

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: P966582

Luminaire Tested: **NAV-SB4C-722-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4C-722-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18558.7 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

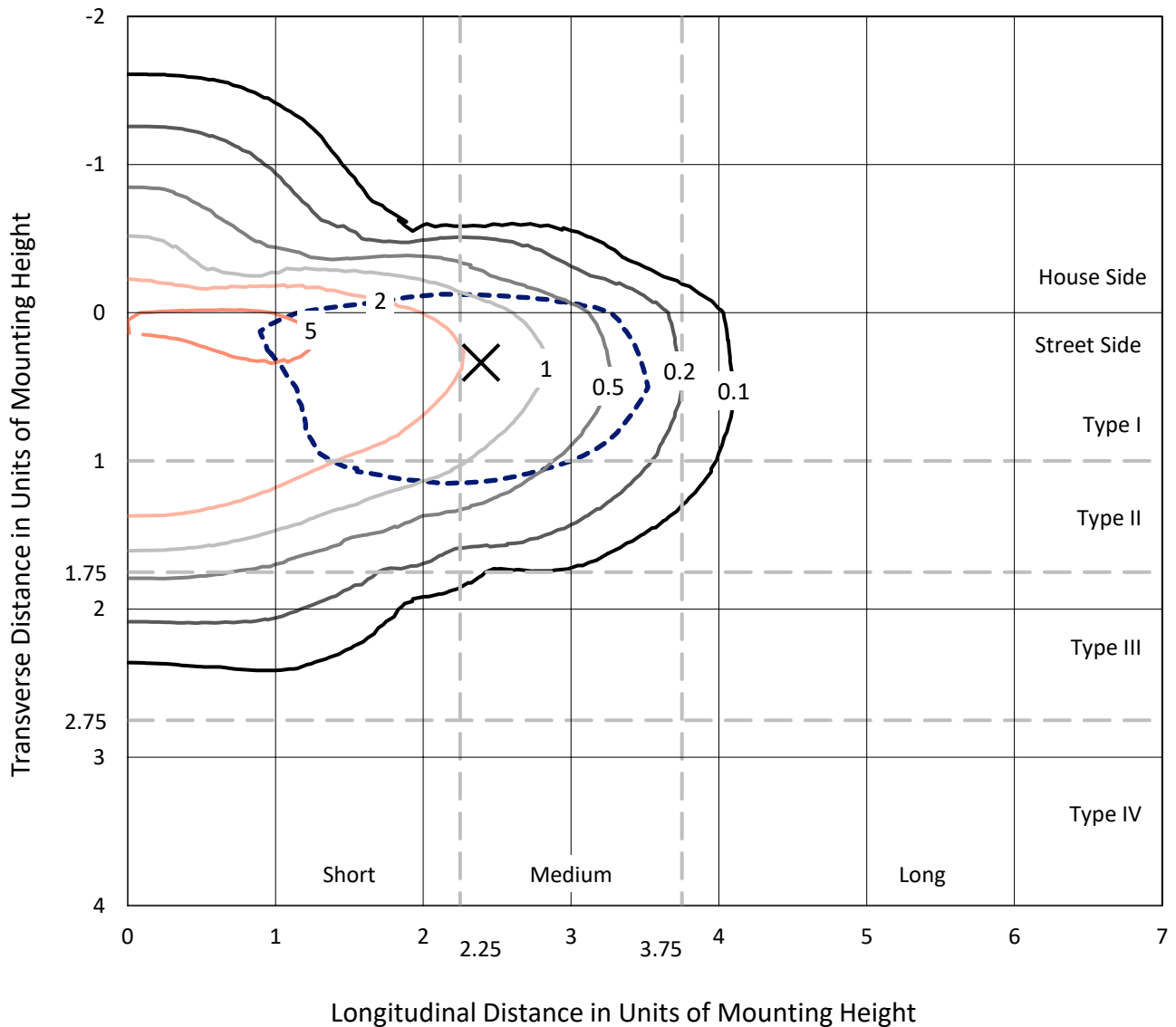
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

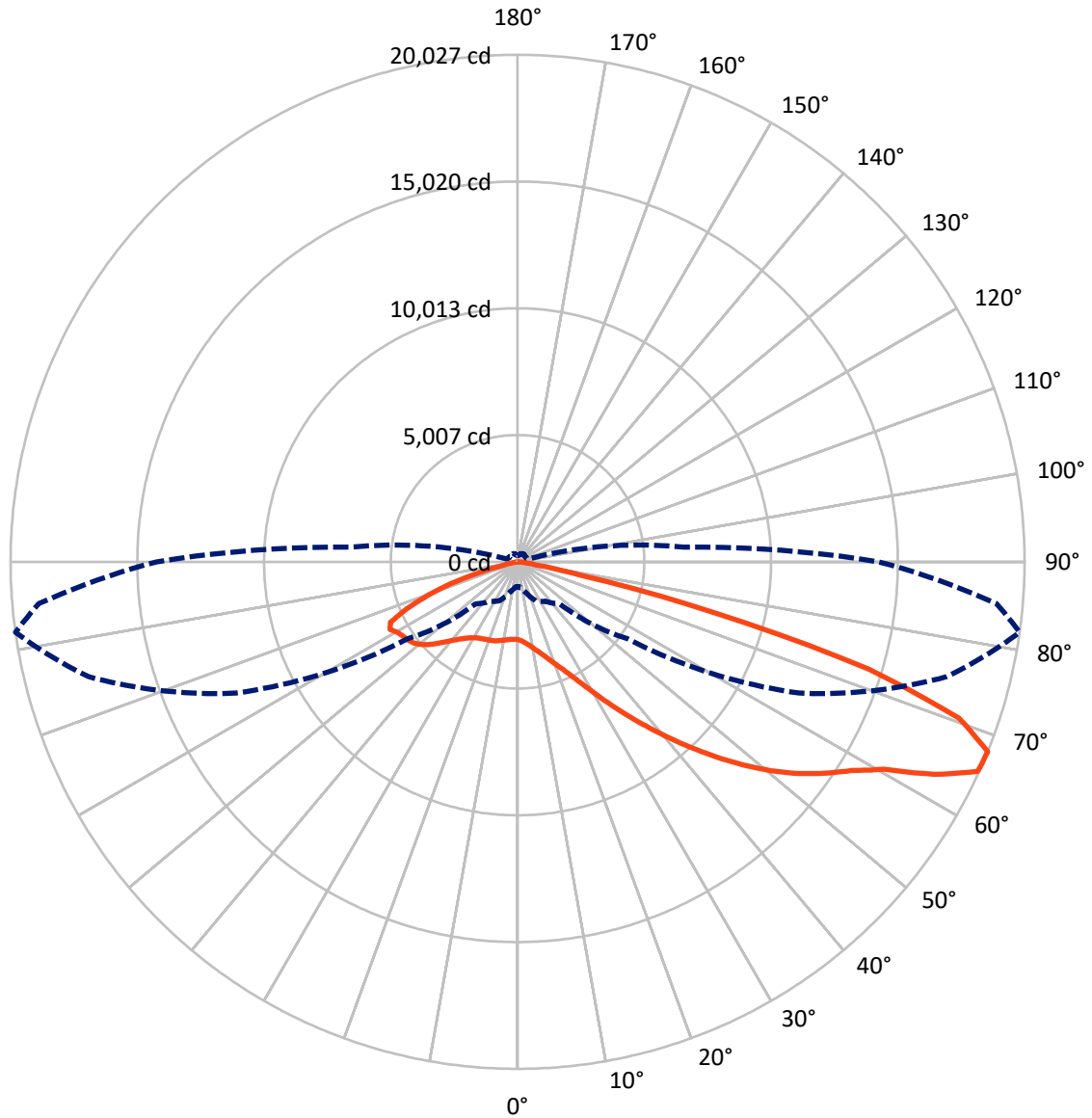
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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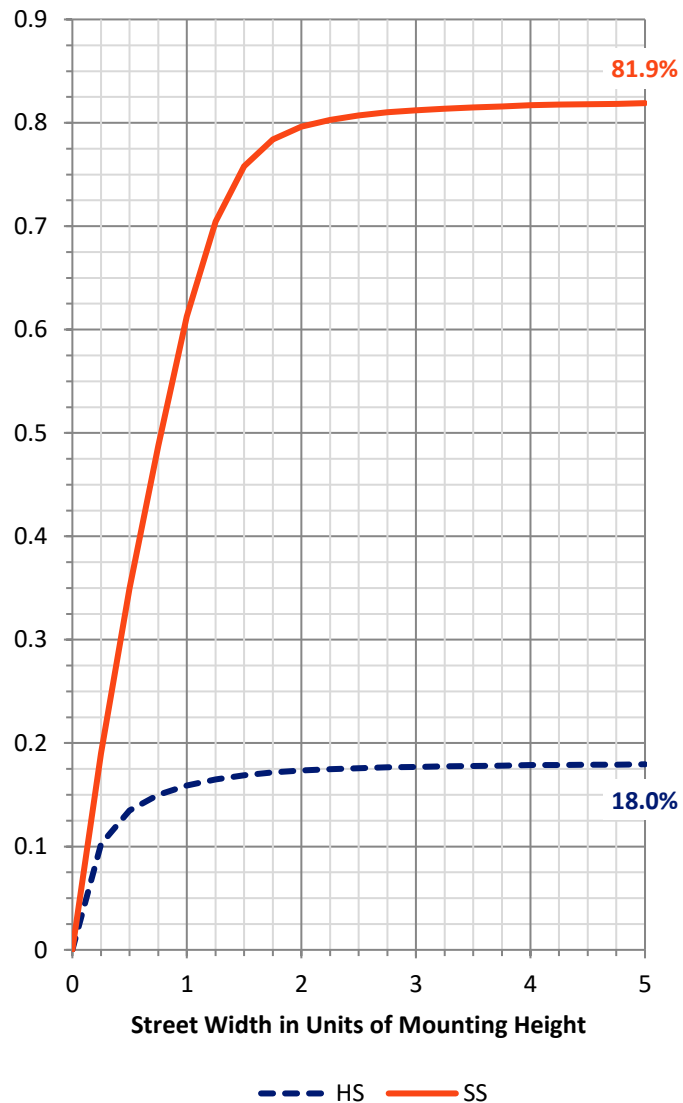
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3361.7	0.0	3361.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	15196.9	0.0	15196.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	18558.7	0.0	18558.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.9	1.5
10°-20°	711.8	3.8
20°-30°	1140.1	6.1
30°-40°	2016.0	10.9
40°-50°	3532.3	19.0
50°-60°	4711.0	25.4
60°-70°	4385.7	23.6
70°-80°	1683.3	9.1
80°-90°	104.5	0.6
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°	18558.7	100.0
0°-180°	18558.7	100.0

Coefficient of Utilization



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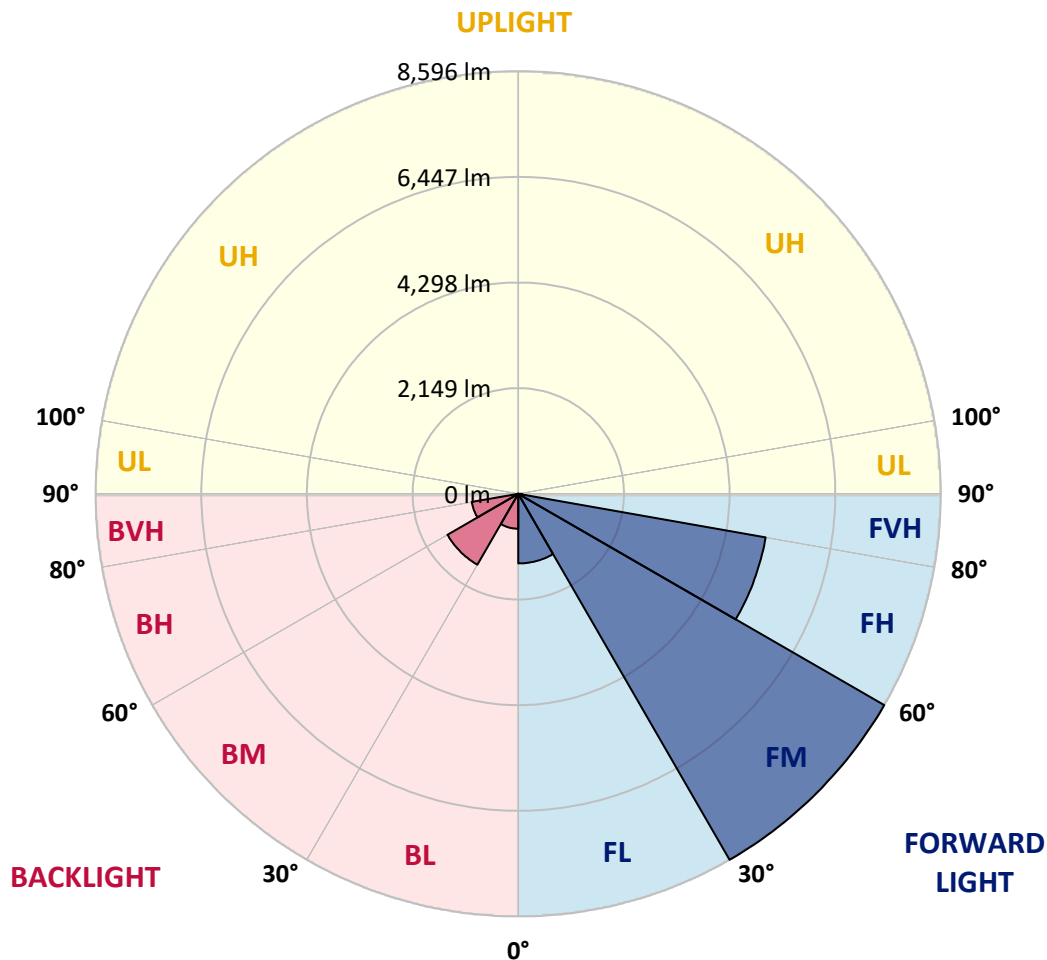
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1415.8	7.6			
FM (30°-60°)	8595.6	46.3			
FH (60°-80°)	5109.5	27.5			G3/7500
FVH (80°-90°)	76.0	0.4			G1/100
BL (0°-30°)	710.0	3.8	B2/1000		
BM (30°-60°)	1663.7	9.0	B2/2500		
BH (60°-80°)	959.5	5.2	B2/1000		G2/1000
BVH (80°-90°)	28.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6
2.5°	3249.6	3268.3	3257.6	3252.2	3242.9	3229.6	3218.8	3185.4	3150.7	3128.0	3120.0
5°	3315.1	3333.7	3332.4	3337.8	3344.5	3348.5	3345.8	3308.4	3258.9	3220.1	3197.5
7.5°	3258.9	3280.3	3297.7	3324.4	3371.1	3420.6	3444.6	3436.6	3385.9	3332.4	3304.4
10°	3099.9	3122.7	3164.1	3226.9	3325.7	3432.6	3522.2	3563.6	3531.5	3472.7	3434.0
12.5°	2808.6	2831.4	2912.8	3049.2	3214.8	3400.5	3571.6	3682.5	3690.5	3631.7	3586.3
15°	2481.3	2504.0	2590.9	2761.9	3014.4	3312.4	3598.4	3808.1	3878.9	3828.2	3773.3
17.5°	2278.2	2298.3	2363.6	2501.3	2764.5	3136.0	3588.9	3941.7	4103.4	4063.3	3997.8
20°	2216.7	2234.1	2264.8	2361.0	2580.1	2952.9	3527.5	4067.3	4345.3	4322.5	4249.0
22.5°	2282.2	2298.3	2307.6	2350.3	2488.0	2832.7	3450.0	4195.6	4625.8	4628.5	4539.0
25°	2433.1	2449.2	2438.5	2465.2	2525.4	2795.3	3420.6	4346.6	4978.6	5007.9	4906.5
27.5°	2681.7	2683.0	2657.6	2656.3	2665.7	2851.4	3451.4	4508.3	5423.6	5478.3	5352.8
30°	3180.1	3160.1	3062.5	2956.9	2908.8	3019.8	3536.9	4699.3	5948.7	6046.2	5888.5
32.5°	3948.4	3919.0	3739.9	3487.5	3233.6	3291.0	3690.5	4917.1	6520.5	6696.9	6504.5
35°	4782.1	4774.1	4587.1	4211.6	3768.0	3677.2	3940.4	5203.1	7144.6	7425.1	7196.6
37.5°	5557.1	5553.1	5446.2	5003.9	4464.2	4215.6	4341.3	5577.2	7812.7	8218.9	7948.9
40°	6265.3	6277.3	6170.5	5775.0	5231.1	4906.5	4886.4	6039.5	8555.6	9083.3	8762.6
42.5°	6877.3	6890.7	6782.4	6489.8	5988.8	5670.7	5555.8	6606.0	9281.1	10012.0	9632.5
45°	7292.9	7375.7	7359.7	7125.8	6766.4	6436.4	6360.2	7316.9	10108.1	10996.7	10551.8
47.5°	7410.4	7486.6	7606.8	7638.9	7419.8	7095.0	7186.0	8173.4	10944.6	11982.9	11476.4
50°	7120.5	7191.3	7441.2	7773.9	7926.2	7826.0	7989.0	9091.3	11801.1	12966.2	12383.6
52.5°	6548.6	6620.8	6936.1	7462.5	8083.9	8399.2	8794.7	9995.9	12630.9	13897.6	13242.8
55°	5721.5	5797.7	6202.5	6798.4	7783.2	8635.7	9466.8	10899.2	13391.1	14735.3	14017.8
57.5°	4596.4	4652.6	5073.4	5907.3	7027.0	8400.5	9962.5	11885.3	14107.4	15558.5	14786.1
60°	2995.7	3045.2	3534.2	4464.2	5773.6	7614.8	10061.4	12984.9	15058.7	16628.7	15821.7
62.5°	1992.2	2025.6	2315.6	2998.3	4066.0	6106.3	9482.9	13862.8	16453.7	18491.3	17597.4
65°	1366.9	1400.4	1690.2	2165.9	2627.0	4039.2	7819.3	13746.6	17717.7	19970.5	18913.6
67.5°	975.4	1003.5	1249.4	1698.3	1901.4	2346.3	5300.6	12260.7	17536.0	20026.6	18984.4
70°	698.8	714.8	918.0	1322.9	1511.3	1409.7	2947.6	9377.3	15354.0	18492.6	17538.7
72.5°	489.0	494.4	637.3	1007.5	1217.3	1028.9	1403.0	6252.0	11612.7	14514.9	13596.9
75°	331.4	338.0	429.0	738.9	976.7	785.7	742.9	3352.5	6817.2	8034.5	7202.0
77.5°	203.1	205.8	276.5	505.1	730.9	598.6	478.4	1420.3	2637.6	2589.5	2207.3
80°	114.9	114.9	176.4	314.0	498.4	386.1	335.4	603.9	835.1	733.6	646.7
82.5°	64.2	65.5	128.2	195.1	330.0	228.5	184.4	279.2	360.8	319.4	277.9
85°	26.8	29.4	78.8	92.1	157.6	113.6	74.8	117.6	133.7	118.9	86.8
87.5°	2.7	4.0	24.1	17.3	18.8	22.8	10.7	22.8	18.8	18.8	13.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6	3074.6
2.5°	3094.6	3074.6	3023.7	2965.0	2887.4	2850.0	2799.3	2764.5	2735.1	2737.8	2711.1
5°	3154.7	3103.9	2990.3	2848.7	2672.4	2546.7	2413.2	2320.9	2246.1	2230.1	2194.0
7.5°	3237.6	3157.4	2958.3	2703.1	2405.2	2179.3	1977.5	1848.0	1755.7	1726.3	1697.0
10°	3344.5	3228.2	2916.8	2520.1	2091.1	1803.8	1587.4	1485.8	1423.0	1401.7	1385.6
12.5°	3468.7	3309.7	2862.1	2296.9	1767.7	1491.2	1353.5	1302.8	1282.7	1276.0	1272.0
15°	3625.0	3411.3	2779.3	2032.4	1493.8	1300.1	1241.3	1234.6	1237.3	1234.6	1233.3
17.5°	3810.7	3522.2	2644.3	1759.7	1309.4	1202.5	1181.2	1186.5	1193.2	1191.9	1189.2
20°	4013.9	3631.7	2471.9	1517.9	1183.9	1133.0	1121.0	1126.4	1131.7	1129.0	1127.7
22.5°	4245.0	3749.3	2280.8	1329.5	1099.7	1069.0	1055.5	1056.9	1056.9	1051.5	1048.9
25°	4521.6	3878.9	2080.4	1195.9	1035.6	1011.5	995.5	990.1	982.1	966.1	963.4
27.5°	4851.6	4016.6	1888.0	1102.4	984.7	962.1	943.3	930.0	909.9	883.2	880.6
30°	5223.1	4183.5	1725.0	1043.6	944.6	922.0	900.6	880.6	851.2	817.7	815.1
32.5°	5660.0	4362.6	1606.1	1004.8	908.6	884.6	859.2	835.1	803.1	769.7	771.0
35°	6181.2	4579.1	1536.6	978.1	880.6	848.5	820.4	793.7	769.7	740.3	737.6
37.5°	6746.3	4808.9	1515.3	964.7	861.8	812.4	780.3	761.6	758.9	741.6	740.3
40°	7365.0	5081.4	1531.2	956.7	841.8	777.7	742.9	738.9	745.6	714.8	716.2
42.5°	8019.7	5404.8	1558.0	947.3	813.7	742.9	709.5	709.5	704.2	661.4	661.4
45°	8727.9	5777.6	1584.8	924.7	780.3	708.2	682.8	673.4	650.7	609.3	607.9
47.5°	9441.4	6157.1	1604.7	883.2	740.3	678.8	656.1	634.7	601.3	563.9	562.5
50°	10118.9	6497.8	1583.3	821.7	694.8	650.7	626.7	597.3	561.2	535.8	531.8
52.5°	10724.2	6793.1	1492.5	749.6	646.7	621.4	599.9	569.2	539.8	513.1	510.4
55°	11250.6	7032.3	1332.2	681.4	603.9	595.9	574.5	535.8	495.7	473.0	470.4
57.5°	11755.6	7214.1	1131.7	625.4	565.2	567.8	535.8	501.0	463.6	439.6	437.0
60°	12427.8	7457.2	928.6	573.2	523.8	531.8	497.0	471.7	424.9	394.2	390.1
62.5°	13502.0	7835.3	737.6	509.1	475.7	478.4	463.6	433.0	376.8	340.7	338.0
65°	14354.5	7696.4	581.3	439.6	420.9	424.9	424.9	391.5	331.4	290.0	286.0
67.5°	14258.4	6590.0	463.6	371.5	368.8	371.5	380.8	352.7	294.0	260.6	255.2
70°	13134.7	5241.8	371.5	308.6	320.7	314.0	340.7	322.1	264.6	231.1	227.1
72.5°	10717.5	3776.0	283.3	255.2	245.9	256.6	307.3	290.0	220.5	183.1	179.1
75°	6262.6	2014.9	211.2	201.7	177.7	213.8	272.5	247.2	168.4	135.0	131.0
77.5°	2039.0	702.8	155.0	148.3	132.3	172.4	232.5	208.5	137.7	106.9	102.9
80°	546.5	212.5	105.6	97.6	85.5	128.2	184.4	165.6	98.9	69.5	68.2
82.5°	219.1	89.5	61.5	54.7	46.7	88.1	145.7	133.7	73.5	44.1	44.1
85°	70.8	29.4	22.8	17.3	21.4	54.7	86.8	90.8	52.1	22.8	17.3
87.5°	9.3	4.0	4.0	5.3	4.0	9.3	26.8	25.4	14.7	2.7	0.0
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)