

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: P964988

Luminaire Tested: **NAV-SB3D-722-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964988
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3D-722-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26292.3 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

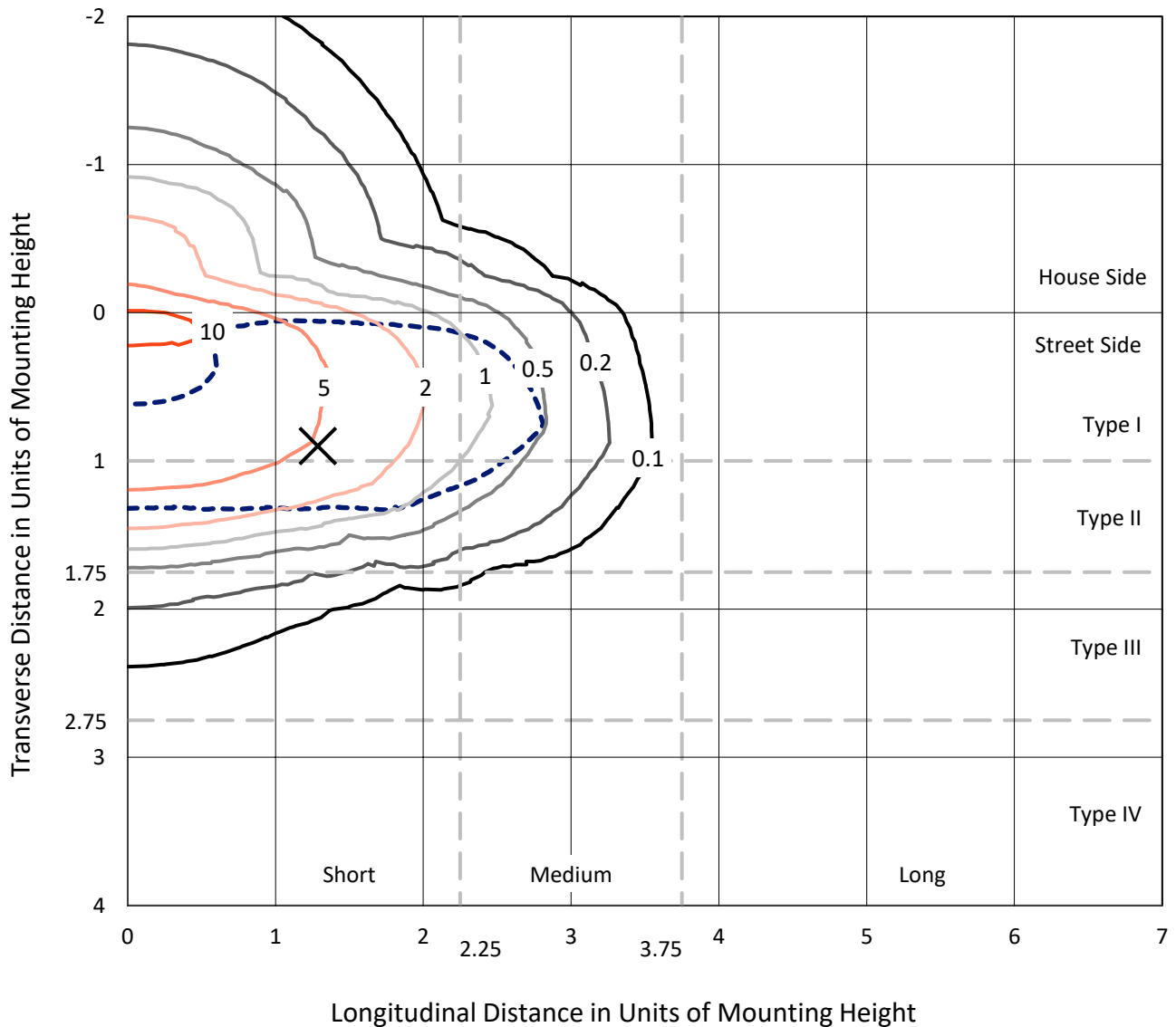
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

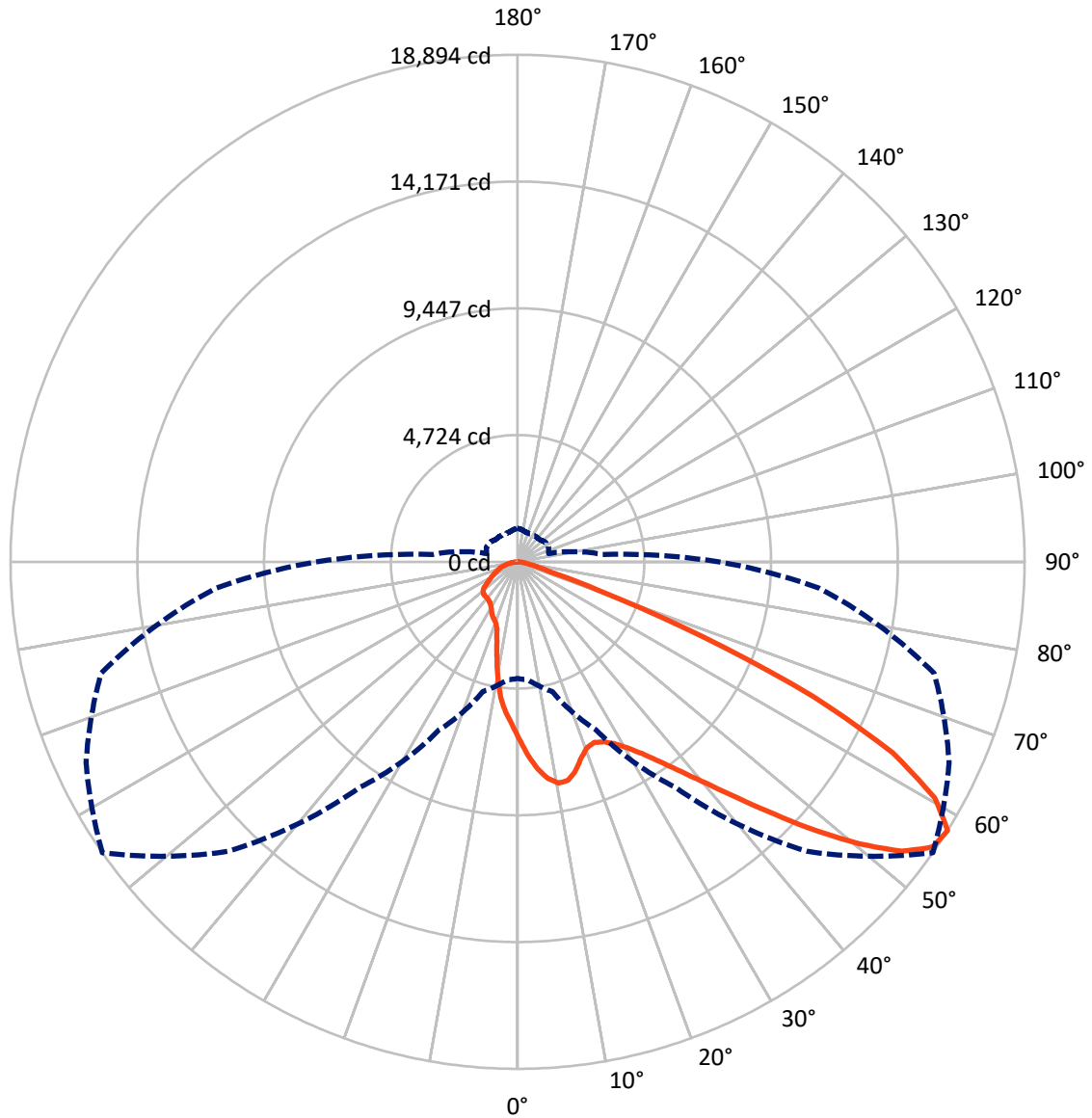
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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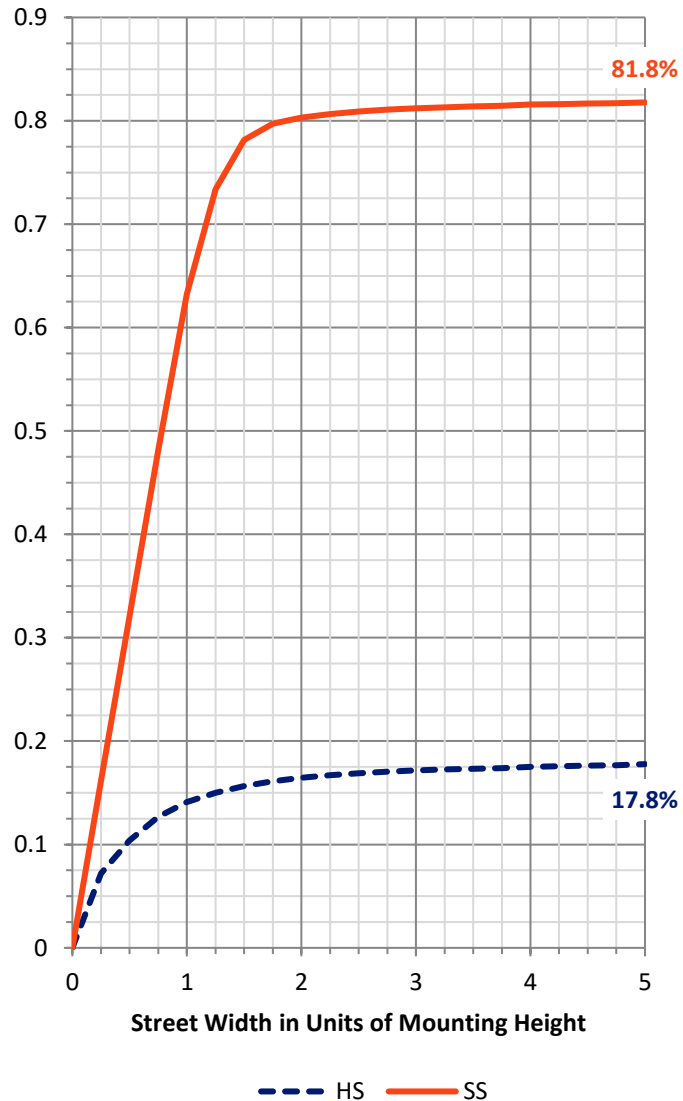
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4757.5	0.0	4757.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	21534.8	0.0	21534.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	26292.3	0.0	26292.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	611.3	2.3
10°-20°	1543.0	5.9
20°-30°	2462.2	9.4
30°-40°	3898.3	14.8
40°-50°	5966.7	22.7
50°-60°	6390.9	24.3
60°-70°	4020.6	15.3
70°-80°	1189.0	4.5
80°-90°	210.2	0.8
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°	26292.3	100.0
0°-180°	26292.3	100.0

Coefficient of Utilization



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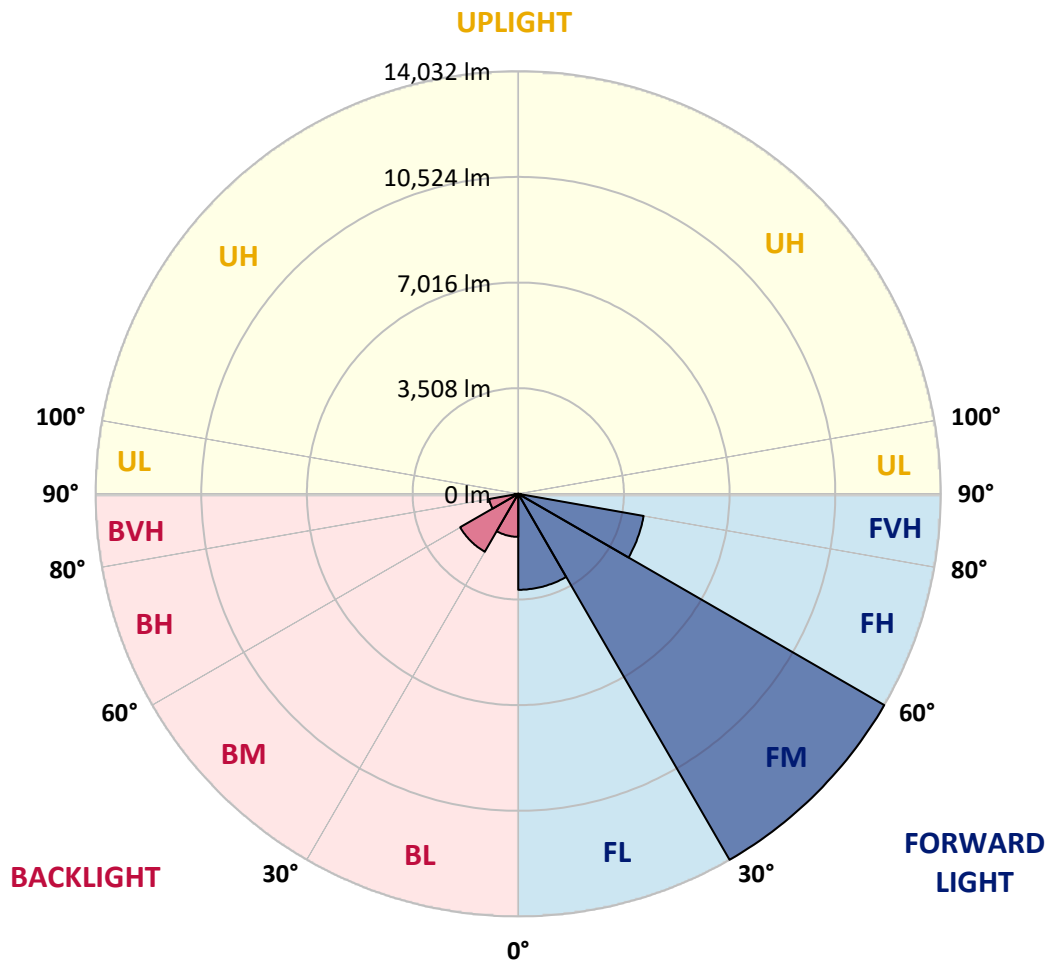
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3186.6	12.1			
FM (30°-60°)	14032.4	53.4			
FH (60°-80°)	4227.0	16.1			G2/5000
FVH (80°-90°)	88.8	0.3			G1/100
BL (0°-30°)	1429.9	5.4	B3/2500		
BM (30°-60°)	2223.6	8.5	B2/2500		
BH (60°-80°)	982.5	3.7	B2/1000		G2/1000
BVH (80°-90°)	121.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6588.0	6588.0	6588.0	6588.0	6588.0	6588.0	6588.0	6588.0	6588.0	6588.0	6588.0
2.5°	7558.5	7553.0	7582.9	7481.0	7411.7	7317.9	7194.2	7036.5	6866.6	6687.2	6609.7
5°	8239.4	8191.8	8223.1	8147.0	8070.8	7929.5	7746.0	7489.2	7175.2	6817.7	6627.4
7.5°	8132.0	8099.4	8179.6	8247.6	8304.7	8287.0	8152.4	7883.3	7478.3	6959.0	6683.1
10°	7266.2	7229.5	7342.4	7577.5	7922.7	8223.1	8386.2	8219.1	7788.2	7114.0	6737.5
12.5°	6502.4	6484.7	6559.5	6749.7	7133.0	7709.3	8356.3	8512.6	8110.3	7297.5	6810.9
15°	6176.1	6154.4	6202.0	6298.5	6543.1	7080.0	8084.5	8713.7	8426.9	7509.6	6927.8
17.5°	6104.1	6079.7	6100.1	6150.3	6308.0	6717.1	7674.0	8812.9	8757.3	7746.0	7025.7
20°	6237.3	6216.9	6219.7	6216.9	6327.0	6651.8	7388.5	8774.9	9045.4	7963.5	7120.8
22.5°	6559.5	6525.5	6526.8	6454.8	6514.6	6766.0	7313.8	8673.0	9302.3	8153.8	7192.8
25°	7084.1	7022.9	7035.2	6851.7	6835.3	7021.6	7430.7	8594.1	9557.8	8306.0	7206.5
27.5°	7801.8	7732.4	7695.7	7422.5	7292.1	7384.5	7668.5	8621.4	9799.7	8437.8	7172.4
30°	8698.8	8614.5	8539.8	8152.4	7915.9	7881.9	8038.3	8800.8	10085.2	8576.5	7114.0
32.5°	9798.4	9700.5	9564.6	9050.9	8717.8	8539.8	8516.7	9120.1	10419.5	8753.2	7084.1
35°	11107.3	10979.5	10786.5	10121.9	9700.5	9336.3	9147.3	9580.9	10877.6	9019.6	7118.1
37.5°	12455.6	12311.6	12134.9	11343.8	10825.9	10289.1	9916.7	10206.1	11487.9	9381.1	7207.8
40°	13699.2	13537.5	13373.1	12669.0	12113.1	11466.2	10858.5	10997.2	12234.1	9813.3	7360.0
42.5°	14433.2	14313.6	14251.1	13870.5	13441.0	12784.5	12030.2	11935.0	13072.6	10310.8	7534.0
45°	14400.6	14351.6	14544.6	14702.4	14600.4	14236.1	13403.0	12972.1	13914.1	10741.7	7694.4
47.5°	13631.3	13664.0	14094.8	14981.0	15371.1	15561.3	14966.0	13990.1	14645.3	11063.8	7766.4
50°	11538.1	11565.4	12563.0	14474.0	15569.5	16641.9	16516.8	14983.7	15212.0	11260.9	7750.1
52.5°	9881.3	9898.9	10327.1	12970.8	14914.4	17185.6	17914.1	15920.2	15626.6	11315.3	7659.0
55°	7442.9	7504.1	7983.8	10176.2	13210.0	16754.8	18765.0	16885.2	15888.9	11320.7	7563.9
57.5°	4348.0	4414.7	5007.2	6907.4	10267.3	15252.8	18894.1	17741.5	16067.0	11277.2	7506.8
60°	2129.8	2158.3	2416.6	3630.3	6331.1	12359.1	17855.7	18156.0	16166.2	11254.1	7504.1
62.5°	1435.3	1431.2	1442.1	1791.4	3119.4	7940.4	15691.8	17430.2	16113.2	11165.7	7476.9
65°	1234.1	1219.2	1178.4	1257.3	1616.1	3631.8	12124.0	15263.7	15709.6	10944.2	7290.7
67.5°	1066.9	1068.4	1069.7	1045.2	1153.9	1675.9	7408.9	12023.4	14260.6	9894.9	6573.0
70°	883.4	895.7	901.2	901.2	940.5	1099.6	3162.8	8240.8	11248.7	7758.2	5294.0
72.5°	804.6	778.8	781.6	767.9	767.9	837.2	1273.6	4671.5	7086.8	4364.3	3230.8
75°	656.5	672.8	675.5	666.0	634.8	638.8	755.7	1959.9	3032.4	1810.5	1597.1
77.5°	566.8	566.8	572.3	565.4	541.0	478.5	504.3	759.8	1031.7	742.1	797.9
80°	455.3	454.0	477.0	490.7	452.6	353.4	322.2	419.9	458.1	326.2	414.5
82.5°	221.5	235.1	327.6	373.8	343.9	255.5	197.1	261.0	244.7	144.1	186.2
85°	129.1	122.3	146.8	208.0	197.1	141.3	95.1	135.9	127.7	73.4	74.7
87.5°	40.8	38.0	29.9	70.7	57.1	39.5	25.8	39.5	35.4	16.3	16.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6588.0	6588.0	6588.0	6588.0	6588.0	6588.0	6588.0	6588.0	6588.0	6588.0
2.5°	6513.3	6352.8	6193.9	6048.4	5960.1	5903.0	5845.9	5782.0	5757.5	5720.8
5°	6448.0	6138.1	5862.2	5624.3	5408.2	5238.4	5067.1	4928.4	4865.9	4908.0
7.5°	6409.9	5961.4	5536.0	5099.7	4679.7	4344.0	4051.7	3846.5	3754.1	3777.2
10°	6375.9	5761.6	5113.3	4424.2	3820.7	3404.7	3105.7	2949.4	2891.0	2903.2
12.5°	6344.6	5537.4	4603.6	3697.0	3055.4	2780.9	2695.2	2696.7	2707.5	2715.6
15°	6339.2	5266.9	4034.1	3060.9	2642.2	2624.6	2717.1	2775.5	2806.8	2816.3
17.5°	6331.1	4943.4	3453.7	2627.3	2541.7	2661.3	2746.9	2785.0	2809.4	2810.8
20°	6298.5	4532.9	2918.2	2420.7	2520.0	2623.3	2676.3	2706.1	2726.5	2733.4
22.5°	6197.9	4076.2	2500.9	2328.3	2432.9	2515.9	2578.4	2612.3	2624.6	2632.7
25°	6017.2	3565.2	2212.8	2239.9	2312.0	2416.6	2467.0	2473.7	2469.6	2481.8
27.5°	5780.6	3017.4	2033.4	2120.3	2212.8	2302.5	2329.6	2325.6	2317.4	2331.1
30°	5495.2	2525.4	1919.2	1985.7	2112.2	2193.7	2218.2	2208.7	2192.4	2207.3
32.5°	5193.5	2123.1	1825.4	1891.9	2029.3	2109.4	2133.9	2124.4	2112.2	2124.4
35°	4912.1	1841.7	1738.4	1829.4	1964.0	2042.8	2074.1	2075.5	2075.5	2090.4
37.5°	4653.9	1677.2	1666.3	1790.1	1919.2	1989.8	2034.7	2037.4	1979.0	1983.1
40°	4414.7	1607.9	1633.7	1764.2	1875.6	1943.6	1946.4	1794.2	1686.7	1684.1
42.5°	4218.9	1594.3	1643.3	1761.5	1844.4	1847.2	1655.5	1537.2	1507.4	1508.7
45°	4035.4	1590.3	1665.0	1761.5	1798.2	1595.7	1466.6	1435.3	1438.0	1448.9
47.5°	3830.2	1574.0	1669.1	1737.1	1665.0	1419.0	1381.0	1367.4	1361.9	1364.6
50°	3606.0	1515.5	1617.4	1688.1	1436.6	1342.9	1295.3	1291.2	1298.1	1302.1
52.5°	3369.4	1420.3	1529.1	1599.7	1332.0	1276.3	1223.2	1232.8	1262.7	1272.2
55°	3214.5	1308.9	1412.2	1423.1	1258.6	1213.8	1168.9	1190.6	1246.4	1264.0
57.5°	3173.7	1190.6	1279.0	1266.8	1164.8	1159.4	1132.2	1151.3	1221.9	1247.7
60°	3161.5	1084.7	1148.5	1139.0	1073.8	1099.6	1092.8	1102.3	1126.8	1134.9
62.5°	3066.3	1000.4	1031.7	1018.0	992.2	1037.1	1053.4	1033.0	1052.1	1061.5
65°	2824.4	932.4	917.5	907.9	918.8	959.6	992.2	951.4	969.1	996.3
67.5°	2424.8	840.0	799.2	810.1	844.1	865.8	907.9	861.7	876.7	922.9
70°	1961.3	723.1	686.3	717.6	750.3	795.1	802.0	770.7	806.0	857.6
72.5°	1387.7	604.9	579.0	642.9	653.7	712.2	697.3	682.3	731.2	748.9
75°	962.3	487.9	473.0	521.9	561.4	611.6	600.8	618.4	721.7	729.9
77.5°	609.0	379.2	369.7	401.0	455.3	511.1	528.7	729.9	1232.8	1281.8
80°	353.4	282.7	271.8	296.3	343.9	395.5	509.7	895.7	812.8	803.3
82.5°	197.1	194.3	180.8	187.6	229.7	285.5	720.4	630.7	512.4	528.7
85°	92.5	114.2	97.9	93.8	129.1	334.4	481.1	360.2	239.2	233.8
87.5°	24.5	21.7	21.7	24.5	54.3	288.1	191.7	153.5	91.0	88.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)