

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: P962449

Luminaire Tested: **NAV-SB2C-735-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962449
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-SB2C-735-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15258.2 lumens
Efficiency: N/A
Efficacy: 151.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

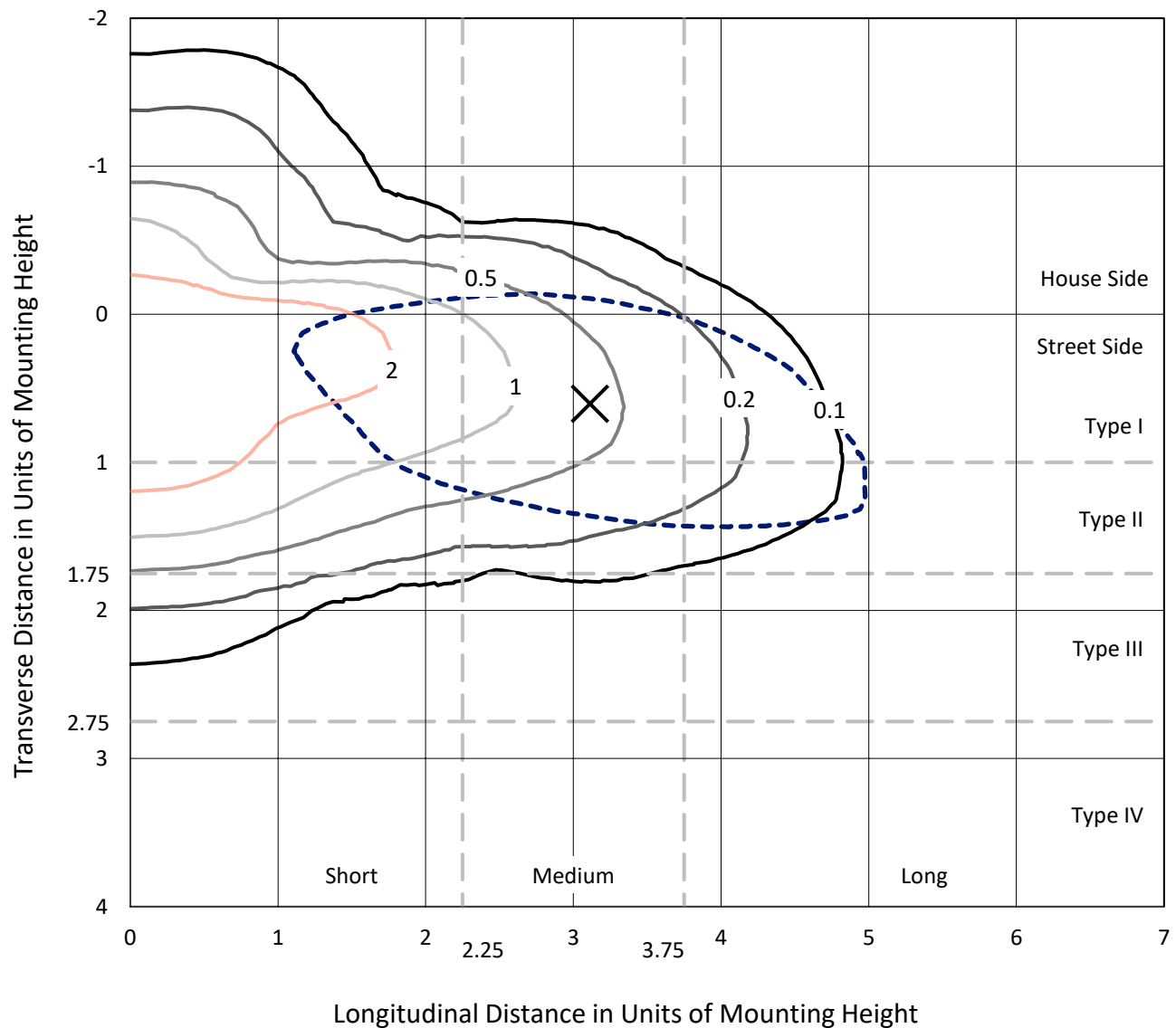
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

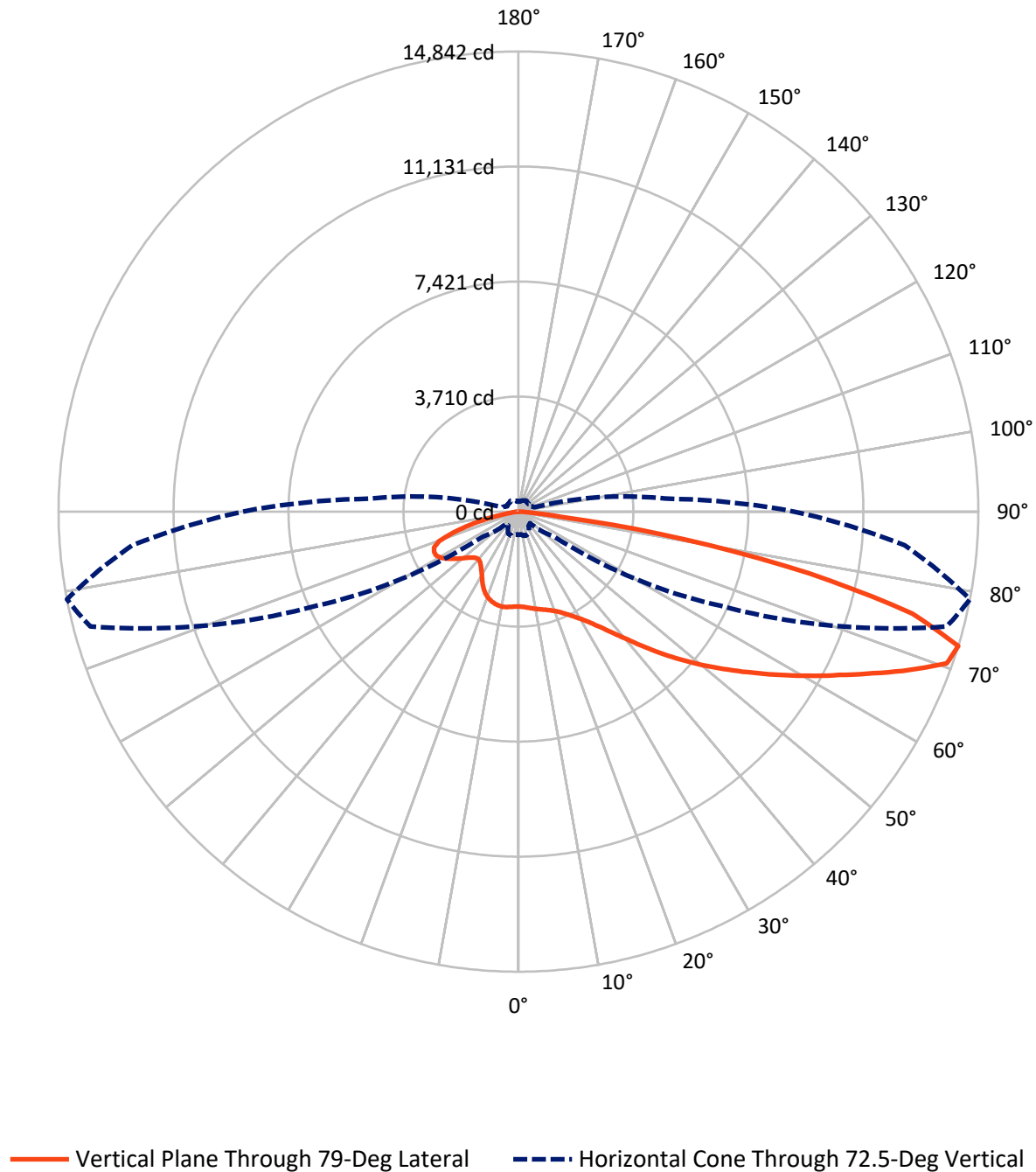
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3357.6	0.0	3357.6
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	11900.5	0.0	11900.5
	% Fixture	78.0	0.0	78.0
Total	Lumens	15258.2	0.0	15258.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.0	1.8
10°-20°	726.9	4.8
20°-30°	1172.9	7.7
30°-40°	1760.4	11.5
40°-50°	2497.2	16.4
50°-60°	3153.6	20.7
60°-70°	3202.9	21.0
70°-80°	2182.9	14.3
80°-90°	283.2	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°	15258.2	100.0
0°-180°	15258.2	100.0

Coefficient of Utilization



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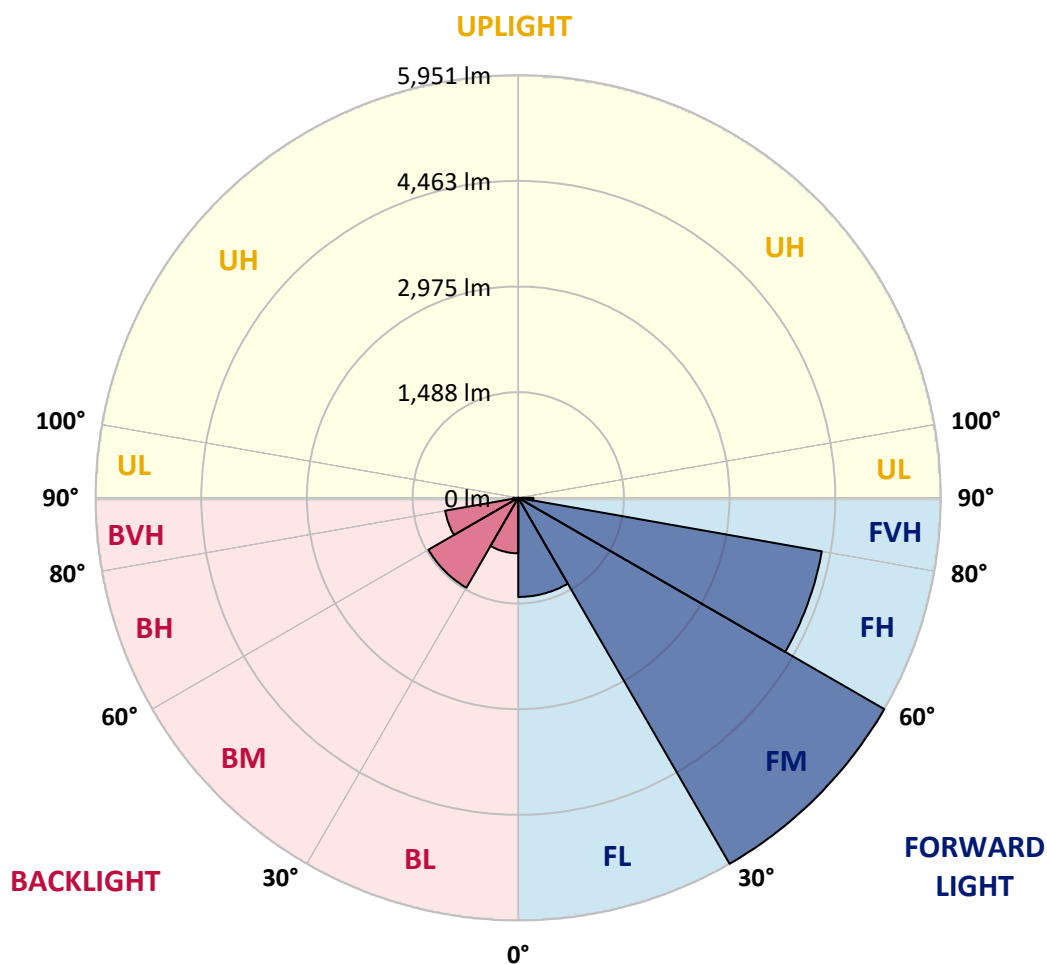
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1395.8	9.1			
FM	(30°-60°)	5951.0	39.0			
FH	(60°-80°)	4340.4	28.4			G2/5000
FVH	(80°-90°)	213.3	1.4			G2/225
BL	(0°-30°)	782.1	5.1	B2/1000		
BM	(30°-60°)	1460.2	9.6	B2/2500		
BH	(60°-80°)	1045.5	6.9	B3/2500		G3/2500
BVH	(80°-90°)	69.9	0.5			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3062.9	3062.9	3062.9	3062.9	3062.9	3062.9	3062.9	3062.9	3062.9	3062.9	3062.9
2.5°	3064.5	3050.0	3058.9	3055.6	3059.7	3064.5	3066.2	3068.5	3076.6	3075.8	3075.0
5°	3058.1	3043.5	3055.6	3051.6	3062.1	3073.5	3083.1	3092.0	3104.9	3110.6	3102.5
7.5°	3044.4	3034.7	3046.8	3058.9	3078.3	3095.2	3108.9	3129.1	3147.7	3151.0	3156.6
10°	2964.5	2957.2	2985.4	3016.9	3070.2	3116.2	3146.0	3169.5	3189.6	3192.9	3201.0
12.5°	2881.4	2872.5	2903.9	2946.7	3033.1	3116.2	3179.1	3209.8	3227.6	3238.1	3250.2
15°	2867.6	2860.4	2878.1	2915.2	2987.1	3094.4	3201.8	3258.3	3273.5	3285.6	3290.6
17.5°	2933.8	2920.1	2927.3	2940.2	2982.2	3074.2	3219.5	3313.1	3336.6	3349.5	3349.5
20°	3087.1	3067.7	3056.4	3030.6	3023.3	3077.5	3217.9	3379.3	3410.0	3426.2	3430.2
22.5°	3291.4	3278.5	3254.2	3188.9	3117.8	3117.0	3248.5	3464.1	3521.4	3536.7	3527.0
25°	3538.3	3518.9	3488.3	3399.5	3263.1	3195.3	3300.2	3572.2	3668.3	3672.3	3644.1
27.5°	3822.4	3793.3	3751.4	3634.3	3450.4	3317.9	3379.3	3696.5	3836.9	3835.3	3777.2
30°	4121.8	4092.8	4048.4	3906.4	3674.7	3483.5	3489.1	3830.5	4037.1	4028.2	3928.9
32.5°	4340.6	4318.7	4309.9	4200.1	3933.0	3678.7	3615.0	3978.9	4284.1	4276.0	4137.2
35°	4508.5	4480.2	4490.7	4435.0	4214.7	3897.5	3769.1	4155.8	4584.3	4583.5	4410.8
37.5°	4674.7	4649.7	4658.5	4621.4	4475.4	4175.1	3957.2	4372.0	4956.4	4974.1	4741.6
40°	4826.4	4799.8	4835.3	4800.6	4677.9	4470.5	4171.0	4616.6	5387.4	5421.2	5142.0
42.5°	4917.6	4896.6	4955.6	4956.4	4853.9	4719.9	4406.0	4886.2	5886.2	5962.0	5634.3
45°	4949.1	4941.8	5030.6	5049.2	5009.7	4864.3	4617.4	5179.9	6423.7	6559.3	6195.3
47.5°	4915.2	4901.4	5024.1	5092.8	5124.3	4932.2	4792.5	5497.9	6972.5	7171.0	6807.0
50°	4744.1	4717.5	4899.9	5044.3	5156.6	4976.6	4969.3	5865.2	7596.4	7813.5	7422.0
52.5°	4436.6	4416.4	4623.9	4874.9	5085.5	4998.3	5167.8	6266.3	8188.8	8469.7	8052.4
55°	4043.5	4016.9	4245.3	4573.0	4908.7	4991.0	5366.4	6715.1	8887.8	9172.6	8703.7
57.5°	3420.4	3367.2	3656.2	4043.5	4620.6	4982.2	5573.0	7161.4	9598.0	9939.4	9398.6
60°	2511.7	2432.6	2786.9	3246.2	4057.3	4895.8	5828.9	7661.8	10450.3	10757.8	10157.3
62.5°	1462.5	1416.4	1648.1	2076.6	3058.1	4387.4	5972.5	8243.7	11288.0	11610.9	10903.0
65°	1135.6	1122.7	1142.9	1176.0	1702.1	3284.9	5529.4	8811.1	12353.4	12579.4	11680.3
67.5°	1038.7	1029.0	1037.9	975.8	863.6	1829.7	4374.5	8954.7	13494.6	13631.9	12360.7
70°	923.3	912.0	941.1	887.9	679.6	832.1	2826.4	8433.4	14402.6	14660.1	12878.0
72.5°	752.2	739.3	807.1	782.9	572.3	534.3	1419.7	7194.5	14307.4	14841.7	12507.6
75°	577.9	570.6	651.3	671.5	466.5	420.5	681.2	5347.8	12590.7	13129.0	10779.6
77.5°	448.7	443.1	484.2	557.7	376.1	326.1	418.9	3392.2	9488.2	9582.6	7428.5
80°	336.6	320.4	358.3	431.8	292.9	238.1	284.1	1978.1	5997.5	5436.6	3233.3
82.5°	210.6	202.5	234.0	288.1	206.6	163.8	184.8	1092.9	2403.5	1415.6	623.9
85°	120.2	117.1	127.5	164.6	112.2	94.4	105.8	482.7	439.1	301.9	188.1
87.5°	48.4	46.8	58.1	73.5	41.2	34.7	37.1	116.2	96.9	89.6	62.1
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°	3062.9	3062.9	3062.9	3062.9	3062.9	3062.9	3062.9	3062.9	3062.9	3062.9	3062.9
2.5°	3071.8	3071.8	3060.5	3042.7	3022.6	3009.7	2988.7	2983.1	2961.2	2954.8	2965.2
5°	3108.9	3102.5	3067.7	3017.7	2949.1	2886.2	2816.8	2773.1	2711.8	2690.0	2706.2
7.5°	3155.8	3138.0	3078.3	2968.5	2824.8	2683.6	2536.7	2425.4	2318.8	2280.8	2285.6
10°	3198.5	3173.5	3071.8	2879.7	2631.2	2386.6	2152.5	1988.7	1864.4	1813.5	1824.8
12.5°	3241.3	3195.3	3029.1	2732.0	2356.0	2024.2	1774.8	1647.3	1570.6	1509.3	1529.4
15°	3281.6	3217.1	2962.9	2534.3	2054.1	1717.5	1533.5	1431.8	1370.4	1330.1	1337.3
17.5°	3328.5	3235.6	2863.5	2283.3	1766.7	1505.2	1355.2	1293.8	1281.7	1276.8	1280.0
20°	3393.9	3252.6	2732.9	2002.4	1555.2	1335.8	1258.3	1252.7	1251.8	1249.4	1257.5
22.5°	3464.1	3272.7	2560.1	1747.3	1375.2	1230.0	1216.3	1205.0	1197.7	1196.9	1205.8
25°	3547.2	3279.2	2343.8	1538.3	1221.9	1180.0	1163.8	1146.9	1142.1	1142.1	1146.9
27.5°	3627.9	3257.4	2092.0	1356.7	1135.6	1134.0	1112.9	1107.3	1106.5	1108.9	1115.4
30°	3708.7	3216.2	1841.8	1188.9	1085.6	1085.6	1078.3	1082.3	1085.6	1093.6	1099.3
32.5°	3817.6	3172.7	1632.7	1064.6	1041.9	1033.9	1041.2	1049.2	1052.5	1062.9	1071.8
35°	3977.4	3142.0	1466.5	996.8	996.8	986.3	990.4	988.7	981.4	976.6	987.9
37.5°	4188.9	3140.4	1329.3	965.2	958.8	957.2	958.1	947.5	919.3	885.4	886.2
40°	4443.1	3184.0	1223.5	943.5	938.7	948.3	943.5	915.2	837.7	778.9	777.3
42.5°	4784.5	3308.3	1155.8	916.9	931.4	943.5	924.1	826.5	774.0	734.4	732.9
45°	5186.4	3510.0	1121.0	888.6	917.7	932.2	838.6	795.8	753.8	706.2	702.9
47.5°	5641.6	3764.3	1112.9	862.0	887.0	895.8	802.3	782.9	735.2	683.6	679.6
50°	6137.2	4065.4	1134.8	830.5	842.7	811.9	790.2	772.4	723.1	672.3	666.7
52.5°	6649.7	4397.0	1178.3	787.7	798.2	764.3	785.4	770.0	715.9	647.3	642.5
55°	7153.3	4731.2	1220.4	737.7	753.1	721.5	771.6	760.2	682.8	605.4	601.3
57.5°	7664.9	5063.7	1261.5	693.3	709.4	680.4	749.8	734.4	645.6	566.6	565.0
60°	8196.8	5386.6	1280.8	650.6	661.8	642.5	716.7	690.0	603.7	527.1	524.6
62.5°	8694.9	5655.3	1249.4	607.7	615.0	606.9	673.1	637.7	561.7	482.7	481.9
65°	9194.5	5815.1	1152.5	565.8	567.3	563.3	611.8	581.1	512.5	443.9	439.1
67.5°	9647.2	5904.7	998.4	520.6	516.5	515.0	554.5	519.8	464.8	405.2	400.4
70°	9743.2	5677.1	762.7	467.3	467.3	463.3	491.5	456.0	412.5	364.0	362.3
72.5°	8899.0	4775.6	541.6	406.8	413.3	405.2	428.6	398.7	359.2	326.9	317.2
75°	7175.9	3502.0	393.9	344.6	355.9	342.2	364.0	343.0	309.1	308.3	277.7
77.5°	4930.6	2165.4	285.7	284.1	292.1	274.4	299.4	288.1	257.5	243.7	228.4
80°	2104.1	863.6	208.3	219.6	219.6	203.4	232.5	235.6	209.0	202.5	202.5
82.5°	418.9	245.4	146.1	150.9	142.1	137.2	164.6	182.4	251.8	280.0	280.8
85°	125.9	90.4	87.9	82.3	72.7	73.5	96.9	183.2	226.0	129.1	111.4
87.5°	34.7	22.5	23.4	18.6	15.4	20.2	33.1	138.8	75.8	32.3	27.5
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)