

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: P969793

Luminaire Tested: **NAV-SB6A-730-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969793
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-SB6A-730-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28356.6 lumens
Efficiency: N/A
Efficacy: 165.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

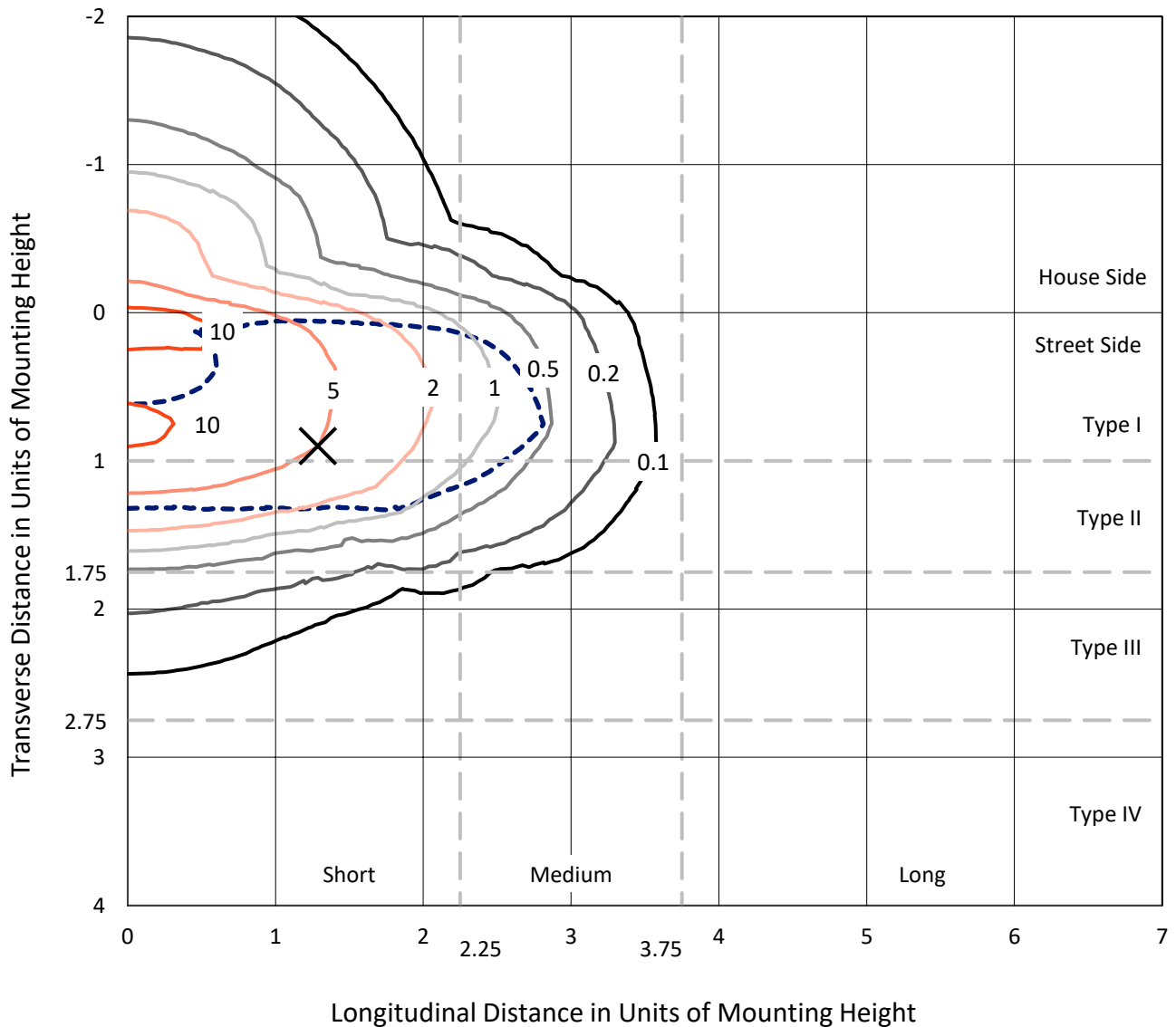
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

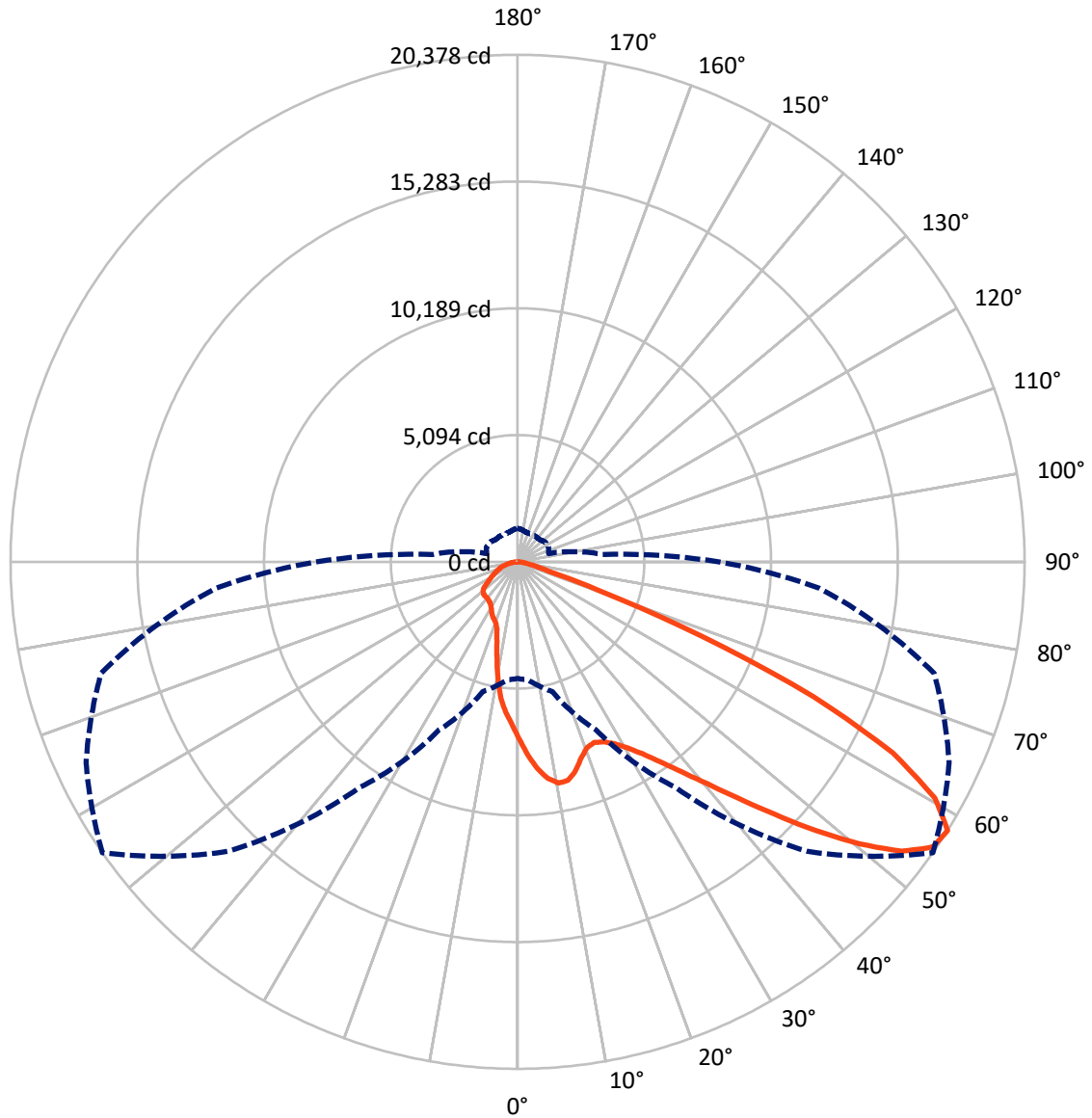
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 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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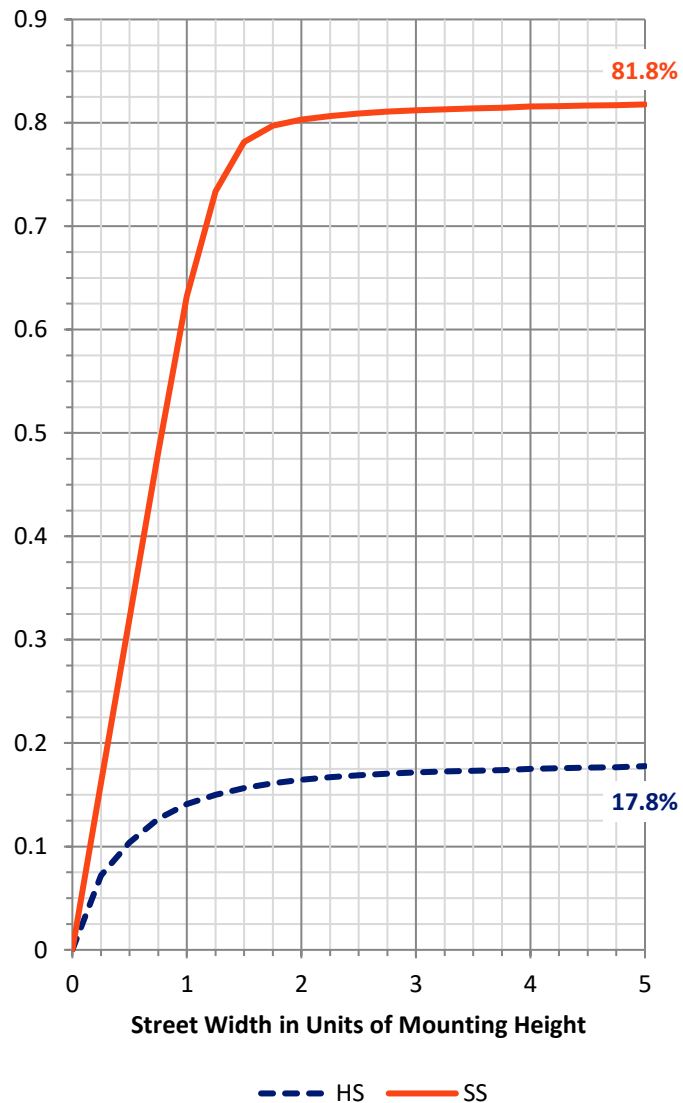
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5131.0	0.0	5131.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	23225.6	0.0	23225.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	28356.6	0.0	28356.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	659.3	2.3
10°-20°	1664.2	5.9
20°-30°	2655.5	9.4
30°-40°	4204.4	14.8
40°-50°	6435.2	22.7
50°-60°	6892.7	24.3
60°-70°	4336.2	15.3
70°-80°	1282.3	4.5
80°-90°	226.7	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°	28356.6	100.0
0°-180°	28356.6	100.0

Coefficient of Utilization

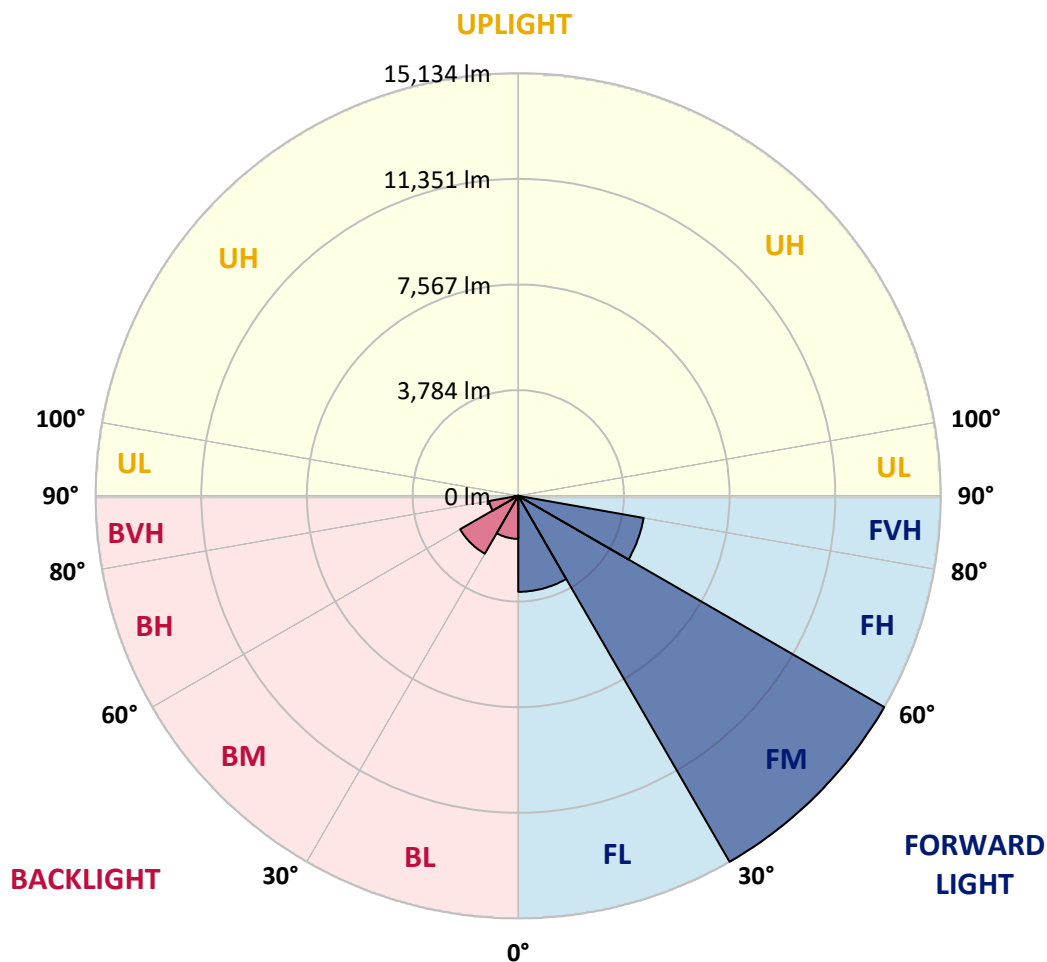


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3436.8	12.1			
FM (30°-60°)	15134.1	53.4			
FH (60°-80°)	4558.9	16.1			G2/5000
FVH (80°-90°)	95.8	0.3			G1/100
BL (0°-30°)	1542.2	5.4	B3/2500		
BM (30°-60°)	2398.2	8.5	B2/2500		
BH (60°-80°)	1059.7	3.7	B3/2500		G3/2500
BVH (80°-90°)	130.9	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°	7105.3	7105.3	7105.3	7105.3	7105.3	7105.3	7105.3	7105.3	7105.3	7105.3	7105.3
2.5°	8151.9	8146.1	8178.3	8068.4	7993.6	7892.4	7759.0	7589.0	7405.7	7212.3	7128.7
5°	8886.3	8835.0	8868.7	8786.6	8704.5	8552.1	8354.2	8077.1	7738.5	7352.9	7147.7
7.5°	8770.5	8735.4	8821.9	8895.2	8956.7	8937.6	8792.6	8502.3	8065.4	7505.5	7207.9
10°	7836.7	7797.2	7918.8	8172.4	8544.8	8868.7	9044.6	8864.3	8399.7	7672.5	7266.5
12.5°	7012.9	6993.9	7074.4	7279.7	7693.0	8314.6	9012.4	9180.9	8747.0	7870.5	7345.7
15°	6661.1	6637.6	6688.9	6793.0	7056.9	7635.9	8719.2	9397.9	9088.6	8099.1	7471.7
17.5°	6583.4	6557.0	6579.0	6633.2	6803.2	7244.5	8276.5	9504.9	9444.9	8354.2	7577.3
20°	6727.1	6705.0	6708.0	6705.0	6823.8	7174.2	7968.7	9463.9	9755.6	8588.8	7679.9
22.5°	7074.4	7037.9	7039.3	6961.6	7026.1	7297.3	7888.1	9353.9	10032.7	8794.0	7757.6
25°	7640.4	7574.3	7587.6	7389.6	7372.0	7572.9	8014.1	9269.0	10308.2	8958.2	7772.3
27.5°	8414.3	8339.5	8299.9	8005.4	7864.6	7964.2	8270.6	9298.3	10569.2	9100.4	7735.6
30°	9381.8	9290.9	9210.3	8792.6	8537.4	8500.8	8669.3	9491.7	10877.0	9249.9	7672.5
32.5°	10567.7	10462.2	10315.6	9761.5	9402.3	9210.3	9185.3	9836.2	11237.7	9440.5	7640.4
35°	11979.4	11841.6	11633.4	10916.6	10462.2	10069.3	9865.5	10333.1	11731.6	9727.8	7676.9
37.5°	13433.5	13278.2	13087.6	12234.5	11676.0	11097.0	10695.3	11007.5	12389.9	10117.7	7773.7
40°	14774.9	14600.4	14423.1	13663.8	13064.1	12366.4	11711.1	11860.7	13194.6	10583.8	7937.9
42.5°	15566.5	15437.4	15370.1	14959.6	14496.4	13788.3	12974.8	12872.2	14099.1	11120.3	8125.5
45°	15531.3	15478.5	15686.7	15856.7	15746.8	15353.9	14455.3	13990.6	15006.5	11585.1	8298.5
47.5°	14701.6	14736.7	15201.5	16157.2	16577.9	16783.1	16141.1	15088.6	15795.1	11932.4	8376.2
50°	12444.1	12473.4	13549.4	15610.4	16792.0	17948.6	17813.7	16160.1	16406.5	12145.0	8358.6
52.5°	10657.1	10676.2	11138.0	13989.1	16085.4	18535.0	19320.6	17170.2	16853.6	12203.6	8260.4
55°	8027.3	8093.3	8610.7	10975.3	14247.2	18070.2	20238.3	18211.0	17136.5	12209.5	8157.8
57.5°	4689.5	4761.2	5400.4	7449.7	11073.5	16450.4	20377.6	19134.5	17328.4	12162.6	8096.2
60°	2297.0	2327.9	2606.4	3915.4	6828.2	13329.5	19257.6	19581.6	17435.5	12137.7	8093.3
62.5°	1548.0	1543.6	1555.3	1932.0	3364.3	8563.9	16923.9	18798.8	17378.4	12042.4	8064.0
65°	1331.1	1314.9	1270.9	1356.0	1743.0	3916.9	13075.9	16462.1	16942.9	11803.5	7863.1
67.5°	1150.8	1152.2	1153.6	1127.3	1244.6	1807.5	7990.7	12967.4	15380.3	10671.8	7089.1
70°	952.8	966.1	971.9	971.9	1014.4	1185.9	3411.2	8887.8	12131.8	8367.4	5709.7
72.5°	867.9	840.0	842.9	828.2	828.2	903.0	1373.6	5038.3	7643.2	4707.0	3484.5
75°	708.1	725.6	728.6	718.3	684.6	689.0	815.1	2113.9	3270.5	1952.6	1722.4
77.5°	611.3	611.3	617.2	609.8	583.4	516.0	543.9	819.5	1112.6	800.4	860.5
80°	491.1	489.6	514.6	529.2	488.1	381.1	347.4	452.9	494.0	351.8	447.1
82.5°	238.9	253.6	353.3	403.1	370.8	275.6	212.6	281.5	263.8	155.4	200.8
85°	139.3	131.9	158.4	224.3	212.6	152.4	102.6	146.6	137.8	79.1	80.7
87.5°	44.0	41.0	32.3	76.3	61.6	42.5	27.9	42.5	38.1	17.6	17.6
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°	7105.3	7105.3	7105.3	7105.3	7105.3	7105.3	7105.3	7105.3	7105.3	7105.3
2.5°	7024.6	6851.6	6680.1	6523.3	6428.0	6366.5	6304.9	6236.0	6209.6	6170.0
5°	6954.2	6620.1	6322.4	6066.0	5832.9	5649.6	5464.9	5315.3	5247.9	5293.4
7.5°	6913.2	6429.5	5970.6	5500.0	5047.1	4685.1	4369.9	4148.5	4048.9	4073.8
10°	6876.5	6214.0	5514.7	4771.5	4120.7	3672.1	3349.6	3181.0	3117.9	3131.2
12.5°	6842.9	5972.1	4965.0	3987.2	3295.4	2999.3	2906.9	2908.3	2920.1	2928.8
15°	6837.0	5680.3	4350.8	3301.2	2849.7	2830.6	2930.4	2993.4	3027.1	3037.4
17.5°	6828.2	5331.5	3724.8	2833.6	2741.3	2870.2	2962.6	3003.7	3030.0	3031.5
20°	6793.0	4888.8	3147.3	2610.8	2717.8	2829.2	2886.4	2918.6	2940.6	2947.9
22.5°	6684.5	4396.2	2697.3	2511.1	2624.0	2713.4	2780.8	2817.5	2830.6	2839.5
25°	6489.6	3845.1	2386.5	2415.8	2493.5	2606.4	2660.6	2668.0	2663.6	2676.8
27.5°	6234.5	3254.3	2193.0	2286.8	2386.5	2483.3	2512.6	2508.2	2499.4	2514.0
30°	5926.7	2723.6	2069.9	2141.7	2278.1	2366.0	2392.4	2382.1	2364.5	2380.7
32.5°	5601.2	2289.7	1968.7	2040.6	2188.6	2275.1	2301.4	2291.2	2278.1	2291.2
35°	5297.8	1986.3	1874.9	1973.1	2118.3	2203.2	2237.0	2238.4	2238.4	2254.6
37.5°	5019.2	1808.9	1797.2	1930.6	2069.9	2146.0	2194.4	2197.4	2134.4	2138.8
40°	4761.2	1734.2	1762.0	1902.7	2022.9	2096.2	2099.2	1935.0	1819.2	1816.3
42.5°	4550.2	1719.5	1772.3	1899.8	1989.2	1992.2	1785.4	1657.9	1625.6	1627.2
45°	4352.3	1715.1	1795.7	1899.8	1939.4	1721.0	1581.7	1548.0	1550.9	1562.6
47.5°	4131.0	1697.5	1800.1	1873.4	1795.7	1530.4	1489.3	1474.7	1468.8	1471.8
50°	3889.1	1634.5	1744.4	1820.6	1549.5	1448.3	1397.0	1392.6	1399.9	1404.4
52.5°	3633.9	1531.9	1649.1	1725.4	1436.5	1376.5	1319.3	1329.5	1361.8	1372.1
55°	3466.9	1411.6	1523.0	1534.8	1357.4	1309.0	1260.6	1284.1	1344.3	1363.2
57.5°	3422.9	1284.1	1379.4	1366.2	1256.2	1250.4	1221.1	1241.6	1317.8	1345.7
60°	3409.7	1169.8	1238.7	1228.5	1158.0	1185.9	1178.5	1188.9	1215.2	1224.1
62.5°	3307.1	1078.9	1112.6	1098.0	1070.1	1118.5	1136.1	1114.1	1134.6	1144.8
65°	3046.2	1005.6	989.5	979.2	991.0	1034.9	1070.1	1026.1	1045.2	1074.5
67.5°	2615.2	905.9	861.9	873.7	910.3	933.8	979.2	929.4	945.5	995.4
70°	2115.3	779.8	740.3	774.0	809.1	857.5	864.9	831.2	869.3	925.0
72.5°	1496.7	652.3	624.4	693.4	705.1	768.1	752.0	735.8	788.6	807.7
75°	1037.8	526.2	510.1	562.9	605.5	659.7	647.9	667.0	778.4	787.2
77.5°	656.7	409.0	398.7	432.4	491.1	551.1	570.2	787.2	1329.5	1382.3
80°	381.1	304.9	293.2	319.6	370.8	426.6	549.7	966.1	876.6	866.3
82.5°	212.6	209.6	195.0	202.3	247.7	307.8	776.9	680.2	552.7	570.2
85°	99.7	123.1	105.6	101.2	139.3	360.6	519.0	388.5	258.0	252.2
87.5°	26.3	23.5	23.5	26.3	58.6	310.8	206.7	165.6	98.2	95.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)