

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: P964638

Luminaire Tested: **NAV-SB3C-750-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964638
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-750-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24383.7 lumens
Efficiency: N/A
Efficacy: 163.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 149.1
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



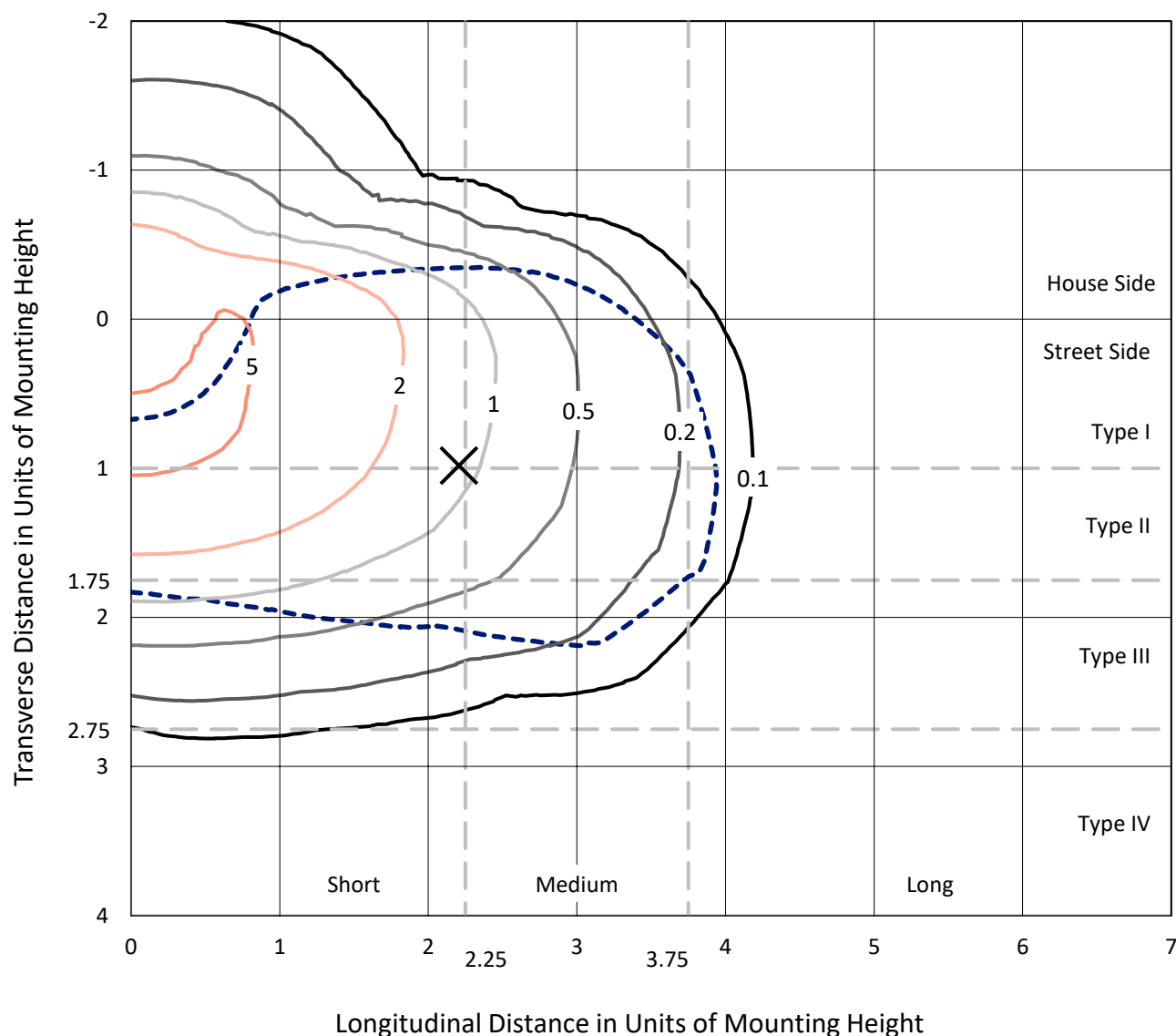
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

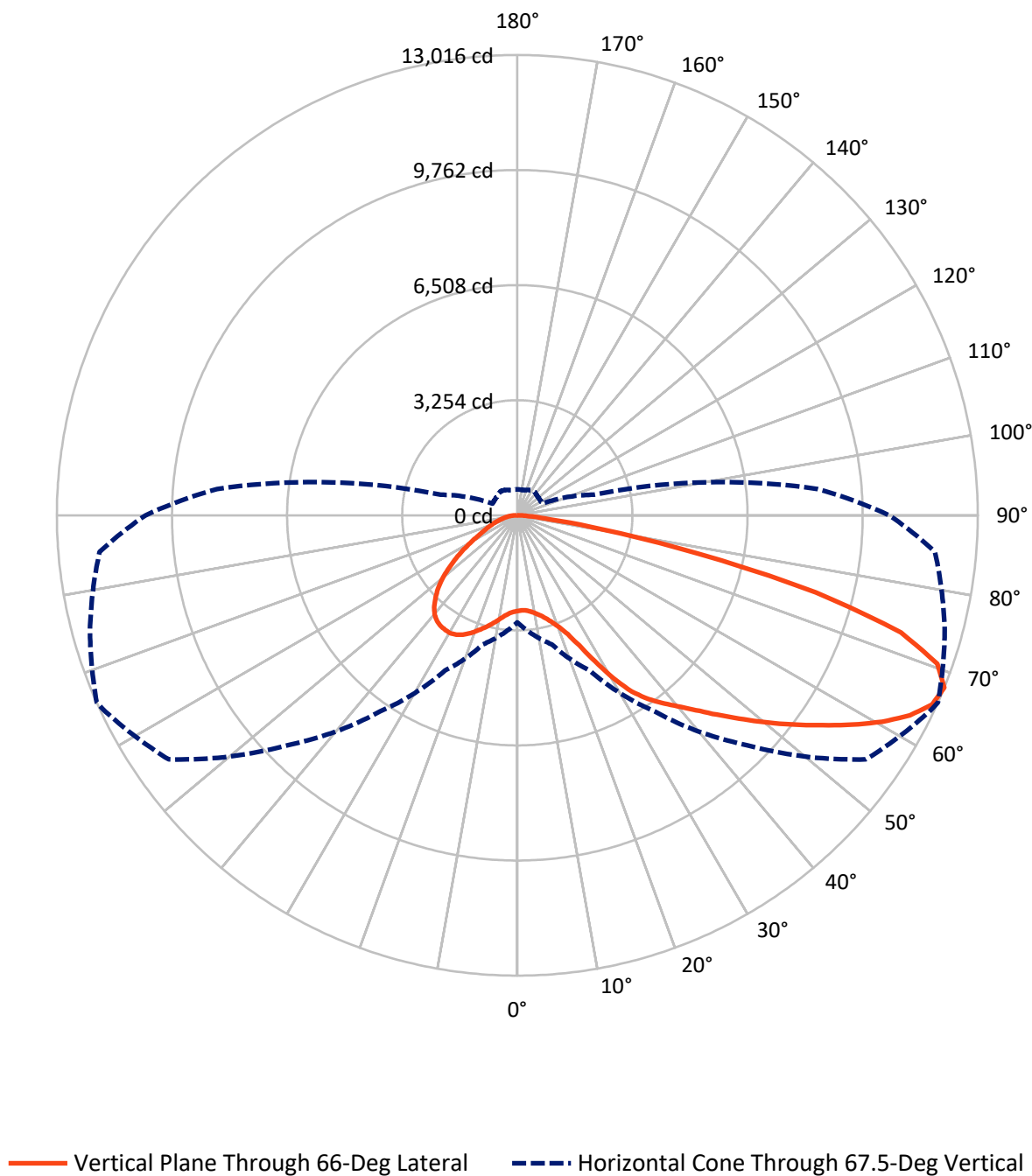


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6062.9	0.0	6062.9
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	18320.8	0.0	18320.8
	% Fixture	75.1	0.0	75.1
Total	Lumens	24383.7	0.0	24383.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.1	1.1
10°-20°	885.9	3.6
20°-30°	1707.5	7.0
30°-40°	2993.9	12.3
40°-50°	4450.9	18.3
50°-60°	5642.0	23.1
60°-70°	5520.6	22.6
70°-80°	2633.4	10.8
80°-90°	281.4	1.2
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°	24383.7	100.0
0°-180°	24383.7	100.0

Coefficient of Utilization



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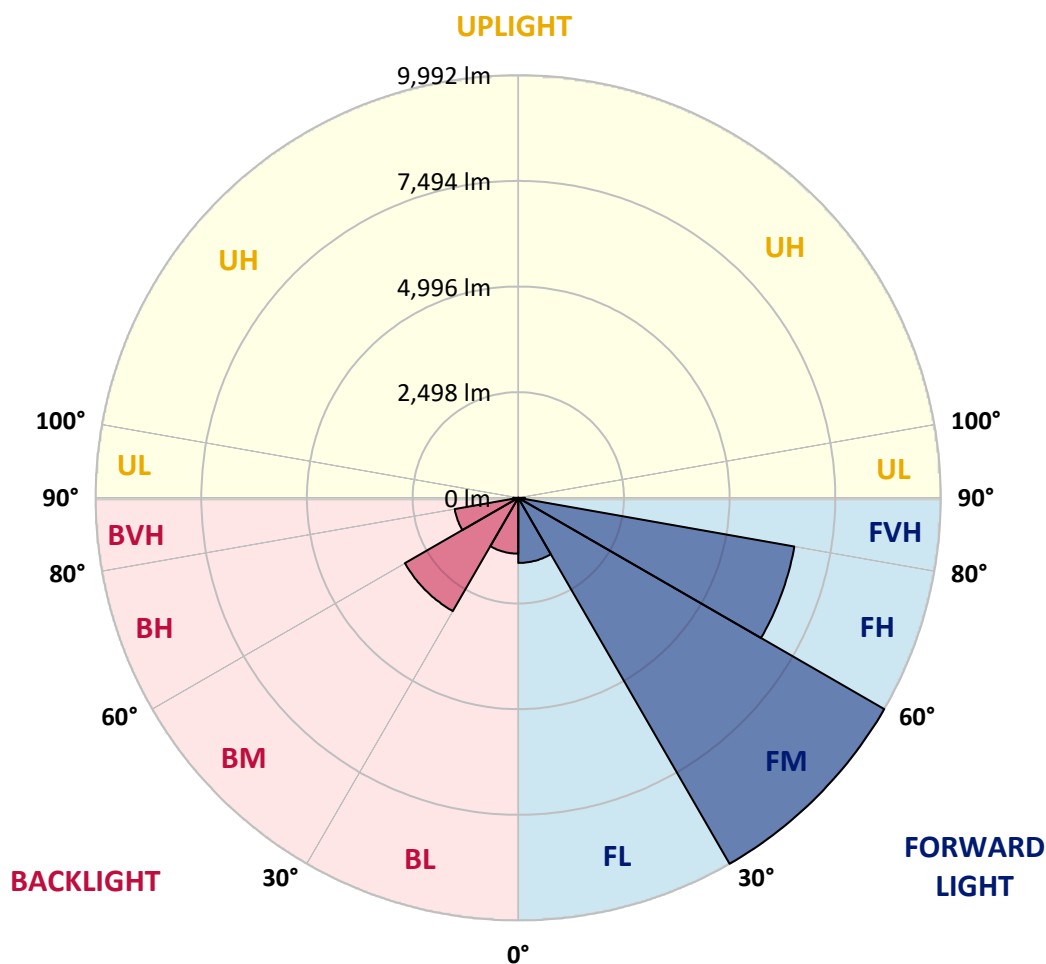
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1540.8	6.3			
FM	(30°-60°)	9992.2	41.0			
FH	(60°-80°)	6628.2	27.2			G3/7500
FVH	(80°-90°)	159.6	0.7			G2/225
BL	(0°-30°)	1320.7	5.4	B3/2500		
BM	(30°-60°)	3094.6	12.7	B3/5000		
BH	(60°-80°)	1525.7	6.3	B3/2500		G3/2500
BVH	(80°-90°)	121.9	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2704.5	2704.5	2704.5	2704.5	2704.5	2704.5	2704.5	2704.5	2704.5	2704.5	2704.5
2.5°	2676.3	2691.6	2687.9	2681.4	2680.2	2682.7	2686.5	2690.4	2689.1	2695.5	2705.8
5°	2668.6	2684.0	2682.7	2682.7	2687.9	2698.1	2704.5	2710.9	2704.5	2712.1	2726.3
7.5°	2673.7	2685.3	2690.4	2695.5	2708.4	2727.5	2742.9	2757.0	2749.4	2758.3	2776.2
10°	2739.1	2748.0	2753.1	2753.1	2762.2	2783.9	2799.3	2824.9	2818.5	2832.6	2855.6
12.5°	2858.2	2867.2	2867.2	2862.1	2868.5	2882.5	2887.6	2915.8	2904.3	2927.4	2950.5
15°	3004.3	3022.2	3008.1	2999.1	3001.7	3015.8	3014.5	3036.3	3024.8	3043.9	3064.4
17.5°	3165.7	3188.8	3165.7	3164.4	3159.3	3174.6	3176.0	3195.1	3174.6	3188.8	3202.8
20°	3356.6	3388.6	3369.4	3375.8	3364.3	3370.7	3377.1	3405.3	3373.3	3383.5	3379.6
22.5°	3625.6	3664.1	3643.6	3667.9	3660.2	3655.0	3653.8	3703.7	3653.8	3657.6	3620.5
25°	4017.7	4063.7	4027.8	4061.2	4061.2	4077.9	4097.0	4161.1	4077.9	4053.5	3957.4
27.5°	4596.7	4642.8	4572.4	4592.9	4586.5	4627.5	4607.0	4765.8	4676.2	4636.4	4443.0
30°	5293.6	5375.6	5242.4	5237.2	5230.9	5296.2	5325.7	5430.8	5339.7	5300.1	5066.9
32.5°	6047.0	6132.8	5973.9	5927.8	5903.5	5943.2	5918.9	6003.4	5940.6	5879.1	5590.9
35°	6843.8	6928.4	6777.2	6687.5	6590.1	6506.9	6419.8	6441.5	6382.6	6289.1	5990.6
37.5°	7597.1	7752.2	7592.0	7495.9	7316.6	7153.9	6910.4	6809.3	6754.1	6668.3	6367.2
40°	8364.5	8453.0	8331.2	8249.2	8054.4	7799.5	7410.1	7196.1	7121.8	7038.6	6783.7
42.5°	8929.5	9014.1	8948.8	8892.4	8739.9	8443.9	7940.5	7672.7	7565.1	7471.5	7255.1
45°	9377.9	9440.7	9399.7	9420.2	9354.9	9067.9	8490.1	8183.9	8072.4	7958.4	7788.1
47.5°	9558.5	9625.2	9690.6	9812.2	9923.6	9712.3	9080.7	8737.3	8619.4	8502.9	8335.1
50°	9538.0	9606.0	9795.5	10054.3	10400.3	10329.8	9703.4	9326.7	9217.7	9084.6	8929.5
52.5°	9374.0	9450.9	9694.3	10124.8	10675.7	10792.3	10337.4	9935.2	9832.7	9673.8	9518.9
55°	8943.6	8989.8	9354.9	9964.6	10741.1	11115.1	10958.8	10583.4	10480.9	10259.3	10090.2
57.5°	8145.5	8212.1	8743.8	9532.9	10577.1	11334.2	11504.6	11265.1	11166.3	10847.4	10670.6
60°	7103.9	7210.3	7818.8	8807.8	10159.4	11332.9	12000.4	11935.1	11853.1	11426.5	11242.0
62.5°	5925.2	6048.2	6633.7	7782.9	9429.2	11011.4	12310.5	12496.2	12454.0	11960.7	11725.0
65°	4550.6	4635.2	5218.1	6456.9	8292.8	10320.8	12346.3	12879.2	12886.9	12366.8	11977.3
67.5°	3029.9	3273.3	3779.4	4845.3	6770.8	9192.1	12031.1	12942.1	13016.4	12506.4	11850.5
70°	1478.5	1798.7	2294.6	3149.0	4845.3	7461.4	11207.3	12427.0	12592.3	12099.0	11094.6
72.5°	613.7	717.4	987.8	1554.0	2781.3	5034.9	9552.2	11030.5	11336.8	10720.6	9327.9
75°	413.8	448.4	565.0	796.8	1267.0	2482.9	6888.7	8224.9	8718.1	8096.8	6618.3
77.5°	319.0	340.8	411.2	557.3	753.3	939.1	3687.1	4956.7	5211.6	4824.8	3443.7
80°	251.1	267.7	307.5	406.1	534.2	502.2	1256.8	2245.9	2393.2	2007.6	1106.9
82.5°	217.8	224.2	220.4	275.4	354.9	293.4	412.6	828.9	914.7	663.6	361.3
85°	157.5	175.5	183.2	170.4	188.3	148.6	169.1	293.4	322.9	288.2	203.7
87.5°	64.1	94.8	116.5	110.2	69.2	42.2	52.5	85.8	98.6	107.6	66.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2704.5	2704.5	2704.5	2704.5	2704.5	2704.5	2704.5	2704.5	2704.5	2704.5	2704.5
2.5°	2707.0	2716.0	2722.4	2730.1	2735.2	2742.9	2758.3	2767.3	2768.5	2775.0	2773.6
5°	2731.4	2744.2	2758.3	2778.8	2801.8	2821.1	2850.5	2871.0	2878.7	2885.1	2883.8
7.5°	2783.9	2801.8	2827.5	2863.3	2896.6	2922.3	2958.1	2982.4	3006.8	3015.8	3017.1
10°	2862.1	2887.6	2924.8	2973.5	3009.4	3042.7	3079.8	3100.3	3124.7	3135.0	3140.1
12.5°	2959.4	2986.3	3035.0	3102.9	3136.2	3159.3	3172.1	3166.9	3172.1	3181.1	3183.6
15°	3070.9	3100.3	3155.5	3228.4	3251.5	3231.0	3202.8	3177.2	3173.4	3176.0	3184.9
17.5°	3202.8	3224.6	3288.7	3350.2	3333.5	3248.9	3187.4	3146.4	3125.9	3119.6	3128.5
20°	3387.3	3387.3	3439.9	3478.2	3366.8	3223.3	3127.3	3060.6	3018.3	3000.4	2996.6
22.5°	3611.5	3591.0	3624.3	3597.4	3360.5	3151.6	3018.3	2903.0	2839.0	2813.4	2809.5
25°	3895.9	3871.6	3862.6	3696.0	3314.3	3037.6	2821.1	2681.4	2625.0	2611.0	2613.5
27.5°	4325.1	4263.6	4147.0	3749.9	3229.8	2858.2	2590.5	2461.0	2429.0	2430.3	2434.2
30°	4896.5	4773.5	4487.9	3758.9	3091.4	2604.5	2354.7	2262.5	2247.1	2253.6	2275.3
32.5°	5425.6	5309.0	4836.3	3717.9	2878.7	2356.0	2143.4	2081.9	2058.8	2066.5	2076.8
35°	5840.7	5808.7	5159.1	3660.2	2617.3	2122.9	1953.8	1901.2	1856.4	1846.1	1853.8
37.5°	6232.7	6219.9	5401.2	3579.5	2358.5	1957.5	1801.2	1732.0	1666.8	1630.9	1632.2
40°	6663.2	6650.4	5560.1	3455.2	2129.2	1814.0	1664.2	1573.3	1492.5	1427.2	1433.6
42.5°	7147.4	7071.9	5635.8	3277.1	1934.5	1692.4	1552.8	1429.8	1323.4	1263.2	1267.0
45°	7676.5	7506.2	5634.4	3050.4	1770.5	1581.0	1433.6	1259.3	1160.7	1104.3	1101.8
47.5°	8237.7	7921.3	5565.2	2799.3	1611.7	1458.0	1249.1	1115.9	1050.5	1016.0	1008.3
50°	8816.7	8309.5	5447.4	2511.0	1448.9	1318.3	1133.9	1042.8	992.9	960.8	949.4
52.5°	9361.2	8661.8	5305.2	2184.4	1283.7	1182.4	1082.6	1012.1	959.6	923.7	908.4
55°	9867.3	8965.4	5104.1	1849.9	1149.1	1091.5	1058.2	999.3	939.1	896.8	880.2
57.5°	10317.0	9162.7	4756.8	1536.1	1053.1	1028.8	1032.6	977.5	908.4	872.5	849.4
60°	10691.1	9307.4	4243.1	1245.3	975.0	967.3	992.9	936.5	855.8	814.8	796.8
62.5°	10915.2	9304.8	3612.8	1019.8	908.4	910.9	940.3	885.3	803.3	764.9	753.3
65°	10896.1	9076.9	2920.9	872.5	844.3	846.9	885.3	828.9	759.7	736.7	735.3
67.5°	10510.5	8520.8	2240.8	776.3	773.8	785.4	830.1	790.5	732.8	730.2	734.1
70°	9466.3	7366.6	1614.3	699.5	700.8	717.4	776.3	766.1	718.7	723.9	722.5
72.5°	7590.7	5616.5	1083.8	618.8	620.0	647.0	725.1	746.9	704.6	772.5	782.8
75°	5055.4	3502.6	696.9	533.0	534.2	568.9	680.3	709.7	666.1	770.0	776.3
77.5°	2429.0	1574.5	504.8	448.4	448.4	480.4	588.0	635.4	567.5	598.3	548.4
80°	839.2	591.8	397.2	361.3	353.6	375.4	495.8	550.9	489.4	451.0	422.8
82.5°	330.6	307.5	319.0	280.5	254.9	269.1	385.6	454.8	360.0	325.4	324.1
85°	189.6	199.9	225.5	185.7	147.3	165.2	283.1	326.7	271.6	239.5	244.7
87.5°	51.2	70.4	103.7	96.0	66.6	70.4	134.5	180.6	156.3	120.4	124.2
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)