

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: P966591

Luminaire Tested: **NAV-SB4C-722-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966591
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-SB4C-722-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25431.3 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

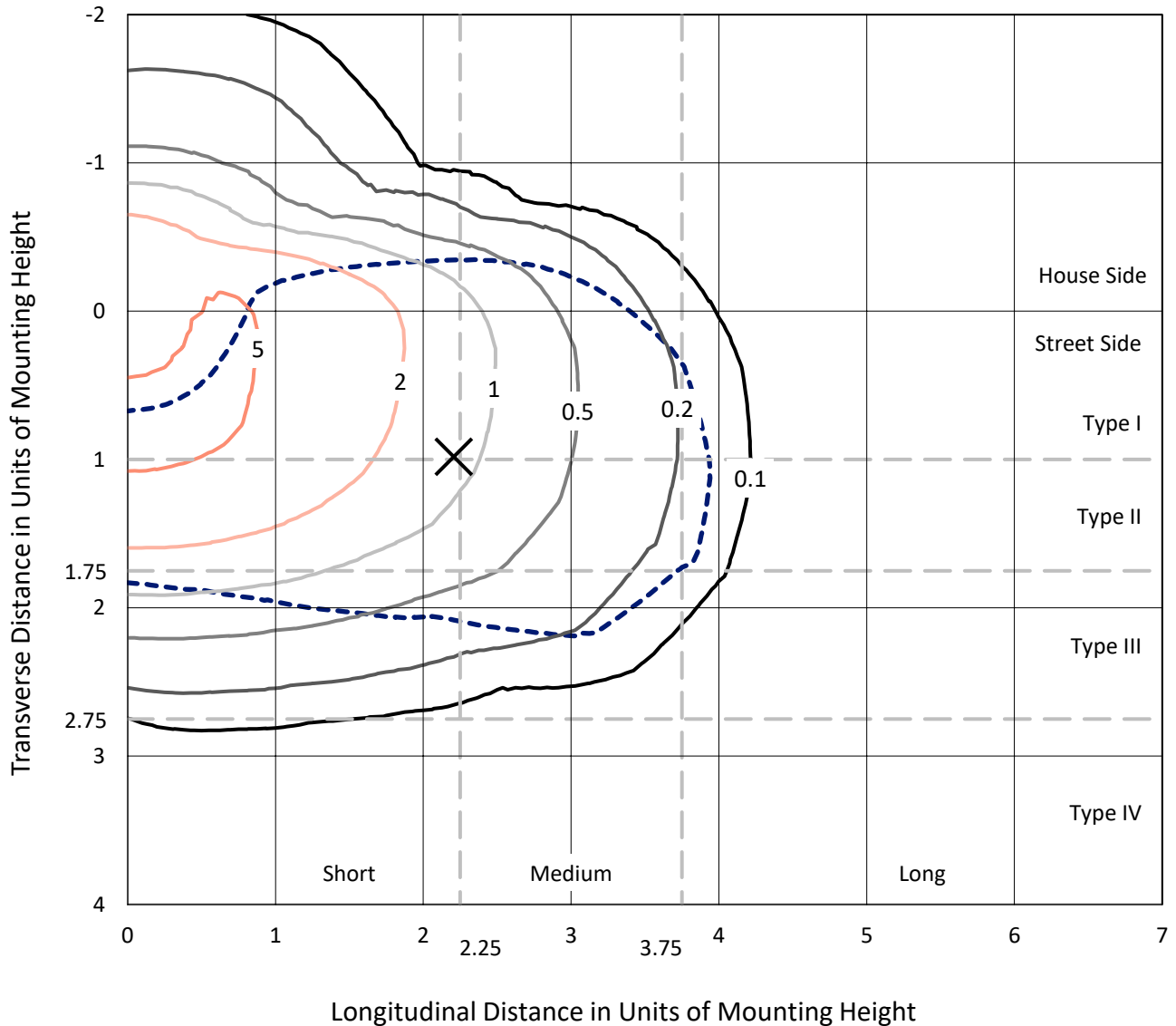
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

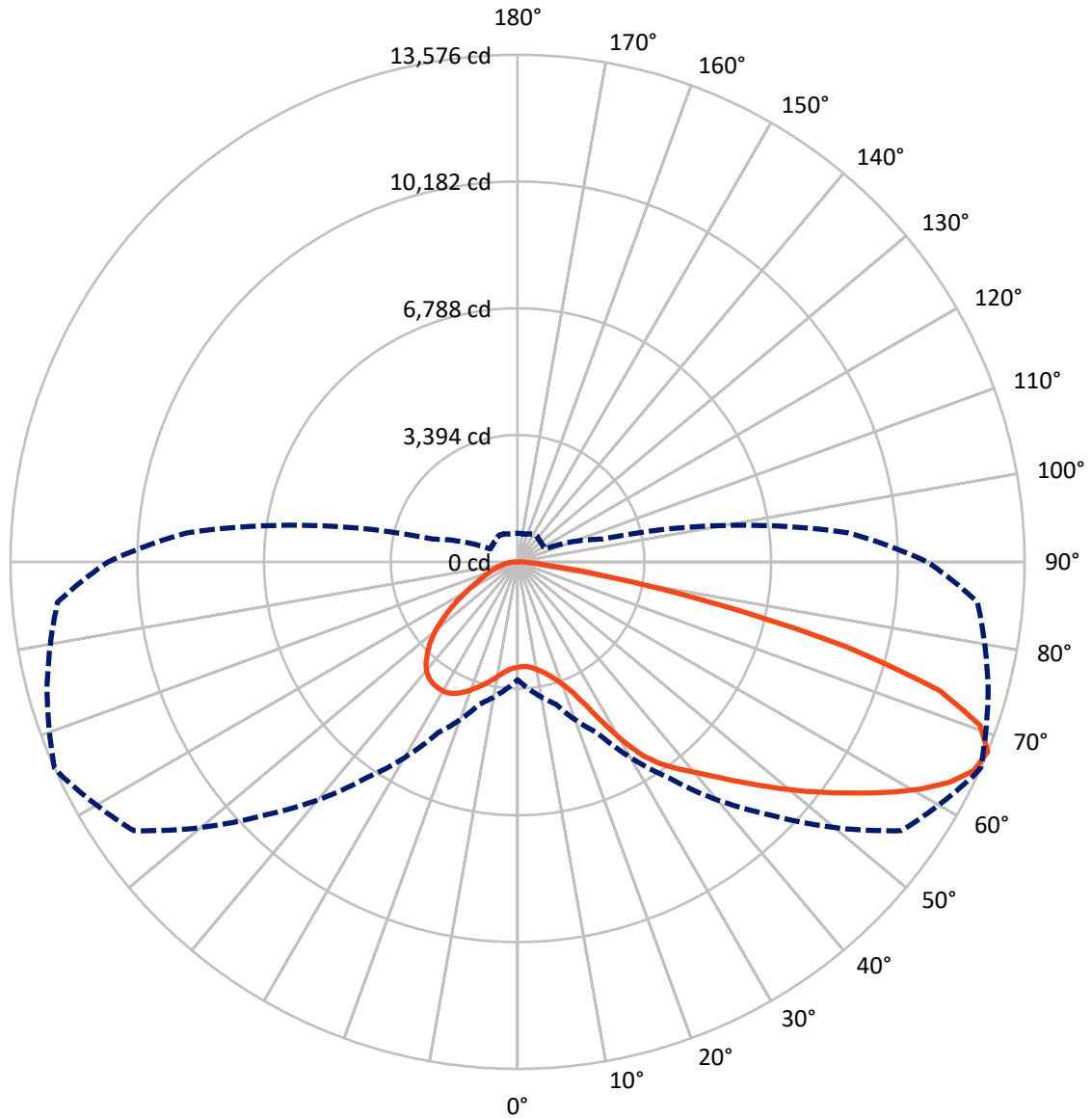
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6323.4	0.0	6323.4
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	19107.9	0.0	19107.9
	% Fixture	75.1	0.0	75.1
Total	Lumens	25431.3	0.0	25431.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.7	1.1
10°-20°	924.0	3.6
20°-30°	1780.9	7.0
30°-40°	3122.5	12.3
40°-50°	4642.2	18.3
50°-60°	5884.4	23.1
60°-70°	5757.7	22.6
70°-80°	2746.5	10.8
80°-90°	293.5	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°	25431.3	100.0
0°-180°	25431.3	100.0

Coefficient of Utilization



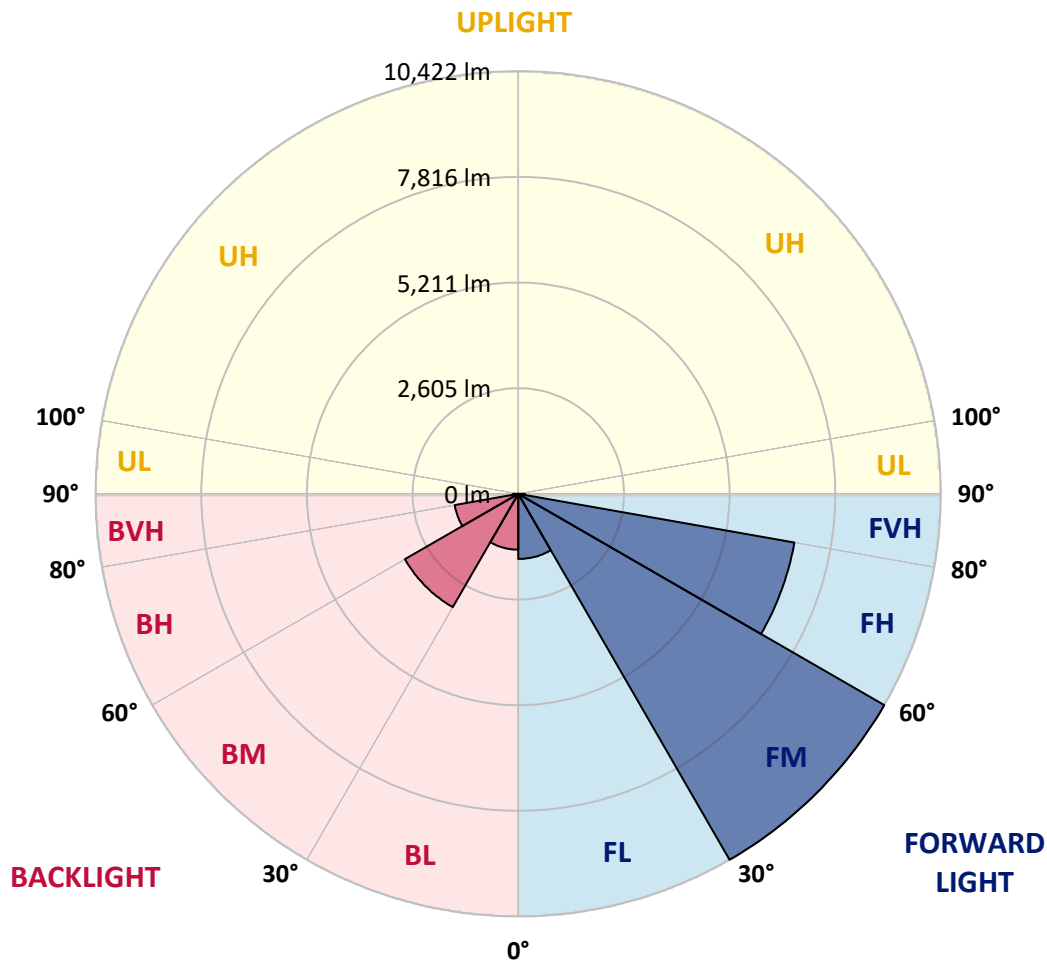
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1607.0	6.3			
FM (30°-60°)	10421.5	41.0			
FH (60°-80°)	6912.9	27.2			G3/7500
FVH (80°-90°)	166.4	0.7			G2/225
BL (0°-30°)	1377.5	5.4	B3/2500		
BM (30°-60°)	3227.5	12.7	B3/5000		
BH (60°-80°)	1591.3	6.3	B3/2500		G3/2500
BVH (80°-90°)	127.1	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°	2820.7	2820.7	2820.7	2820.7	2820.7	2820.7	2820.7	2820.7	2820.7	2820.7	2820.7
2.5°	2791.3	2807.3	2803.3	2796.6	2795.3	2797.9	2801.9	2805.9	2804.6	2811.3	2822.0
5°	2783.3	2799.3	2797.9	2797.9	2803.3	2813.9	2820.7	2827.4	2820.7	2828.7	2843.4
7.5°	2788.6	2800.6	2805.9	2811.3	2824.7	2844.7	2860.8	2875.4	2867.4	2876.8	2895.5
10°	2856.8	2866.1	2871.4	2871.4	2880.8	2903.5	2919.5	2946.3	2939.6	2954.3	2978.3
12.5°	2981.0	2990.3	2990.3	2985.0	2991.7	3006.4	3011.8	3041.2	3029.1	3053.2	3077.3
15°	3133.3	3152.1	3137.3	3128.0	3130.7	3145.3	3144.0	3166.7	3154.7	3174.7	3196.2
17.5°	3301.7	3325.7	3301.7	3300.4	3295.0	3311.1	3312.4	3332.4	3311.1	3325.7	3340.5
20°	3500.8	3534.2	3514.1	3520.8	3508.8	3515.4	3522.1	3551.5	3518.1	3528.9	3524.9
22.5°	3781.3	3821.5	3800.1	3825.5	3817.4	3812.1	3810.7	3862.9	3810.7	3814.7	3776.0
25°	4190.2	4238.4	4201.0	4235.7	4235.7	4253.0	4273.1	4339.8	4253.0	4227.6	4127.5
27.5°	4794.2	4842.3	4768.8	4790.2	4783.5	4826.2	4804.9	4970.5	4877.1	4835.6	4633.8
30°	5521.1	5606.5	5467.7	5462.3	5455.6	5523.7	5554.5	5664.0	5569.1	5527.7	5284.6
32.5°	6306.7	6396.3	6230.6	6182.5	6157.1	6198.5	6173.2	6261.3	6195.8	6131.8	5831.0
35°	7137.9	7226.0	7068.4	6974.8	6873.2	6786.4	6695.6	6718.3	6656.9	6559.3	6248.0
37.5°	7923.6	8085.2	7918.1	7818.0	7630.9	7461.2	7207.3	7101.8	7044.3	6954.8	6640.8
40°	8723.9	8816.1	8689.1	8603.6	8400.5	8134.6	7728.4	7505.3	7427.8	7340.9	7075.1
42.5°	9313.2	9401.3	9333.1	9274.4	9115.4	8806.7	8281.6	8002.4	7890.1	7792.6	7566.8
45°	9780.8	9846.3	9803.5	9824.9	9756.8	9457.5	8854.9	8535.5	8419.2	8300.3	8122.6
47.5°	9969.2	10038.6	10106.8	10233.8	10350.0	10129.6	9470.8	9112.7	8989.8	8868.2	8693.1
50°	9947.8	10018.7	10216.4	10486.3	10847.1	10773.6	10120.2	9727.4	9613.8	9474.8	9313.2
52.5°	9776.8	9856.9	10110.8	10559.8	11134.4	11255.9	10781.6	10362.0	10255.1	10089.5	9927.7
55°	9327.8	9376.0	9756.8	10392.8	11202.5	11592.6	11429.7	11038.1	10931.2	10700.1	10523.7
57.5°	8495.4	8564.9	9119.4	9942.5	11031.5	11821.1	11998.9	11749.0	11646.0	11313.4	11129.0
60°	7409.1	7520.0	8154.7	9186.2	10595.8	11819.8	12516.0	12447.8	12362.3	11917.4	11725.0
62.5°	6179.8	6308.1	6918.7	8117.3	9834.3	11484.4	12839.3	13033.1	12988.9	12474.6	12228.7
65°	4746.1	4834.3	5442.2	6734.4	8649.1	10764.2	12876.7	13432.5	13440.6	12898.1	12491.9
67.5°	3160.1	3414.0	3941.7	5053.5	7061.6	9587.0	12548.0	13498.0	13575.5	13043.7	12359.7
70°	1541.9	1876.0	2393.1	3284.3	5053.5	7781.9	11688.9	12960.9	13133.2	12618.9	11571.2
72.5°	640.0	748.2	1030.2	1620.7	2900.9	5251.2	9962.5	11504.5	11823.8	11181.1	9728.7
75°	431.6	467.7	589.3	831.1	1321.4	2589.5	7184.6	8578.2	9092.7	8444.7	6902.7
77.5°	332.7	355.5	429.0	581.3	785.7	979.4	3845.5	5169.7	5435.6	5032.0	3591.6
80°	261.9	279.2	320.7	423.5	557.2	523.8	1310.8	2342.3	2496.0	2093.8	1154.5
82.5°	227.1	233.8	229.8	287.3	370.1	306.0	430.3	864.5	954.1	692.2	376.8
85°	164.3	183.1	191.1	177.7	196.4	155.0	176.4	306.0	336.7	300.6	212.5
87.5°	66.8	98.9	121.6	114.9	72.2	44.1	54.7	89.5	102.9	112.2	69.5
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°	2820.7	2820.7	2820.7	2820.7	2820.7	2820.7	2820.7	2820.7	2820.7	2820.7	2820.7
2.5°	2823.4	2832.7	2839.4	2847.3	2852.8	2860.8	2876.8	2886.1	2887.4	2894.2	2892.9
5°	2848.7	2862.1	2876.8	2898.2	2922.2	2942.3	2973.0	2994.3	3002.4	3009.1	3007.8
7.5°	2903.5	2922.2	2948.9	2986.3	3021.1	3047.8	3085.2	3110.6	3136.0	3145.3	3146.6
10°	2985.0	3011.8	3050.5	3101.2	3138.7	3173.4	3212.1	3233.6	3258.9	3269.6	3275.0
12.5°	3086.6	3114.7	3165.4	3236.2	3271.0	3295.0	3308.4	3303.1	3308.4	3317.7	3320.4
15°	3202.8	3233.6	3291.0	3367.1	3391.2	3369.8	3340.5	3313.7	3309.7	3312.4	3321.7
17.5°	3340.5	3363.1	3430.0	3494.1	3476.7	3388.5	3324.4	3281.6	3260.2	3253.6	3263.0
20°	3532.9	3532.9	3587.6	3627.7	3511.4	3361.8	3261.7	3192.2	3148.0	3129.3	3125.3
22.5°	3766.7	3745.2	3780.0	3752.0	3504.8	3287.0	3148.0	3027.7	2960.9	2934.3	2930.3
25°	4063.3	4037.9	4028.6	3854.8	3456.7	3168.1	2942.3	2796.6	2737.8	2723.1	2725.8
27.5°	4510.9	4446.8	4325.2	3911.0	3368.5	2981.0	2701.7	2566.8	2533.4	2534.7	2538.7
30°	5106.9	4978.6	4680.7	3920.3	3224.2	2716.5	2455.9	2359.7	2343.7	2350.3	2373.1
32.5°	5658.7	5537.2	5044.0	3877.6	3002.4	2457.2	2235.4	2171.3	2147.3	2155.3	2165.9
35°	6091.6	6058.3	5380.7	3817.4	2729.8	2214.0	2037.7	1982.9	1936.1	1925.5	1933.5
37.5°	6500.4	6487.1	5633.3	3733.3	2459.9	2041.7	1878.6	1806.5	1738.4	1701.0	1702.3
40°	6949.4	6936.1	5799.0	3603.7	2220.8	1892.0	1735.7	1640.8	1556.7	1488.5	1495.2
42.5°	7454.5	7375.7	5877.9	3418.0	2017.6	1765.0	1619.4	1491.2	1380.3	1317.4	1321.4
45°	8006.4	7828.6	5876.5	3181.4	1846.6	1648.8	1495.2	1313.4	1210.5	1151.8	1149.1
47.5°	8591.7	8261.6	5804.4	2919.5	1680.9	1520.6	1302.8	1163.8	1095.6	1059.5	1051.5
50°	9195.6	8666.5	5681.4	2618.9	1511.3	1374.9	1182.5	1087.6	1035.6	1002.1	990.1
52.5°	9763.4	9033.8	5533.1	2278.2	1338.9	1233.3	1129.0	1055.5	1000.8	963.4	947.3
55°	10291.2	9350.6	5323.3	1929.5	1198.5	1138.5	1103.7	1042.2	979.4	935.3	918.0
57.5°	10760.2	9556.3	4961.2	1602.1	1098.3	1073.0	1077.0	1019.5	947.3	909.9	885.9
60°	11150.4	9707.3	4425.4	1298.8	1016.8	1008.8	1035.6	976.7	892.6	849.8	831.1
62.5°	11384.2	9704.6	3768.0	1063.6	947.3	950.0	980.7	923.3	837.7	797.7	785.7
65°	11364.2	9466.8	3046.5	909.9	880.6	883.2	923.3	864.5	792.3	768.3	767.0
67.5°	10962.0	8886.9	2337.0	809.7	807.1	819.1	865.8	824.4	764.3	761.6	765.7
70°	9873.0	7683.0	1683.6	729.6	730.9	748.2	809.7	799.0	749.6	754.9	753.6
72.5°	7916.8	5857.8	1130.4	645.3	646.7	674.8	756.2	779.0	734.9	805.8	816.4
75°	5272.5	3653.1	726.9	555.9	557.2	593.3	709.5	740.3	694.8	803.1	809.7
77.5°	2533.4	1642.2	526.4	467.7	467.7	501.0	613.3	662.8	591.9	624.0	571.8
80°	875.1	617.4	414.2	376.8	368.8	391.5	517.1	574.5	510.4	470.4	441.0
82.5°	344.7	320.7	332.7	292.6	265.9	280.6	402.2	474.4	375.5	339.4	338.0
85°	197.7	208.5	235.1	193.7	153.6	172.4	295.3	340.7	283.3	249.9	255.2
87.5°	53.4	73.5	108.2	100.2	69.5	73.5	140.3	188.4	163.0	125.6	129.6
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)