

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: P963937

Luminaire Tested: **NAV-SB3B-722-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-722-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14218.8 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

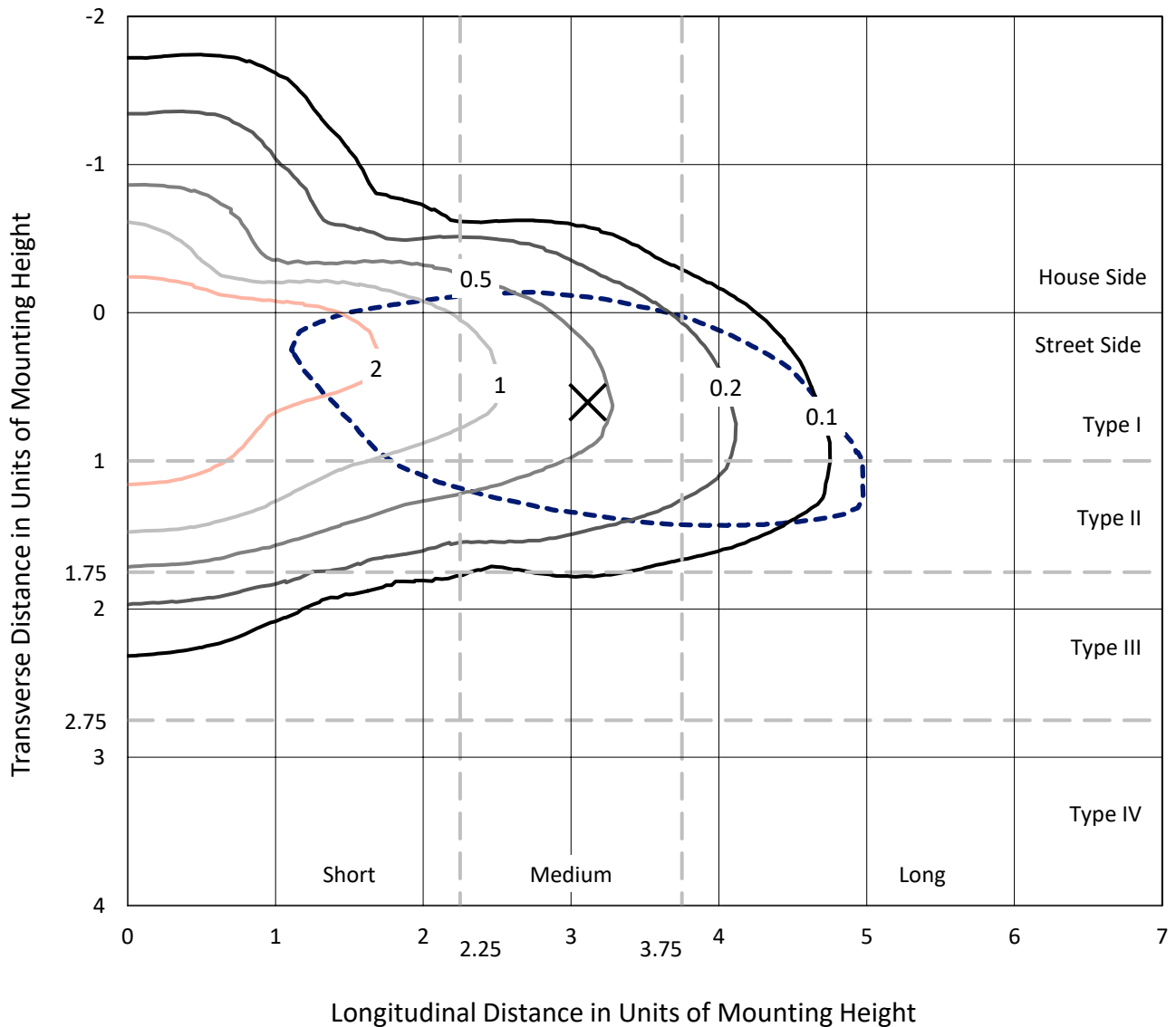
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

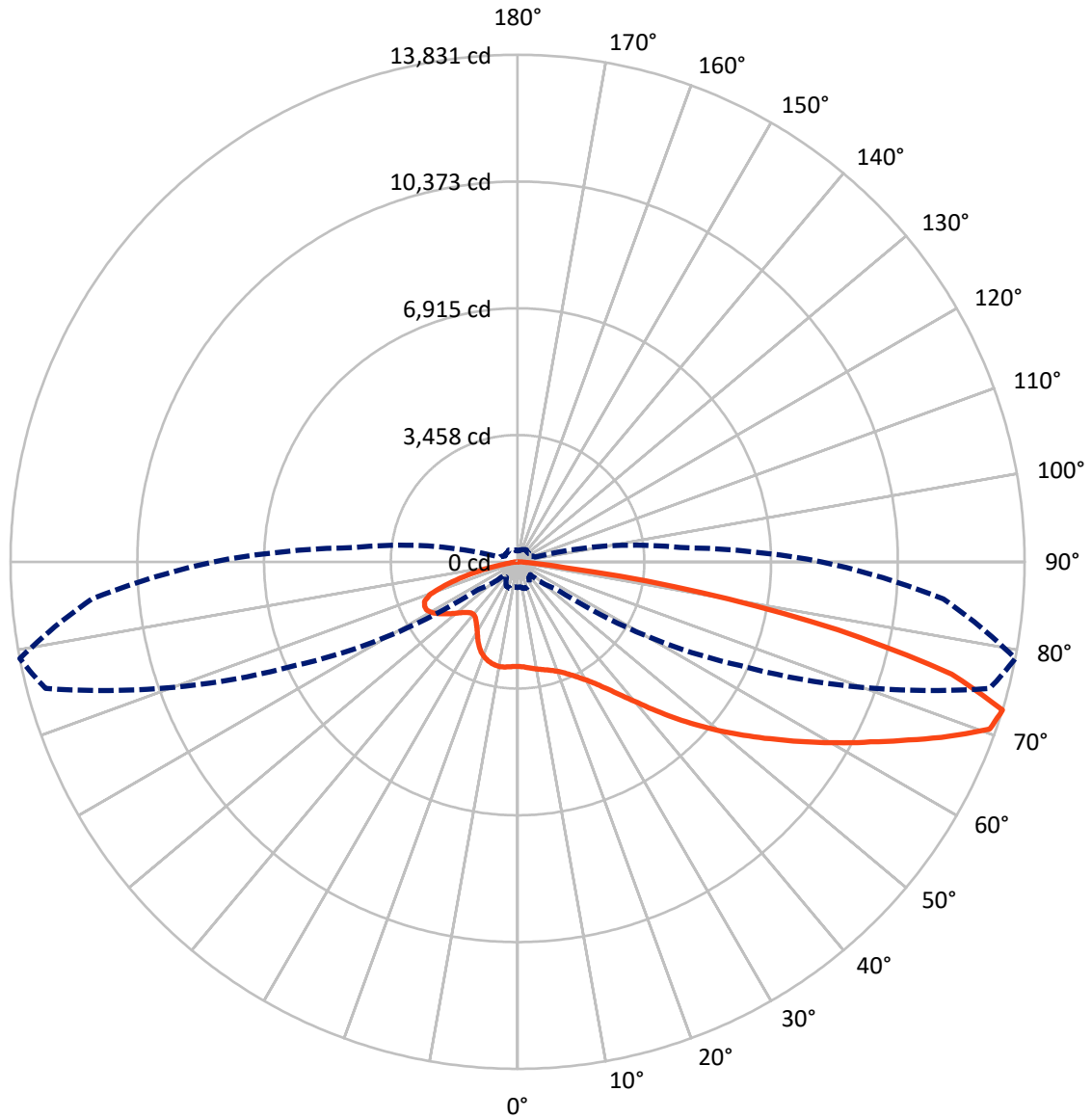
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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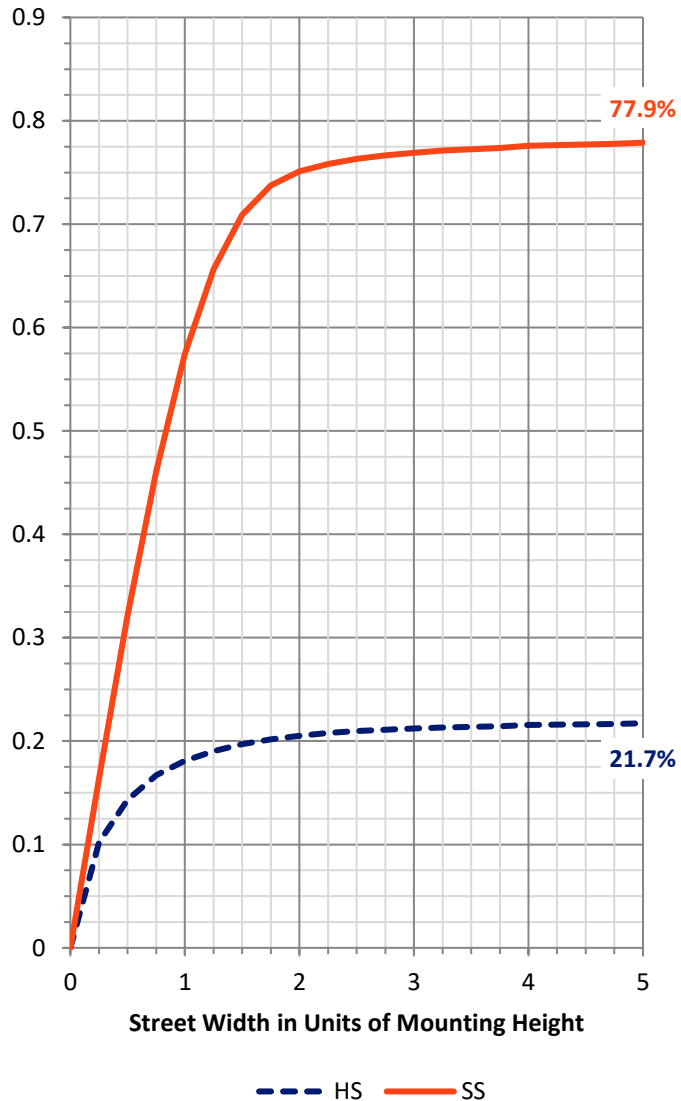
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3128.9	0.0	3128.9
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	11089.9	0.0	11089.9
	% Fixture	78.0	0.0	78.0
Total	Lumens	14218.8	0.0	14218.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.1	1.8
10°-20°	677.4	4.8
20°-30°	1093.0	7.7
30°-40°	1640.5	11.5
40°-50°	2327.1	16.4
50°-60°	2938.8	20.7
60°-70°	2984.8	21.0
70°-80°	2034.2	14.3
80°-90°	263.9	1.9
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°	14218.8	100.0
0°-180°	14218.8	100.0

Coefficient of Utilization

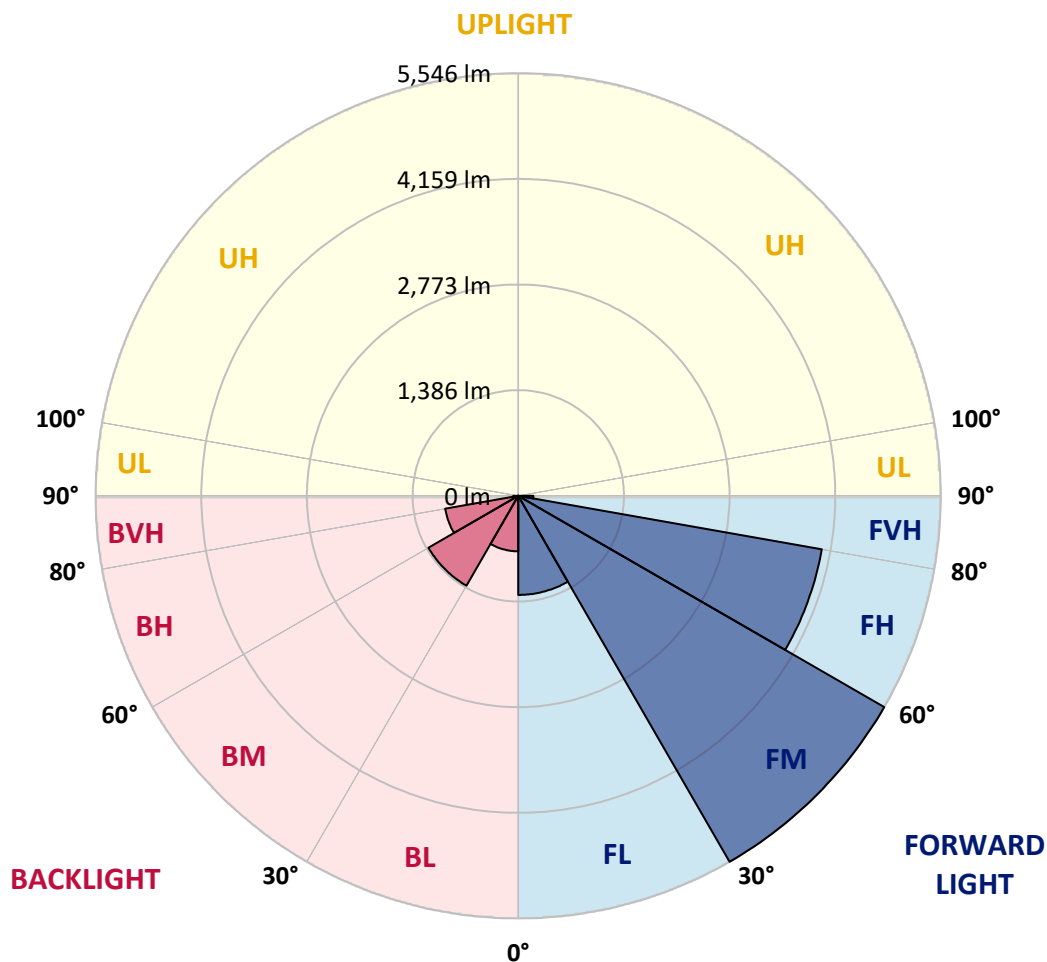


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1300.7	9.1			
FM (30°-60°)	5545.6	39.0			
FH (60°-80°)	4044.8	28.4			G2/5000
FVH (80°-90°)	198.8	1.4			G2/225
BL (0°-30°)	728.8	5.1	B2/1000		
BM (30°-60°)	1360.8	9.6	B2/2500		
BH (60°-80°)	974.2	6.9	B2/1000		G2/1000
BVH (80°-90°)	65.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3
2.5°	2855.8	2842.2	2850.5	2847.6	2851.2	2855.8	2857.3	2859.5	2867.0	2866.3	2865.6
5°	2849.8	2836.3	2847.6	2843.8	2853.5	2864.1	2873.1	2881.4	2893.4	2898.7	2891.1
7.5°	2837.0	2828.0	2839.2	2850.5	2868.6	2884.4	2897.2	2915.9	2933.2	2936.3	2941.5
10°	2762.6	2755.7	2782.1	2811.4	2861.1	2903.9	2931.8	2953.5	2972.4	2975.4	2982.9
12.5°	2685.1	2676.8	2706.1	2746.0	2826.4	2903.9	2962.6	2991.2	3007.8	3017.5	3028.8
15°	2672.3	2665.5	2682.0	2716.7	2783.6	2883.6	2983.7	3036.3	3050.6	3061.9	3066.4
17.5°	2734.0	2721.2	2727.9	2739.9	2779.1	2864.8	3000.2	3087.4	3109.2	3121.3	3121.3
20°	2876.9	2858.8	2848.3	2824.2	2817.4	2867.8	2998.7	3149.1	3177.7	3192.8	3196.5
22.5°	3067.1	3055.1	3032.6	2971.6	2905.5	2904.6	3027.2	3228.1	3281.5	3295.8	3286.8
25°	3297.3	3279.3	3250.7	3168.0	3040.8	2977.6	3075.4	3328.9	3418.4	3422.2	3395.8
27.5°	3562.1	3534.9	3495.9	3386.8	3215.3	3091.9	3149.1	3444.7	3575.6	3574.1	3520.0
30°	3841.1	3814.0	3772.6	3640.3	3424.4	3246.2	3251.4	3569.6	3762.1	3753.9	3661.3
32.5°	4044.9	4024.6	4016.4	3914.1	3665.1	3428.1	3368.8	3707.9	3992.3	3984.7	3855.3
35°	4201.4	4175.0	4184.8	4132.9	3927.6	3632.0	3512.4	3872.7	4272.0	4271.3	4110.4
37.5°	4356.2	4333.0	4341.2	4306.6	4170.5	3890.7	3687.6	4074.3	4618.8	4635.3	4418.7
40°	4497.7	4472.9	4505.9	4473.6	4359.3	4166.0	3886.9	4302.1	5020.3	5052.0	4791.8
42.5°	4582.7	4563.1	4618.0	4618.8	4523.2	4398.4	4105.8	4553.4	5485.2	5555.9	5250.6
45°	4612.0	4605.2	4687.9	4705.3	4668.4	4533.1	4302.8	4827.1	5986.1	6112.5	5773.2
47.5°	4580.4	4567.6	4681.9	4745.9	4775.2	4596.2	4466.0	5123.5	6497.6	6682.6	6343.3
50°	4420.9	4396.1	4566.1	4700.8	4805.3	4637.6	4630.7	5465.6	7079.0	7281.3	6916.5
52.5°	4134.4	4115.6	4308.9	4542.8	4739.1	4657.9	4815.9	5839.4	7631.0	7892.7	7503.9
55°	3768.1	3743.3	3956.2	4261.5	4574.4	4651.1	5000.9	6257.6	8282.3	8547.8	8110.8
57.5°	3187.4	3137.8	3407.1	3768.1	4305.9	4642.8	5193.4	6673.6	8944.2	9262.3	8758.4
60°	2340.6	2266.9	2597.0	3025.0	3780.9	4562.4	5431.8	7139.8	9738.4	10025.0	9465.4
62.5°	1362.8	1320.0	1535.9	1935.2	2849.8	4088.5	5565.6	7682.2	10519.2	10820.0	10160.4
65°	1058.2	1046.2	1065.0	1095.8	1586.2	3061.2	5152.8	8210.9	11511.9	11722.5	10884.7
67.5°	968.0	959.0	967.2	909.3	804.7	1705.1	4076.5	8344.7	12575.4	12703.2	11518.6
70°	860.4	849.9	877.0	827.4	633.2	775.4	2633.9	7858.9	13421.6	13661.5	12000.8
72.5°	701.0	688.9	752.1	729.6	533.2	497.9	1323.0	6704.4	13332.8	13830.7	11655.6
75°	538.5	531.8	607.0	625.8	434.7	391.9	634.8	4983.5	11733.1	12234.7	10045.3
77.5°	418.2	412.9	451.3	519.7	350.4	303.8	390.3	3161.2	8841.9	8929.9	6922.5
80°	313.6	298.6	333.9	402.4	273.1	221.9	264.8	1843.5	5589.0	5066.3	3013.0
82.5°	196.3	188.8	218.1	268.5	192.5	152.7	172.2	1018.3	2239.8	1319.2	581.4
85°	112.0	109.1	118.8	153.4	104.6	88.0	98.5	449.8	409.2	281.3	175.3
87.5°	45.1	43.7	54.1	68.5	38.3	32.4	34.6	108.3	90.3	83.4	57.9
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°	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3
2.5°	2862.5	2862.5	2852.1	2835.5	2816.7	2804.6	2785.1	2779.8	2759.5	2753.5	2763.3
5°	2897.2	2891.1	2858.8	2812.2	2748.2	2689.6	2624.9	2584.2	2527.1	2506.8	2521.8
7.5°	2940.8	2924.2	2868.6	2766.3	2632.4	2500.8	2364.0	2260.1	2160.8	2125.4	2130.0
10°	2980.6	2957.3	2862.5	2683.6	2451.9	2224.0	2005.9	1853.2	1737.4	1690.0	1700.6
12.5°	3020.5	2977.6	2822.7	2545.9	2195.4	1886.3	1653.9	1535.0	1463.6	1406.5	1425.3
15°	3058.1	2997.9	2761.0	2361.7	1914.2	1600.5	1429.1	1334.2	1277.0	1239.5	1246.3
17.5°	3101.8	3015.2	2668.5	2127.7	1646.4	1402.7	1262.8	1205.6	1194.3	1189.8	1192.9
20°	3162.6	3031.0	2546.7	1866.0	1449.4	1244.8	1172.6	1167.3	1166.6	1164.3	1171.8
22.5°	3228.1	3049.9	2385.7	1628.3	1281.7	1146.3	1133.4	1122.9	1116.1	1115.4	1123.7
25°	3305.5	3055.8	2184.2	1433.6	1138.7	1099.6	1084.6	1068.8	1064.3	1064.3	1068.8
27.5°	3380.8	3035.5	1949.4	1264.3	1058.2	1056.8	1037.2	1031.9	1031.1	1033.4	1039.5
30°	3456.0	2997.2	1716.4	1107.8	1011.6	1011.6	1004.8	1008.6	1011.6	1019.2	1024.4
32.5°	3557.6	2956.6	1521.5	992.0	971.0	963.5	970.3	977.7	980.7	990.6	998.9
35°	3706.4	2928.0	1366.6	928.9	928.9	919.1	922.8	921.4	914.6	910.1	920.6
37.5°	3903.5	2926.5	1238.7	899.5	893.5	892.1	892.8	883.0	856.7	825.1	825.8
40°	4140.4	2967.1	1140.2	879.2	874.7	883.8	879.2	852.9	780.7	725.8	724.3
42.5°	4458.5	3082.9	1077.1	854.4	868.0	879.2	861.2	770.2	721.3	684.4	683.0
45°	4833.1	3271.0	1044.7	828.1	855.2	868.7	781.5	741.6	702.4	658.2	655.1
47.5°	5257.3	3507.9	1037.2	803.3	826.6	834.9	747.6	729.6	685.2	637.0	633.2
50°	5719.1	3788.4	1057.5	774.0	785.3	756.7	736.4	719.8	673.9	626.5	621.3
52.5°	6196.7	4097.5	1098.1	734.1	743.8	712.3	731.8	717.5	667.2	603.2	598.7
55°	6666.0	4408.9	1137.2	687.5	701.7	672.4	719.0	708.5	636.3	564.1	560.4
57.5°	7142.9	4718.8	1175.6	646.1	661.1	634.1	698.7	684.4	601.7	528.0	526.4
60°	7638.5	5019.6	1193.6	606.2	616.7	598.7	667.9	643.1	562.6	491.2	488.9
62.5°	8102.5	5270.1	1164.3	566.3	573.1	565.6	627.3	594.2	523.5	449.8	449.1
65°	8568.2	5419.0	1074.0	527.3	528.7	525.0	570.1	541.5	477.5	413.7	409.2
67.5°	8990.1	5502.5	930.4	485.1	481.3	479.8	516.7	484.4	433.3	377.6	373.1
70°	9079.6	5290.4	710.7	435.5	435.5	431.7	458.1	425.0	384.4	339.2	337.7
72.5°	8292.9	4450.2	504.7	379.0	385.1	377.6	399.3	371.6	334.7	304.6	295.6
75°	6687.1	3263.4	367.1	321.1	331.7	318.9	339.2	319.7	288.0	287.3	258.7
77.5°	4594.7	2017.9	266.3	264.8	272.2	255.7	279.0	268.5	240.0	227.1	212.9
80°	1960.7	804.7	194.0	204.6	204.6	189.5	216.6	219.7	194.7	188.8	188.8
82.5°	390.3	228.7	136.1	140.6	132.3	127.8	153.4	169.9	234.6	261.0	261.8
85°	117.4	84.3	82.0	76.7	67.6	68.5	90.3	170.8	210.6	120.3	103.8
87.5°	32.4	21.0	21.8	17.3	14.2	18.8	30.9	129.4	70.7	30.1	25.5
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)