

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: P968174

Luminaire Tested: **NAV-SB5B-722-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968174
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5B-722-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23805.7 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

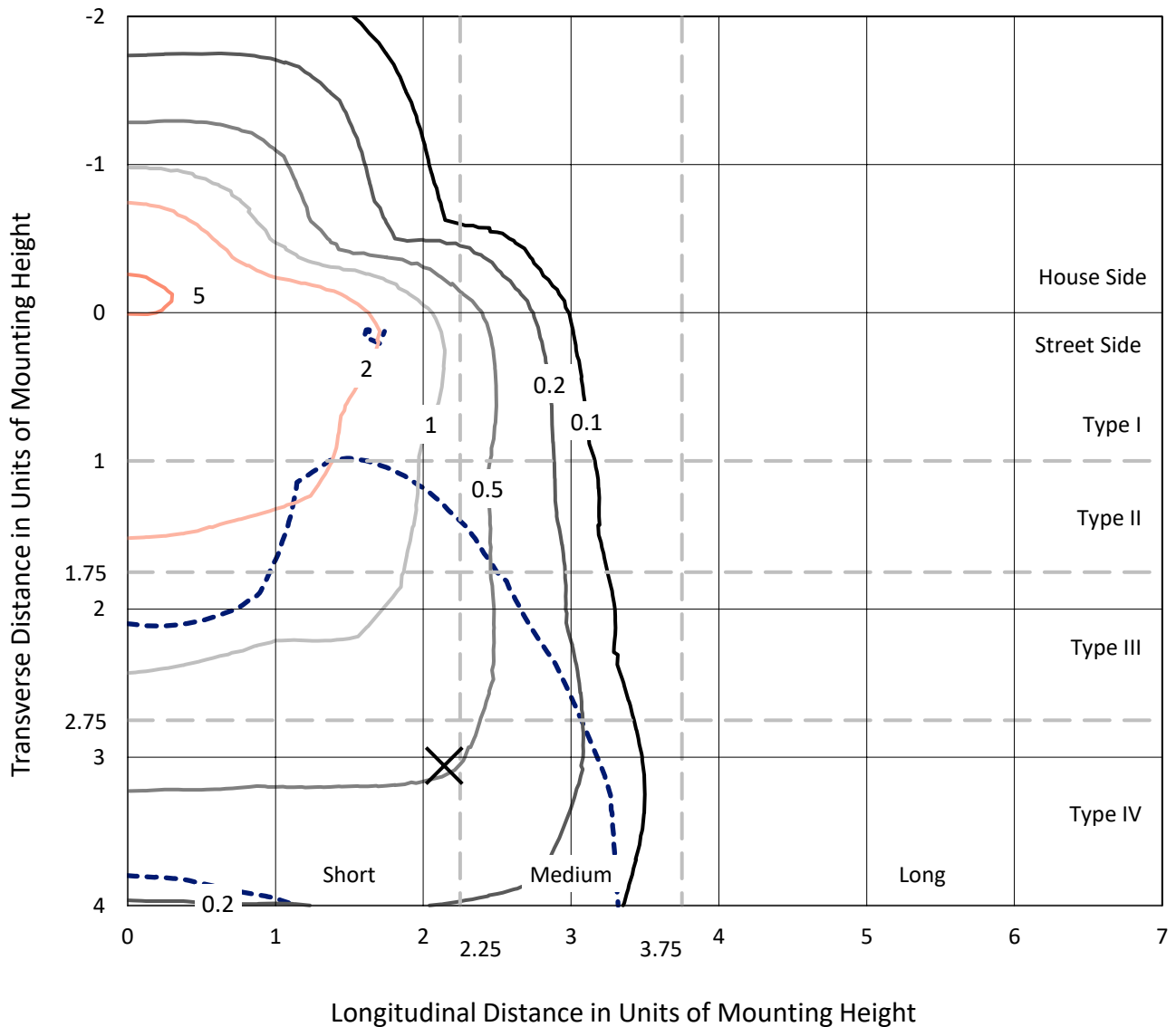
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

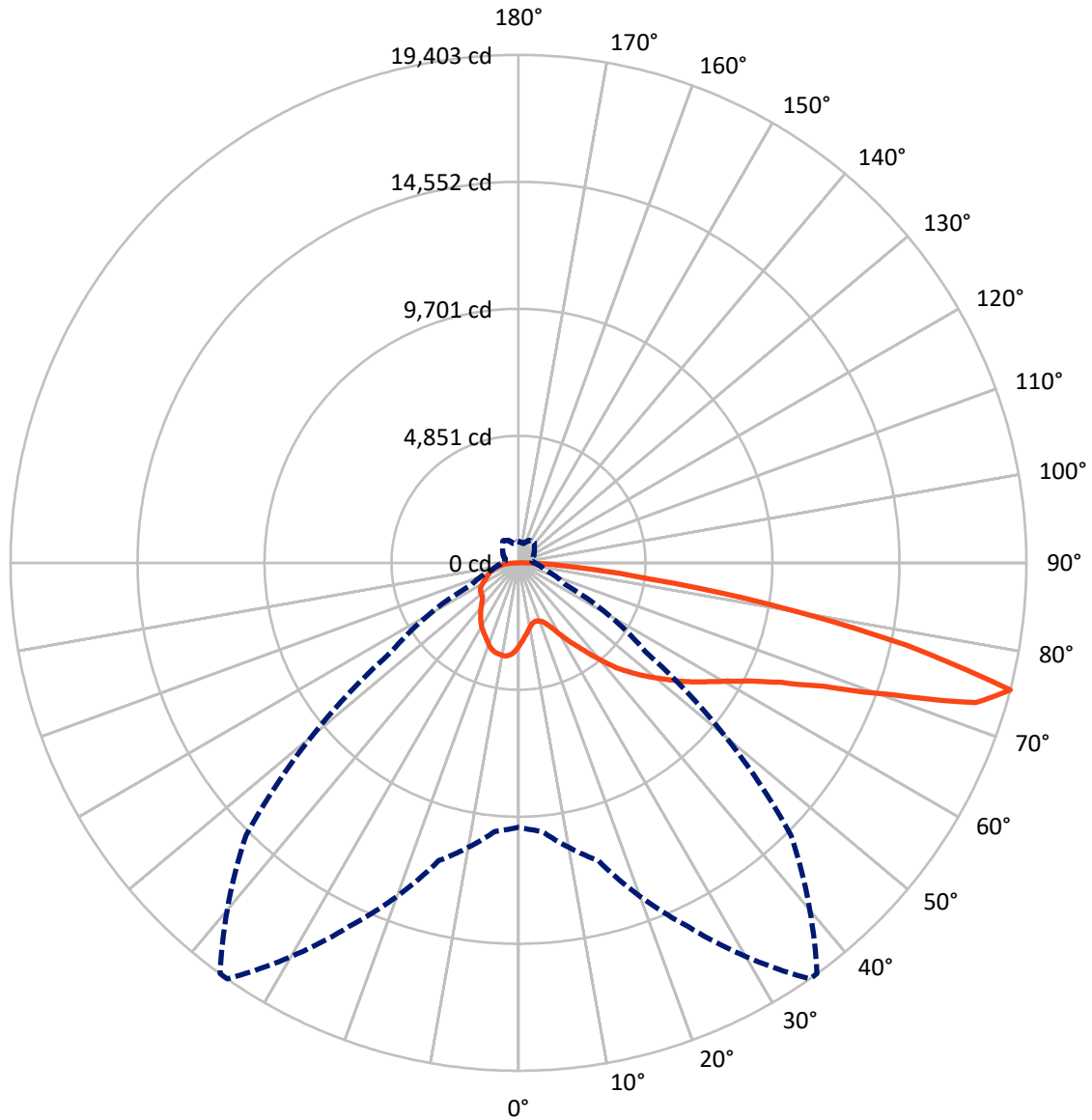
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5665.2	0.0	5665.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	18140.5	0.0	18140.5
	% Fixture	76.2	0.0	76.2
Total	Lumens	23805.7	0.0	23805.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.3	1.3
10°-20°	866.3	3.6
20°-30°	1454.8	6.1
30°-40°	2261.0	9.5
40°-50°	3355.9	14.1
50°-60°	4633.0	19.5
60°-70°	5620.9	23.6
70°-80°	4645.2	19.5
80°-90°	668.1	2.8
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°	23805.7	100.0
0°-180°	23805.7	100.0

Coefficient of Utilization



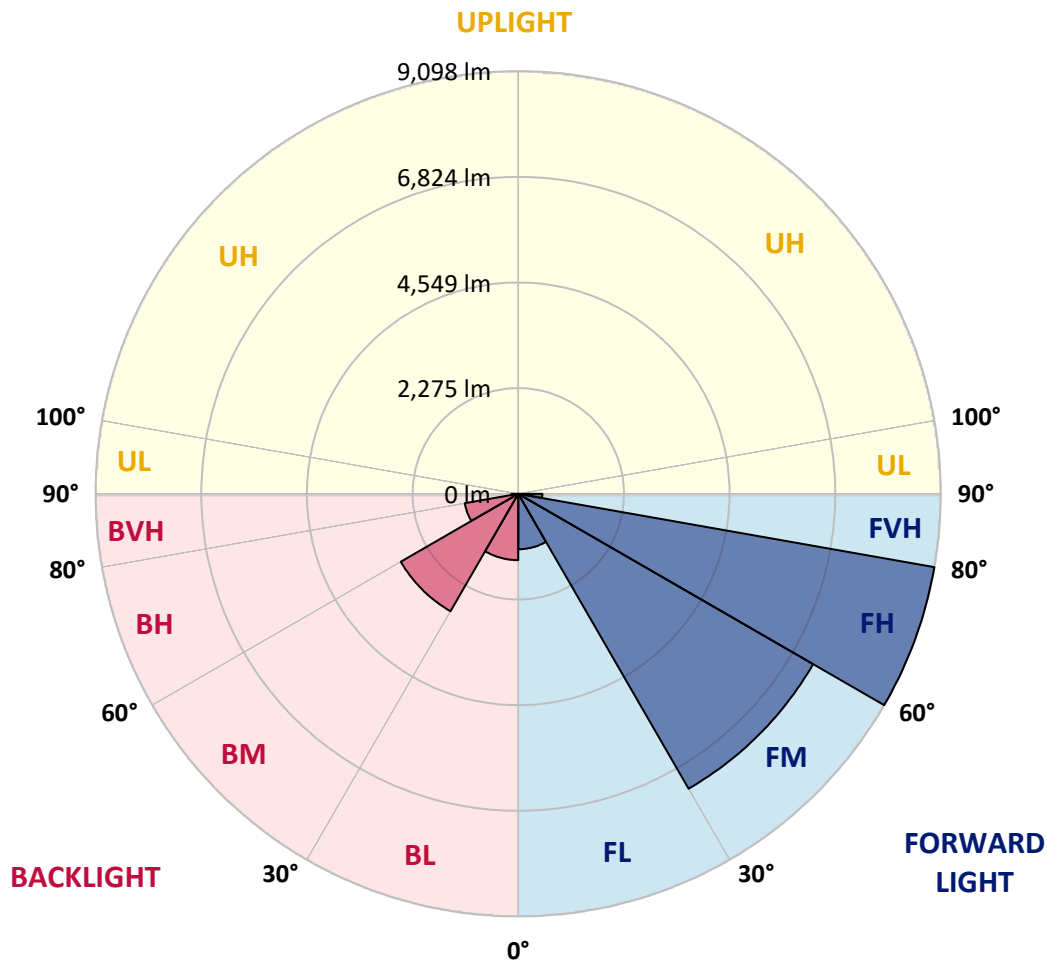
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1193.8	5.0			
FM (30°-60°)	7330.8	30.8			
FH (60°-80°)	9098.2	38.2			G4/12000
FVH (80°-90°)	517.7	2.2			G4/750
BL (0°-30°)	1427.7	6.0	B3/2500		
BM (30°-60°)	2919.0	12.3	B3/5000		
BH (60°-80°)	1168.0	4.9	B3/2500		G3/2500
BVH (80°-90°)	150.5	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3172.3	3172.3	3172.3	3172.3	3172.3	3172.3	3172.3	3172.3	3172.3	3172.3	3172.3
2.5°	2925.1	2943.2	2950.9	2947.1	2966.4	2963.8	2990.8	3024.3	3070.6	3115.6	3181.3
5°	2700.0	2719.2	2736.0	2751.4	2788.7	2800.3	2842.8	2907.1	2992.1	3078.3	3186.4
7.5°	2490.2	2506.9	2532.7	2561.0	2624.0	2635.6	2706.4	2806.8	2925.1	3051.3	3200.6
10°	2319.1	2335.8	2362.8	2394.9	2473.4	2487.6	2577.7	2711.5	2866.0	3025.6	3216.0
12.5°	2245.7	2250.8	2266.3	2298.5	2366.6	2375.6	2474.8	2627.9	2808.1	3006.2	3239.2
15°	2241.8	2252.1	2253.4	2270.2	2326.8	2330.6	2422.0	2573.9	2772.0	3002.4	3274.0
17.5°	2280.4	2288.1	2276.5	2286.9	2334.4	2340.9	2413.0	2548.1	2760.4	3019.1	3333.1
20°	2383.3	2389.8	2355.0	2340.9	2375.6	2380.8	2451.6	2564.9	2772.0	3053.9	3414.2
22.5°	2602.2	2606.1	2521.1	2463.2	2465.7	2468.3	2530.1	2633.0	2817.1	3116.9	3517.2
25°	2943.2	2940.6	2805.5	2693.5	2629.2	2615.0	2656.2	2743.7	2893.0	3200.6	3649.7
27.5°	3342.1	3322.8	3187.7	3020.4	2880.1	2859.5	2850.5	2887.8	3001.1	3311.3	3811.9
30°	3792.6	3774.6	3629.1	3410.4	3216.0	3182.5	3097.7	3078.3	3161.9	3461.8	4037.1
32.5°	4286.8	4275.2	4101.4	3836.3	3576.3	3537.8	3394.9	3343.4	3409.0	3689.6	4351.1
35°	4701.2	4690.8	4546.7	4273.8	3956.0	3908.4	3763.0	3705.1	3738.5	3981.7	4761.6
37.5°	5075.6	5070.5	4947.0	4732.0	4403.8	4345.9	4182.5	4163.1	4156.8	4366.5	5259.7
40°	5423.1	5410.3	5281.5	5168.3	4925.0	4872.2	4728.1	4711.4	4662.5	4840.2	5823.3
42.5°	5807.9	5774.4	5587.8	5535.0	5469.4	5425.6	5339.4	5342.0	5234.0	5374.2	6420.5
45°	6121.9	6102.5	5910.9	5879.9	5950.7	5932.7	6007.3	6026.7	5816.9	5934.0	7040.7
47.5°	6459.0	6441.0	6278.8	6257.0	6448.8	6453.9	6717.7	6724.2	6385.7	6515.7	7662.3
50°	6874.8	6848.9	6688.1	6715.2	6930.0	6949.4	7432.0	7388.2	6909.5	7106.4	8278.7
52.5°	7148.9	7164.3	7129.6	7173.3	7466.7	7484.8	8134.6	8022.7	7428.1	7689.3	8883.6
55°	7350.9	7381.7	7489.9	7590.2	8032.9	8051.0	8797.4	8626.2	7858.0	8229.8	9452.4
57.5°	7610.8	7567.1	7769.2	7964.8	8570.8	8618.5	9442.1	9207.9	8238.8	8695.7	9842.4
60°	7984.0	7953.2	8110.2	8399.8	9173.1	9249.1	10124.2	9731.7	8518.2	9065.1	9918.3
62.5°	8740.8	8663.5	8688.0	8944.2	9932.5	10032.8	10893.8	10188.6	8657.2	9209.2	9511.6
65°	9872.0	9739.4	9615.8	9793.5	11001.8	11101.0	11762.5	10547.6	8605.6	8929.9	8432.0
67.5°	11296.6	11165.3	11013.4	11180.8	12577.1	12655.6	12834.4	10749.7	8200.3	7854.1	6523.4
70°	12471.6	12422.7	12604.1	13292.6	15093.0	15095.6	14208.9	10582.3	7089.6	5568.5	3774.6
72.5°	12315.8	12286.3	13242.4	15371.0	18264.0	18195.8	15510.0	9316.0	4775.8	2512.1	1414.3
75°	10103.6	10295.4	11776.6	15333.7	19402.9	19393.9	14713.4	5922.4	1975.4	1041.1	730.9
77.5°	5417.9	5721.7	7645.6	11321.0	15147.0	15374.9	10344.3	2071.9	848.1	666.7	505.7
80°	1766.9	2032.1	3047.4	5764.1	9842.4	9799.9	4433.4	813.3	580.4	472.3	350.0
82.5°	750.3	781.2	1361.6	2721.9	5051.2	4972.7	1411.7	467.2	408.0	323.0	216.2
85°	293.5	328.2	601.0	1258.6	2187.8	2140.2	509.6	231.6	261.3	211.0	128.7
87.5°	96.6	117.2	214.9	431.1	680.8	656.3	124.8	79.7	113.3	96.6	46.3
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°	3172.3	3172.3	3172.3	3172.3	3172.3	3172.3	3172.3	3172.3	3172.3	3172.3	3172.3
2.5°	3199.3	3219.8	3244.3	3280.4	3311.3	3337.0	3364.0	3380.8	3387.2	3406.5	3405.2
5°	3222.5	3267.5	3328.0	3387.2	3445.1	3479.9	3510.7	3526.2	3540.4	3550.6	3553.2
7.5°	3261.0	3319.0	3414.2	3491.5	3540.4	3568.6	3589.2	3584.1	3589.2	3591.8	3595.7
10°	3294.6	3375.6	3488.8	3562.2	3599.5	3600.8	3595.7	3577.7	3568.6	3569.9	3572.5
12.5°	3334.4	3424.5	3546.7	3608.5	3618.9	3590.5	3568.6	3537.8	3526.2	3521.0	3518.4
15°	3388.4	3491.5	3609.8	3633.0	3607.3	3571.2	3533.9	3483.7	3457.9	3437.3	3443.8
17.5°	3454.1	3567.3	3658.7	3642.0	3586.7	3527.4	3467.0	3391.0	3338.3	3316.4	3317.7
20°	3545.5	3647.2	3696.0	3622.7	3539.0	3448.9	3346.0	3253.4	3204.5	3182.5	3180.0
22.5°	3656.2	3754.0	3732.0	3589.2	3470.9	3326.7	3198.0	3129.8	3105.3	3089.9	3092.4
25°	3788.7	3872.3	3757.9	3540.4	3358.8	3164.6	3065.5	3043.5	3032.0	3020.4	3020.4
27.5°	3961.1	4006.2	3777.1	3468.3	3183.9	2992.1	2956.1	2959.9	2956.1	2936.7	2940.6
30°	4189.0	4180.0	3795.2	3351.1	2983.1	2836.4	2838.9	2855.6	2858.2	2845.4	2851.9
32.5°	4488.8	4397.5	3804.2	3199.3	2791.4	2700.0	2702.5	2720.6	2733.5	2711.5	2721.9
35°	4851.7	4650.9	3789.9	3008.8	2643.4	2570.0	2550.7	2555.8	2559.7	2539.1	2553.3
37.5°	5275.1	4935.4	3726.9	2797.7	2521.1	2442.6	2401.4	2366.6	2346.0	2326.8	2339.7
40°	5739.7	5245.5	3611.1	2591.8	2384.7	2307.5	2245.7	2180.1	2110.6	2084.8	2096.4
42.5°	6226.2	5564.6	3470.9	2394.9	2227.6	2164.6	2099.0	2003.8	1899.5	1846.7	1853.2
45°	6730.6	5891.5	3333.1	2200.7	2066.8	2039.7	1963.8	1849.3	1736.0	1669.1	1664.0
47.5°	7224.8	6200.4	3131.1	2005.0	1916.2	1945.9	1886.6	1781.1	1655.0	1549.5	1537.9
50°	7697.0	6490.0	2800.3	1806.9	1794.0	1917.5	1860.9	1709.0	1564.9	1429.8	1418.2
52.5°	8165.6	6724.2	2377.0	1626.7	1728.4	1909.8	1827.5	1660.1	1483.8	1342.2	1326.9
55°	8563.2	6845.2	1969.0	1472.2	1633.1	1844.2	1787.5	1602.2	1369.3	1218.7	1205.8
57.5°	8789.7	6747.4	1629.2	1320.4	1501.8	1736.0	1719.3	1478.7	1232.9	1117.0	1101.6
60°	8691.9	6351.0	1351.3	1187.9	1377.0	1619.0	1600.9	1356.4	1128.6	1019.3	1003.8
62.5°	8152.6	5595.6	1131.2	1072.0	1263.7	1499.3	1482.6	1262.5	1048.9	943.3	926.6
65°	7066.5	4551.8	960.0	975.5	1149.2	1355.2	1379.5	1184.0	985.7	882.8	866.1
67.5°	5389.7	3297.1	826.3	891.9	1037.3	1213.6	1284.3	1127.3	933.1	835.2	819.8
70°	3071.9	1872.5	713.0	810.8	938.2	1082.3	1211.0	1082.3	876.4	795.3	785.0
72.5°	1164.7	859.7	616.4	729.7	843.0	971.6	1130.0	1011.5	810.8	750.3	739.9
75°	621.6	523.8	518.6	634.5	733.6	863.6	1028.3	942.1	761.9	792.7	818.5
77.5°	423.4	370.6	433.7	543.0	613.9	743.8	920.1	836.5	660.2	657.6	606.2
80°	293.5	262.5	352.6	437.6	474.9	625.5	803.1	718.1	537.9	501.9	480.0
82.5°	176.3	171.2	263.8	326.9	335.9	482.6	665.3	602.3	440.1	383.5	386.1
85°	96.6	101.7	168.6	191.8	195.6	337.1	521.2	465.9	338.5	284.4	287.0
87.5°	27.1	34.7	61.8	76.0	94.0	175.1	310.2	276.6	169.8	118.4	118.4
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)