

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: P963952

Luminaire Tested: **NAV-SB3B-722-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963952
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-722-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14174.7 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

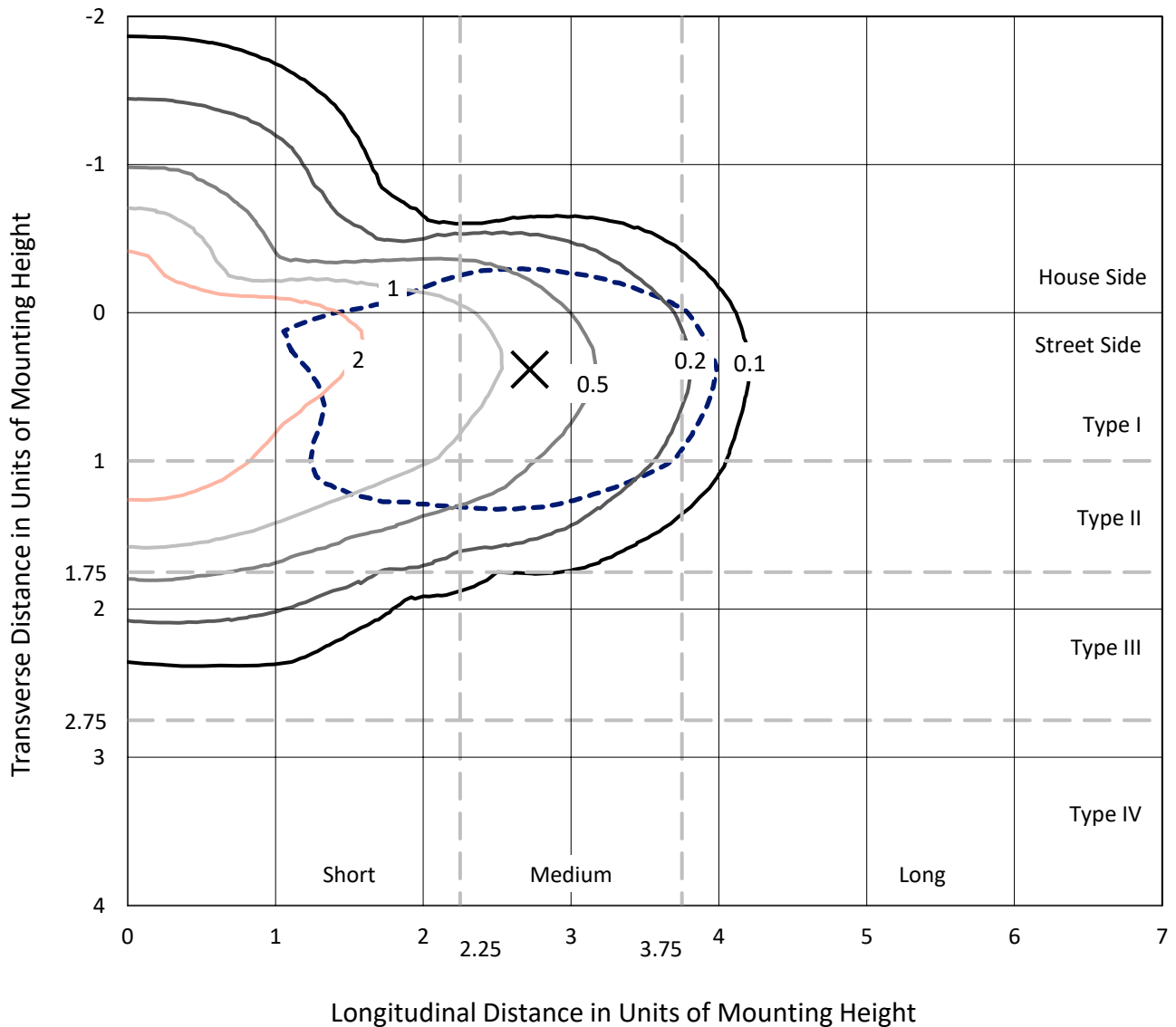
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

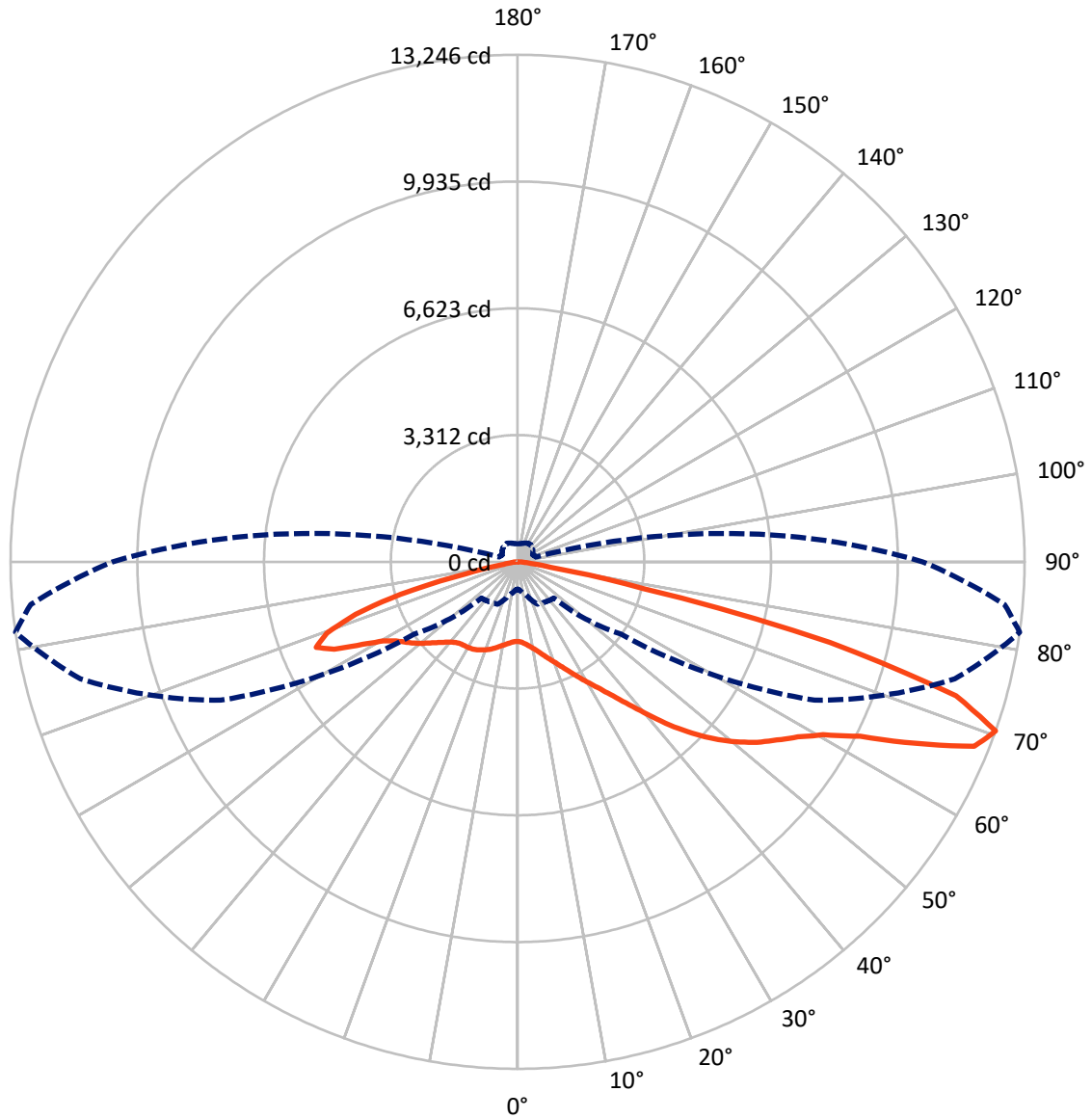
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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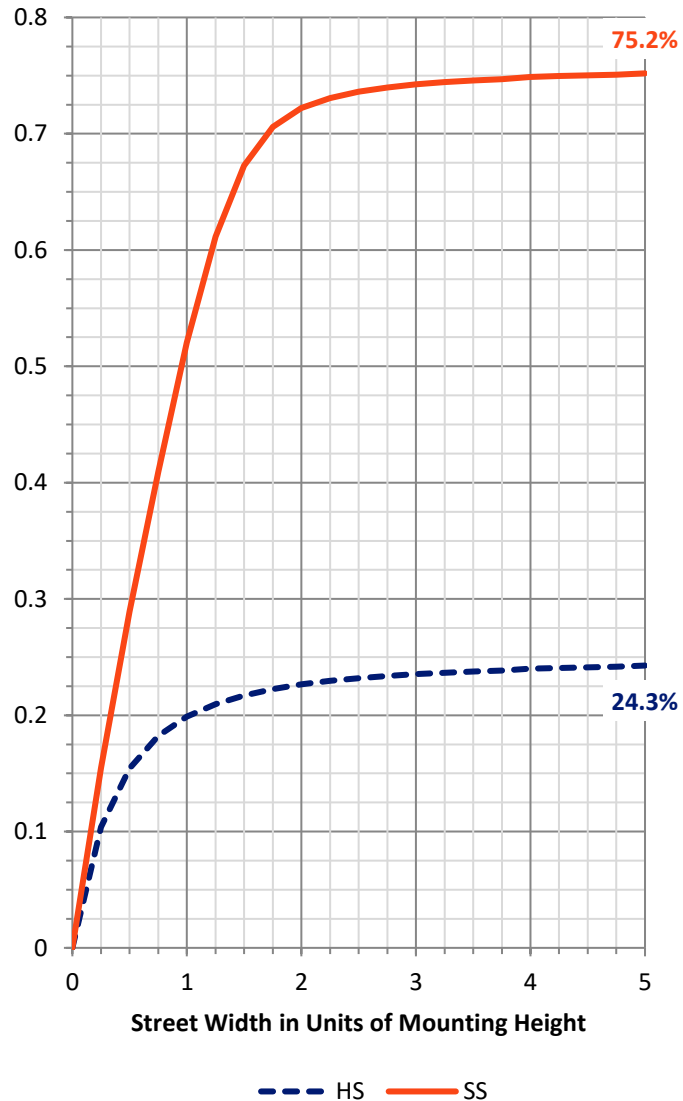
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3494.4	0.0	3494.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	10680.3	0.0	10680.3
	% Fixture	75.3	0.0	75.3
Total	Lumens	14174.7	0.0	14174.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.2	1.4
10°-20°	563.7	4.0
20°-30°	943.1	6.7
30°-40°	1473.3	10.4
40°-50°	2346.5	16.6
50°-60°	3265.4	23.0
60°-70°	3415.8	24.1
70°-80°	1785.3	12.6
80°-90°	185.4	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°	14174.7	100.0
0°-180°	14174.7	100.0

Coefficient of Utilization

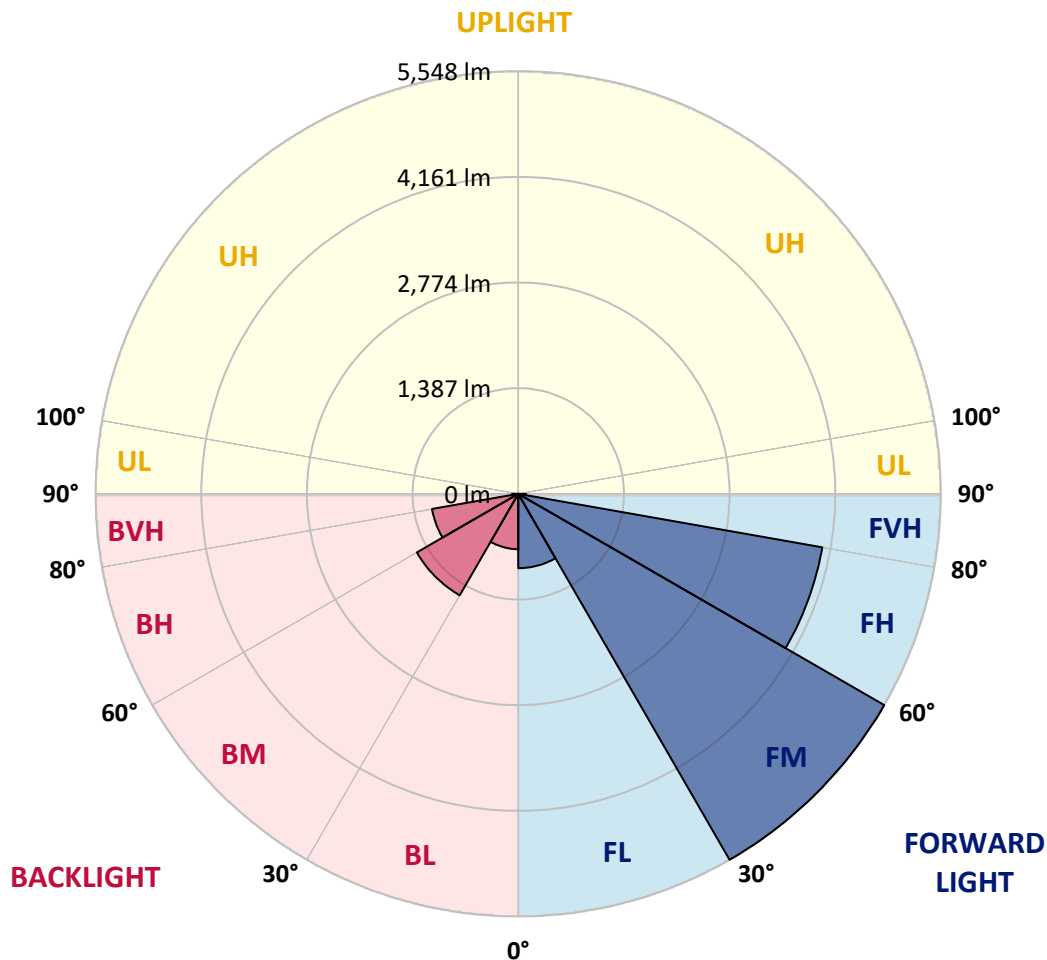


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	976.1	6.9			
FM (30°-60°)	5547.8	39.1			
FH (60°-80°)	4052.6	28.6			G2/5000
FVH (80°-90°)	103.8	0.7			G2/225
BL (0°-30°)	727.0	5.1	B2/1000		
BM (30°-60°)	1537.4	10.8	B2/2500		
BH (60°-80°)	1148.4	8.1	B3/2500		G3/2500
BVH (80°-90°)	81.6	0.6			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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2
2.5°	2127.8	2139.9	2136.1	2132.3	2132.3	2127.1	2126.4	2118.8	2112.8	2103.0	2100.7
5°	2155.0	2167.7	2166.2	2169.2	2178.9	2181.2	2183.5	2178.9	2167.0	2155.0	2149.6
7.5°	2130.9	2145.1	2149.6	2167.7	2197.8	2224.9	2245.2	2253.5	2242.2	2224.9	2216.6
10°	2049.6	2065.4	2081.2	2124.1	2177.5	2241.4	2295.6	2327.9	2325.6	2309.1	2294.8
12.5°	1884.9	1901.5	1935.3	2018.7	2116.5	2229.4	2330.1	2397.9	2421.2	2409.2	2384.4
15°	1753.3	1767.5	1793.1	1878.8	2006.0	2177.5	2342.9	2474.6	2534.0	2527.2	2497.1
17.5°	1749.5	1755.5	1771.3	1811.9	1909.7	2096.2	2329.4	2549.8	2663.4	2662.6	2625.0
20°	1815.7	1817.9	1827.0	1835.3	1890.9	2034.5	2294.8	2612.2	2808.5	2808.5	2767.9
22.5°	1907.4	1906.0	1915.0	1907.4	1934.5	2029.3	2273.0	2667.2	2970.2	2982.2	2931.1
25°	2045.1	2037.6	2035.3	2018.0	2023.2	2078.2	2297.0	2729.6	3162.0	3186.8	3123.0
27.5°	2228.7	2216.6	2208.4	2168.5	2155.0	2178.9	2370.8	2804.8	3375.6	3418.5	3337.3
30°	2467.8	2446.0	2434.0	2364.8	2315.9	2319.7	2482.1	2904.8	3599.1	3668.3	3565.2
32.5°	2794.3	2760.4	2728.0	2614.5	2525.0	2495.7	2625.7	3043.2	3841.2	3951.8	3819.5
35°	3159.8	3132.7	3098.1	2922.9	2785.2	2717.5	2819.8	3236.5	4124.8	4300.1	4127.8
37.5°	3511.8	3488.5	3505.0	3268.8	3091.3	2992.8	3074.1	3496.0	4474.5	4733.2	4514.4
40°	3875.8	3857.8	3860.0	3634.3	3427.6	3317.0	3382.4	3821.7	4875.4	5248.5	4979.2
42.5°	4271.5	4258.0	4212.8	4012.8	3780.3	3677.3	3737.5	4197.8	5305.7	5835.2	5489.2
45°	4714.5	4706.2	4664.1	4434.7	4168.4	4052.5	4133.8	4612.9	5738.2	6387.3	6001.4
47.5°	5097.3	5104.1	5098.9	4905.5	4629.5	4459.5	4556.5	5046.2	6140.6	6906.2	6492.6
50°	5281.6	5317.0	5368.8	5308.7	5137.2	4964.2	4983.0	5464.4	6524.1	7392.9	6963.4
52.5°	5185.4	5252.3	5393.7	5489.9	5556.1	5520.0	5469.6	5879.6	6885.2	7832.1	7408.7
55°	4826.5	4920.6	5155.2	5387.6	5725.3	5987.8	6054.1	6339.8	7237.2	8218.8	7829.9
57.5°	4173.0	4325.6	4536.2	5006.3	5575.0	6214.3	6735.5	6978.4	7610.2	8631.7	8270.6
60°	3052.2	3256.8	3518.5	4218.1	5048.4	6093.2	7315.4	7959.2	8140.6	9166.5	8844.5
62.5°	1953.3	2079.7	2320.4	2979.3	3933.7	5472.7	7493.0	9185.2	9039.4	10043.5	9705.0
65°	1337.3	1418.6	1639.0	2009.0	2543.0	4073.7	7017.6	10104.3	10466.9	11433.5	11176.2
67.5°	971.8	1033.4	1221.5	1545.7	1657.0	2410.6	5445.6	10062.2	11854.6	12865.5	12465.4
70°	708.5	752.1	910.1	1221.5	1274.9	1341.1	3299.0	8553.4	11824.6	13246.1	12767.0
72.5°	525.0	555.0	661.1	947.7	1032.0	905.6	1632.9	6216.5	10160.8	11981.0	11596.6
75°	379.9	402.4	480.6	725.1	825.8	689.7	814.6	3632.9	7087.5	8427.9	8495.5
77.5°	290.3	307.6	358.7	531.1	661.1	517.5	505.4	1671.3	3360.6	3377.2	3566.7
80°	233.2	244.5	272.2	373.8	507.0	387.3	329.4	674.7	1062.0	898.8	943.2
82.5°	171.5	190.3	230.1	262.5	362.5	267.0	200.8	340.7	404.0	347.5	350.5
85°	97.8	110.6	139.2	188.1	231.6	163.2	115.1	151.2	188.1	154.2	137.7
87.5°	34.6	45.1	48.9	73.7	100.8	67.6	44.4	43.7	61.7	45.9	38.3
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°	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2
2.5°	2093.3	2089.5	2074.4	2054.1	2033.1	2012.8	2006.0	1991.7	1981.9	1976.6	1982.7
5°	2135.4	2123.3	2087.9	2042.8	1995.5	1944.3	1908.2	1875.1	1851.0	1828.5	1837.5
7.5°	2195.5	2174.4	2113.5	2034.5	1950.4	1865.3	1802.2	1754.0	1721.7	1700.6	1705.1
10°	2265.5	2233.2	2139.9	2021.8	1891.6	1769.8	1695.4	1653.9	1633.6	1622.4	1625.4
12.5°	2345.9	2300.1	2167.0	1992.5	1802.2	1663.0	1611.8	1599.8	1600.5	1601.4	1602.8
15°	2445.2	2381.3	2188.8	1928.5	1685.6	1581.1	1572.0	1591.5	1611.8	1621.7	1620.9
17.5°	2557.3	2467.1	2192.5	1823.2	1571.2	1528.4	1557.0	1599.1	1630.0	1643.5	1646.5
20°	2677.6	2554.3	2165.4	1674.3	1477.2	1485.5	1536.7	1590.8	1624.6	1641.9	1646.5
22.5°	2815.3	2647.6	2100.7	1517.8	1400.5	1438.9	1499.1	1551.6	1587.0	1604.3	1608.8
25°	2972.5	2752.1	1999.3	1386.2	1334.3	1386.2	1446.4	1490.0	1518.6	1534.4	1538.9
27.5°	3147.0	2861.2	1863.9	1281.7	1276.4	1332.1	1381.7	1415.5	1430.6	1442.6	1447.1
30°	3322.2	2960.5	1699.9	1202.7	1226.0	1278.7	1314.0	1329.0	1333.5	1335.8	1341.1
32.5°	3511.8	3046.2	1527.7	1137.2	1177.8	1226.7	1247.8	1254.6	1233.5	1219.2	1223.7
35°	3741.1	3137.9	1359.1	1085.4	1130.5	1172.6	1179.4	1173.3	1148.5	1119.2	1120.7
37.5°	4024.8	3252.3	1224.5	1048.5	1086.1	1114.0	1105.7	1104.1	1106.4	1071.8	1074.1
40°	4372.2	3401.3	1126.0	1019.9	1050.0	1056.1	1032.7	1045.5	1056.8	1004.1	1005.6
42.5°	4758.2	3580.9	1063.5	1000.4	1019.9	1005.6	969.5	983.8	982.3	913.1	912.4
45°	5151.4	3776.5	1041.7	986.0	992.1	963.5	923.6	927.4	895.8	833.4	835.7
47.5°	5542.6	3986.4	1055.2	974.1	957.5	925.2	894.3	877.8	831.2	784.5	784.5
50°	5926.2	4206.8	1104.9	950.0	910.1	891.3	868.7	839.4	789.8	749.9	746.9
52.5°	6281.9	4428.6	1160.6	910.1	850.6	861.9	847.7	813.8	765.0	724.4	725.1
55°	6618.9	4650.5	1182.3	855.2	795.0	836.4	828.1	765.7	707.0	673.9	671.0
57.5°	6986.0	4917.5	1158.4	785.3	749.9	807.1	775.5	706.2	672.4	647.6	645.3
60°	7494.4	5336.5	1106.4	698.7	707.0	763.4	709.3	680.7	643.8	616.0	614.5
62.5°	8339.1	6118.0	1023.0	613.1	656.6	698.7	677.7	649.1	611.5	584.5	584.5
65°	9587.6	7204.1	865.7	546.0	600.2	635.6	643.8	615.3	576.2	547.6	549.1
67.5°	10640.6	7885.5	655.1	490.4	542.3	584.5	607.7	579.9	538.5	510.8	511.5
70°	10582.7	7390.7	500.2	435.5	491.2	534.0	564.2	542.3	497.9	471.6	473.9
72.5°	9399.7	6182.7	404.7	379.9	439.2	481.3	517.5	500.9	455.8	430.2	430.2
75°	6905.5	4388.8	323.4	323.4	374.5	426.5	466.4	455.8	414.4	396.4	391.1
77.5°	2910.8	1841.3	253.5	268.5	311.4	366.3	415.9	419.7	383.6	406.2	368.6
80°	774.0	507.7	193.3	211.4	244.5	302.4	361.8	360.3	321.1	300.1	279.0
82.5°	294.9	200.1	137.7	148.9	176.7	231.6	286.6	295.6	256.5	221.9	221.9
85°	113.6	85.8	85.0	89.5	103.0	153.4	216.6	224.2	193.3	164.0	169.2
87.5°	29.3	25.5	31.6	30.1	47.4	82.0	124.1	128.6	118.1	68.5	97.8
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)