

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: P970785

Luminaire Tested: **NAV-SB6C-722-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970785
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-SB6C-722-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39108.9 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

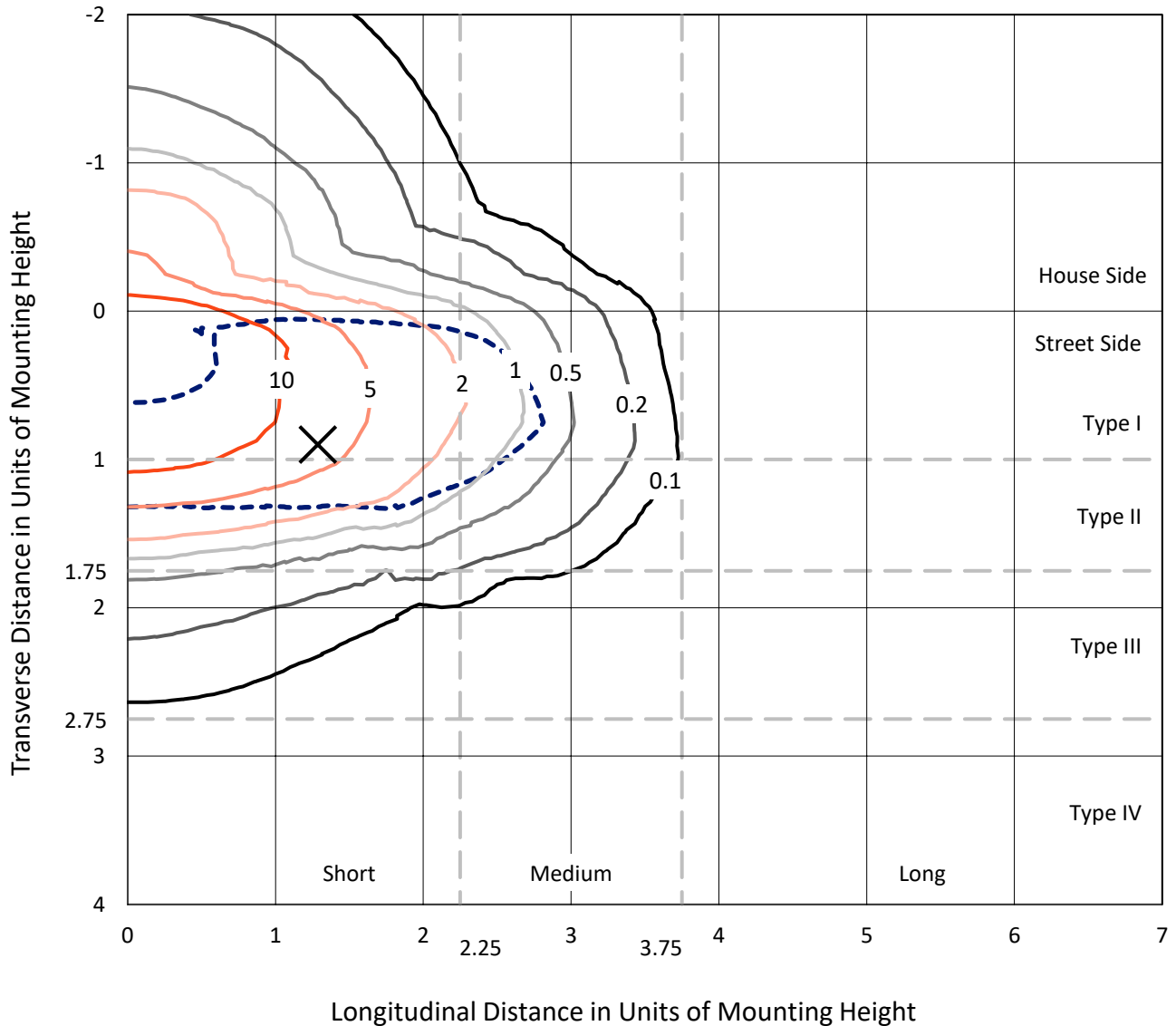
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

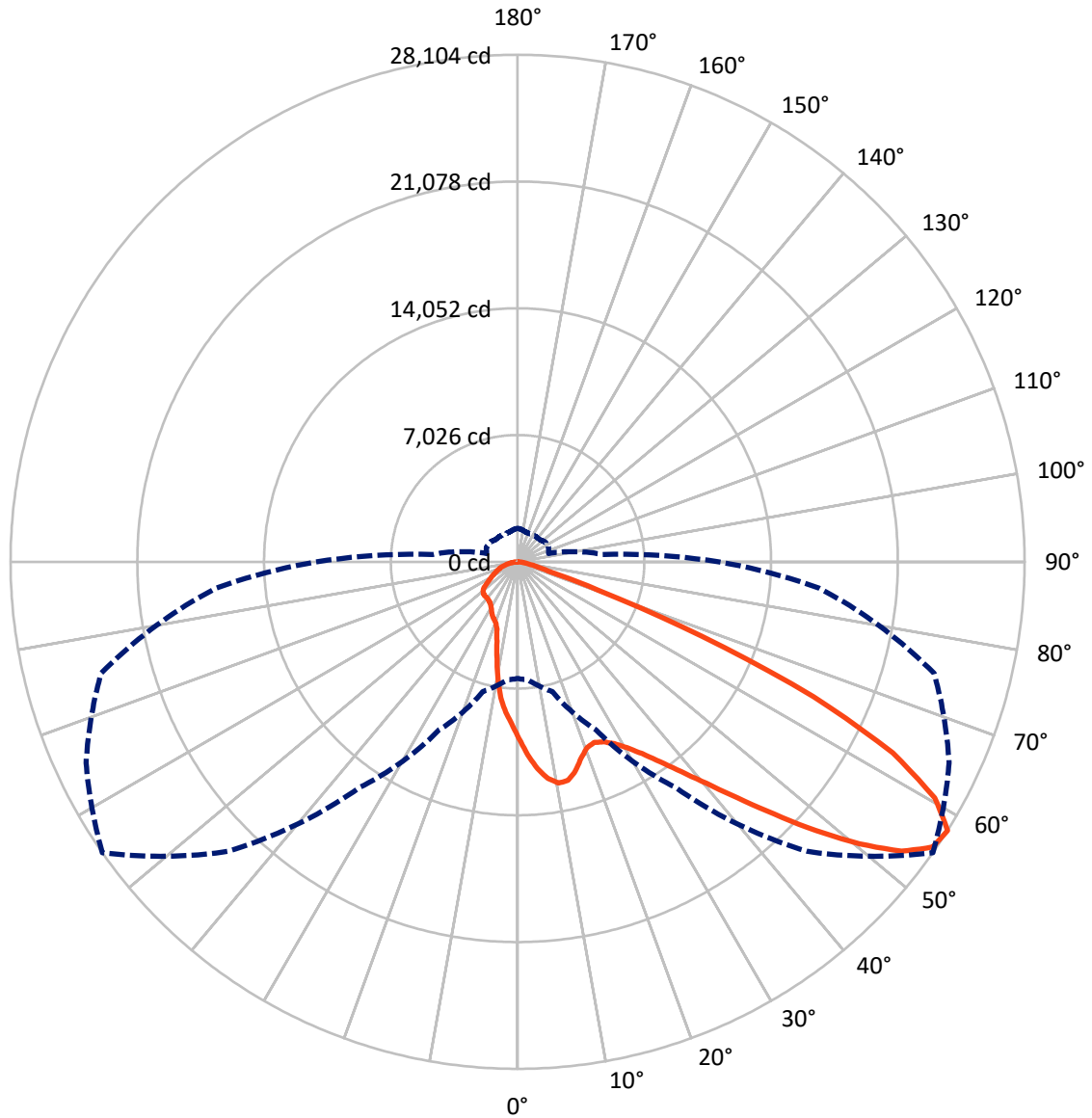
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.9 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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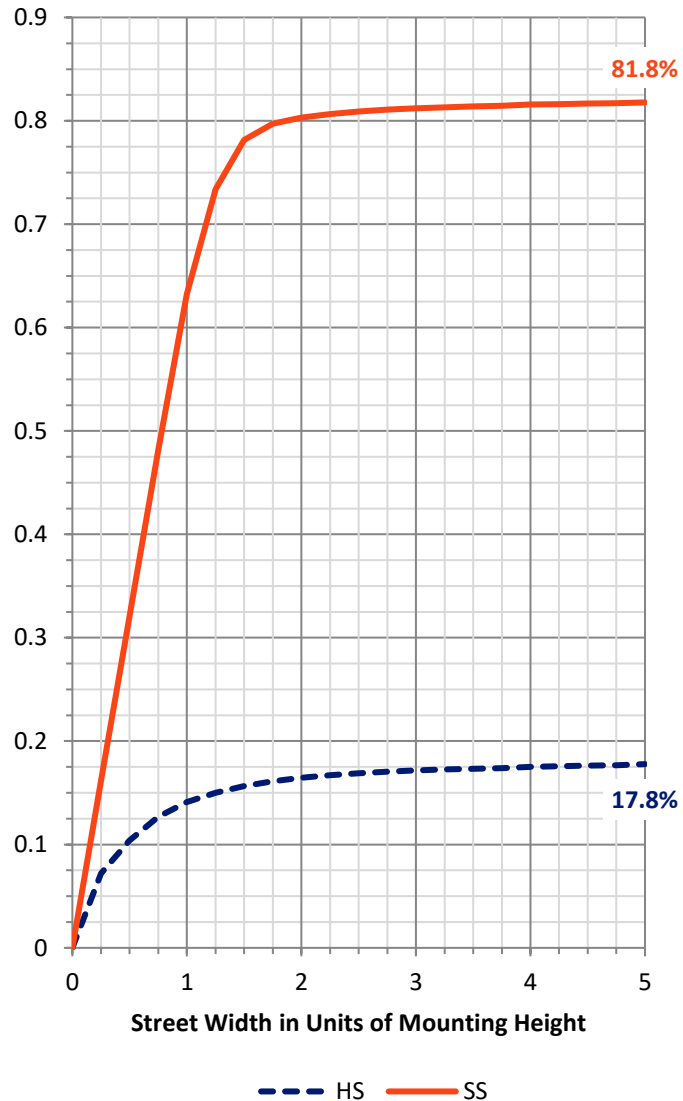
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7076.6	0.0	7076.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	32032.3	0.0	32032.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	39108.9	0.0	39108.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	909.3	2.3
10°-20°	2295.2	5.9
20°-30°	3662.5	9.4
30°-40°	5798.6	14.8
40°-50°	8875.3	22.7
50°-60°	9506.3	24.3
60°-70°	5980.5	15.3
70°-80°	1768.5	4.5
80°-90°	312.7	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°	39108.9	100.0
0°-180°	39108.9	100.0

Coefficient of Utilization



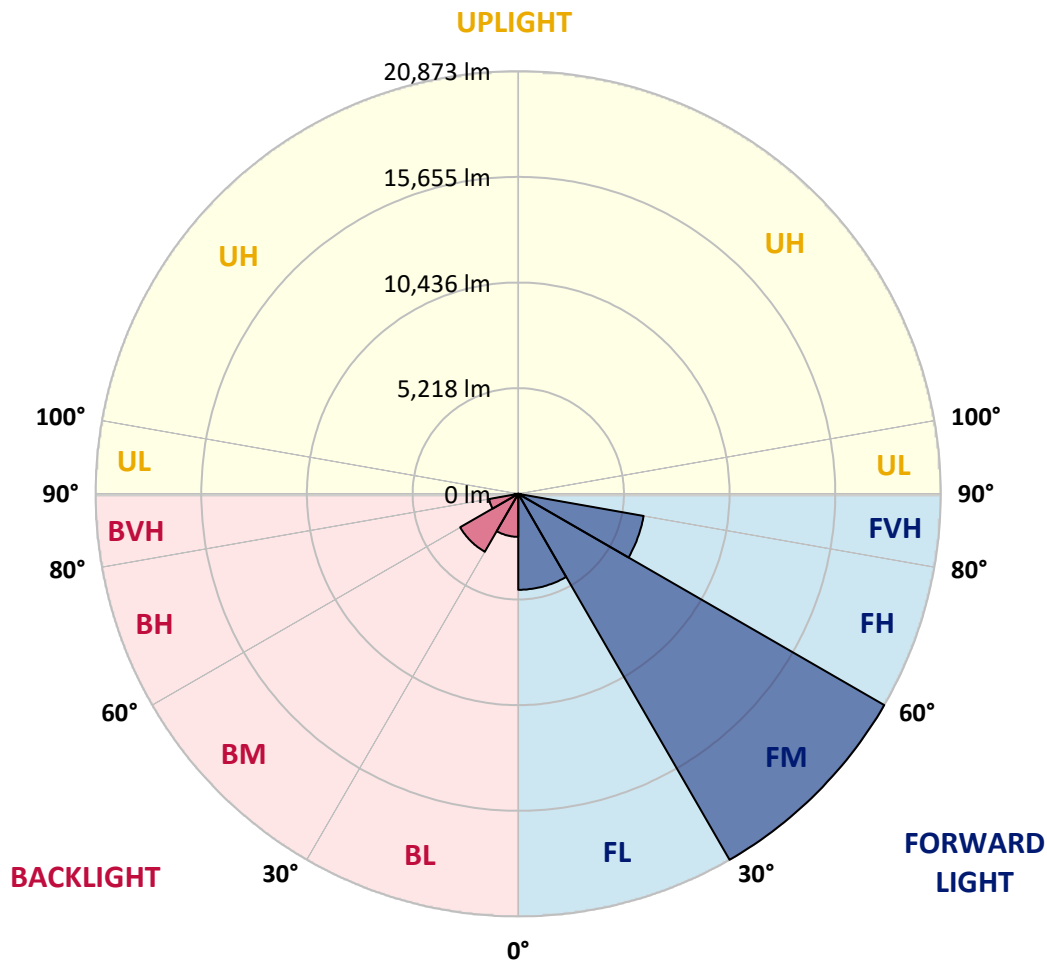
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4740.0	12.1			
FM (30°-60°)	20872.7	53.4			
FH (60°-80°)	6287.5	16.1			G3/7500
FVH (80°-90°)	132.1	0.3			G2/225
BL (0°-30°)	2127.0	5.4	B3/2500		
BM (30°-60°)	3307.5	8.5	B3/5000		
BH (60°-80°)	1461.5	3.7	B3/2500		G3/2500
BVH (80°-90°)	180.6	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°	9799.4	9799.4	9799.4	9799.4	9799.4	9799.4	9799.4	9799.4	9799.4	9799.4	9799.4
2.5°	11242.9	11234.8	11279.3	11127.7	11024.6	10885.1	10701.1	10466.6	10213.9	9947.0	9831.8
5°	12255.8	12185.1	12231.5	12118.4	12005.1	11794.9	11521.9	11139.8	10672.8	10141.0	9858.0
7.5°	12096.1	12047.6	12166.9	12268.0	12352.9	12326.6	12126.5	11726.1	11123.7	10351.4	9941.0
10°	10808.3	10753.7	10921.5	11271.2	11784.7	12231.5	12474.1	12225.5	11584.7	10581.8	10021.8
12.5°	9672.0	9645.8	9757.0	10040.0	10610.2	11467.4	12429.7	12662.2	12063.7	10854.7	10131.0
15°	9186.9	9154.5	9225.2	9368.8	9732.7	10531.3	12025.4	12961.4	12534.8	11170.1	10304.8
17.5°	9079.7	9043.3	9073.6	9148.4	9383.0	9991.5	11414.8	13109.0	13026.1	11521.9	10450.4
20°	9277.8	9247.4	9251.5	9247.4	9411.2	9894.4	10990.3	13052.5	13454.8	11845.4	10591.9
22.5°	9757.0	9706.4	9708.4	9601.3	9690.2	10064.3	10879.0	12900.8	13836.9	12128.5	10699.1
25°	10537.3	10446.4	10464.5	10191.7	10167.4	10444.3	11052.9	12783.5	14217.0	12354.9	10719.3
27.5°	11604.8	11501.7	11447.1	11040.8	10846.7	10984.2	11406.7	12824.0	14576.8	12551.0	10668.8
30°	12939.2	12813.8	12702.6	12126.5	11774.7	11724.2	11956.6	13090.8	15001.4	12757.3	10581.8
32.5°	14574.8	14429.2	14227.0	13462.9	12967.5	12702.6	12668.3	13566.0	15498.7	13020.1	10537.3
35°	16521.8	16331.7	16044.6	15055.9	14429.2	13887.4	13606.4	14251.3	16180.0	13416.3	10587.9
37.5°	18527.3	18313.0	18050.1	16873.6	16103.3	15304.7	14750.7	15181.3	17087.8	13954.1	10721.3
40°	20377.2	20136.6	19892.0	18844.7	18017.9	17055.5	16151.7	16358.0	18197.7	14597.0	10947.7
42.5°	21468.9	21291.0	21198.0	20631.9	19993.0	19016.5	17894.4	17753.0	19445.2	15337.0	11206.5
45°	21420.4	21347.7	21634.8	21869.3	21717.6	21175.8	19936.5	19295.5	20696.6	15977.9	11445.2
47.5°	20276.1	20324.6	20965.6	22283.7	22864.0	23147.0	22261.5	20809.9	21784.3	16457.0	11552.3
50°	17162.6	17203.1	18687.0	21529.6	23159.2	24754.3	24568.3	22287.8	22627.4	16750.1	11528.0
52.5°	14698.1	14724.4	15361.3	19293.6	22184.7	25563.0	26646.6	23680.8	23244.0	16831.0	11392.6
55°	11071.1	11162.0	11875.8	15136.8	19649.4	24922.1	27912.3	25116.2	23634.2	16839.1	11251.0
57.5°	6467.5	6566.7	7448.2	10274.5	15272.3	22688.1	28104.4	26389.9	23899.1	16774.4	11166.1
60°	3168.1	3210.5	3594.7	5400.1	9417.3	18383.8	26559.7	27006.5	24046.7	16740.1	11162.0
62.5°	2135.0	2128.9	2145.1	2664.7	4639.9	11811.1	23341.1	25926.9	23967.8	16608.7	11121.7
65°	1835.8	1813.5	1752.9	1870.1	2403.8	5402.2	18034.0	22704.3	23367.3	16279.2	10844.7
67.5°	1587.1	1589.1	1591.1	1554.7	1716.5	2492.8	11020.6	17884.4	21212.2	14718.3	9777.2
70°	1314.2	1332.3	1340.4	1340.4	1399.0	1635.6	4704.6	12257.9	16732.0	11540.2	7874.7
72.5°	1196.9	1158.5	1162.6	1142.3	1142.3	1245.4	1894.4	6948.8	10541.4	6491.8	4805.7
75°	976.5	1000.8	1004.8	990.7	944.1	950.2	1124.1	2915.4	4510.5	2693.0	2375.5
77.5°	843.1	843.1	851.2	841.0	804.6	711.7	750.1	1130.2	1534.5	1103.9	1186.7
80°	677.3	675.3	709.6	729.8	673.2	525.6	479.2	624.7	681.3	485.2	616.6
82.5°	329.5	349.7	487.3	556.0	511.5	380.1	293.2	388.2	363.9	214.3	277.0
85°	192.1	181.9	218.3	309.3	293.2	210.2	141.6	202.1	190.0	109.2	111.2
87.5°	60.7	56.6	44.5	105.2	84.9	58.6	38.4	58.6	52.6	24.3	24.3
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°	9799.4	9799.4	9799.4	9799.4	9799.4	9799.4	9799.4	9799.4	9799.4	9799.4
2.5°	9688.2	9449.7	9213.1	8996.7	8865.3	8780.5	8695.6	8600.5	8564.1	8509.6
5°	9591.1	9130.2	8719.8	8365.9	8044.5	7791.8	7537.0	7330.9	7237.8	7300.6
7.5°	9534.6	8867.4	8234.5	7585.6	6960.9	6461.5	6026.8	5721.5	5584.1	5618.4
10°	9484.0	8570.2	7605.8	6580.8	5683.1	5064.5	4619.7	4387.2	4300.3	4318.4
12.5°	9437.5	8236.6	6847.6	5499.1	4544.8	4136.5	4009.1	4011.1	4027.3	4039.4
15°	9429.4	7834.3	6000.6	4552.9	3930.3	3904.0	4041.5	4128.4	4174.9	4189.1
17.5°	9417.3	7353.1	5137.3	3908.0	3780.7	3958.6	4086.0	4142.5	4178.9	4181.0
20°	9368.8	6742.6	4340.7	3600.7	3748.3	3902.0	3980.8	4025.3	4055.6	4065.8
22.5°	9219.2	6063.2	3720.0	3463.3	3619.0	3742.3	3835.2	3885.8	3904.0	3916.1
25°	8950.3	5303.0	3291.4	3331.9	3439.0	3594.7	3669.5	3679.5	3673.5	3691.7
27.5°	8598.5	4488.3	3024.6	3153.9	3291.4	3424.8	3465.3	3459.2	3447.1	3467.3
30°	8174.0	3756.4	2854.7	2953.7	3141.8	3263.1	3299.5	3285.3	3261.0	3283.3
32.5°	7725.1	3157.9	2715.2	2814.2	3018.4	3137.7	3174.1	3160.0	3141.8	3160.0
35°	7306.6	2739.5	2585.8	2721.3	2921.5	3038.7	3085.1	3087.2	3087.2	3109.4
37.5°	6922.4	2494.8	2478.7	2662.6	2854.7	2959.8	3026.5	3030.6	2943.7	2949.7
40°	6566.7	2391.7	2430.2	2624.2	2790.0	2891.1	2895.1	2668.7	2509.0	2505.0
42.5°	6275.5	2371.5	2444.3	2620.2	2743.5	2747.5	2462.5	2286.6	2242.1	2244.1
45°	6002.6	2365.5	2476.6	2620.2	2674.7	2373.5	2181.5	2135.0	2139.0	2155.2
47.5°	5697.3	2341.2	2482.8	2583.8	2476.6	2110.7	2054.1	2033.9	2025.8	2029.8
50°	5363.7	2254.3	2405.9	2511.0	2137.0	1997.5	1926.7	1920.6	1930.8	1936.8
52.5°	5011.9	2112.7	2274.5	2379.6	1981.3	1898.4	1819.6	1833.7	1878.2	1892.4
55°	4781.4	1947.0	2100.6	2116.7	1872.2	1805.4	1738.7	1771.1	1853.9	1880.3
57.5°	4720.7	1771.1	1902.5	1884.3	1732.7	1724.6	1684.1	1712.5	1817.5	1856.0
60°	4702.6	1613.4	1708.4	1694.2	1597.2	1635.6	1625.4	1639.6	1676.1	1688.2
62.5°	4561.0	1488.0	1534.5	1514.3	1475.9	1542.6	1566.8	1536.6	1564.9	1579.0
65°	4201.2	1386.9	1364.7	1350.5	1366.7	1427.3	1475.9	1415.2	1441.5	1481.9
67.5°	3606.8	1249.5	1188.8	1205.0	1255.5	1287.8	1350.5	1281.8	1304.0	1372.8
70°	2917.4	1075.5	1021.0	1067.4	1116.0	1182.7	1192.8	1146.4	1198.9	1275.7
72.5°	2064.2	899.6	861.3	956.3	972.4	1059.4	1037.2	1015.0	1087.7	1114.0
75°	1431.4	725.8	703.6	776.3	835.0	909.8	893.6	919.9	1073.6	1085.7
77.5°	905.8	564.1	549.9	596.4	677.3	760.1	786.5	1085.7	1833.7	1906.5
80°	525.6	420.6	404.4	440.7	511.5	588.3	758.2	1332.3	1209.0	1194.8
82.5°	293.2	289.2	268.9	279.0	341.6	424.6	1071.5	938.1	762.2	786.5
85°	137.5	169.8	145.5	139.5	192.1	497.3	715.7	535.8	355.8	347.8
87.5°	36.4	32.4	32.4	36.4	80.9	428.7	285.1	228.5	135.5	131.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)