

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: P967640

Luminaire Tested: **NAV-SB5A-722-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967640
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5A-722-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19444.2 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

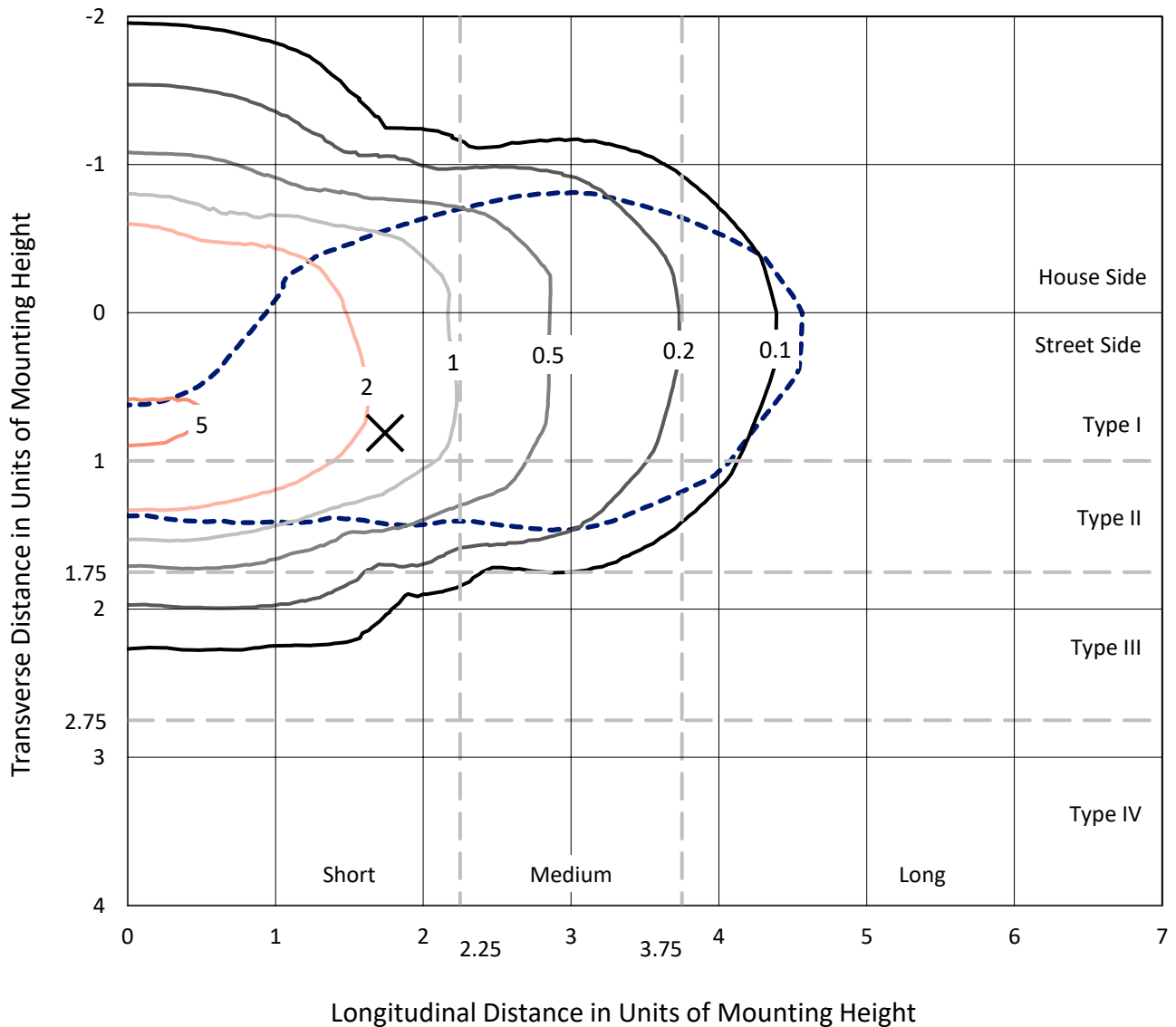
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

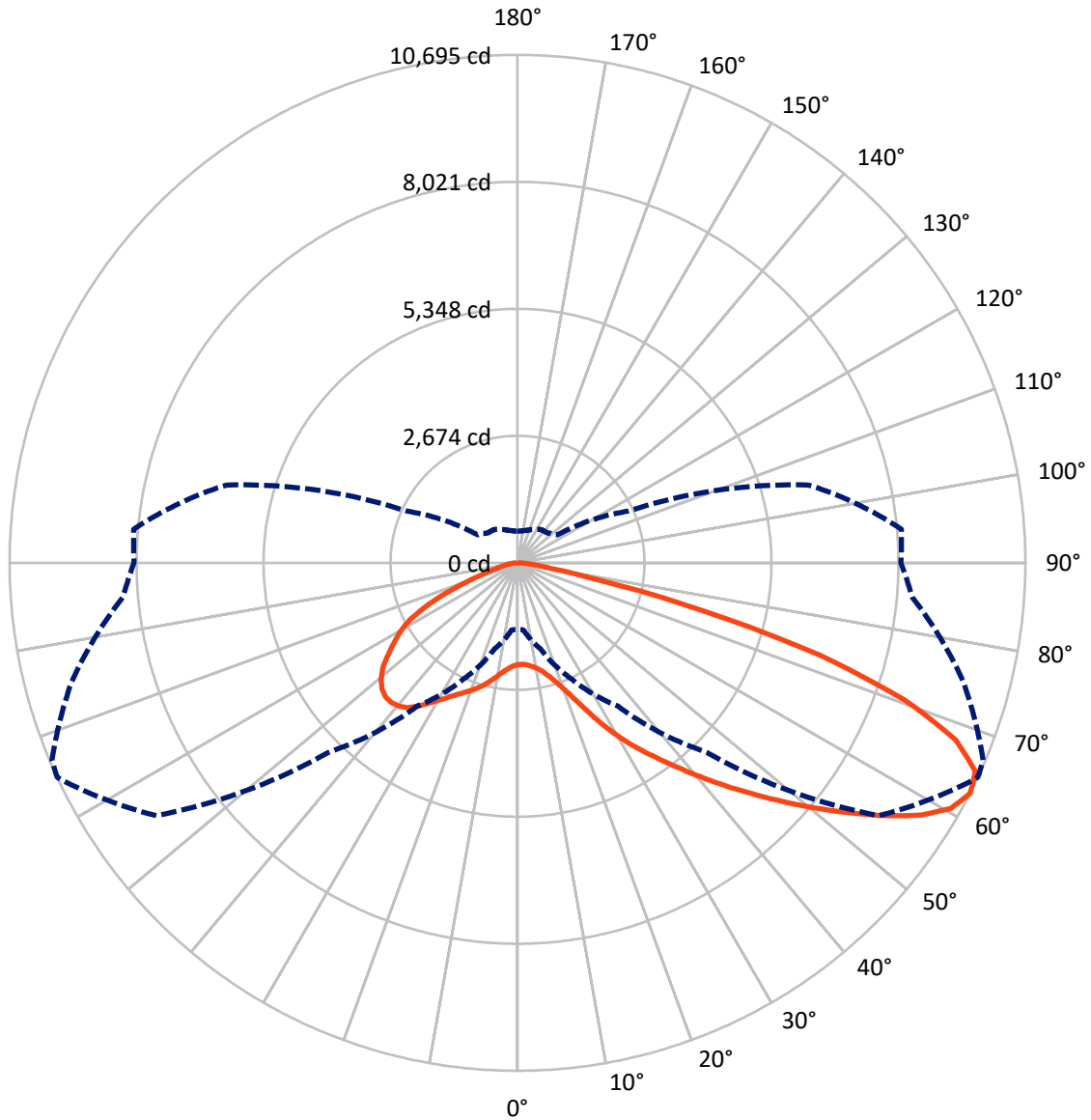
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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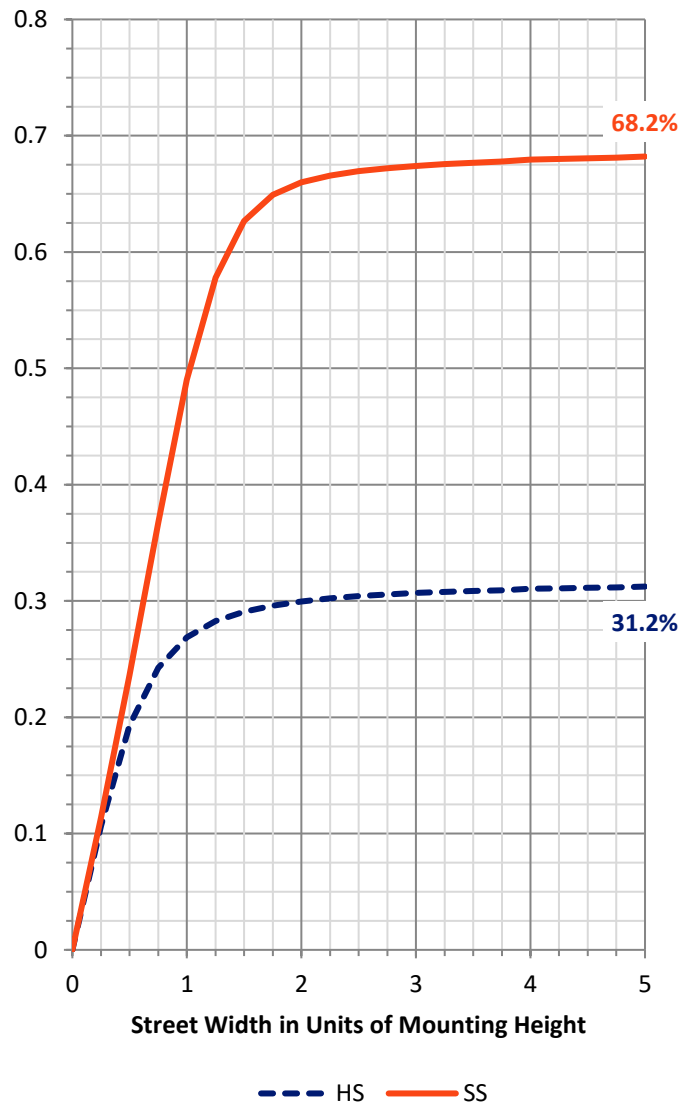
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6135.7	0.0	6135.7
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	13308.5	0.0	13308.5
	% Fixture	68.4	0.0	68.4
Total	Lumens	19444.2	0.0	19444.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.6	1.1
10°-20°	724.4	3.7
20°-30°	1468.8	7.6
30°-40°	2541.8	13.1
40°-50°	3846.5	19.8
50°-60°	4509.8	23.2
60°-70°	3780.9	19.4
70°-80°	2087.3	10.7
80°-90°	271.1	1.4
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°	19444.2	100.0
0°-180°	19444.2	100.0

Coefficient of Utilization



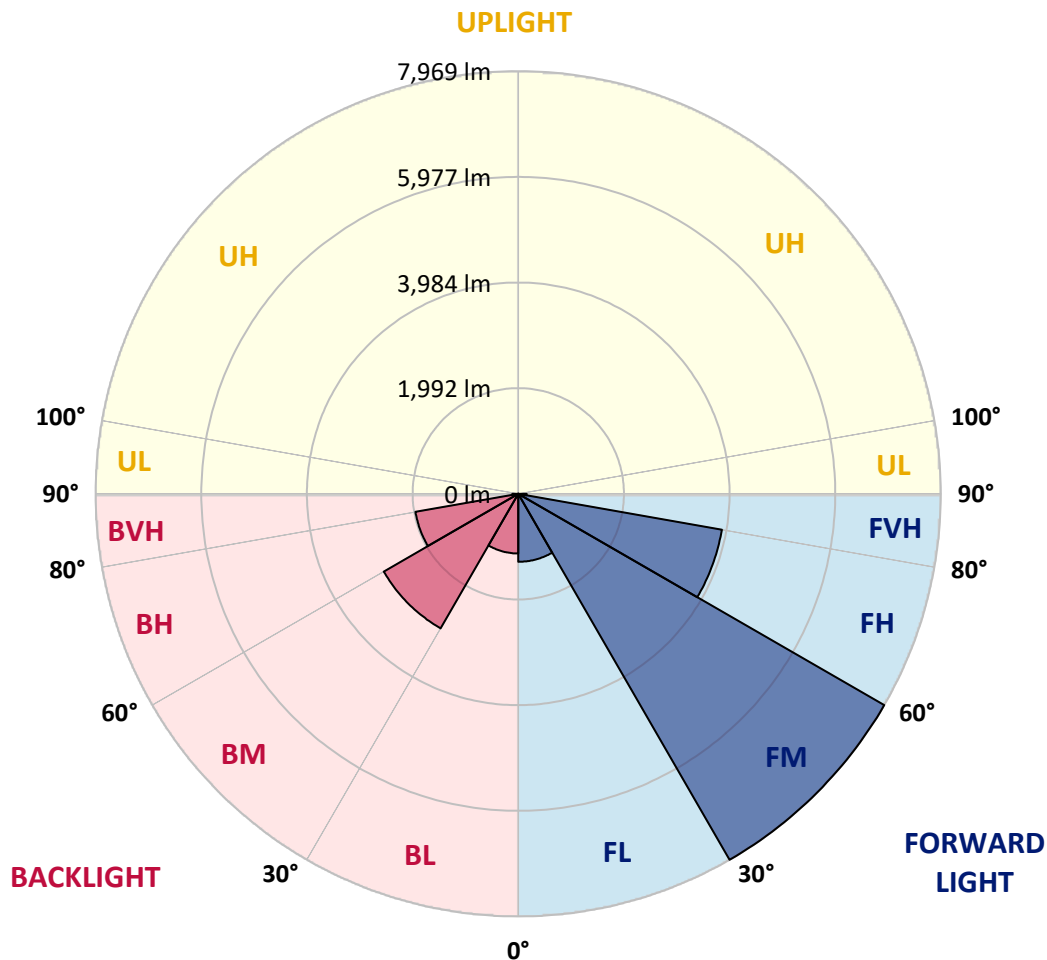
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1281.6	6.6			
FM (30°-60°)	7968.9	41.0			
FH (60°-80°)	3899.9	20.1			G2/5000
FVH (80°-90°)	158.0	0.8			G2/225
BL (0°-30°)	1125.2	5.8	B3/2500		
BM (30°-60°)	2929.1	15.1	B3/5000		
BH (60°-80°)	1968.3	10.1	B3/2500		G3/2500
BVH (80°-90°)	113.1	0.6			G2/225
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2142.7	2142.7	2142.7	2142.7	2142.7	2142.7	2142.7	2142.7	2142.7	2142.7	2142.7
2.5°	2128.5	2122.5	2127.5	2127.5	2129.5	2128.5	2135.6	2137.6	2140.6	2146.7	2146.7
5°	2107.4	2106.4	2115.4	2123.5	2131.6	2138.7	2147.7	2160.8	2162.9	2169.9	2178.9
7.5°	2100.3	2094.3	2108.3	2118.5	2137.6	2154.8	2178.9	2201.2	2210.3	2213.3	2230.4
10°	2154.8	2144.7	2157.8	2163.9	2180.0	2197.2	2225.4	2260.7	2270.8	2282.9	2302.0
12.5°	2247.6	2236.4	2255.6	2264.7	2279.9	2295.0	2314.1	2348.5	2353.5	2375.7	2393.9
15°	2374.7	2361.6	2373.7	2384.8	2410.0	2424.1	2443.3	2476.6	2476.6	2493.7	2506.8
17.5°	2547.2	2530.0	2539.1	2543.1	2559.3	2580.4	2612.7	2642.0	2657.1	2651.1	2632.9
20°	2804.4	2783.3	2783.3	2763.1	2757.0	2774.2	2816.5	2856.9	2873.1	2841.8	2797.3
22.5°	3190.8	3160.6	3143.4	3074.8	3047.5	3049.6	3091.9	3141.4	3154.5	3099.0	2999.1
25°	3682.1	3634.6	3611.5	3510.6	3449.0	3395.6	3428.8	3492.5	3510.6	3442.0	3280.6
27.5°	4173.4	4176.4	4154.2	4033.2	3931.3	3833.4	3816.3	3882.8	3902.0	3824.4	3624.6
30°	4862.4	4790.7	4748.4	4603.1	4457.8	4320.7	4250.1	4277.2	4282.3	4189.5	3957.5
32.5°	5456.6	5438.3	5347.6	5220.5	5033.9	4819.0	4701.0	4657.6	4649.5	4517.4	4242.0
35°	6133.5	6123.3	6027.5	5876.2	5674.4	5375.8	5163.0	5038.9	5028.9	4843.2	4523.4
37.5°	6821.5	6821.5	6727.6	6562.2	6353.4	5980.2	5656.3	5459.6	5427.3	5185.2	4809.9
40°	7370.3	7337.0	7354.1	7284.5	7045.4	6649.0	6204.0	5918.6	5875.2	5584.7	5114.5
42.5°	7682.0	7670.9	7773.7	7851.4	7753.6	7436.8	6807.3	6415.9	6355.4	6024.5	5465.6
45°	7751.6	7739.5	7923.0	8207.5	8344.7	8214.6	7463.0	6939.5	6865.9	6484.5	5841.9
47.5°	7591.2	7567.0	7836.3	8285.2	8725.0	8954.0	8173.2	7507.4	7400.5	6932.4	6228.3
50°	7109.0	7085.7	7493.3	8089.5	8853.1	9456.4	8943.9	8109.7	7946.2	7412.6	6618.6
52.5°	6060.8	6071.9	6710.5	7529.6	8684.7	9769.2	9607.7	8744.2	8547.5	7903.9	6984.9
55°	4721.2	4745.3	5530.2	6432.1	8010.8	9721.7	10060.7	9397.9	9202.1	8365.9	7363.2
57.5°	3380.4	3487.4	4222.8	5115.6	6716.5	8970.2	10159.5	10019.3	9829.6	8870.3	7733.4
60°	2191.1	2210.3	2966.9	3866.7	5114.5	7634.5	9958.8	10490.5	10342.1	9384.8	8043.1
62.5°	1404.2	1417.4	1878.4	2704.6	3681.1	5648.3	9282.9	10695.2	10649.9	9724.8	8340.7
65°	1032.0	1021.9	1262.0	1787.6	2479.6	3483.4	7970.5	10596.3	10686.1	9937.6	8586.8
67.5°	861.5	847.4	965.4	1237.8	1827.0	1978.2	5897.4	9953.8	10282.6	9913.4	8767.4
70°	784.8	772.7	844.4	919.0	1425.5	1324.5	2972.9	8653.5	9159.8	9638.0	8738.1
72.5°	664.8	643.6	741.5	816.1	1108.6	1015.9	1228.7	6646.9	7264.3	8755.3	8326.6
75°	515.5	501.3	585.1	718.2	833.2	792.9	776.7	4036.1	4710.1	6771.0	7284.5
77.5°	408.6	389.4	466.1	559.9	749.6	598.2	565.9	1738.2	2406.0	4322.6	5450.5
80°	307.7	290.5	354.0	442.9	576.0	450.9	366.2	709.2	906.9	2190.1	2740.8
82.5°	218.9	203.8	247.1	324.8	387.3	404.6	225.0	397.5	446.9	844.4	612.3
85°	140.2	131.1	165.4	203.8	246.1	260.2	137.1	207.8	228.0	348.0	255.2
87.5°	76.7	62.5	88.8	94.8	114.0	103.9	65.6	75.6	81.7	126.1	107.9
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°	2142.7	2142.7	2142.7	2142.7	2142.7	2142.7	2142.7	2142.7	2142.7	2142.7	2142.7
2.5°	2150.8	2153.7	2163.9	2166.8	2173.9	2183.0	2189.1	2195.1	2195.1	2201.2	2201.2
5°	2180.0	2187.0	2208.3	2219.3	2237.5	2255.6	2266.8	2279.9	2287.9	2292.0	2294.0
7.5°	2236.4	2247.6	2277.9	2297.0	2328.3	2353.5	2370.6	2388.9	2392.9	2403.9	2399.9
10°	2313.1	2326.2	2360.6	2396.9	2434.2	2465.5	2481.6	2494.7	2499.8	2501.8	2496.8
12.5°	2401.0	2420.1	2464.5	2508.9	2548.3	2575.4	2579.5	2576.4	2562.3	2550.2	2550.2
15°	2508.9	2526.0	2575.4	2623.9	2662.2	2667.3	2642.0	2625.8	2608.7	2605.8	2605.8
17.5°	2637.9	2647.1	2692.5	2739.9	2742.9	2725.8	2688.5	2673.3	2657.1	2646.0	2647.1
20°	2788.3	2785.2	2817.5	2837.7	2816.5	2764.1	2707.6	2682.4	2666.2	2653.1	2654.1
22.5°	2967.9	2944.6	2940.6	2935.6	2879.1	2769.1	2692.5	2660.2	2635.0	2616.8	2622.9
25°	3229.2	3140.4	3078.8	3044.6	2917.5	2741.9	2644.1	2572.4	2525.0	2493.7	2505.8
27.5°	3556.0	3406.7	3251.3	3167.6	2917.5	2686.4	2527.0	2411.0	2333.3	2301.0	2317.2
30°	3867.7	3711.3	3482.3	3315.9	2910.4	2595.6	2338.3	2177.0	2086.2	2053.9	2073.1
32.5°	4134.0	3963.6	3727.5	3478.3	2893.2	2448.3	2104.3	1925.8	1838.0	1799.7	1818.9
35°	4381.2	4199.6	3973.6	3656.9	2847.9	2232.4	1847.0	1710.9	1613.0	1551.5	1571.7
37.5°	4634.4	4418.5	4206.7	3818.2	2766.1	1980.3	1649.3	1533.4	1418.4	1335.7	1357.8
40°	4909.8	4651.6	4455.9	3914.1	2631.9	1740.1	1496.0	1390.1	1268.0	1180.3	1197.4
42.5°	5231.6	4931.0	4733.2	3963.6	2448.3	1569.7	1396.2	1292.2	1177.2	1105.7	1119.7
45°	5567.5	5238.7	4986.4	3962.5	2243.5	1489.9	1363.9	1261.0	1133.9	1059.2	1071.3
47.5°	5919.6	5560.4	5205.4	3898.0	2066.0	1501.1	1345.7	1193.4	1053.2	980.5	990.7
50°	6272.7	5912.5	5417.2	3776.9	1990.3	1476.8	1278.2	1098.6	933.2	867.6	871.6
52.5°	6622.7	6286.7	5599.8	3604.4	1913.7	1387.1	1191.4	975.5	883.7	838.3	838.3
55°	6974.8	6657.0	5798.5	3353.2	1722.0	1282.2	1046.1	929.1	844.4	803.0	799.0
57.5°	7327.8	7084.7	5987.1	3102.1	1480.9	1153.0	966.5	872.6	805.0	769.7	763.6
60°	7695.1	7574.0	6181.9	2871.0	1242.8	987.6	907.9	827.2	758.6	719.2	716.3
62.5°	8073.3	8112.7	6334.2	2573.5	1023.9	886.7	855.5	772.7	706.1	668.8	667.8
65°	8454.7	8632.2	6434.0	2160.8	830.2	790.9	799.0	713.2	645.6	613.4	612.3
67.5°	8742.2	9006.5	6405.8	1635.3	680.9	700.1	728.4	650.7	587.1	561.9	562.9
70°	8774.5	8962.1	6127.3	1119.7	570.0	611.3	649.6	589.2	523.6	505.4	506.5
72.5°	8344.7	8356.8	5351.6	731.3	482.2	536.7	566.9	526.5	463.0	444.8	443.8
75°	7217.9	6911.3	3929.2	482.2	403.5	461.0	489.2	461.0	399.4	403.5	389.4
77.5°	5468.7	4894.7	2385.8	343.0	336.9	387.3	425.7	405.5	353.1	396.5	349.0
80°	2817.5	2648.1	1064.3	256.2	266.3	309.7	350.0	323.8	279.4	266.3	243.1
82.5°	645.6	750.5	419.6	183.6	192.7	222.9	267.3	243.1	200.8	169.4	167.5
85°	226.0	247.1	185.6	115.0	113.0	139.2	181.6	162.5	136.2	109.0	115.0
87.5°	71.6	93.8	69.6	46.4	48.4	62.5	83.7	76.7	63.6	41.4	43.4
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)