

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: P884929

Luminaire Tested: **NAV-SB6A-722-U-T3**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P884929  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6A-722-U-T3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

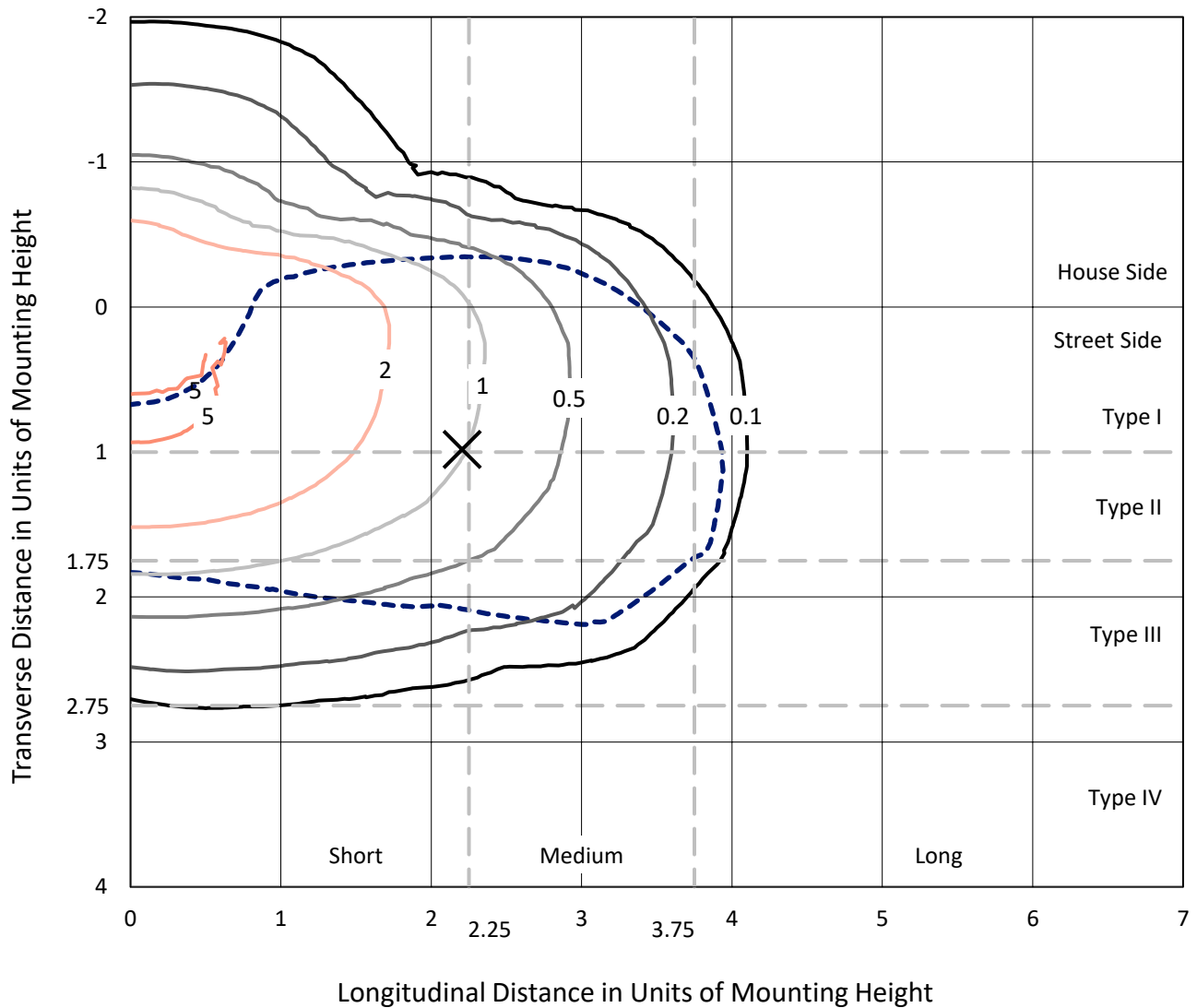
Lumens per Lamp: N/A  
Luminaire Lumens: 21711 lumens  
Efficiency: N/A  
Efficacy: 127.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 170.9  
Input Voltage (V): 120.0  
Input Current (Ain): 1.434  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 11.969  
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

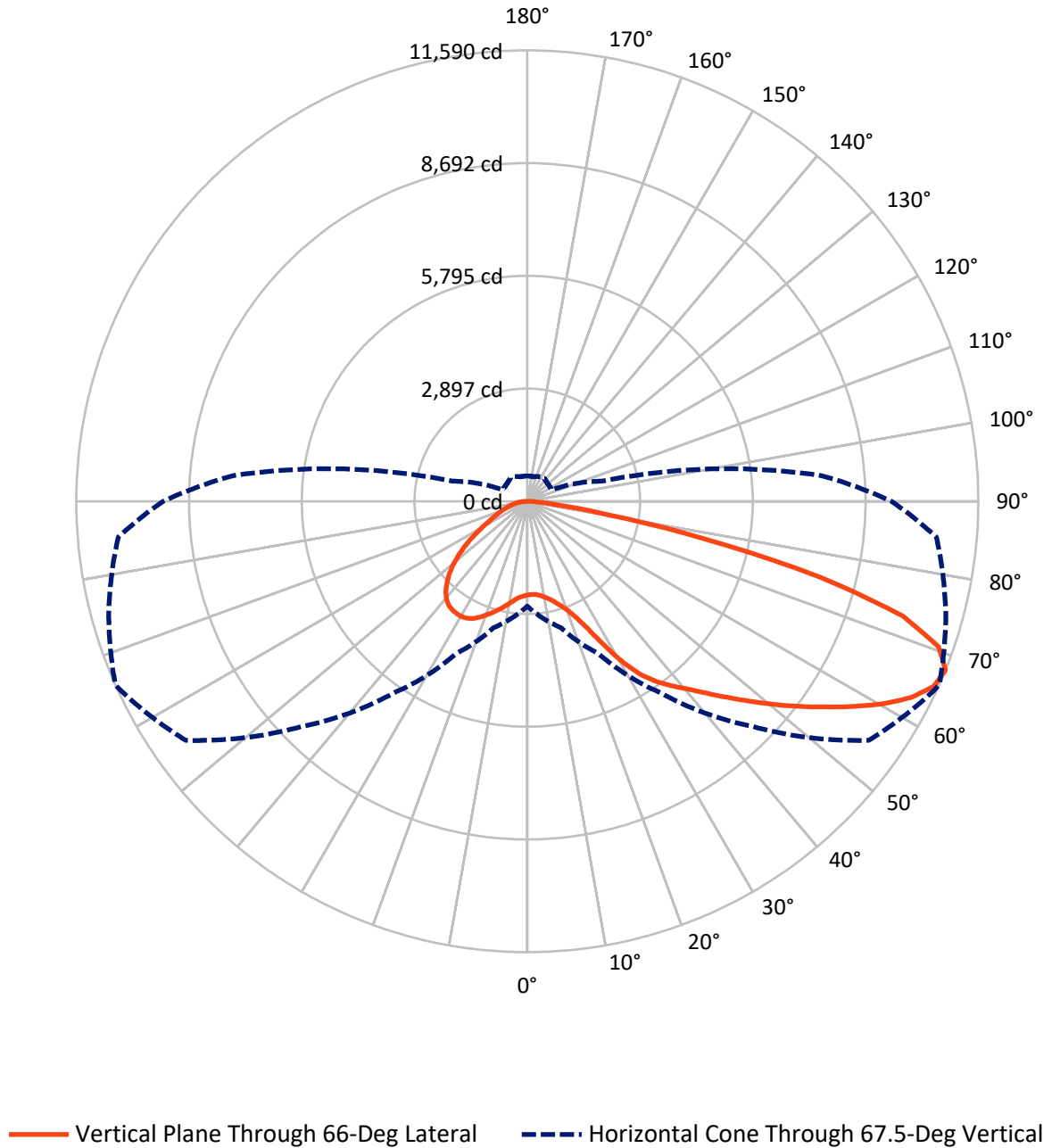
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5398.4	0.0	5398.4
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	16312.6	0.0	16312.6
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	21711.0	0.0	21711.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.7	1.1
10°-20°	788.8	3.6
20°-30°	1520.3	7.0
30°-40°	2665.7	12.3
40°-50°	3963.1	18.3
50°-60°	5023.6	23.1
60°-70°	4915.4	22.6
70°-80°	2344.7	10.8
80°-90°	250.6	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°	21711.0	100.0
0°-180°	21711.0	100.0

**Coefficient of Utilization**



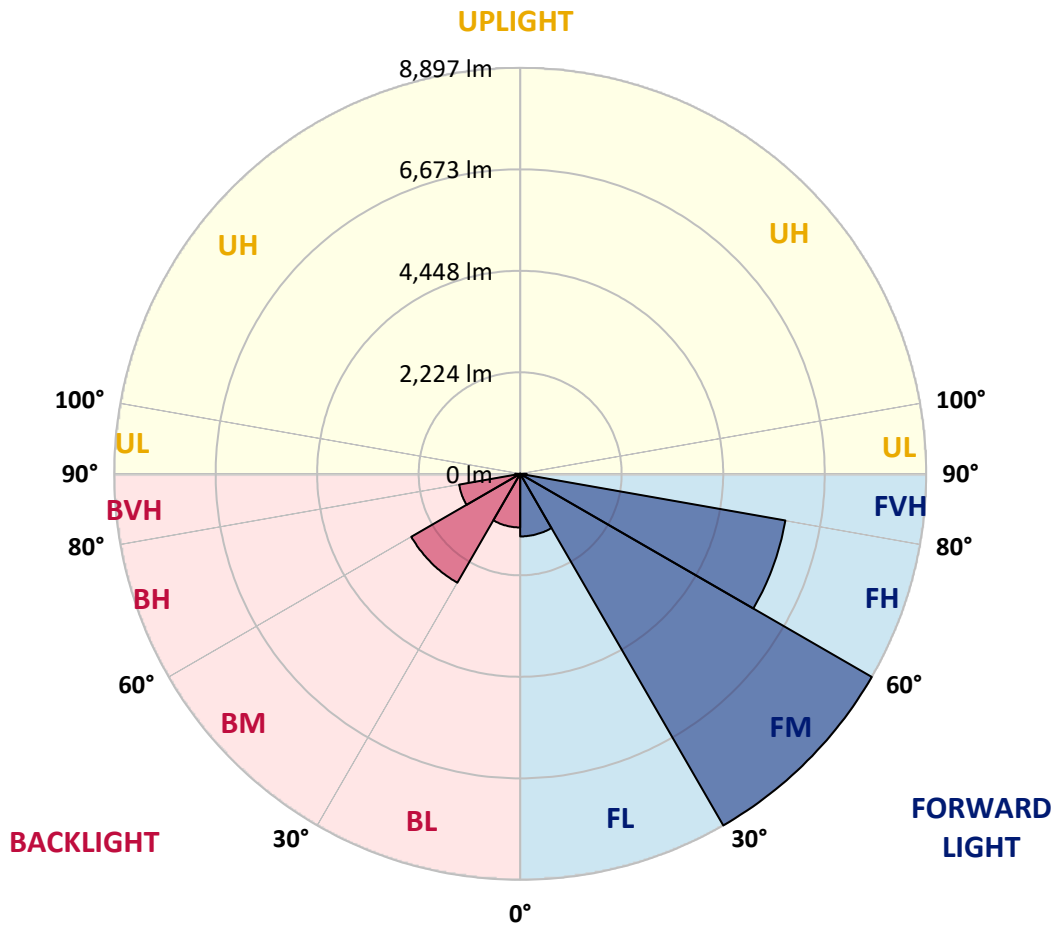
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1371.9	6.3			
FM (30°-60°)	8897.0	41.0			
FH (60°-80°)	5901.6	27.2			G3/7500
FVH (80°-90°)	142.1	0.7			G2/225
BL (0°-30°)	1176.0	5.4	B3/2500		
BM (30°-60°)	2755.4	12.7	B3/5000		
BH (60°-80°)	1358.5	6.3	B3/2500		G3/2500
BVH (80°-90°)	108.5	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°	2408.0	2408.0	2408.0	2408.0	2408.0	2408.0	2408.0	2408.0	2408.0	2408.0	2408.0
2.5°	2382.9	2396.6	2393.2	2387.5	2386.4	2388.6	2392.1	2395.5	2394.3	2400.1	2409.2
5°	2376.1	2389.8	2388.6	2388.6	2393.2	2402.3	2408.0	2413.7	2408.0	2414.9	2427.4
7.5°	2380.7	2390.9	2395.5	2400.1	2411.5	2428.6	2442.3	2454.8	2448.0	2455.9	2471.9
10°	2438.8	2446.8	2451.4	2451.4	2459.4	2478.8	2492.4	2515.3	2509.6	2522.1	2542.6
12.5°	2544.9	2552.9	2552.9	2548.3	2554.0	2566.6	2571.2	2596.3	2586.0	2606.5	2627.1
15°	2675.0	2690.9	2678.4	2670.4	2672.7	2685.2	2684.1	2703.5	2693.2	2710.3	2728.6
17.5°	2818.7	2839.2	2818.7	2817.6	2813.0	2826.7	2827.8	2844.9	2826.7	2839.2	2851.8
20°	2988.7	3017.2	3000.1	3005.8	2995.5	3001.2	3006.9	3032.0	3003.5	3012.6	3009.2
22.5°	3228.2	3262.4	3244.2	3265.9	3259.0	3254.4	3253.3	3297.8	3253.3	3256.7	3223.6
25°	3577.3	3618.3	3586.4	3616.0	3616.0	3630.9	3648.0	3705.0	3630.9	3609.2	3523.7
27.5°	4092.9	4133.9	4071.2	4089.4	4083.7	4120.2	4102.0	4243.4	4163.6	4128.2	3956.0
30°	4713.4	4786.4	4667.8	4663.2	4657.5	4715.7	4741.9	4835.5	4754.5	4719.1	4511.5
32.5°	5384.1	5460.6	5319.1	5278.1	5256.4	5291.7	5270.1	5345.4	5289.5	5234.7	4978.1
35°	6093.7	6169.0	6034.4	5954.5	5867.8	5793.7	5716.1	5735.5	5683.0	5599.7	5334.0
37.5°	6764.4	6902.4	6759.8	6674.3	6514.6	6369.7	6153.0	6062.9	6013.8	5937.4	5669.3
40°	7447.7	7526.4	7418.0	7345.0	7171.6	6944.6	6597.9	6407.4	6341.2	6267.1	6040.1
42.5°	7950.7	8026.0	7967.9	7917.7	7781.9	7518.4	7070.1	6831.7	6735.9	6652.6	6459.8
45°	8350.0	8405.9	8369.4	8387.6	8329.5	8073.9	7559.5	7286.8	7187.6	7086.1	6934.4
47.5°	8510.8	8570.1	8628.3	8736.7	8835.9	8647.7	8085.3	7779.6	7674.7	7570.9	7421.5
50°	8492.6	8553.0	8721.9	8952.3	9260.3	9197.5	8639.7	8304.4	8207.4	8088.8	7950.7
52.5°	8346.6	8415.0	8631.7	9015.0	9505.5	9609.3	9204.4	8846.2	8754.9	8613.5	8475.5
55°	7963.3	8004.4	8329.5	8872.4	9563.7	9896.8	9757.6	9423.4	9332.1	9134.8	8984.2
57.5°	7252.6	7311.9	7785.3	8488.0	9417.7	10091.9	10243.6	10030.3	9942.4	9658.4	9501.0
60°	6325.2	6419.9	6961.7	7842.4	9045.8	10090.7	10685.0	10626.8	10553.8	10174.0	10009.7
62.5°	5275.8	5385.3	5906.6	6929.8	8395.6	9804.4	10961.1	11126.5	11088.8	10649.7	10439.8
65°	4051.8	4127.1	4646.1	5749.2	7383.8	9189.6	10993.0	11467.5	11474.4	11011.3	10664.5
67.5°	2697.8	2914.5	3365.1	4314.2	6028.6	8184.6	10712.4	11523.4	11589.6	11135.6	10551.6
70°	1316.4	1601.6	2043.0	2803.9	4314.2	6643.5	9978.9	11064.9	11212.0	10772.9	9878.5
72.5°	546.4	638.8	879.5	1383.7	2476.5	4483.0	8505.1	9821.5	10094.1	9545.5	8305.5
75°	368.4	399.2	503.1	709.5	1128.2	2210.7	6133.6	7323.4	7762.5	7209.3	5892.9
77.5°	284.0	303.4	366.2	496.2	670.7	836.1	3283.0	4413.4	4640.4	4295.9	3066.2
80°	223.6	238.4	273.8	361.6	475.7	447.2	1119.0	1999.7	2130.8	1787.5	985.6
82.5°	193.9	199.6	196.2	245.3	316.0	261.2	367.3	738.0	814.5	590.9	321.7
85°	140.3	156.3	163.1	151.7	167.7	132.3	150.6	261.2	287.5	256.7	181.4
87.5°	57.0	84.4	103.8	98.1	61.6	37.6	46.8	76.4	87.8	95.8	59.3
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°	2408.0	2408.0	2408.0	2408.0	2408.0	2408.0	2408.0	2408.0	2408.0	2408.0	2408.0
2.5°	2410.3	2418.3	2424.0	2430.9	2435.4	2442.3	2455.9	2463.9	2465.1	2470.8	2469.6
5°	2432.0	2443.4	2455.9	2474.2	2494.7	2511.8	2538.1	2556.3	2563.2	2568.9	2567.7
7.5°	2478.8	2494.7	2517.5	2549.5	2579.1	2602.0	2633.9	2655.6	2677.2	2685.2	2686.4
10°	2548.3	2571.2	2604.2	2647.6	2679.5	2709.2	2742.3	2760.5	2782.2	2791.3	2795.9
12.5°	2635.0	2659.0	2702.3	2762.8	2792.5	2813.0	2824.4	2819.8	2824.4	2832.4	2834.7
15°	2734.3	2760.5	2809.6	2874.6	2895.1	2876.9	2851.8	2829.0	2825.5	2827.8	2835.8
17.5°	2851.8	2871.2	2928.2	2983.0	2968.1	2892.8	2838.1	2801.6	2783.3	2777.6	2785.6
20°	3016.0	3016.0	3062.8	3097.0	2997.8	2870.0	2784.5	2725.2	2687.5	2671.5	2668.1
22.5°	3215.7	3197.4	3227.1	3203.1	2992.1	2806.1	2687.5	2584.8	2527.8	2505.0	2501.6
25°	3468.9	3447.2	3439.2	3290.9	2951.0	2704.6	2511.8	2387.5	2337.3	2324.8	2327.0
27.5°	3851.0	3796.3	3692.5	3338.9	2875.7	2544.9	2306.5	2191.3	2162.8	2163.9	2167.3
30°	4359.8	4250.3	3995.9	3346.8	2752.5	2319.1	2096.6	2014.5	2000.8	2006.5	2025.9
32.5°	4830.9	4727.1	4306.2	3310.3	2563.2	2097.8	1908.4	1853.7	1833.1	1840.0	1849.1
35°	5200.5	5172.0	4593.6	3259.0	2330.5	1890.2	1739.6	1692.8	1652.9	1643.8	1650.6
37.5°	5549.5	5538.1	4809.2	3187.1	2100.0	1743.0	1603.8	1542.2	1484.1	1452.1	1453.3
40°	5932.8	5921.4	4950.7	3076.5	1895.9	1615.2	1481.8	1400.8	1328.9	1270.7	1276.5
42.5°	6364.0	6296.7	5018.0	2917.9	1722.5	1506.9	1382.5	1273.0	1178.4	1124.7	1128.2
45°	6835.1	6683.4	5016.8	2716.0	1576.5	1407.6	1276.5	1121.3	1033.5	983.3	981.0
47.5°	7334.8	7053.0	4955.2	2492.4	1435.0	1298.1	1112.2	993.6	935.4	904.6	897.7
50°	7850.4	7398.6	4850.3	2235.8	1290.1	1173.8	1009.5	928.5	884.0	855.5	845.3
52.5°	8335.2	7712.3	4723.7	1944.9	1143.0	1052.9	963.9	901.2	854.4	822.5	808.8
55°	8785.7	7982.7	4544.6	1647.2	1023.2	971.9	942.2	889.8	836.1	798.5	783.7
57.5°	9186.1	8158.4	4235.5	1367.7	937.7	916.0	919.4	870.4	808.8	776.8	756.3
60°	9519.2	8287.3	3778.0	1108.8	868.1	861.2	884.0	833.9	762.0	725.5	709.5
62.5°	9718.8	8285.0	3216.8	908.0	808.8	811.0	837.3	788.2	715.2	681.0	670.7
65°	9701.7	8081.9	2600.8	776.8	751.7	754.0	788.2	738.0	676.4	655.9	654.8
67.5°	9358.4	7586.9	1995.1	691.3	689.0	699.3	739.2	703.8	652.5	650.2	653.6
70°	8428.7	6559.1	1437.3	622.8	624.0	638.8	691.3	682.1	639.9	644.5	643.4
72.5°	6758.7	5000.9	965.0	551.0	552.1	576.1	645.6	665.0	627.4	687.8	697.0
75°	4501.2	3118.7	620.5	474.5	475.7	506.5	605.7	632.0	593.2	685.6	691.3
77.5°	2162.8	1401.9	449.4	399.2	399.2	427.8	523.6	565.8	505.3	532.7	488.2
80°	747.2	527.0	353.6	321.7	314.8	334.2	441.5	490.5	435.8	401.5	376.4
82.5°	294.3	273.8	284.0	249.8	227.0	239.5	343.4	405.0	320.5	289.7	288.6
85°	168.8	178.0	200.8	165.4	131.2	147.2	252.1	290.9	241.8	213.3	217.9
87.5°	45.6	62.7	92.4	85.6	59.3	62.7	119.8	160.8	139.2	107.2	110.6
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)