

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: P962902

Luminaire Tested: **NAV-SB2D-722-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962902
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2D-722-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17242.5 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

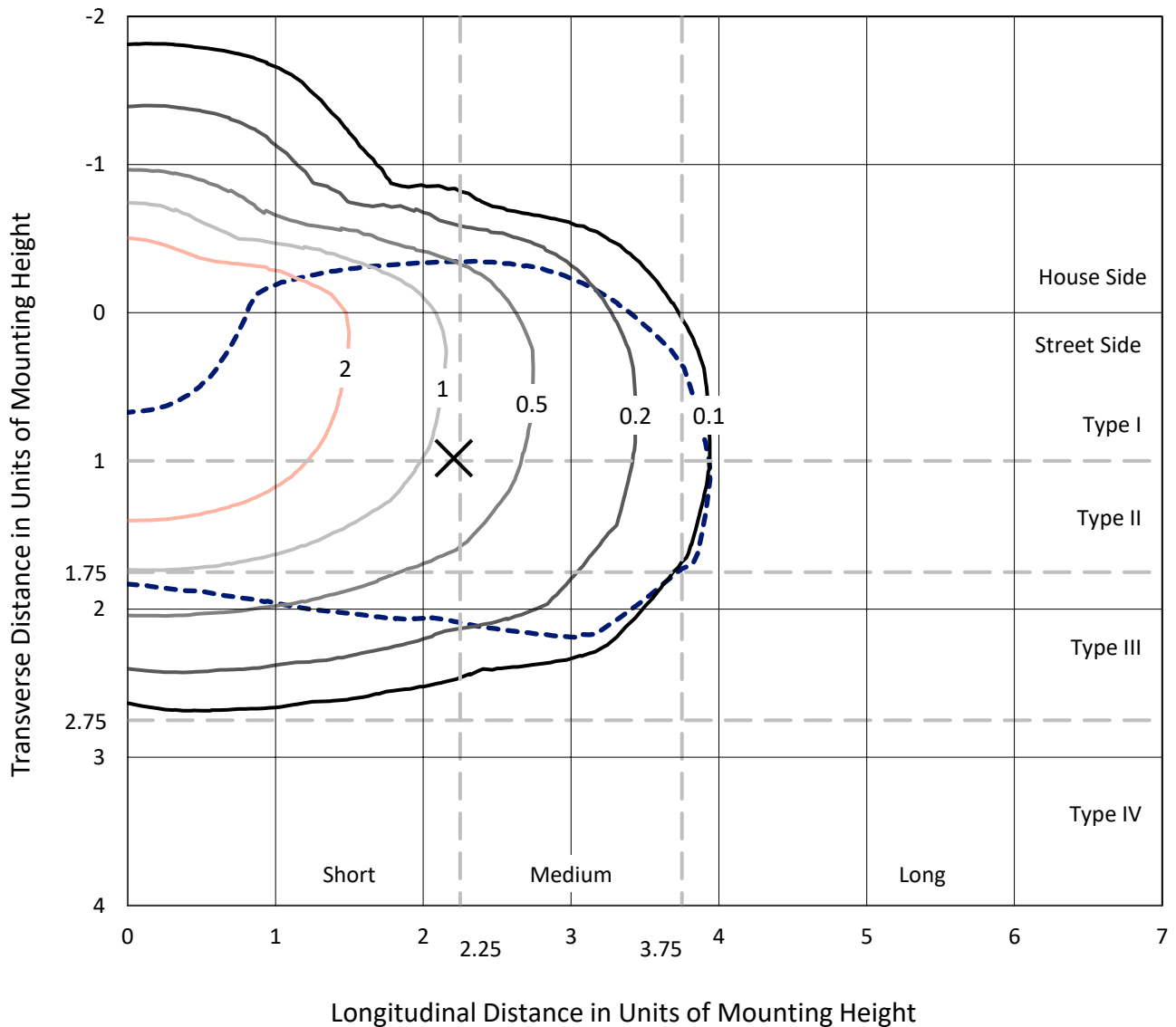
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

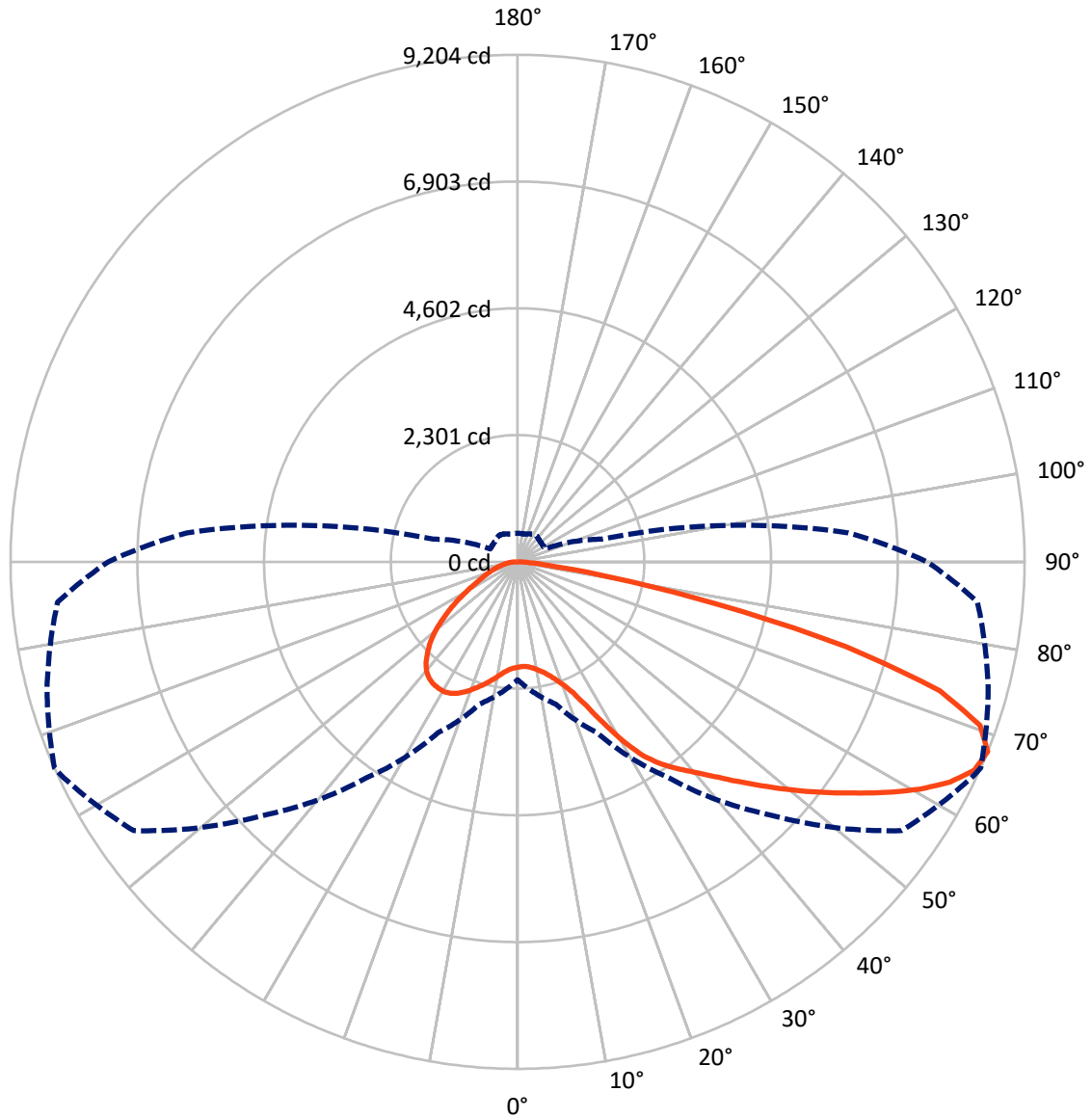
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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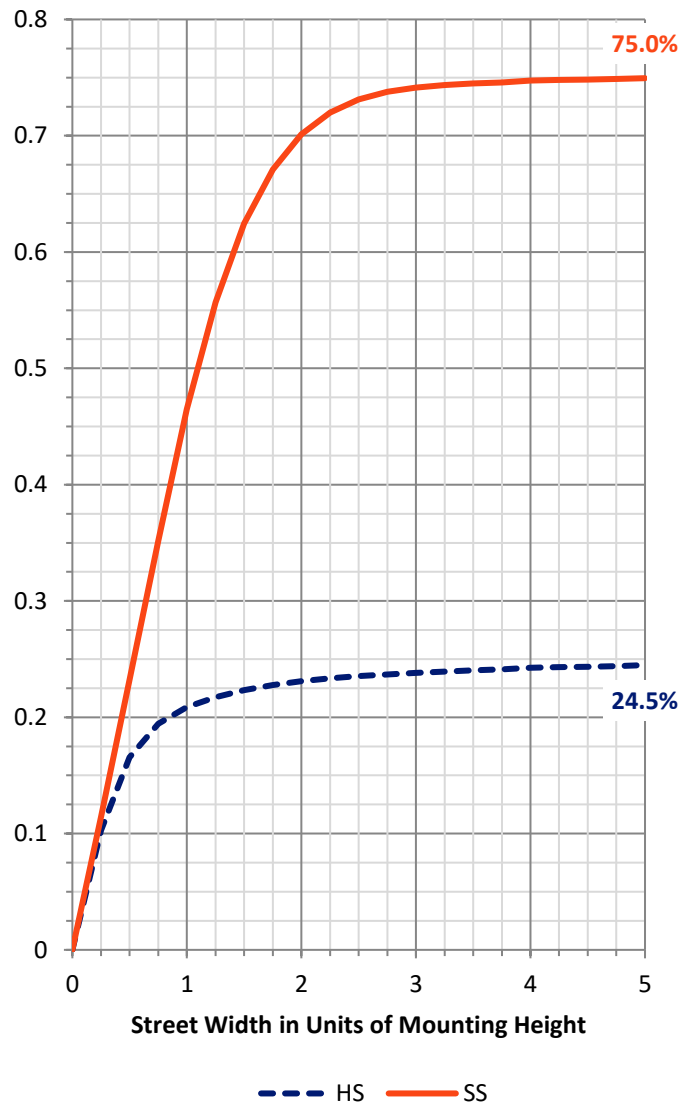
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4287.3	0.0	4287.3
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	12955.2	0.0	12955.2
	% Fixture	75.1	0.0	75.1
Total	Lumens	17242.5	0.0	17242.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.6	1.1
10°-20°	626.4	3.6
20°-30°	1207.4	7.0
30°-40°	2117.1	12.3
40°-50°	3147.4	18.3
50°-60°	3989.7	23.1
60°-70°	3903.8	22.6
70°-80°	1862.1	10.8
80°-90°	199.0	1.2
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°	17242.5	100.0
0°-180°	17242.5	100.0

Coefficient of Utilization



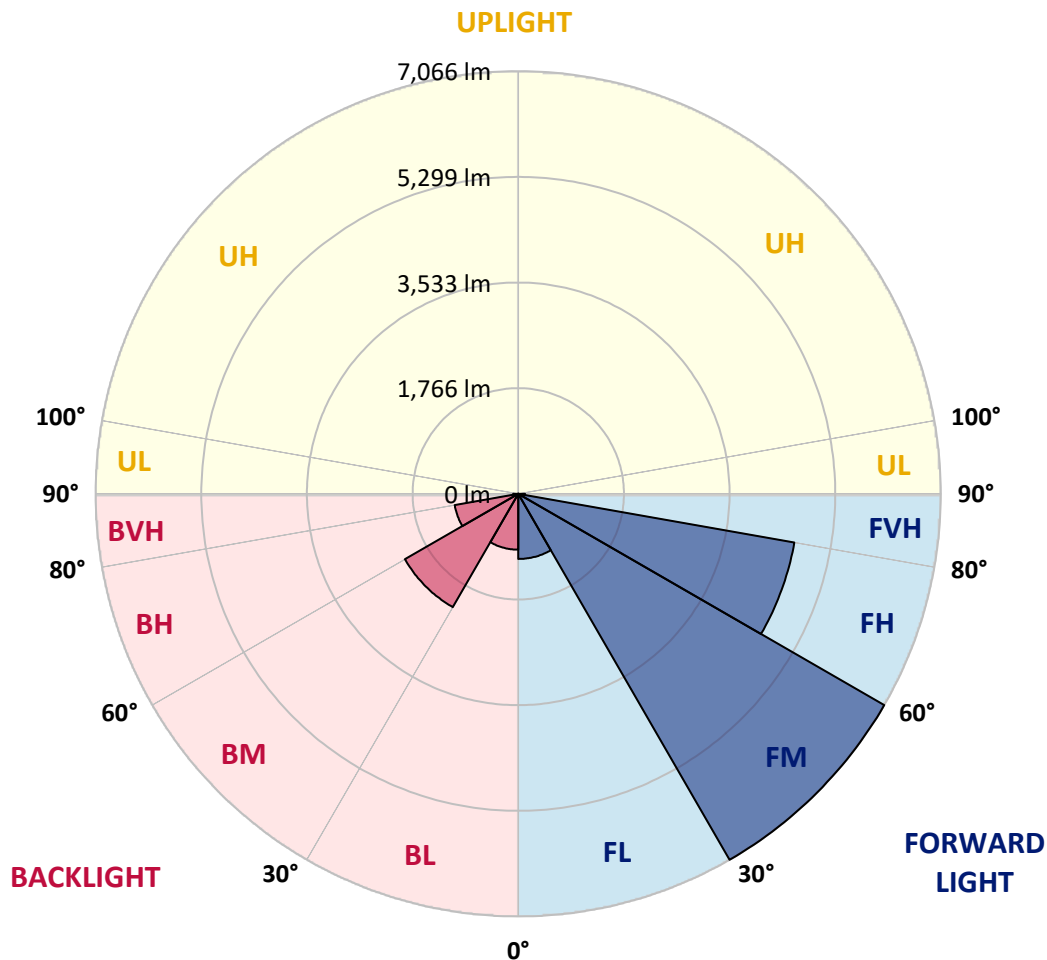
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1089.6	6.3			
FM (30°-60°)	7065.9	41.0			
FH (60°-80°)	4687.0	27.2			G2/5000
FVH (80°-90°)	112.8	0.7			G2/225
BL (0°-30°)	933.9	5.4	B2/1000		
BM (30°-60°)	2188.3	12.7	B2/2500		
BH (60°-80°)	1078.9	6.3	B3/2500		G3/2500
BVH (80°-90°)	86.2	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4
2.5°	1892.5	1903.3	1900.7	1896.1	1895.2	1897.1	1899.7	1902.5	1901.6	1906.1	1913.4
5°	1887.0	1897.9	1897.1	1897.1	1900.7	1907.9	1912.4	1917.0	1912.4	1917.9	1927.8
7.5°	1890.7	1898.8	1902.5	1906.1	1915.1	1928.7	1939.6	1949.5	1944.1	1950.5	1963.2
10°	1936.8	1943.2	1946.9	1946.9	1953.2	1968.6	1979.5	1997.6	1993.0	2003.1	2019.4
12.5°	2021.1	2027.4	2027.4	2023.9	2028.4	2038.3	2042.0	2061.9	2053.8	2070.1	2086.4
15°	2124.4	2137.1	2127.2	2120.8	2122.6	2132.6	2131.7	2147.1	2138.9	2152.5	2167.0
17.5°	2238.6	2254.9	2238.6	2237.7	2234.0	2245.0	2245.8	2259.4	2245.0	2254.9	2264.8
20°	2373.6	2396.2	2382.6	2387.1	2379.0	2383.5	2388.0	2407.9	2385.3	2392.6	2389.9
22.5°	2563.8	2591.0	2576.4	2593.7	2588.2	2584.6	2583.7	2619.1	2583.7	2586.5	2560.1
25°	2841.0	2873.6	2848.3	2871.8	2871.8	2883.6	2897.2	2942.5	2883.6	2866.4	2798.5
27.5°	3250.5	3283.1	3233.3	3247.8	3243.2	3272.2	3257.8	3370.1	3306.6	3278.6	3141.8
30°	3743.3	3801.3	3707.1	3703.4	3698.9	3745.1	3766.0	3840.3	3775.9	3747.8	3583.0
32.5°	4276.0	4336.7	4224.3	4191.7	4174.5	4202.6	4185.4	4245.2	4200.9	4157.3	3953.5
35°	4839.5	4899.3	4792.4	4728.9	4660.2	4601.2	4539.6	4555.0	4513.4	4447.3	4236.1
37.5°	5372.2	5481.8	5368.5	5300.6	5173.8	5058.8	4886.6	4815.0	4776.1	4715.4	4502.5
40°	5914.9	5977.4	5891.3	5833.3	5695.6	5515.3	5239.9	5088.6	5036.1	4977.2	4796.9
42.5°	6314.4	6374.2	6327.9	6288.1	6180.2	5971.0	5615.0	5425.6	5349.6	5283.4	5130.3
45°	6631.4	6675.8	6646.8	6661.4	6615.1	6412.2	6003.6	5787.2	5708.3	5627.7	5507.2
47.5°	6759.2	6806.3	6852.5	6938.5	7017.4	6867.9	6421.2	6178.5	6095.2	6012.6	5894.1
50°	6744.7	6792.7	6926.7	7109.8	7354.4	7304.6	6861.6	6595.2	6518.2	6424.0	6314.4
52.5°	6628.7	6683.1	6855.2	7159.6	7549.1	7631.6	7310.0	7025.6	6953.1	6840.7	6731.1
55°	6324.4	6356.9	6615.1	7046.4	7595.4	7859.9	7749.4	7483.9	7411.5	7254.7	7135.1
57.5°	5759.9	5807.0	6183.0	6741.0	7479.4	8014.8	8135.3	7965.9	7896.1	7670.6	7545.5
60°	5023.4	5098.6	5529.0	6228.3	7184.0	8013.9	8485.9	8439.6	8381.7	8080.1	7949.6
62.5°	4190.0	4276.9	4690.9	5503.5	6667.6	7786.5	8705.1	8836.5	8806.6	8457.8	8291.1
65°	3217.9	3277.6	3689.9	4565.9	5864.1	7298.2	8730.4	9107.3	9112.8	8745.0	8469.6
67.5°	2142.6	2314.7	2672.5	3426.3	4787.9	6500.0	8507.6	9151.7	9204.3	8843.7	8379.9
70°	1045.4	1271.9	1622.6	2226.8	3426.3	5276.2	7925.1	8787.5	8904.4	8555.7	7845.4
72.5°	434.0	507.3	698.4	1098.9	1966.8	3560.3	6754.6	7800.0	8016.6	7580.9	6596.1
75°	292.6	317.0	399.5	563.4	896.0	1755.7	4871.2	5816.1	6164.9	5725.5	4680.0
77.5°	225.6	241.0	290.8	394.1	532.7	664.1	2607.3	3505.1	3685.4	3411.7	2435.2
80°	177.5	189.3	217.4	287.2	377.8	355.2	888.7	1588.1	1692.3	1419.6	782.7
82.5°	154.1	158.6	155.8	194.7	250.9	207.5	291.7	586.1	646.9	469.2	255.4
85°	111.4	124.1	129.6	120.5	133.1	105.1	119.6	207.5	228.3	203.9	144.0
87.5°	45.3	67.0	82.4	77.9	48.9	29.9	37.1	60.7	69.8	76.1	47.2
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°	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4	1912.4
2.5°	1914.2	1920.5	1925.2	1930.6	1934.2	1939.6	1950.5	1956.8	1957.7	1962.3	1961.3
5°	1931.4	1940.5	1950.5	1964.9	1981.3	1994.9	2015.7	2030.2	2035.6	2040.2	2039.2
7.5°	1968.6	1981.3	1999.4	2024.8	2048.4	2066.4	2091.8	2109.0	2126.3	2132.6	2133.4
10°	2023.9	2042.0	2068.2	2102.7	2128.0	2151.6	2177.8	2192.4	2209.6	2216.9	2220.5
12.5°	2092.7	2111.7	2146.1	2194.2	2217.7	2234.0	2243.1	2239.4	2243.1	2249.5	2251.2
15°	2171.6	2192.4	2231.3	2283.0	2299.3	2284.7	2264.8	2246.7	2244.0	2245.8	2252.1
17.5°	2264.8	2280.2	2325.5	2369.0	2357.2	2297.4	2254.0	2225.0	2210.5	2205.9	2212.3
20°	2395.3	2395.3	2432.4	2459.6	2380.8	2279.3	2211.3	2164.3	2134.4	2121.6	2119.0
22.5°	2553.8	2539.3	2562.9	2543.8	2376.3	2228.6	2134.4	2052.9	2007.6	1989.4	1986.8
25°	2755.0	2737.8	2731.4	2613.6	2343.7	2148.0	1994.9	1896.1	1856.3	1846.3	1848.1
27.5°	3058.4	3014.9	2932.5	2651.7	2283.9	2021.1	1831.8	1740.3	1717.7	1718.5	1721.3
30°	3462.4	3375.5	3173.5	2658.0	2186.0	1841.7	1665.1	1599.9	1589.1	1593.6	1608.9
32.5°	3836.7	3754.2	3419.9	2629.0	2035.6	1666.0	1515.7	1472.1	1455.8	1461.2	1468.5
35°	4130.1	4107.5	3648.2	2588.2	1850.8	1501.1	1381.6	1344.4	1312.7	1305.4	1310.9
37.5°	4407.4	4398.3	3819.5	2531.1	1667.8	1384.3	1273.8	1224.8	1178.6	1153.2	1154.1
40°	4711.7	4702.7	3931.8	2443.3	1505.6	1282.8	1176.8	1112.5	1055.4	1009.2	1013.7
42.5°	5054.2	5000.8	3985.2	2317.4	1368.0	1196.8	1098.0	1011.1	935.8	893.3	896.0
45°	5428.4	5307.9	3984.3	2157.0	1252.0	1118.0	1013.7	890.5	820.8	780.9	779.1
47.5°	5825.2	5601.4	3935.4	1979.5	1139.7	1030.9	883.2	789.0	742.8	718.4	713.0
50°	6234.7	5875.9	3852.1	1775.6	1024.6	932.2	801.8	737.4	702.1	679.5	671.3
52.5°	6619.7	6125.0	3751.5	1544.6	907.7	836.2	765.5	715.7	678.6	653.1	642.3
55°	6977.5	6339.7	3609.2	1308.2	812.6	771.8	748.4	706.6	664.1	634.2	622.4
57.5°	7295.4	6479.2	3363.7	1086.2	744.7	727.4	730.2	691.3	642.3	616.9	600.6
60°	7560.0	6581.6	3000.5	880.6	689.4	684.0	702.1	662.3	605.2	576.2	563.4
62.5°	7718.6	6579.8	2554.7	721.1	642.3	644.1	664.9	626.0	568.1	540.9	532.7
65°	7704.9	6418.5	2065.6	616.9	597.0	598.8	626.0	586.1	537.2	520.9	520.0
67.5°	7432.3	6025.4	1584.4	549.0	547.1	555.3	587.0	558.9	518.2	516.4	519.1
70°	6694.0	5209.2	1141.4	494.7	495.6	507.3	549.0	541.7	508.2	511.9	511.0
72.5°	5367.6	3971.6	766.4	437.6	438.5	457.5	512.8	528.2	498.3	546.3	553.5
75°	3574.8	2476.8	492.8	376.9	377.8	402.2	481.0	501.8	471.1	544.5	549.0
77.5°	1717.7	1113.4	356.9	317.0	317.0	339.7	415.8	449.4	401.3	423.1	387.8
80°	593.4	418.5	280.8	255.4	250.0	265.5	350.5	389.6	346.0	318.9	299.0
82.5°	233.7	217.4	225.6	198.4	180.3	190.2	272.6	321.6	254.6	230.1	229.2
85°	134.1	141.3	159.5	131.4	104.1	116.8	200.2	231.0	192.1	169.4	173.0
87.5°	36.3	49.8	73.4	68.0	47.2	49.8	95.1	127.7	110.5	85.2	87.8
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)