

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: P965533

Luminaire Tested: **NAV-SB4A-722-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965533
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-SB4A-722-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15082.9 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

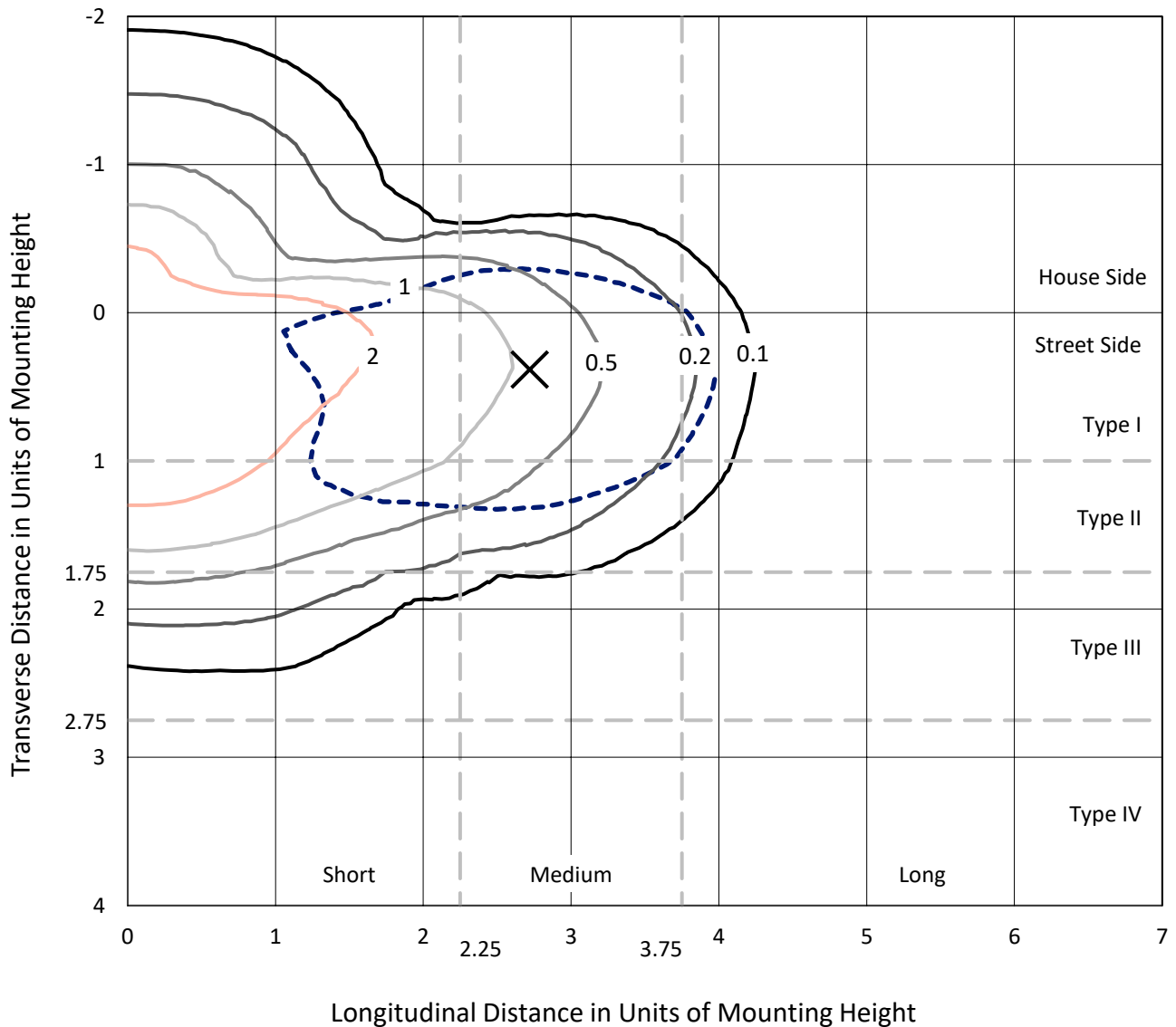
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

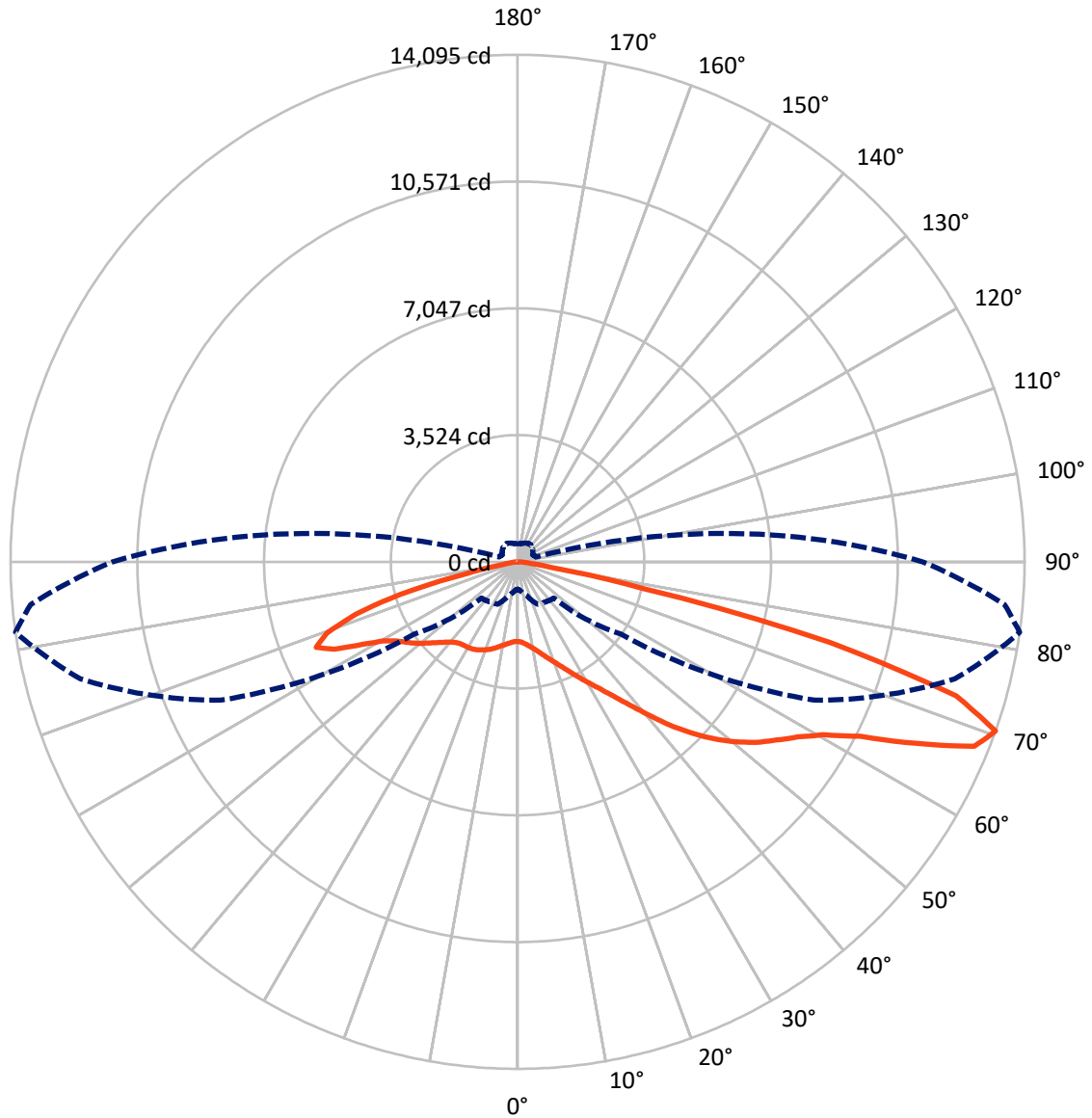
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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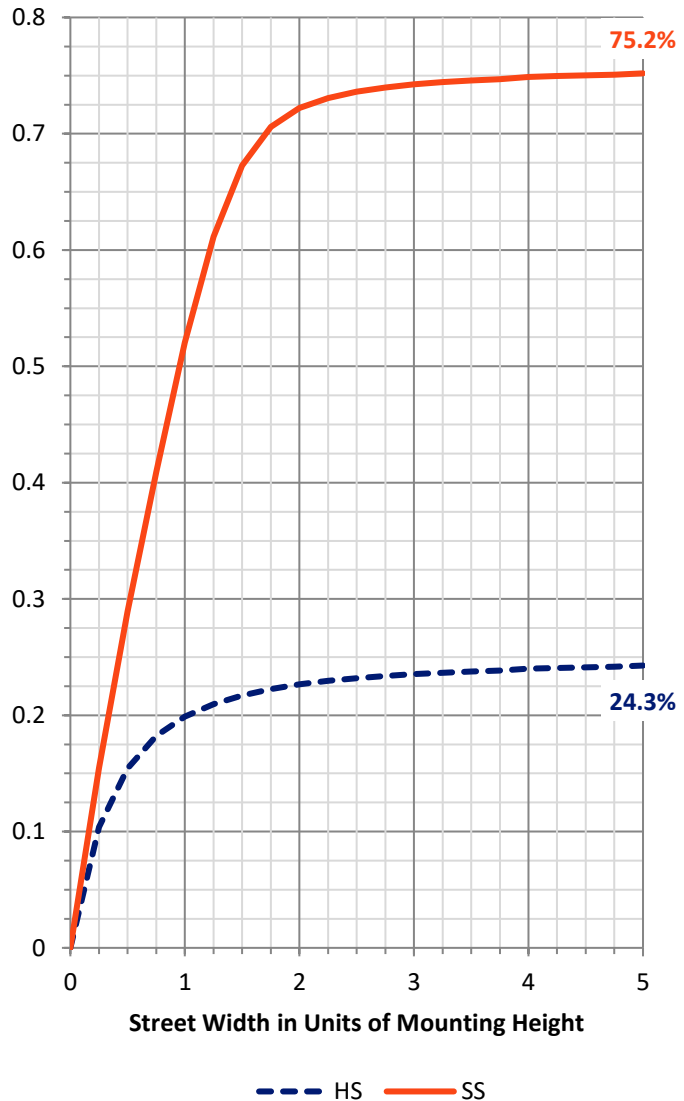
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3718.3	0.0	3718.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	11364.6	0.0	11364.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	15082.9	0.0	15082.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.8	1.4
10°-20°	599.9	4.0
20°-30°	1003.5	6.7
30°-40°	1567.7	10.4
40°-50°	2496.8	16.6
50°-60°	3474.6	23.0
60°-70°	3634.6	24.1
70°-80°	1899.6	12.6
80°-90°	197.3	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°	15082.9	100.0
0°-180°	15082.9	100.0

Coefficient of Utilization

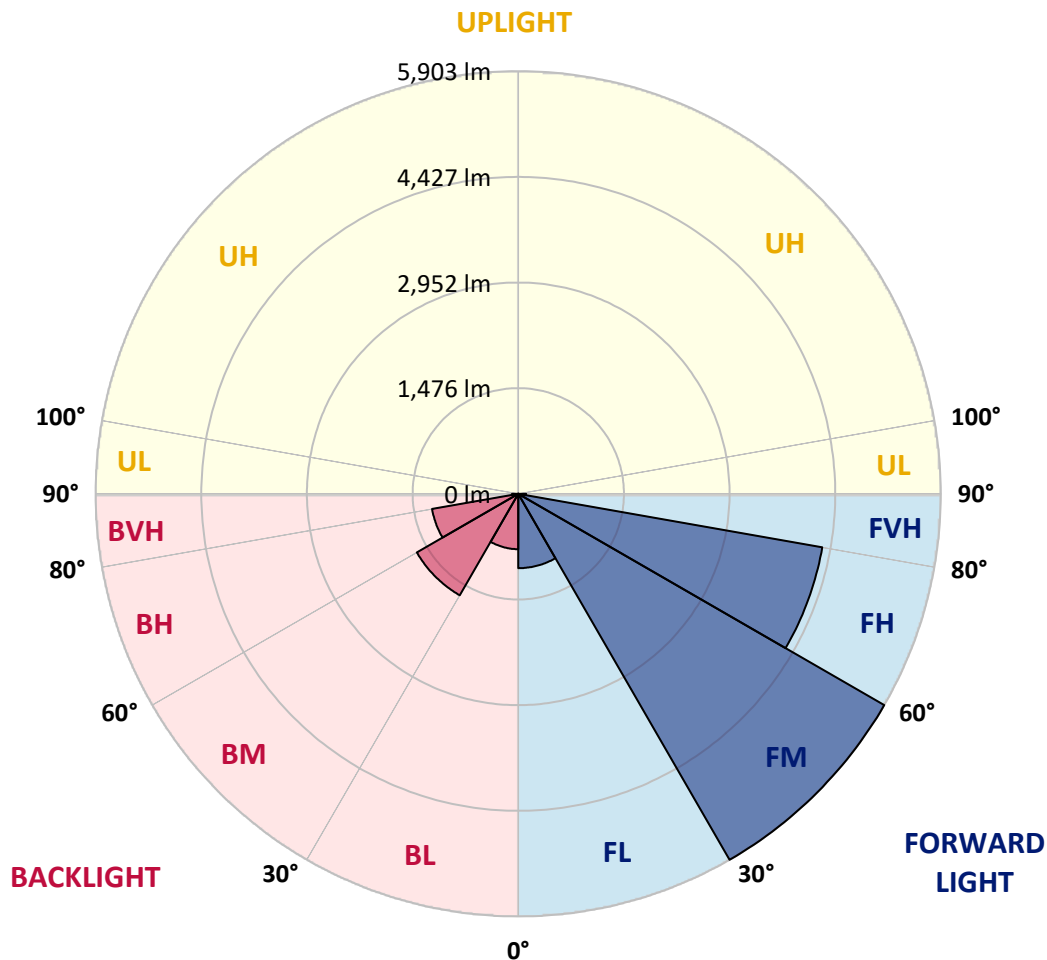


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1038.6	6.9			
FM (30°-60°)	5903.3	39.1			
FH (60°-80°)	4312.2	28.6			G2/5000
FVH (80°-90°)	110.4	0.7			G2/225
BL (0°-30°)	773.5	5.1	B2/1000		
BM (30°-60°)	1635.9	10.8	B2/2500		
BH (60°-80°)	1222.0	8.1	B3/2500		G3/2500
BVH (80°-90°)	86.8	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°	2211.3	2211.3	2211.3	2211.3	2211.3	2211.3	2211.3	2211.3	2211.3	2211.3	2211.3
2.5°	2264.1	2276.9	2272.9	2268.9	2268.9	2263.4	2262.6	2254.6	2248.1	2237.8	2235.3
5°	2292.9	2306.6	2305.0	2308.2	2318.5	2321.0	2323.4	2318.5	2305.7	2292.9	2287.4
7.5°	2267.4	2282.6	2287.4	2306.6	2338.6	2367.4	2389.0	2397.8	2385.8	2367.4	2358.6
10°	2180.9	2197.7	2214.5	2260.1	2317.0	2385.0	2442.7	2477.0	2474.7	2457.0	2441.9
12.5°	2005.6	2023.2	2059.2	2148.1	2252.1	2372.2	2479.5	2551.5	2576.3	2563.5	2537.1
15°	1865.6	1880.8	1908.0	1999.3	2134.5	2317.0	2493.1	2633.1	2696.4	2689.2	2657.1
17.5°	1861.6	1868.0	1884.8	1928.0	2032.1	2230.5	2478.7	2713.2	2834.0	2833.2	2793.2
20°	1932.0	1934.4	1944.0	1952.8	2012.1	2164.9	2441.9	2779.6	2988.5	2988.5	2945.2
22.5°	2029.7	2028.1	2037.7	2029.7	2058.5	2159.3	2418.6	2838.0	3160.6	3173.3	3119.0
25°	2176.1	2168.1	2165.7	2147.3	2152.9	2211.3	2444.2	2904.4	3364.7	3391.0	3323.0
27.5°	2371.4	2358.6	2349.8	2307.4	2292.9	2318.5	2522.6	2984.5	3591.9	3637.5	3551.1
30°	2625.9	2602.7	2589.9	2516.3	2464.2	2468.2	2641.1	3090.9	3829.6	3903.3	3793.6
32.5°	2973.2	2937.2	2902.8	2782.0	2686.7	2655.6	2793.9	3238.2	4087.3	4205.0	4064.1
35°	3362.2	3333.4	3296.6	3110.2	2963.7	2891.6	3000.5	3443.9	4389.0	4575.5	4392.2
37.5°	3736.7	3711.9	3729.6	3478.2	3289.4	3184.6	3271.0	3719.9	4761.2	5036.5	4803.7
40°	4124.2	4104.9	4107.4	3867.2	3647.2	3529.5	3599.1	4066.5	5187.8	5584.8	5298.2
42.5°	4545.2	4530.7	4482.7	4269.8	4022.5	3912.8	3976.9	4466.7	5645.6	6209.0	5840.9
45°	5016.6	5007.7	4962.9	4718.8	4435.5	4312.3	4398.7	4908.5	6105.8	6796.5	6386.0
47.5°	5423.9	5431.1	5425.5	5219.8	4926.0	4745.2	4848.5	5369.5	6534.0	7348.7	6908.5
50°	5620.0	5657.6	5712.8	5648.8	5466.3	5282.2	5302.2	5814.5	6942.1	7866.6	7409.5
52.5°	5517.6	5588.8	5739.3	5841.7	5912.1	5873.7	5820.1	6256.3	7326.3	8334.0	7883.4
55°	5135.8	5235.8	5485.5	5732.8	6092.2	6371.5	6441.9	6746.0	7700.8	8745.3	8331.5
57.5°	4440.3	4602.8	4826.8	5327.0	5932.1	6612.4	7167.0	7425.5	8097.8	9184.7	8800.5
60°	3247.8	3465.4	3744.0	4488.3	5371.9	6483.5	7784.1	8469.2	8662.1	9753.7	9411.2
62.5°	2078.5	2213.0	2469.0	3170.1	4185.8	5823.2	7973.0	9773.8	9618.5	10687.0	10326.8
65°	1423.0	1509.4	1743.9	2137.7	2705.9	4334.6	7467.1	10751.7	11137.5	12165.9	11892.3
67.5°	1034.0	1099.6	1299.8	1644.7	1763.1	2565.1	5794.4	10706.9	12614.2	13689.8	13264.0
70°	753.9	800.3	968.4	1299.8	1356.6	1427.0	3510.3	9101.5	12582.2	14094.8	13584.9
72.5°	558.6	590.6	703.5	1008.4	1098.1	963.6	1737.6	6614.8	10811.8	12748.6	12339.7
75°	404.2	428.1	511.4	771.5	878.7	733.9	866.7	3865.7	7541.6	8967.8	9039.9
77.5°	308.9	327.4	381.8	565.1	703.5	550.6	537.8	1778.4	3575.9	3593.5	3795.2
80°	248.2	260.1	289.8	397.8	539.5	412.2	350.5	717.9	1130.1	956.4	1003.6
82.5°	182.4	202.4	244.9	279.3	385.8	284.1	213.7	362.5	429.8	369.7	373.0
85°	104.0	117.7	148.1	200.1	246.5	173.6	122.5	160.8	200.1	164.1	146.5
87.5°	36.8	48.0	52.1	78.4	107.2	72.1	47.3	46.4	65.6	48.8	40.8
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°	2211.3	2211.3	2211.3	2211.3	2211.3	2211.3	2211.3	2211.3	2211.3	2211.3	2211.3
2.5°	2227.3	2223.3	2207.3	2185.7	2163.4	2141.7	2134.5	2119.3	2108.9	2103.3	2109.7
5°	2272.1	2259.4	2221.8	2173.7	2123.3	2068.9	2030.4	1995.3	1969.6	1945.7	1955.2
7.5°	2336.2	2313.7	2249.0	2164.9	2075.3	1984.8	1917.6	1866.4	1832.0	1809.5	1814.4
10°	2410.6	2376.3	2276.9	2151.3	2012.9	1883.2	1804.0	1759.9	1738.3	1726.3	1729.5
12.5°	2496.3	2447.4	2305.7	2120.1	1917.6	1769.6	1715.1	1702.3	1703.1	1704.0	1705.5
15°	2601.9	2533.9	2329.0	2052.0	1793.5	1682.3	1672.7	1693.5	1715.1	1725.5	1724.8
17.5°	2721.2	2625.1	2333.0	1940.0	1671.9	1626.3	1656.7	1701.5	1734.3	1748.8	1751.9
20°	2849.2	2718.0	2304.2	1781.6	1571.8	1580.7	1635.1	1692.7	1728.8	1747.1	1751.9
22.5°	2995.7	2817.2	2235.3	1615.1	1490.2	1531.0	1595.1	1651.1	1688.7	1707.1	1712.0
25°	3162.9	2928.4	2127.3	1475.0	1419.8	1475.0	1539.0	1585.5	1615.9	1632.7	1637.5
27.5°	3348.6	3044.5	1983.3	1363.8	1358.1	1417.4	1470.3	1506.2	1522.2	1535.0	1539.9
30°	3535.1	3150.1	1808.8	1279.7	1304.5	1360.6	1398.2	1414.2	1419.0	1421.4	1427.0
32.5°	3736.7	3241.4	1625.4	1210.1	1253.4	1305.3	1327.8	1335.0	1312.5	1297.3	1302.2
35°	3980.9	3339.0	1446.2	1154.9	1202.9	1247.7	1254.9	1248.6	1222.1	1190.9	1192.5
37.5°	4282.7	3460.7	1303.0	1115.7	1155.7	1185.3	1176.5	1174.9	1177.3	1140.5	1142.9
40°	4652.4	3619.2	1198.1	1085.3	1117.2	1123.7	1098.9	1112.4	1124.5	1068.5	1070.1
42.5°	5063.0	3810.4	1131.7	1064.5	1085.3	1070.1	1031.7	1046.8	1045.2	971.6	970.8
45°	5481.5	4018.5	1108.4	1049.3	1055.6	1025.2	982.8	986.8	953.2	886.7	889.2
47.5°	5897.7	4241.8	1122.9	1036.5	1018.8	984.4	951.6	934.0	884.4	834.8	834.8
50°	6305.9	4476.3	1175.7	1010.9	968.4	948.4	924.3	893.2	840.4	798.0	794.8
52.5°	6684.4	4712.4	1234.9	968.4	905.2	917.2	902.0	865.9	814.0	770.7	771.5
55°	7043.0	4948.5	1258.1	910.0	845.9	890.0	881.2	814.8	752.3	717.1	713.9
57.5°	7433.5	5232.6	1232.6	835.6	798.0	858.7	825.1	751.5	715.6	689.1	686.6
60°	7974.6	5678.4	1177.3	743.5	752.3	812.3	754.7	724.3	685.1	655.5	653.8
62.5°	8873.3	6510.0	1088.4	652.3	698.7	743.5	721.1	690.6	650.7	621.9	621.9
65°	10201.9	7665.7	921.2	581.1	638.7	676.3	685.1	654.7	613.1	582.6	584.2
67.5°	11322.4	8390.8	697.1	521.8	577.1	621.9	646.7	617.0	573.1	543.5	544.3
70°	11260.8	7864.1	532.2	463.4	522.6	568.3	600.2	577.1	529.8	501.8	504.2
72.5°	10001.8	6578.8	430.6	404.2	467.4	512.2	550.6	533.0	485.0	457.8	457.8
75°	7347.9	4670.0	344.2	344.2	398.5	453.8	496.2	485.0	441.0	421.8	416.2
77.5°	3097.3	1959.2	269.7	285.8	331.4	389.8	442.6	446.6	408.2	432.1	392.2
80°	823.6	540.3	205.7	224.9	260.1	321.7	385.0	383.3	341.7	319.3	296.9
82.5°	313.8	212.9	146.5	158.5	188.1	246.5	304.9	314.6	273.0	236.1	236.1
85°	120.8	91.2	90.4	95.2	109.7	163.3	230.5	238.5	205.7	174.5	180.1
87.5°	31.3	27.2	33.6	32.0	50.4	87.2	132.0	136.8	125.7	72.9	104.0
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)