

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: P970258

Luminaire Tested: **NAV-SB6B-722-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970258
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-SB6B-722-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29406.2 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

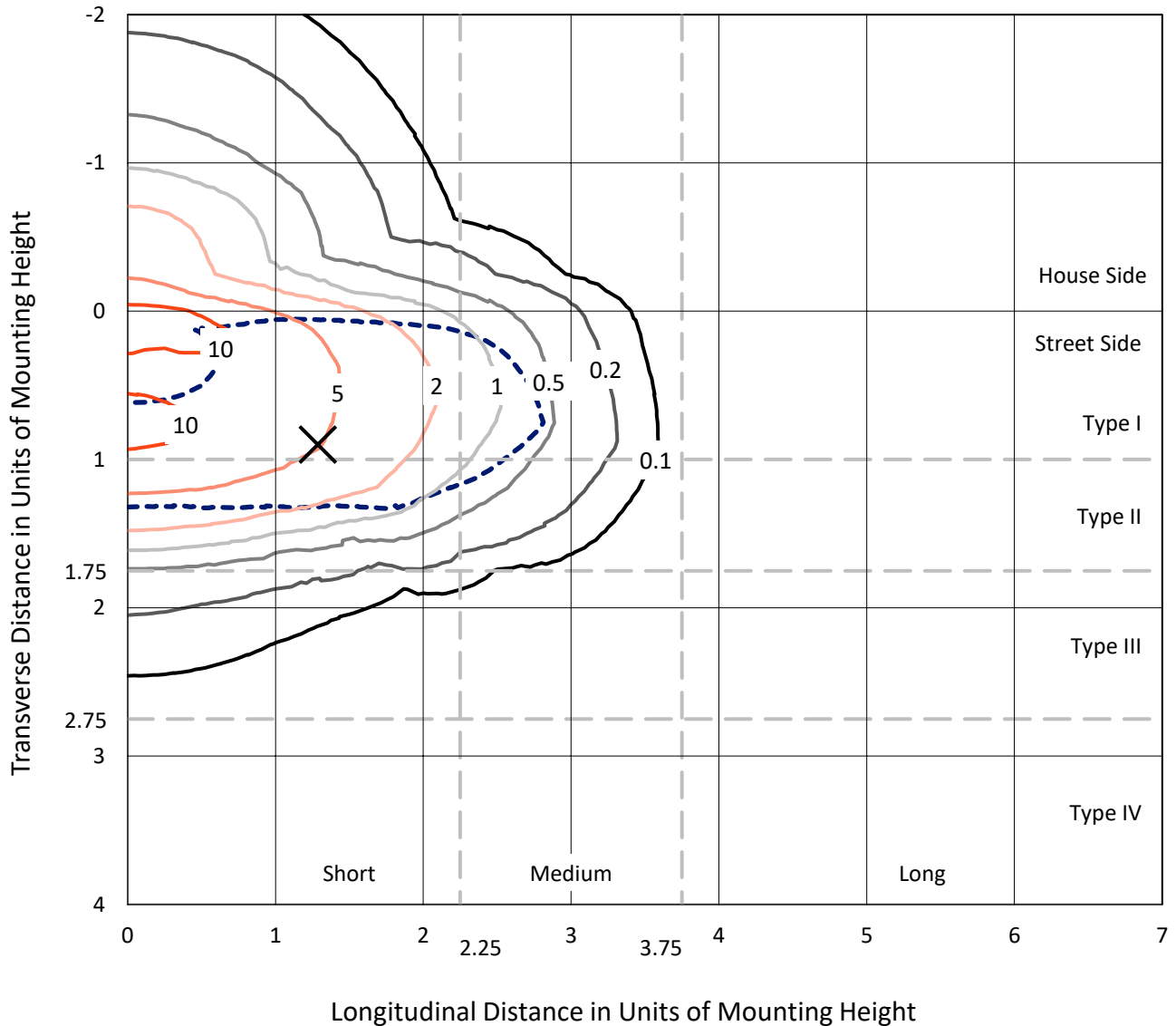
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

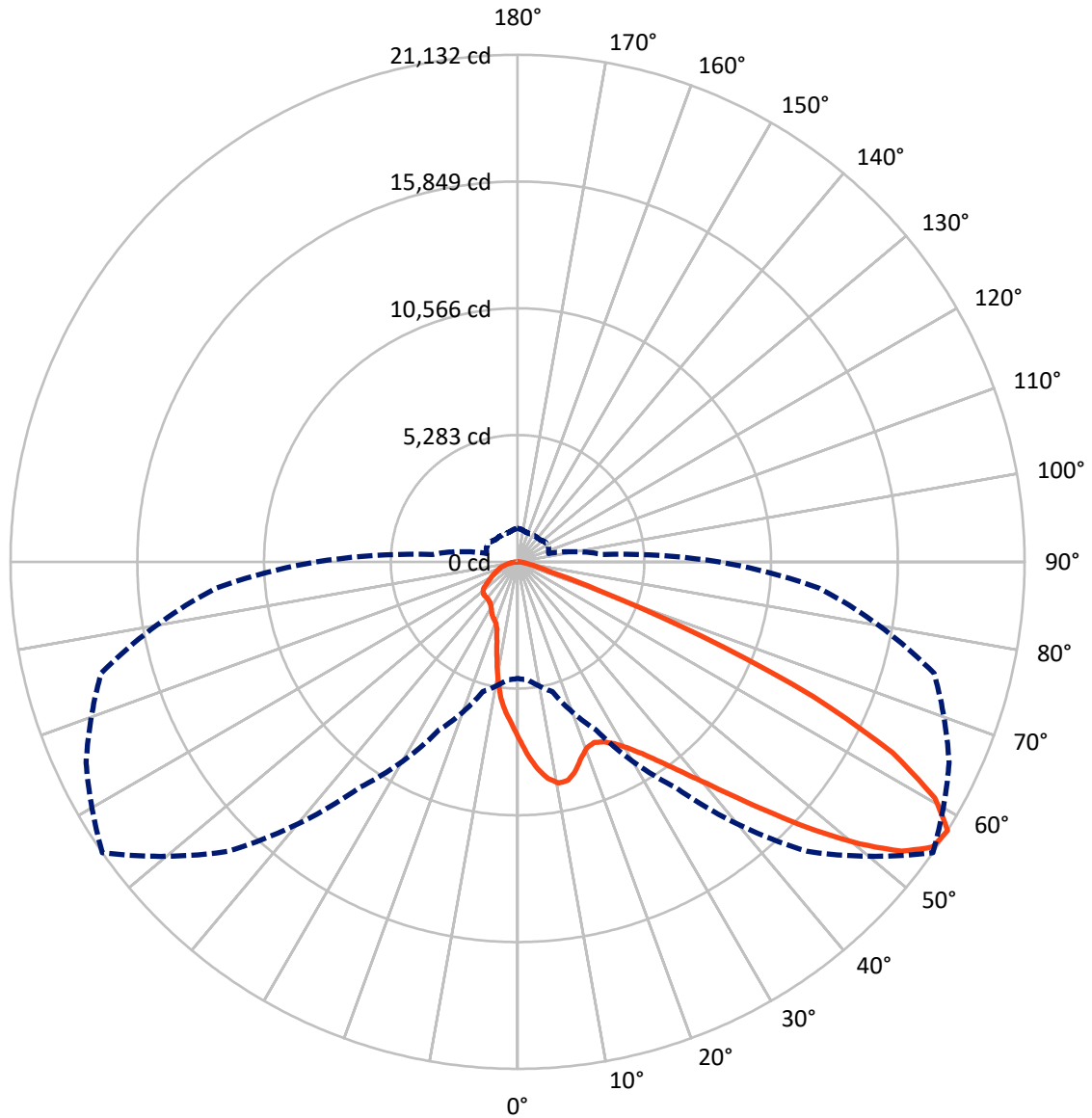
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 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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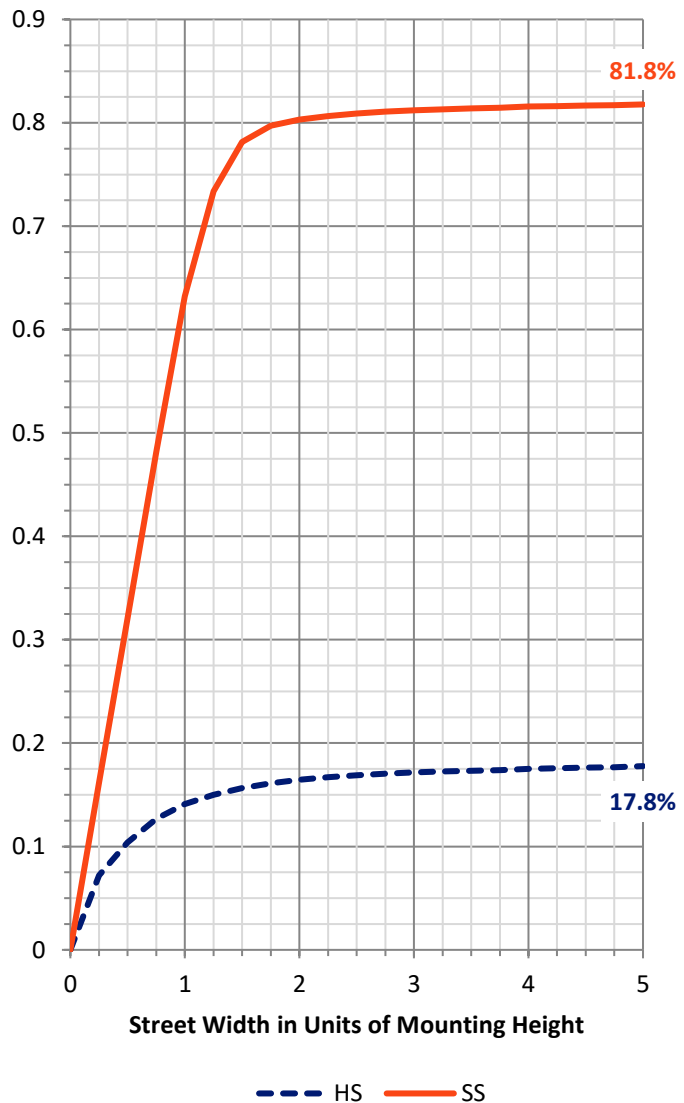
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5320.9	0.0	5320.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	24085.3	0.0	24085.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	29406.2	0.0	29406.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	683.7	2.3
10°-20°	1725.8	5.9
20°-30°	2753.8	9.4
30°-40°	4360.0	14.8
40°-50°	6673.4	22.7
50°-60°	7147.8	24.3
60°-70°	4496.7	15.3
70°-80°	1329.8	4.5
80°-90°	235.1	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°	29406.2	100.0
0°-180°	29406.2	100.0

Coefficient of Utilization



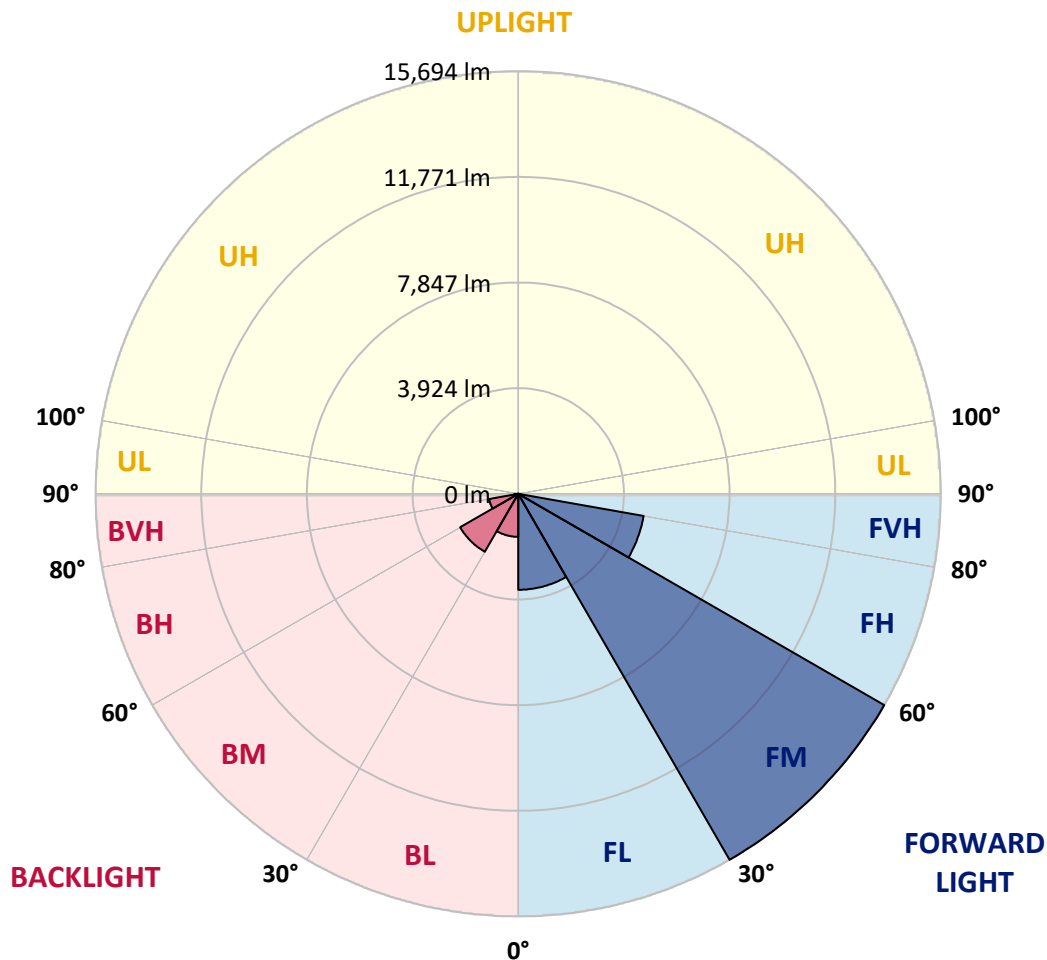
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3564.0	12.1			
FM (30°-60°)	15694.3	53.4			
FH (60°-80°)	4727.6	16.1			G2/5000
FVH (80°-90°)	99.3	0.3			G1/100
BL (0°-30°)	1599.3	5.4	B3/2500		
BM (30°-60°)	2486.9	8.5	B2/2500		
BH (60°-80°)	1098.9	3.7	B3/2500		G3/2500
BVH (80°-90°)	135.8	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7368.2	7368.2	7368.2	7368.2	7368.2	7368.2	7368.2	7368.2	7368.2	7368.2	7368.2
2.5°	8453.7	8447.5	8481.1	8367.0	8289.5	8184.6	8046.2	7869.9	7679.9	7479.2	7392.6
5°	9215.3	9162.1	9197.0	9111.8	9026.8	8868.6	8663.4	8376.1	8024.9	7625.2	7412.3
7.5°	9095.1	9058.6	9148.3	9224.4	9288.2	9268.5	9118.0	8816.9	8364.0	7783.2	7474.6
10°	8126.8	8085.8	8211.9	8474.9	8861.0	9197.0	9379.5	9192.4	8710.6	7956.6	7535.5
12.5°	7272.5	7252.7	7336.3	7549.1	7977.9	8622.4	9345.9	9520.8	9070.8	8161.8	7617.6
15°	6907.7	6883.3	6936.5	7044.4	7318.1	7918.5	9041.9	9745.8	9425.1	8399.0	7748.3
17.5°	6827.1	6799.7	6822.5	6878.8	7055.1	7512.6	8582.8	9856.7	9794.4	8663.4	7857.8
20°	6976.0	6953.2	6956.3	6953.2	7076.4	7439.7	8263.7	9814.2	10116.8	8906.6	7964.1
22.5°	7336.3	7298.3	7299.8	7219.3	7286.1	7567.4	8180.0	9700.2	10404.1	9119.5	8044.7
25°	7923.1	7854.7	7868.4	7663.2	7645.0	7853.1	8310.7	9612.0	10689.8	9289.8	8059.9
27.5°	8725.7	8648.2	8607.1	8301.6	8155.7	8259.0	8576.8	9642.4	10960.4	9437.2	8022.0
30°	9729.1	9634.8	9551.2	9118.0	8853.4	8815.4	8990.3	9843.1	11279.6	9592.3	7956.6
32.5°	10958.9	10849.4	10697.4	10122.8	9750.3	9551.2	9525.3	10200.3	11653.6	9789.9	7923.1
35°	12422.8	12279.9	12064.0	11320.7	10849.4	10442.0	10230.7	10715.7	12165.9	10087.8	7961.1
37.5°	13930.8	13769.6	13572.0	12687.3	12108.1	11507.7	11091.1	11414.9	12848.5	10492.2	8061.4
40°	15321.8	15140.9	14956.9	14169.5	13547.7	12824.1	12144.6	12299.7	13683.0	10975.6	8231.7
42.5°	16142.6	16008.9	15939.0	15513.3	15033.0	14298.6	13455.0	13348.6	14620.9	11532.0	8426.3
45°	16106.1	16051.4	16267.3	16443.7	16329.6	15922.2	14990.3	14508.5	15562.0	12013.9	8605.7
47.5°	15245.7	15282.2	15764.1	16755.3	17191.6	17404.4	16738.6	15647.0	16379.8	12374.1	8686.3
50°	12904.6	12935.1	14050.9	16188.2	17413.5	18612.9	18473.1	16758.3	17013.7	12594.6	8668.0
52.5°	11051.7	11071.3	11550.2	14506.9	16680.7	19221.0	20035.8	17805.7	17477.4	12655.4	8566.1
55°	8324.4	8392.8	8929.5	11381.5	14774.5	18739.0	20987.4	18885.0	17770.7	12661.4	8459.7
57.5°	4863.0	4937.5	5600.3	7725.5	11483.4	17059.3	21131.8	19842.8	17969.9	12612.8	8395.9
60°	2382.1	2414.0	2702.8	4060.3	7080.9	13822.8	19970.4	20306.4	18080.9	12587.0	8392.8
62.5°	1605.3	1600.7	1612.9	2003.6	3488.8	8880.8	17550.4	19494.6	18021.6	12488.2	8362.5
65°	1380.3	1363.6	1317.9	1406.2	1807.5	4061.9	13559.9	17071.5	17570.0	12240.3	8154.2
67.5°	1193.3	1194.8	1196.4	1169.0	1290.6	1874.3	8286.4	13447.4	15949.6	11066.8	7351.5
70°	988.1	1001.8	1007.9	1007.9	1052.0	1229.8	3537.4	9216.8	12580.8	8677.1	5921.0
72.5°	900.0	871.0	874.1	858.8	858.8	936.4	1424.4	5224.8	7926.1	4881.3	3613.4
75°	734.2	752.5	755.5	744.9	709.9	714.5	845.2	2192.1	3391.5	2024.9	1786.2
77.5°	633.9	633.9	640.0	632.4	605.1	535.0	564.0	849.7	1153.8	830.0	892.4
80°	509.2	507.8	533.6	548.8	506.2	395.2	360.3	469.8	512.3	364.8	463.6
82.5°	247.7	263.0	366.3	418.0	384.6	285.8	220.4	291.9	273.7	161.1	208.3
85°	144.4	136.8	164.2	232.6	220.4	158.1	106.4	152.0	142.9	82.1	83.6
87.5°	45.6	42.5	33.4	79.0	63.9	44.1	28.9	44.1	39.6	18.2	18.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7368.2	7368.2	7368.2	7368.2	7368.2	7368.2	7368.2	7368.2	7368.2	7368.2
2.5°	7284.7	7105.3	6927.4	6764.7	6665.9	6602.1	6538.3	6466.8	6439.5	6398.4
5°	7211.7	6865.0	6556.5	6290.4	6048.7	5858.7	5667.2	5512.1	5442.2	5489.3
7.5°	7169.1	6667.4	6191.6	5703.6	5234.0	4858.5	4531.6	4302.0	4198.7	4224.5
10°	7131.1	6444.0	5718.9	4948.2	4273.2	3808.0	3473.6	3298.8	3233.4	3247.1
12.5°	7096.2	6193.2	5148.8	4134.8	3417.4	3110.3	3014.5	3016.0	3028.2	3037.3
15°	7090.0	5890.7	4511.8	3423.4	2955.2	2935.4	3038.8	3104.2	3139.2	3149.8
17.5°	7080.9	5528.8	3862.7	2938.5	2842.7	2976.5	3072.2	3114.8	3142.1	3143.7
20°	7044.4	5069.8	3263.8	2707.4	2818.3	2934.0	2993.2	3026.6	3049.5	3057.1
22.5°	6932.0	4559.0	2797.1	2604.0	2721.1	2813.8	2883.7	2921.8	2935.4	2944.5
25°	6729.7	3987.4	2474.9	2505.2	2585.8	2702.8	2759.1	2766.7	2762.2	2775.8
27.5°	6465.3	3374.8	2274.2	2371.4	2474.9	2575.2	2605.5	2601.0	2591.9	2607.1
30°	6146.0	2824.5	2146.5	2221.0	2362.3	2453.5	2480.9	2470.2	2452.0	2468.7
32.5°	5808.6	2374.5	2041.6	2116.1	2269.7	2359.3	2386.6	2376.1	2362.3	2376.1
35°	5493.9	2059.8	1944.3	2046.1	2196.7	2284.8	2319.8	2321.3	2321.3	2338.0
37.5°	5205.1	1875.9	1863.8	2002.0	2146.5	2225.5	2275.7	2278.8	2213.4	2217.9
40°	4937.5	1798.4	1827.3	1973.1	2097.9	2173.8	2176.9	2006.6	1886.5	1883.4
42.5°	4718.6	1783.2	1837.9	1970.2	2062.9	2065.9	1851.6	1719.3	1685.8	1687.4
45°	4513.4	1778.6	1862.2	1970.2	2011.2	1784.6	1640.3	1605.3	1608.3	1620.5
47.5°	4283.8	1760.3	1866.7	1942.8	1862.2	1587.0	1544.5	1529.3	1523.3	1526.2
50°	4033.0	1694.9	1809.0	1888.0	1606.8	1501.9	1448.7	1444.1	1451.7	1456.3
52.5°	3768.5	1588.5	1710.2	1789.2	1489.7	1427.4	1368.2	1378.8	1412.2	1422.9
55°	3595.2	1463.9	1579.4	1591.6	1407.6	1357.5	1307.4	1331.7	1394.0	1413.8
57.5°	3549.6	1331.7	1430.5	1416.8	1302.8	1296.7	1266.3	1287.6	1366.6	1395.5
60°	3535.9	1213.1	1284.5	1273.9	1200.9	1229.8	1222.2	1232.9	1260.2	1269.4
62.5°	3429.4	1118.9	1153.8	1138.6	1109.8	1159.9	1178.1	1155.3	1176.6	1187.3
65°	3158.9	1042.8	1026.1	1015.5	1027.7	1073.3	1109.8	1064.2	1083.8	1114.3
67.5°	2711.9	939.4	893.9	906.0	944.0	968.3	1015.5	963.8	980.5	1032.2
70°	2193.6	808.7	767.7	802.7	839.2	889.3	896.9	861.9	901.5	959.2
72.5°	1552.1	676.5	647.6	719.0	731.2	796.5	779.8	763.1	817.8	837.6
75°	1076.2	545.7	529.0	583.7	627.8	684.1	671.9	691.7	807.2	816.3
77.5°	681.0	424.1	413.5	448.4	509.2	571.5	591.3	816.3	1378.8	1433.6
80°	395.2	316.2	304.0	331.4	384.6	442.4	570.1	1001.8	909.1	898.4
82.5°	220.4	217.4	202.2	209.8	256.9	319.2	805.6	705.4	573.1	591.3
85°	103.4	127.7	109.5	104.9	144.4	373.9	538.1	402.8	267.5	261.5
87.5°	27.4	24.3	24.3	27.4	60.8	322.3	214.3	171.8	101.9	98.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)