.1	24.8	12.8	12.0	18.0	18.0	12.0	6.8	5.2
80°	129.4	24.8	15.1	9.7	6.0	5.2	6.0	5.2	3.0	0.7	0.0
82.5°	36.9	9.7	6.0	3.8	2.3	2.3	0.7	0.0	0.0	0.0	0.0
85°	10.6	4.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)