

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: P962358

Luminaire Tested: **NAV-SB2C-722-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962358
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-SB2C-722-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12394.3 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

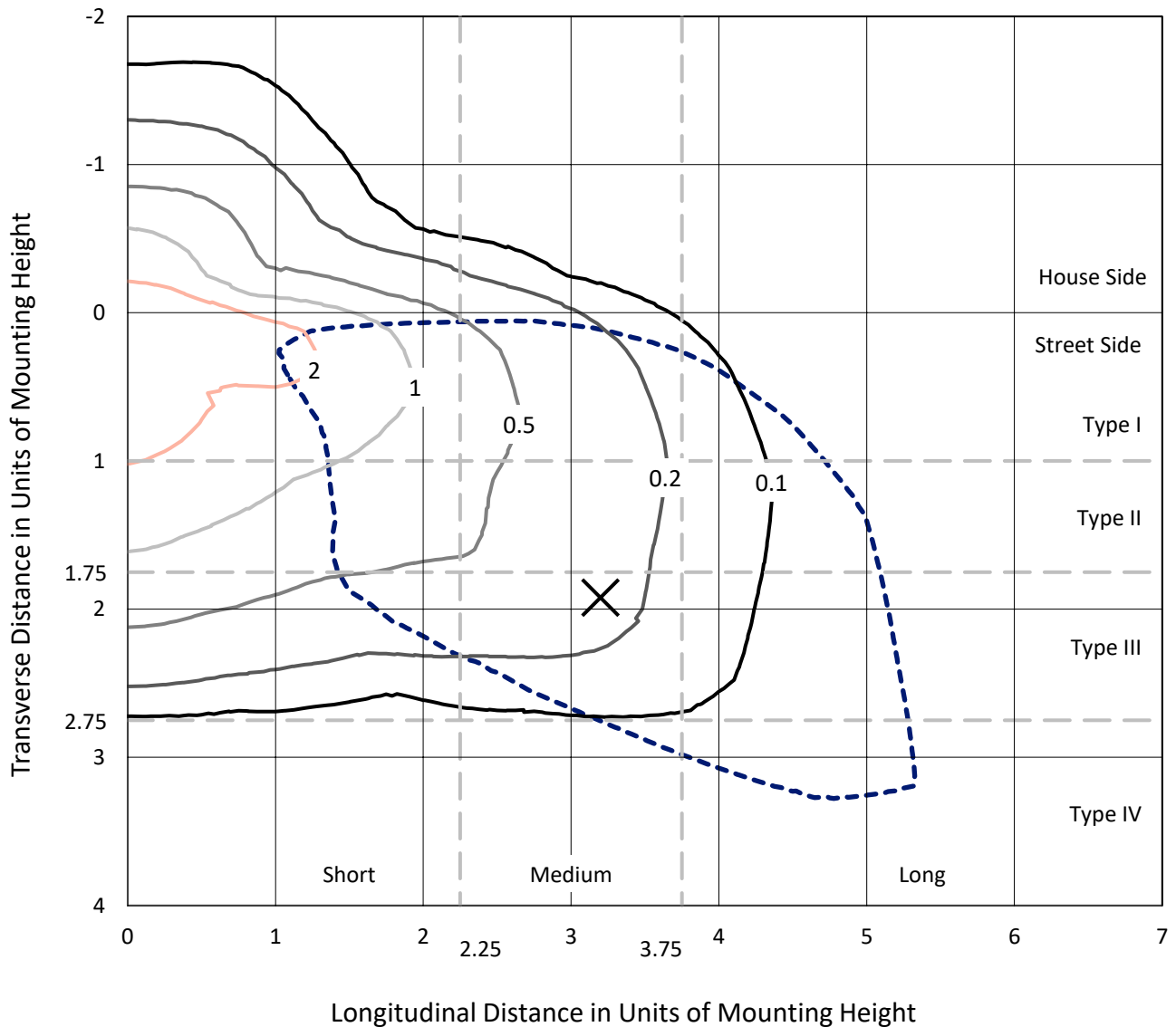
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

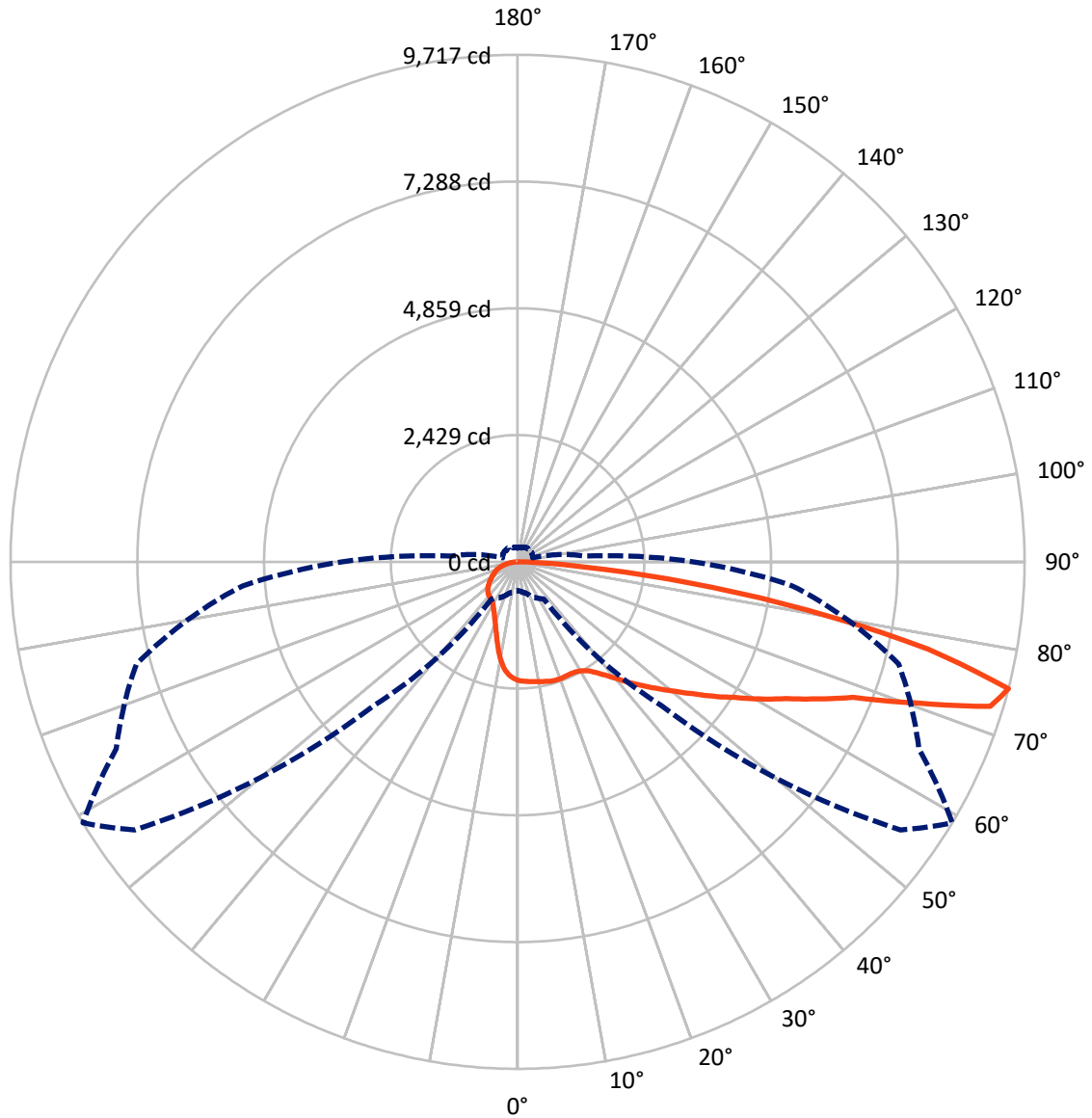
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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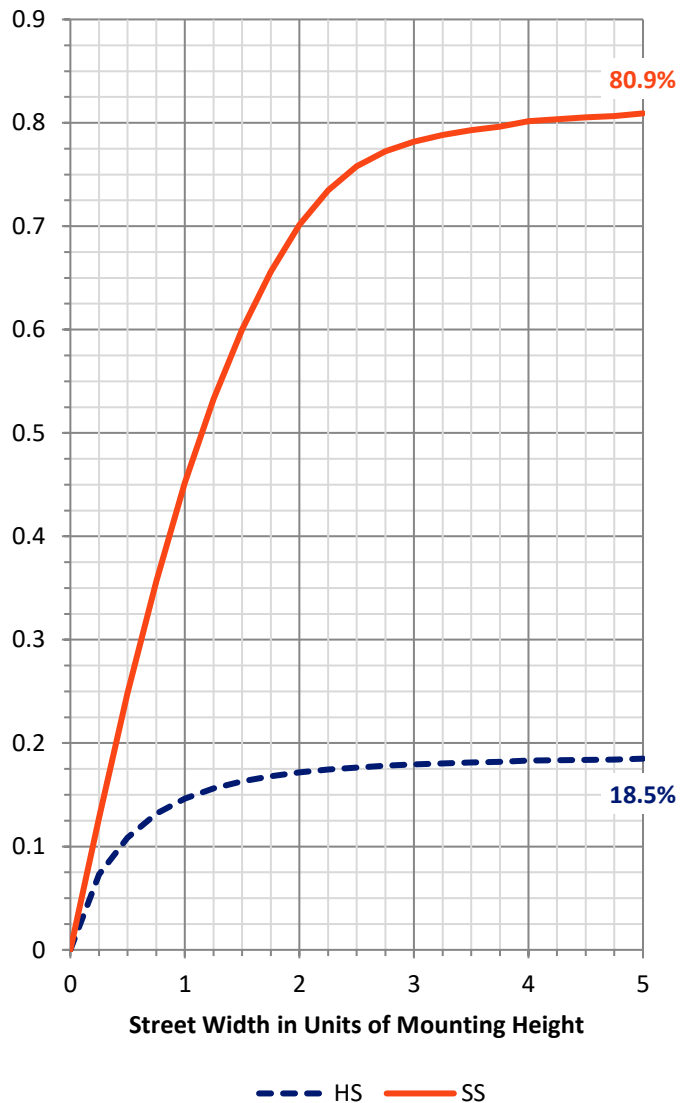
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2324.6	0.0	2324.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	10069.7	0.0	10069.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	12394.3	0.0	12394.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.0	1.6
10°-20°	521.4	4.2
20°-30°	792.0	6.4
30°-40°	1177.2	9.5
40°-50°	1750.8	14.1
50°-60°	2376.4	19.2
60°-70°	2901.2	23.4
70°-80°	2276.9	18.4
80°-90°	394.4	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°	12394.3	100.0
0°-180°	12394.3	100.0

Coefficient of Utilization

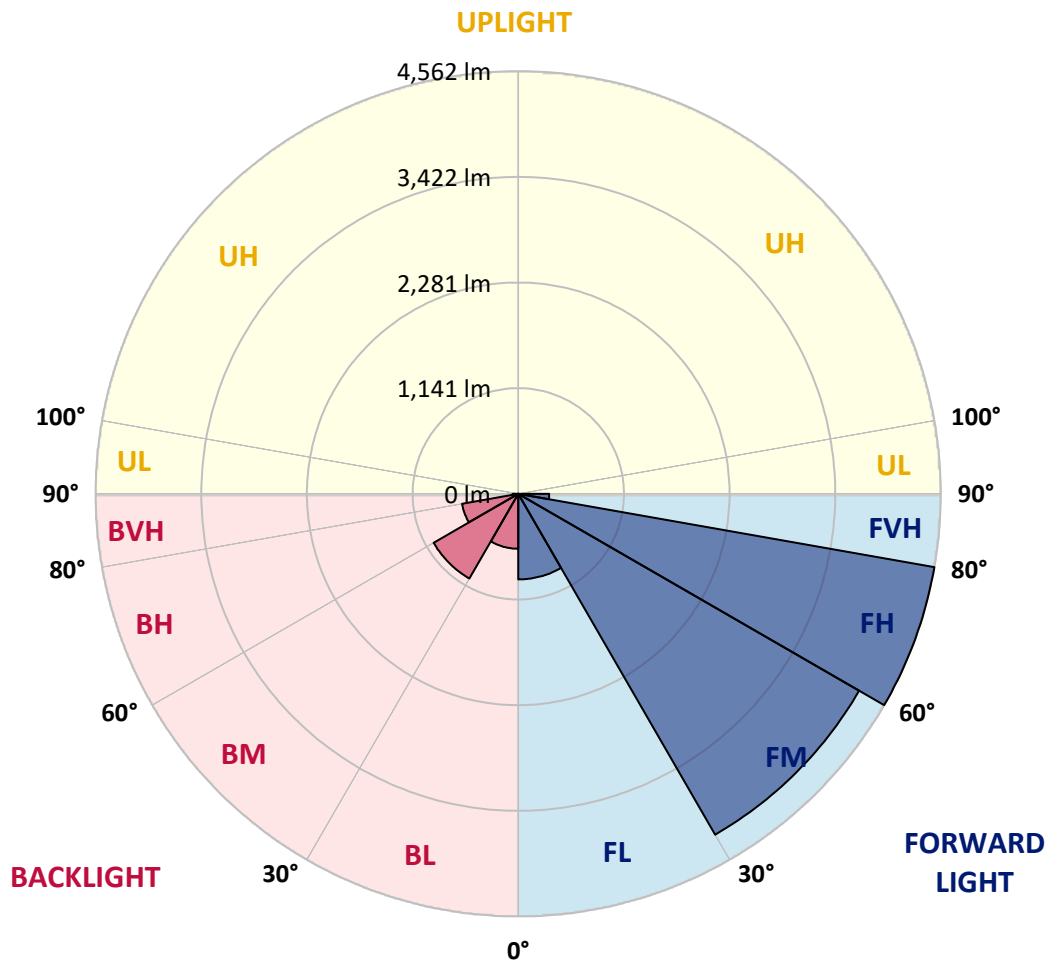


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	924.1	7.5			
FM (30°-60°)	4249.3	34.3			
FH (60°-80°)	4562.2	36.8			G2/5000
FVH (80°-90°)	334.0	2.7			G3/500
BL (0°-30°)	593.2	4.8	B2/1000		
BM (30°-60°)	1055.2	8.5	B2/2500		
BH (60°-80°)	615.9	5.0	B2/1000		G2/1000
BVH (80°-90°)	60.4	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-G3
 Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2275.0	2275.0	2275.0	2275.0	2275.0	2275.0	2275.0	2275.0	2275.0	2275.0	2275.0
2.5°	2294.3	2286.3	2294.3	2291.0	2289.6	2287.0	2287.6	2292.3	2289.6	2292.9	2281.6
5°	2279.0	2274.3	2282.3	2280.3	2288.9	2290.3	2299.0	2304.3	2307.6	2308.3	2299.6
7.5°	2253.6	2249.0	2260.2	2269.7	2288.3	2293.6	2311.6	2320.3	2324.9	2333.0	2320.3
10°	2160.9	2159.0	2186.9	2222.3	2266.3	2293.6	2320.9	2335.7	2342.9	2364.3	2349.6
12.5°	1996.9	1999.6	2036.3	2104.2	2192.3	2280.3	2331.7	2353.0	2364.3	2390.9	2384.3
15°	1840.2	1839.6	1879.5	1952.2	2075.6	2221.6	2337.0	2373.6	2393.0	2432.3	2427.0
17.5°	1749.6	1746.9	1774.9	1830.2	1944.9	2131.6	2323.6	2385.0	2426.3	2475.7	2471.0
20°	1732.9	1727.5	1742.2	1769.6	1850.9	2032.9	2288.9	2385.0	2452.9	2517.0	2514.3
22.5°	1793.5	1784.9	1778.9	1775.5	1811.6	1951.6	2249.6	2377.0	2492.3	2576.3	2571.6
25°	1915.5	1902.2	1871.5	1841.5	1830.9	1914.9	2214.9	2374.9	2551.0	2656.3	2639.0
27.5°	2112.9	2096.2	2034.2	1962.3	1897.6	1933.6	2199.6	2386.9	2615.7	2741.0	2706.3
30°	2357.6	2339.7	2261.6	2151.0	2034.9	2003.0	2218.9	2422.3	2698.3	2853.7	2785.6
32.5°	2577.0	2557.0	2490.3	2377.6	2221.0	2122.9	2280.3	2489.6	2828.4	3010.3	2905.1
35°	2771.7	2748.3	2688.4	2584.3	2448.9	2291.6	2390.9	2609.0	3013.0	3265.0	3067.0
37.5°	2962.4	2935.0	2869.7	2759.7	2665.0	2516.3	2543.6	2762.4	3258.4	3574.5	3281.7
40°	3175.8	3136.4	3057.1	2948.4	2856.4	2779.7	2744.3	2950.4	3507.8	3919.8	3549.8
42.5°	3382.4	3345.1	3250.4	3157.7	3042.4	3020.4	2977.0	3170.4	3780.5	4299.2	3821.8
45°	3605.1	3560.4	3445.7	3328.4	3255.7	3180.4	3202.4	3390.4	4047.8	4685.9	4107.2
47.5°	3813.8	3763.8	3628.4	3497.8	3457.7	3315.1	3409.0	3632.4	4325.9	5078.0	4389.9
50°	3926.5	3877.2	3764.4	3646.4	3615.1	3481.1	3633.1	3898.5	4617.2	5468.7	4661.3
52.5°	4020.5	3967.2	3819.8	3754.5	3745.1	3661.8	3909.1	4202.5	4908.6	5814.0	4923.3
55°	4120.5	4061.2	3873.2	3814.4	3857.2	3864.5	4236.5	4547.2	5216.6	6150.7	5170.6
57.5°	4235.8	4160.5	3924.5	3865.2	3966.4	4101.8	4612.6	4904.6	5519.3	6462.8	5390.7
60°	4344.6	4268.5	4023.1	3945.8	4084.5	4377.2	5043.9	5337.3	5862.1	6740.8	5598.7
62.5°	4365.9	4303.2	4101.8	4101.1	4244.5	4698.6	5554.7	5774.0	6161.4	7015.5	5785.4
65°	3996.5	3957.1	3837.8	4095.2	4473.9	5161.3	6123.5	6332.8	6542.2	7255.6	5949.4
67.5°	3041.7	3047.0	3038.4	3535.1	4288.5	5826.1	6946.8	6930.8	7012.2	7524.9	6138.1
70°	1390.8	1422.2	1626.2	2440.3	3435.8	5902.8	8308.3	8101.0	7602.2	7873.6	6301.4
72.5°	751.4	775.4	858.7	1182.1	2065.6	5248.0	9325.9	9473.2	8387.1	8108.4	6122.1
75°	551.4	564.8	622.8	751.4	867.5	3900.4	8961.1	9717.2	8485.1	7560.9	5286.6
77.5°	412.8	418.7	466.1	595.4	444.0	2056.3	7160.2	8047.7	7263.6	6212.1	3905.1
80°	299.4	306.1	341.3	446.7	311.4	752.0	4916.6	5648.7	4974.6	3959.8	1946.3
82.5°	206.7	209.4	224.7	304.0	217.4	292.0	2789.6	3312.4	2777.0	1389.5	525.4
85°	124.6	128.0	134.7	177.3	123.3	138.7	1204.2	1245.5	830.1	332.0	163.4
87.5°	51.4	54.6	60.0	74.7	48.7	38.6	198.6	249.4	155.4	97.4	50.6
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°	2275.0	2275.0	2275.0	2275.0	2275.0	2275.0	2275.0	2275.0	2275.0	2275.0	2275.0
2.5°	2278.3	2273.7	2260.9	2243.6	2227.6	2207.6	2198.9	2191.6	2184.9	2172.3	2166.2
5°	2292.3	2279.6	2245.6	2201.6	2151.6	2096.9	2043.5	2007.0	1975.6	1952.2	1932.9
7.5°	2313.6	2289.6	2227.6	2137.6	2022.9	1905.6	1799.6	1724.3	1667.6	1646.9	1610.9
10°	2335.7	2307.0	2198.9	2040.3	1842.2	1661.5	1520.9	1443.5	1398.2	1383.5	1360.8
12.5°	2361.6	2319.6	2154.2	1904.9	1640.2	1442.2	1319.5	1274.2	1250.8	1242.8	1244.9
15°	2399.6	2330.3	2086.9	1735.5	1447.5	1282.2	1202.8	1171.5	1159.5	1158.8	1161.4
17.5°	2428.3	2332.3	1982.2	1554.2	1299.5	1185.5	1120.1	1108.1	1116.1	1128.1	1132.8
20°	2460.3	2314.2	1844.9	1388.9	1195.5	1100.8	1073.5	1081.5	1100.8	1118.2	1124.1
22.5°	2483.0	2281.6	1678.8	1260.1	1105.5	1052.2	1050.8	1067.4	1078.1	1086.8	1091.4
25°	2502.9	2226.3	1502.9	1152.1	1031.5	1022.7	1037.5	1032.2	1024.8	1032.2	1036.8
27.5°	2517.6	2139.0	1345.5	1057.5	979.5	1002.8	994.1	982.2	981.4	985.4	992.1
30°	2513.0	2022.2	1216.2	967.5	942.8	965.4	944.7	942.8	940.7	942.8	950.1
32.5°	2513.0	1889.6	1116.8	905.5	919.4	910.8	908.8	904.2	896.2	895.4	904.2
35°	2526.9	1756.8	1031.5	872.1	900.2	879.4	880.8	869.4	852.8	844.8	852.8
37.5°	2555.6	1650.2	946.8	856.1	866.1	865.4	860.1	840.8	811.4	786.1	794.8
40°	2625.0	1618.9	888.8	848.8	850.1	858.1	844.1	806.8	740.0	698.7	704.1
42.5°	2733.7	1671.6	876.1	830.8	839.5	847.5	820.1	733.4	686.1	661.4	661.4
45°	2871.6	1763.5	903.4	804.7	814.1	828.1	746.7	705.4	684.1	684.7	688.1
47.5°	3046.4	1860.3	954.1	782.1	777.5	785.5	698.1	672.7	643.4	650.8	669.4
50°	3248.4	1958.3	1002.1	751.4	736.8	710.7	666.8	642.8	605.4	588.0	592.8
52.5°	3467.1	2052.9	1021.4	714.1	692.8	662.8	645.4	616.0	570.7	542.0	541.4
55°	3674.4	2139.0	1000.1	669.4	648.7	625.5	622.8	604.8	556.1	516.1	516.1
57.5°	3870.5	2210.9	946.8	624.1	604.0	590.1	608.0	599.4	538.0	486.8	484.1
60°	4036.4	2260.2	869.4	578.1	564.1	556.8	584.0	581.4	512.7	455.4	453.4
62.5°	4168.5	2279.6	784.1	534.0	530.7	517.4	550.7	550.7	480.7	424.8	422.7
65°	4271.9	2260.9	697.4	490.8	497.4	477.3	510.0	506.0	446.7	397.4	394.7
67.5°	4363.2	2199.6	601.4	448.0	463.4	438.1	467.4	458.1	409.4	370.0	367.4
70°	4403.9	2057.0	492.1	405.4	424.0	399.3	424.8	407.3	367.4	340.7	335.4
72.5°	4077.1	1709.5	387.3	360.7	376.7	356.7	378.7	358.7	322.1	310.1	300.0
75°	3373.1	1282.8	298.1	312.0	324.0	308.7	323.4	308.7	275.4	284.0	259.3
77.5°	2449.6	866.1	228.1	260.7	266.0	258.0	270.7	254.0	224.1	222.0	212.1
80°	1218.1	507.4	178.7	206.0	204.0	198.6	213.4	205.3	180.0	190.6	188.7
82.5°	352.7	217.4	130.0	144.7	140.7	142.1	152.7	156.7	234.7	232.7	238.0
85°	110.7	85.4	78.0	80.7	76.7	78.7	90.0	178.7	165.3	96.7	104.7
87.5°	28.7	29.3	19.4	20.7	21.3	25.3	28.7	108.6	52.0	34.0	36.0
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)