

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: P964487

Luminaire Tested: **NAV-SB3C-722-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964487
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-722-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18989.1 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

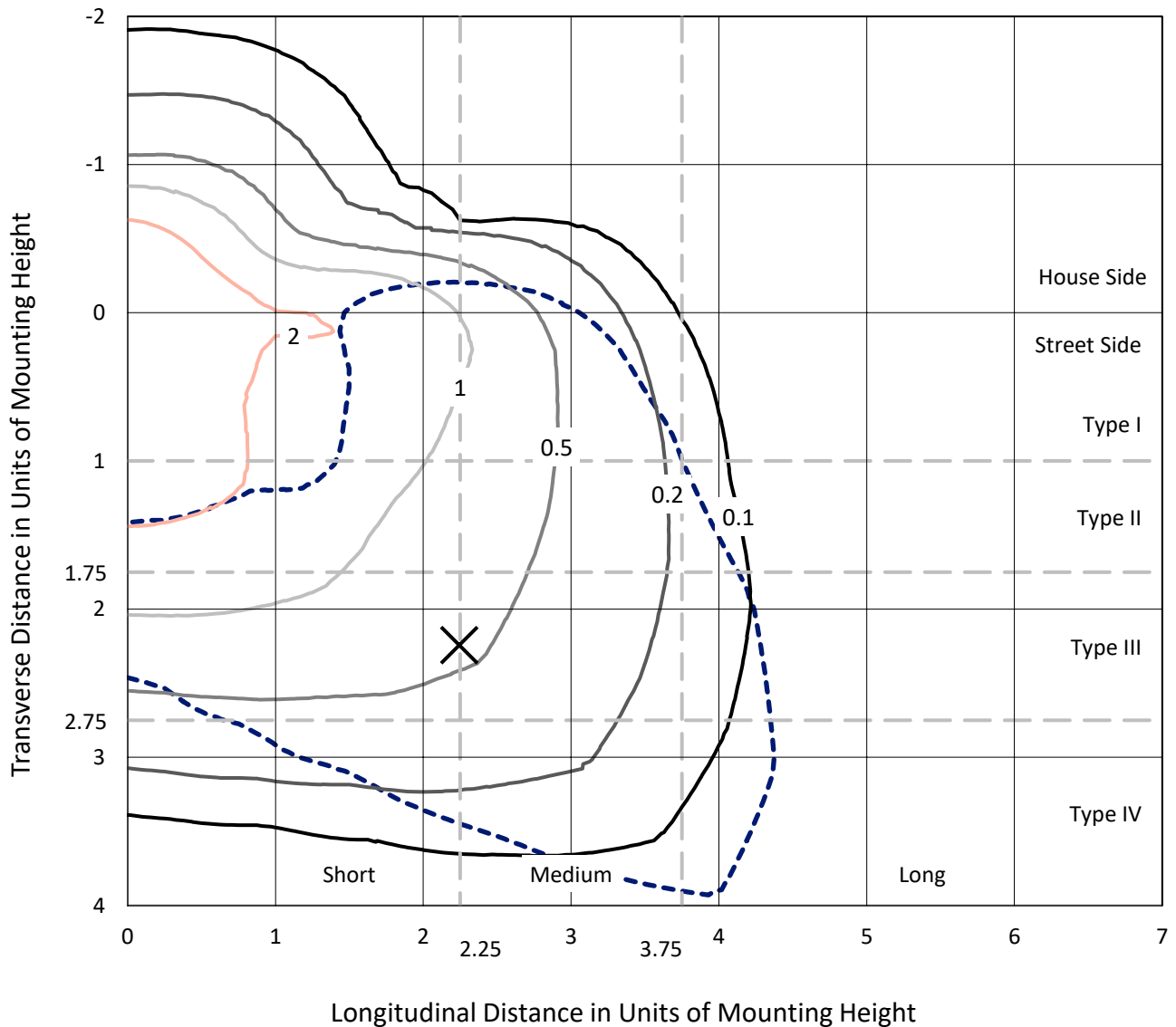
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

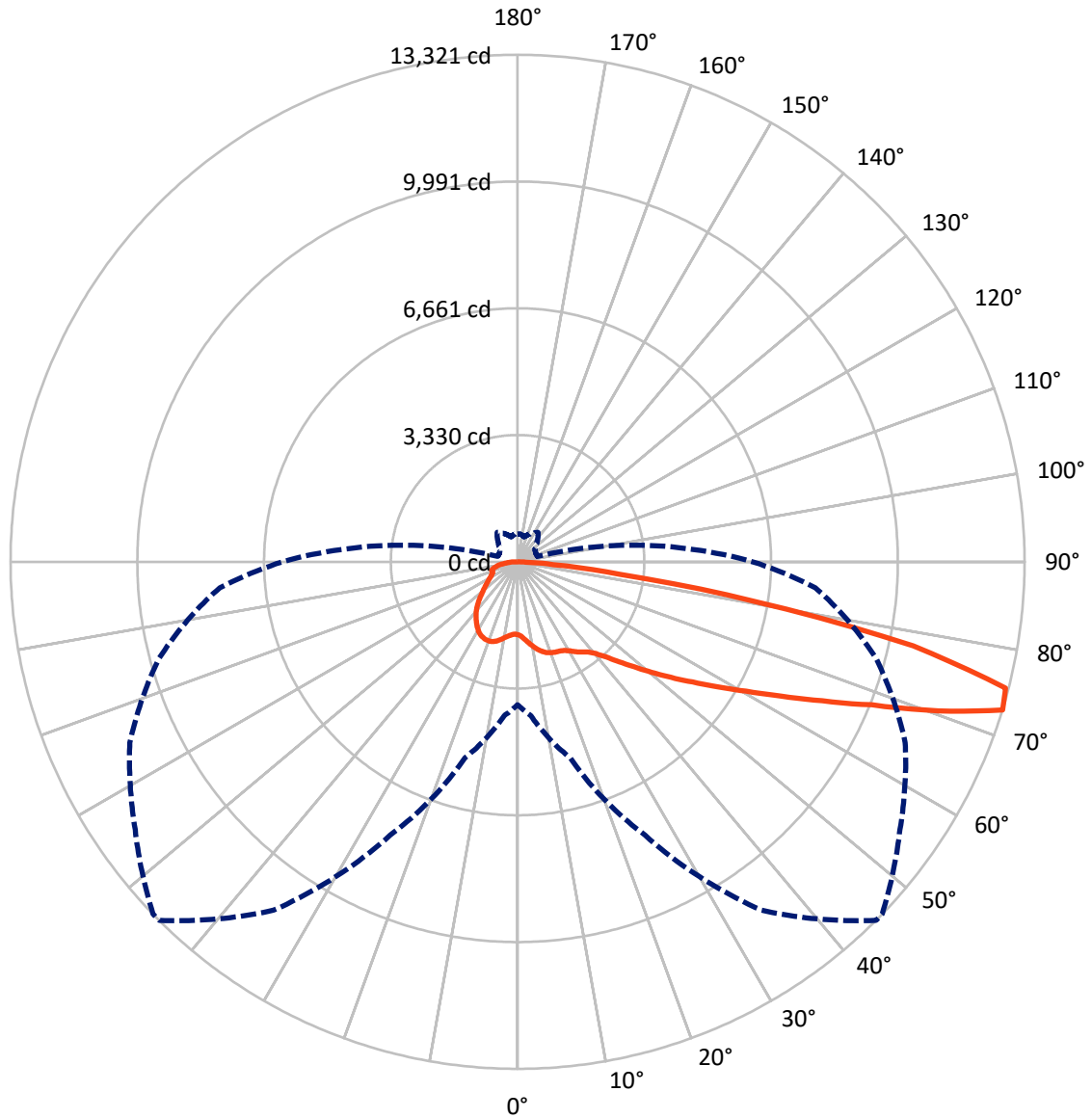
× Max cd
 - - - 1/2 Max cd



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

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CATALOG NUMBER: NAV-SB3C-722-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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 CATALOG NUMBER: NAV-SB3C-722-U-T4W

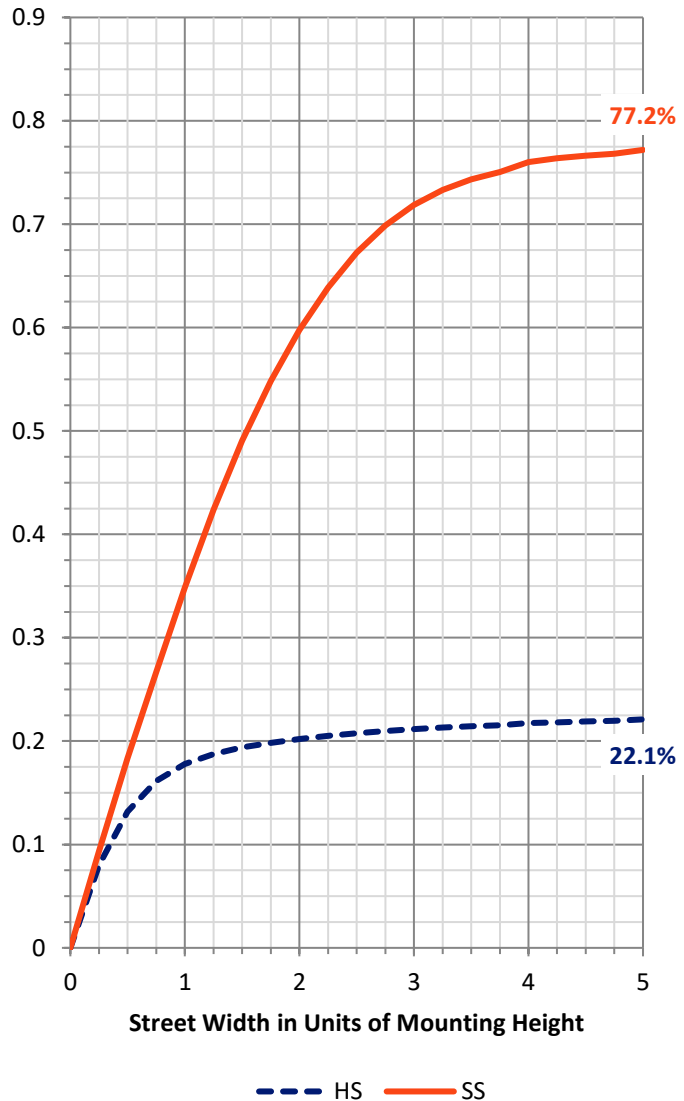
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4292.8	0.0	4292.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	14696.4	0.0	14696.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	18989.1	0.0	18989.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.0	1.0
10°-20°	650.1	3.4
20°-30°	1130.8	6.0
30°-40°	1621.1	8.5
40°-50°	2282.6	12.0
50°-60°	3496.3	18.4
60°-70°	5064.9	26.7
70°-80°	4044.6	21.3
80°-90°	503.7	2.7
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°	18989.1	100.0
0°-180°	18989.1	100.0

Coefficient of Utilization

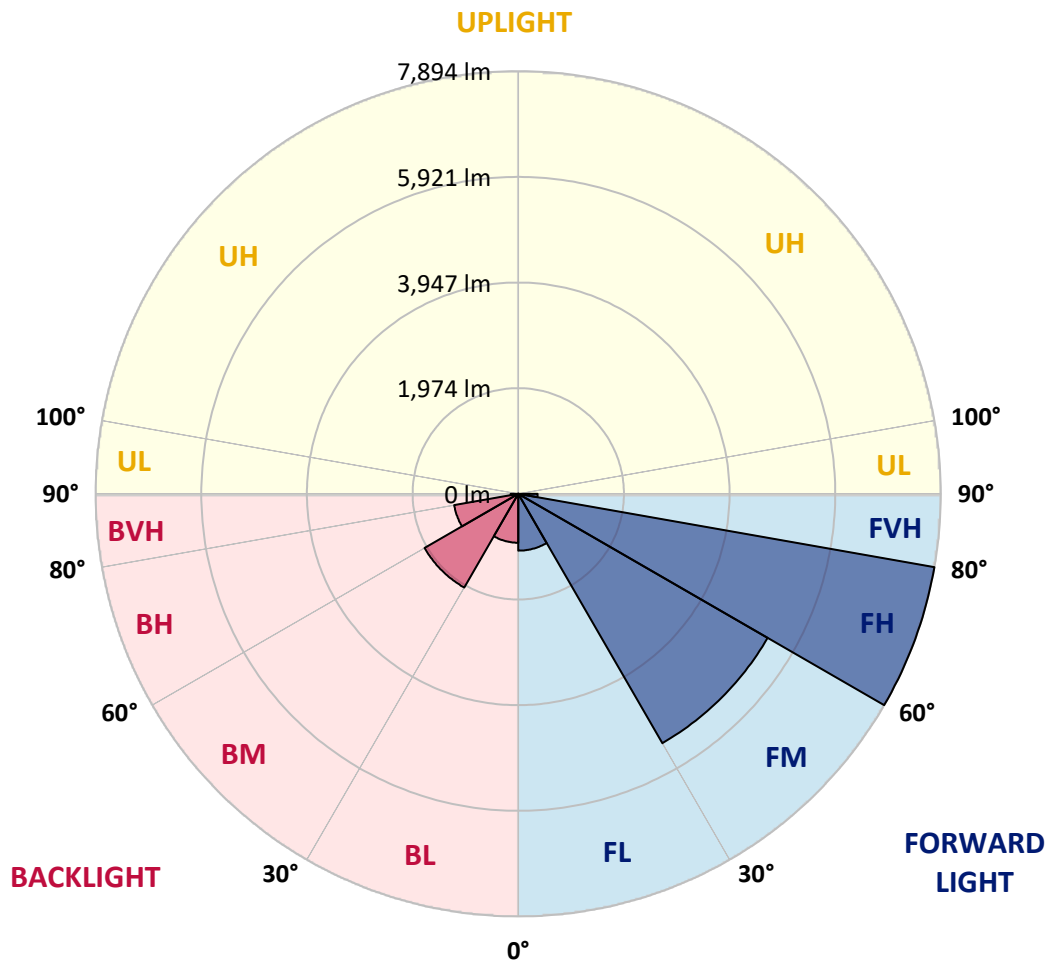


REPORT NUMBER: P964487
 CATALOG NUMBER: NAV-SB3C-722-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1061.9	5.6			
FM (30°-60°)	5378.7	28.3			
FH (60°-80°)	7894.4	41.6			G4/12000
FVH (80°-90°)	361.4	1.9			G3/500
BL (0°-30°)	914.0	4.8	B2/1000		
BM (30°-60°)	2021.3	10.6	B2/2500		
BH (60°-80°)	1215.2	6.4	B3/2500		G3/2500
BVH (80°-90°)	142.3	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1915.6	1915.6	1915.6	1915.6	1915.6	1915.6	1915.6	1915.6	1915.6	1915.6	1915.6
2.5°	1990.7	2003.7	1991.7	1980.6	1975.7	1962.7	1961.6	1953.6	1948.6	1934.7	1930.7
5°	2129.7	2146.8	2126.7	2104.7	2084.6	2052.7	2048.7	2025.7	1999.7	1969.6	1952.6
7.5°	2286.8	2301.7	2278.8	2245.8	2210.7	2157.7	2156.7	2114.7	2073.7	2022.6	1993.6
10°	2423.8	2443.8	2412.8	2367.8	2323.8	2263.7	2256.7	2208.8	2156.7	2090.7	2046.7
12.5°	2544.9	2558.8	2528.9	2473.8	2422.8	2362.8	2353.8	2300.7	2242.7	2167.7	2111.7
15°	2640.9	2658.8	2618.9	2559.8	2505.8	2446.8	2438.8	2390.8	2332.8	2253.8	2181.7
17.5°	2703.8	2718.9	2677.9	2611.9	2559.8	2510.8	2504.8	2464.8	2413.8	2333.8	2256.7
20°	2727.9	2743.9	2700.9	2633.8	2585.9	2547.8	2544.9	2515.9	2480.8	2407.8	2329.7
22.5°	2751.9	2766.9	2710.9	2640.9	2598.9	2574.9	2573.9	2554.8	2540.9	2480.8	2404.8
25°	2849.0	2853.0	2778.0	2676.9	2616.8	2595.8	2594.9	2593.9	2599.9	2552.9	2485.8
27.5°	2932.9	2932.0	2868.0	2772.9	2679.9	2635.9	2634.9	2644.9	2663.9	2624.8	2569.9
30°	3056.0	3045.0	2969.0	2870.0	2784.9	2716.9	2710.9	2701.9	2716.9	2685.9	2653.9
32.5°	3317.1	3282.0	3159.0	2983.0	2871.9	2820.0	2811.9	2755.9	2762.0	2742.9	2726.9
35°	3691.2	3645.2	3481.1	3197.1	2980.0	2906.0	2902.0	2830.9	2819.0	2801.9	2807.9
37.5°	4136.4	4079.4	3888.3	3507.1	3166.0	3006.0	3000.0	2936.0	2886.9	2869.0	2903.0
40°	4583.5	4511.5	4353.5	3885.3	3440.1	3173.1	3154.0	3057.1	3001.0	2971.0	3043.0
42.5°	5017.7	4957.6	4822.6	4309.4	3778.3	3417.1	3375.1	3209.1	3167.0	3139.1	3269.1
45°	5401.7	5347.7	5248.7	4762.6	4174.4	3749.2	3708.2	3437.1	3424.1	3424.1	3612.2
47.5°	5713.9	5701.9	5596.8	5224.7	4641.5	4127.4	4056.3	3754.3	3789.2	3843.2	4099.4
50°	6060.0	6027.0	5915.0	5679.9	5190.7	4560.5	4502.5	4143.4	4274.5	4422.5	4803.6
52.5°	6378.2	6396.1	6271.1	6154.0	5810.9	5043.7	4941.6	4602.6	4885.7	5130.7	5628.9
55°	6705.2	6706.3	6671.2	6655.2	6461.2	5577.8	5465.8	5154.7	5604.9	5908.9	6591.2
57.5°	7012.3	7014.3	7066.4	7207.4	7215.4	6194.1	6067.0	5833.0	6404.1	6714.3	7583.6
60°	7286.4	7300.5	7442.4	7772.6	7878.7	6900.3	6780.3	6634.2	7230.4	7542.5	8626.9
62.5°	7378.5	7429.5	7745.6	8214.8	8533.8	7766.5	7648.6	7561.5	8098.7	8388.8	9499.2
65°	7222.4	7339.4	7950.6	8579.9	9208.1	8795.9	8678.9	8583.9	9001.0	9274.1	10215.4
67.5°	6839.3	6990.3	7938.6	8963.0	10026.3	10034.3	9925.3	9702.2	9968.3	10073.4	10448.4
70°	5829.9	6056.0	7239.4	9106.0	10965.7	11727.8	11622.9	11048.7	10933.7	10425.5	9792.2
72.5°	3756.2	4060.3	5330.8	7928.6	11174.8	13321.4	13315.5	12264.0	11238.7	9741.2	7853.7
75°	1370.4	1556.6	2476.8	4976.7	9380.1	13240.4	13279.4	12056.0	10259.4	7524.5	4892.6
77.5°	499.2	546.2	808.3	1912.6	5768.9	10623.5	10704.6	9638.2	7302.4	3776.2	1938.7
80°	262.1	288.1	414.1	742.2	2471.8	6309.1	6436.2	5727.9	3432.1	1137.3	581.2
82.5°	145.0	157.0	232.1	403.1	1113.4	2697.9	2774.0	2262.8	1207.4	482.2	240.1
85°	78.0	83.0	109.1	220.1	544.2	935.3	956.3	676.2	481.1	283.1	116.0
87.5°	23.0	28.0	36.0	70.0	213.1	210.0	215.0	134.1	190.0	143.1	38.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P964487
 CATALOG NUMBER: NAV-SB3C-722-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1915.6	1915.6	1915.6	1915.6	1915.6	1915.6	1915.6	1915.6	1915.6	1915.6	1915.6
2.5°	1924.6	1921.7	1910.6	1905.7	1899.6	1898.6	1903.6	1904.7	1905.7	1906.6	1910.6
5°	1942.7	1932.6	1922.6	1916.6	1918.6	1919.6	1929.7	1936.6	1941.7	1945.7	1947.6
7.5°	1977.6	1969.6	1952.6	1951.6	1954.7	1963.7	1976.6	1992.7	2001.6	2008.7	2010.6
10°	2029.7	2014.6	1994.6	1997.6	2003.7	2016.7	2043.6	2056.7	2071.7	2084.6	2081.7
12.5°	2082.7	2069.7	2046.7	2048.7	2058.7	2081.7	2107.7	2123.7	2133.7	2143.7	2147.7
15°	2151.7	2128.7	2103.7	2103.7	2121.8	2146.8	2158.8	2171.8	2177.7	2188.7	2192.7
17.5°	2222.7	2192.7	2159.7	2157.7	2179.8	2191.8	2198.7	2200.8	2202.7	2214.7	2218.7
20°	2293.7	2260.7	2213.7	2209.7	2214.7	2212.8	2211.7	2209.7	2212.8	2227.7	2233.8
22.5°	2363.8	2325.7	2260.7	2242.7	2228.8	2209.7	2208.8	2207.7	2209.7	2224.8	2234.7
25°	2445.9	2399.8	2312.8	2258.8	2211.7	2185.7	2188.7	2189.7	2191.8	2203.8	2219.7
27.5°	2534.8	2483.8	2360.8	2253.8	2168.7	2150.8	2145.7	2148.7	2155.7	2174.7	2193.7
30°	2623.9	2563.8	2404.8	2233.8	2114.7	2089.7	2073.7	2080.6	2102.7	2121.8	2142.7
32.5°	2704.9	2644.9	2439.8	2189.7	2045.7	2006.6	1985.6	1994.6	2016.7	2023.7	2048.7
35°	2799.9	2731.9	2454.8	2119.7	1970.7	1910.6	1882.6	1869.6	1880.7	1873.6	1895.6
37.5°	2906.0	2834.9	2452.8	2027.7	1882.6	1813.6	1774.6	1725.6	1702.5	1678.5	1693.6
40°	3063.0	2961.0	2428.8	1916.6	1773.6	1710.5	1640.5	1557.5	1505.5	1458.5	1461.4
42.5°	3277.1	3136.1	2384.8	1794.6	1650.6	1591.5	1496.5	1399.4	1317.4	1239.4	1232.5
45°	3596.2	3365.1	2329.7	1664.6	1517.5	1459.5	1356.5	1247.4	1154.4	1054.3	1042.3
47.5°	4056.3	3673.2	2277.8	1516.5	1377.5	1324.4	1231.4	1130.4	1020.4	923.3	912.4
50°	4688.6	4115.4	2229.8	1372.5	1239.4	1199.4	1125.3	1022.3	911.3	833.3	828.3
52.5°	5492.9	4716.5	2209.7	1233.4	1110.4	1095.3	1036.4	940.3	835.3	769.3	764.2
55°	6416.1	5435.8	2209.7	1100.3	997.3	1002.3	961.3	872.3	781.3	722.2	716.3
57.5°	7358.5	6164.0	2169.7	977.3	901.3	922.3	896.3	818.3	736.3	675.3	665.2
60°	8226.8	6774.2	2007.7	865.3	816.3	849.3	832.3	765.3	665.2	614.2	606.2
62.5°	8893.9	7118.3	1695.6	776.2	746.2	784.2	775.2	695.3	652.2	631.2	624.2
65°	9228.1	7062.4	1296.4	697.2	687.3	746.2	727.2	724.3	690.2	666.2	658.3
67.5°	9023.0	6580.2	940.3	639.2	653.2	711.2	784.2	796.2	733.3	686.2	678.2
70°	8123.7	5707.9	700.3	584.1	610.2	712.3	894.3	833.3	719.2	664.2	655.2
72.5°	6180.0	4256.4	543.1	526.1	554.2	717.2	943.3	816.3	679.3	734.2	728.3
75°	3534.2	2336.8	436.1	455.1	484.2	670.2	918.3	772.2	648.2	674.2	674.2
77.5°	1347.5	898.3	360.1	385.1	389.1	585.2	878.3	769.3	617.3	602.2	549.2
80°	467.2	351.2	298.1	306.1	301.1	520.2	842.2	669.2	505.1	452.1	437.2
82.5°	191.1	175.1	236.1	226.1	214.0	404.2	680.2	547.1	413.2	365.1	361.1
85°	83.0	111.0	156.0	137.0	124.0	280.1	545.2	463.2	349.1	301.1	300.1
87.5°	17.0	42.0	66.0	62.0	64.1	187.1	387.1	329.1	247.1	185.0	145.0
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)