

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: P964483

Luminaire Tested: **NAV-SB3C-722-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964483
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-SB3C-722-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19039.4 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

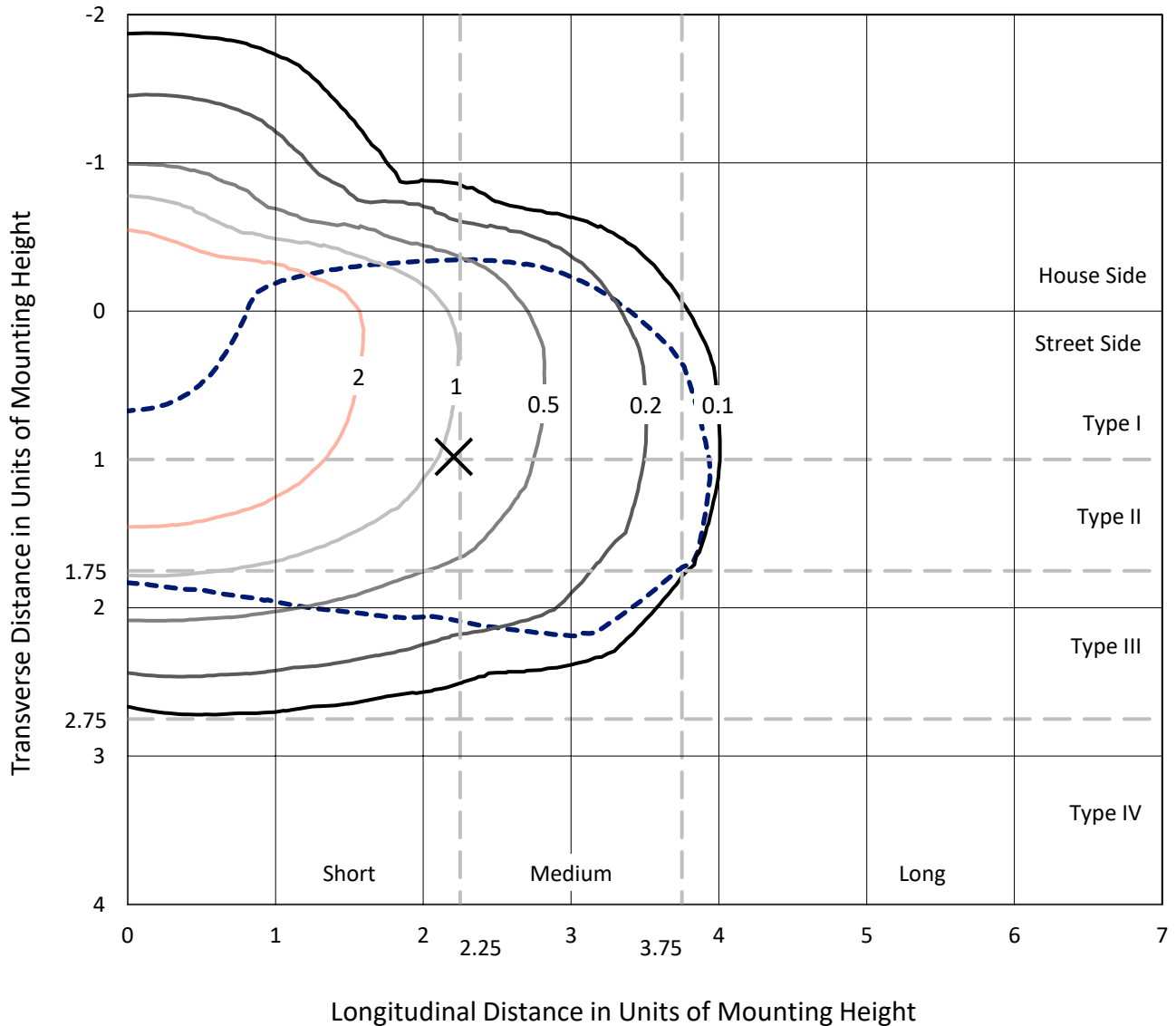
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

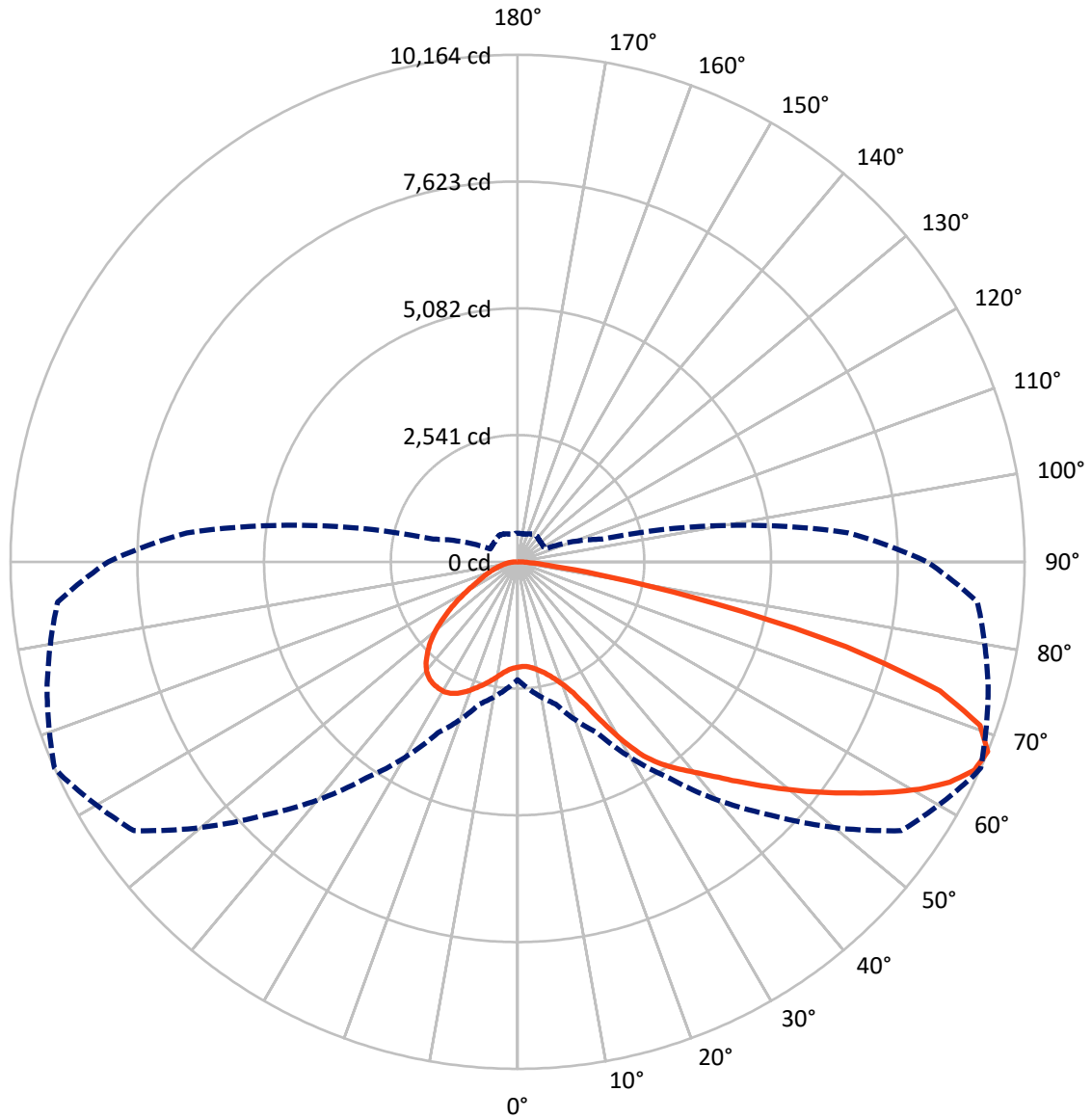
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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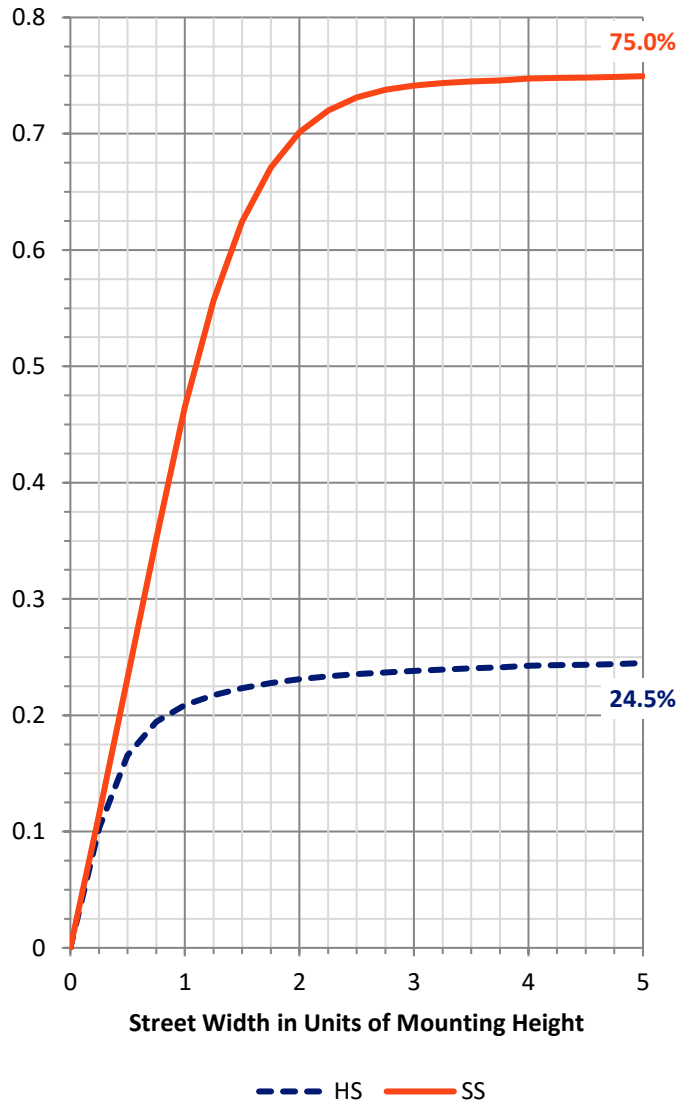
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4734.1	0.0	4734.1
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	14305.3	0.0	14305.3
	% Fixture	75.1	0.0	75.1
Total	Lumens	19039.4	0.0	19039.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.4	1.1
10°-20°	691.7	3.6
20°-30°	1333.3	7.0
30°-40°	2337.7	12.3
40°-50°	3475.4	18.3
50°-60°	4405.4	23.1
60°-70°	4310.6	22.6
70°-80°	2056.2	10.8
80°-90°	219.7	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°	19039.4	100.0
0°-180°	19039.4	100.0

Coefficient of Utilization



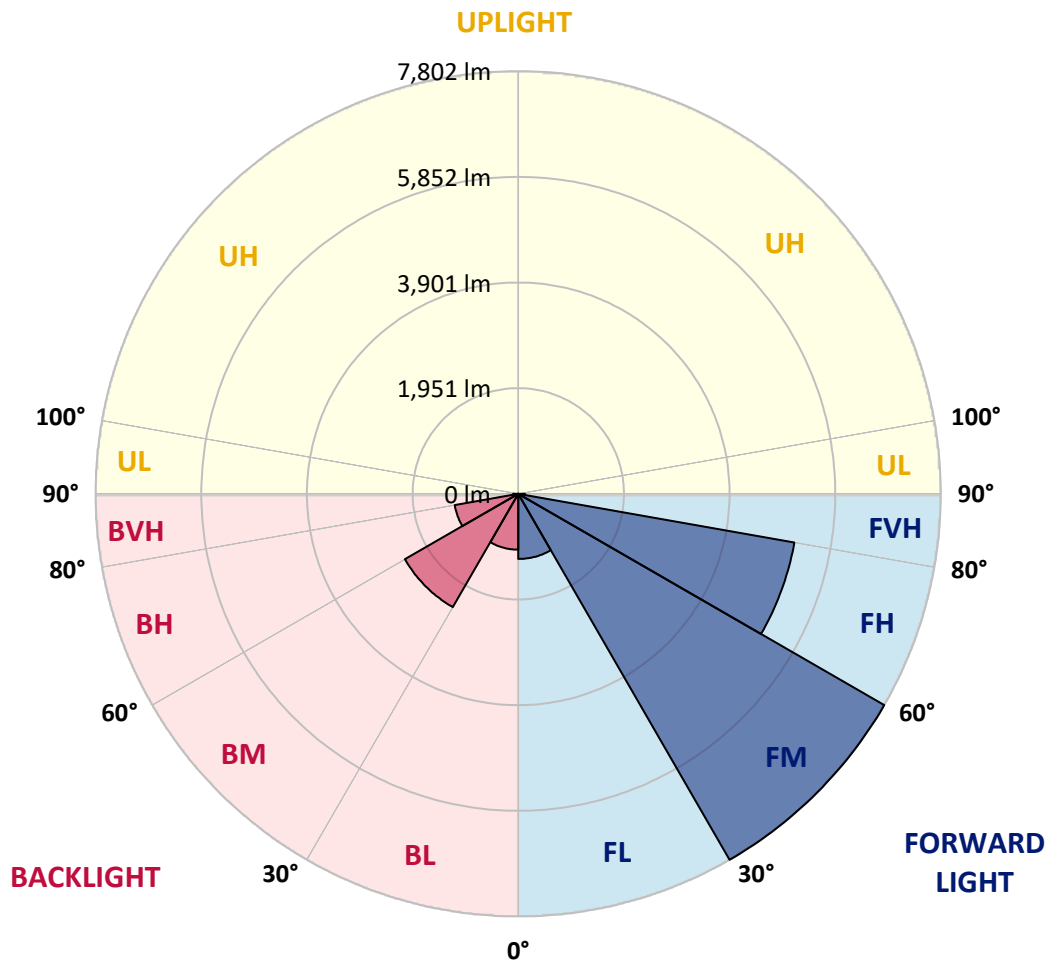
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1203.1	6.3			
FM (30°-60°)	7802.2	41.0			
FH (60°-80°)	5175.4	27.2			G3/7500
FVH (80°-90°)	124.6	0.7			G2/225
BL (0°-30°)	1031.3	5.4	B3/2500		
BM (30°-60°)	2416.3	12.7	B2/2500		
BH (60°-80°)	1191.3	6.3	B3/2500		G3/2500
BVH (80°-90°)	95.2	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°	2111.7	2111.7	2111.7	2111.7	2111.7	2111.7	2111.7	2111.7	2111.7	2111.7	2111.7
2.5°	2089.7	2101.8	2098.7	2093.7	2092.7	2094.7	2097.7	2100.7	2099.7	2104.7	2112.7
5°	2083.7	2095.7	2094.7	2094.7	2098.7	2106.7	2111.7	2116.7	2111.7	2117.8	2128.7
7.5°	2087.7	2096.7	2100.7	2104.7	2114.7	2129.7	2141.7	2152.7	2146.8	2153.7	2167.8
10°	2138.8	2145.7	2149.7	2149.7	2156.7	2173.7	2185.7	2205.8	2200.8	2211.7	2229.8
12.5°	2231.7	2238.8	2238.8	2234.8	2239.7	2250.8	2254.8	2276.7	2267.8	2285.8	2303.8
15°	2345.8	2359.8	2348.8	2341.8	2343.8	2354.8	2353.8	2370.8	2361.8	2376.8	2392.9
17.5°	2471.9	2489.8	2471.9	2470.9	2466.9	2478.9	2479.9	2494.8	2478.9	2489.8	2500.9
20°	2620.9	2645.9	2630.9	2635.9	2626.9	2631.9	2636.9	2659.0	2633.9	2641.9	2638.9
22.5°	2830.9	2861.0	2845.0	2864.0	2858.0	2854.0	2853.0	2891.9	2853.0	2856.0	2827.0
25°	3137.1	3173.1	3145.1	3171.0	3171.0	3184.1	3199.1	3249.1	3184.1	3165.1	3090.1
27.5°	3589.2	3625.2	3570.2	3586.3	3581.2	3613.2	3597.2	3721.3	3651.3	3620.2	3469.2
30°	4133.4	4197.5	4093.4	4089.3	4084.4	4135.4	4158.4	4240.4	4169.4	4138.4	3956.3
32.5°	4721.6	4788.6	4664.6	4628.6	4609.5	4640.6	4621.6	4687.6	4638.5	4590.6	4365.5
35°	5343.8	5409.8	5291.8	5221.8	5145.7	5080.7	5012.7	5029.7	4983.7	4910.7	4677.6
37.5°	5932.0	6053.0	5928.0	5853.0	5712.9	5585.9	5395.8	5316.8	5273.8	5206.8	4971.7
40°	6531.2	6600.3	6505.2	6441.2	6289.1	6090.0	5785.9	5618.9	5560.9	5495.8	5296.8
42.5°	6972.4	7038.4	6987.4	6943.4	6824.3	6593.2	6200.1	5991.0	5907.0	5834.0	5665.0
45°	7322.5	7371.5	7339.5	7355.5	7304.5	7080.4	6629.3	6390.2	6303.1	6214.1	6081.0
47.5°	7463.5	7515.6	7566.6	7661.6	7748.6	7583.6	7090.4	6822.3	6730.3	6639.2	6508.2
50°	7447.5	7500.5	7648.7	7850.7	8120.8	8065.7	7576.6	7282.5	7197.4	7093.4	6972.4
52.5°	7319.5	7379.5	7569.6	7905.7	8335.8	8426.8	8071.8	7757.6	7677.7	7553.5	7432.5
55°	6983.3	7019.4	7304.5	7780.7	8386.9	8679.0	8556.9	8263.9	8183.8	8010.7	7878.7
57.5°	6360.1	6412.2	6827.3	7443.6	8258.8	8850.1	8983.1	8796.0	8719.0	8469.9	8331.8
60°	5546.9	5629.9	6105.1	6877.3	7932.7	8849.0	9370.1	9319.2	9255.1	8922.0	8778.0
62.5°	4626.5	4722.6	5179.7	6077.0	7362.5	8597.9	9612.2	9757.3	9724.3	9339.2	9155.1
65°	3553.2	3619.3	4074.4	5041.7	6475.2	8058.8	9640.3	10056.4	10062.4	9656.3	9352.2
67.5°	2365.8	2555.8	2951.0	3783.3	5286.8	7177.5	9394.2	10105.5	10163.5	9765.3	9253.2
70°	1154.4	1404.5	1791.6	2458.9	3783.3	5826.0	8750.9	9703.3	9832.3	9447.2	8663.0
72.5°	479.2	560.2	771.3	1213.4	2171.8	3931.4	7458.5	8613.0	8852.0	8370.9	7283.4
75°	323.1	350.1	441.2	622.2	989.3	1938.7	5378.8	6422.1	6807.3	6322.2	5167.7
77.5°	249.1	266.1	321.1	435.1	588.2	733.3	2879.0	3870.3	4069.4	3767.3	2688.9
80°	196.1	209.1	240.1	317.1	417.2	392.2	981.3	1753.6	1868.7	1567.5	864.3
82.5°	170.0	175.1	172.1	215.0	277.1	229.1	322.2	647.2	714.2	518.1	282.1
85°	123.0	137.0	143.1	133.0	147.1	116.0	132.0	229.1	252.0	225.1	159.1
87.5°	50.0	74.0	91.0	86.0	54.0	33.0	41.0	67.0	77.0	84.0	52.0
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°	2111.7	2111.7	2111.7	2111.7	2111.7	2111.7	2111.7	2111.7	2111.7	2111.7	2111.7
2.5°	2113.8	2120.7	2125.7	2131.7	2135.7	2141.7	2153.7	2160.7	2161.7	2166.7	2165.7
5°	2132.7	2142.8	2153.7	2169.7	2187.8	2202.7	2225.8	2241.8	2247.7	2252.7	2251.7
7.5°	2173.7	2187.8	2207.7	2235.7	2261.8	2281.8	2309.7	2328.8	2347.8	2354.8	2355.8
10°	2234.8	2254.8	2283.8	2321.8	2349.8	2375.8	2404.9	2420.8	2439.8	2447.8	2451.8
12.5°	2310.8	2331.8	2369.8	2422.8	2448.8	2466.9	2476.8	2472.8	2476.8	2483.9	2485.8
15°	2397.8	2420.8	2463.8	2520.9	2538.8	2522.8	2500.9	2480.8	2477.8	2479.9	2486.9
17.5°	2500.9	2517.8	2567.8	2615.9	2602.9	2536.9	2488.8	2456.8	2440.8	2435.8	2442.8
20°	2644.9	2644.9	2685.9	2715.9	2628.9	2516.9	2441.9	2389.8	2356.8	2342.8	2339.8
22.5°	2820.0	2804.0	2829.9	2808.9	2623.9	2460.8	2356.8	2266.8	2216.8	2196.8	2193.7
25°	3042.0	3023.0	3016.1	2886.0	2587.9	2371.8	2202.7	2093.7	2049.7	2038.7	2040.7
27.5°	3377.2	3329.1	3238.1	2928.0	2521.8	2231.7	2022.7	1921.7	1896.7	1897.7	1900.7
30°	3823.2	3727.3	3504.2	2935.0	2413.8	2033.7	1838.6	1766.6	1754.6	1759.6	1776.6
32.5°	4236.4	4145.4	3776.3	2903.0	2247.7	1839.7	1673.6	1625.5	1607.5	1613.6	1621.6
35°	4560.5	4535.5	4028.4	2858.0	2043.6	1657.5	1525.5	1484.5	1449.5	1441.5	1447.5
37.5°	4866.7	4856.7	4217.5	2795.0	1841.6	1528.5	1406.5	1352.5	1301.4	1273.5	1274.4
40°	5202.8	5192.8	4341.5	2697.9	1662.6	1416.4	1299.4	1228.5	1165.4	1114.4	1119.4
42.5°	5580.9	5521.9	4400.5	2558.9	1510.5	1321.4	1212.4	1116.4	1033.3	986.4	989.3
45°	5994.0	5861.0	4399.5	2381.8	1382.5	1234.4	1119.4	983.4	906.3	862.3	860.3
47.5°	6432.2	6185.1	4345.5	2185.7	1258.4	1138.4	975.3	871.2	820.3	793.2	787.3
50°	6884.3	6488.2	4253.4	1960.6	1131.4	1029.3	885.3	814.3	775.3	750.3	741.3
52.5°	7309.5	6763.3	4142.4	1705.6	1002.3	923.3	845.3	790.3	749.3	721.3	709.2
55°	7704.6	7000.3	3985.4	1444.5	897.3	852.3	826.3	780.2	733.3	700.3	687.3
57.5°	8055.8	7154.4	3714.3	1199.5	822.3	803.3	806.3	763.2	709.2	681.2	663.2
60°	8347.8	7267.5	3313.1	972.3	761.3	755.2	775.3	731.2	668.2	636.2	622.2
62.5°	8522.9	7265.5	2821.0	796.2	709.2	711.2	734.2	691.3	627.2	597.2	588.2
65°	8507.9	7087.4	2280.7	681.2	659.2	661.2	691.3	647.2	593.2	575.2	574.2
67.5°	8206.8	6653.3	1749.6	606.2	604.2	613.3	648.2	617.3	572.2	570.2	573.2
70°	7391.5	5752.0	1260.4	546.2	547.1	560.2	606.2	598.2	561.2	565.2	564.2
72.5°	5927.1	4385.5	846.2	483.2	484.2	505.2	566.2	583.2	550.2	603.2	611.2
75°	3947.4	2734.9	544.2	416.2	417.2	444.1	531.2	554.2	520.2	601.2	606.2
77.5°	1896.7	1229.4	394.1	350.1	350.1	375.2	459.2	496.2	443.1	467.2	428.1
80°	655.2	462.2	310.1	282.1	276.1	293.2	387.1	430.2	382.1	352.1	330.2
82.5°	258.1	240.1	249.1	219.0	199.1	210.0	301.1	355.2	281.1	254.1	253.1
85°	148.0	156.0	176.1	145.0	115.0	129.0	221.1	255.1	212.1	187.1	191.1
87.5°	40.0	55.0	81.1	75.0	52.0	55.0	105.1	141.0	122.1	94.0	97.1
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)