

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: P885019

Luminaire Tested: **NAV-SB6A-835-U-T3**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885019  
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-835-U-T3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22988 lumens  
Efficiency: N/A  
Efficacy: 134.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

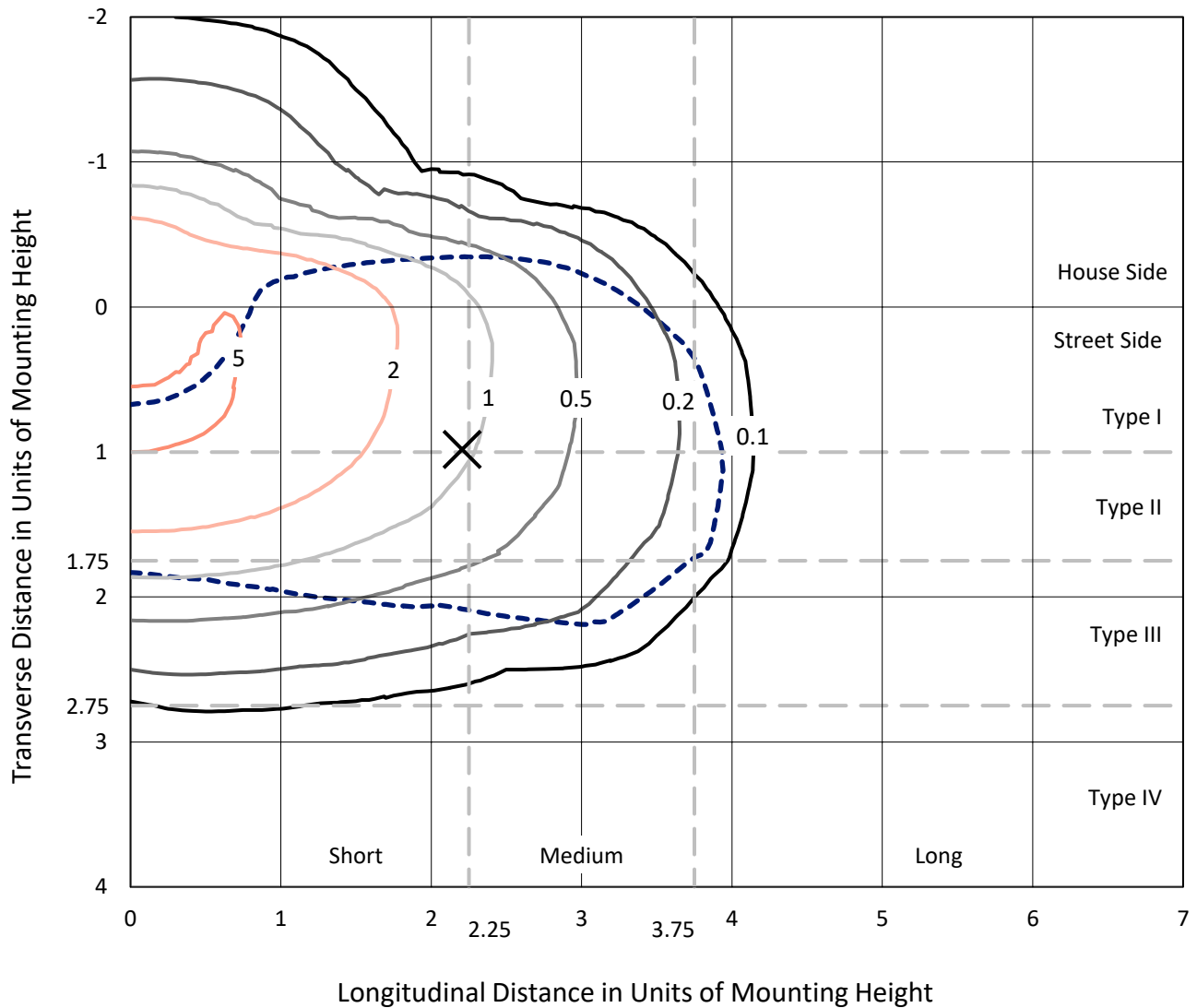
Input Watts (W): 170.9  
Input Voltage (V): 120.0  
Input Current (Ain): 1.434  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 11.969  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P885019  
 CATALOG NUMBER: NAV-SB6A-835-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

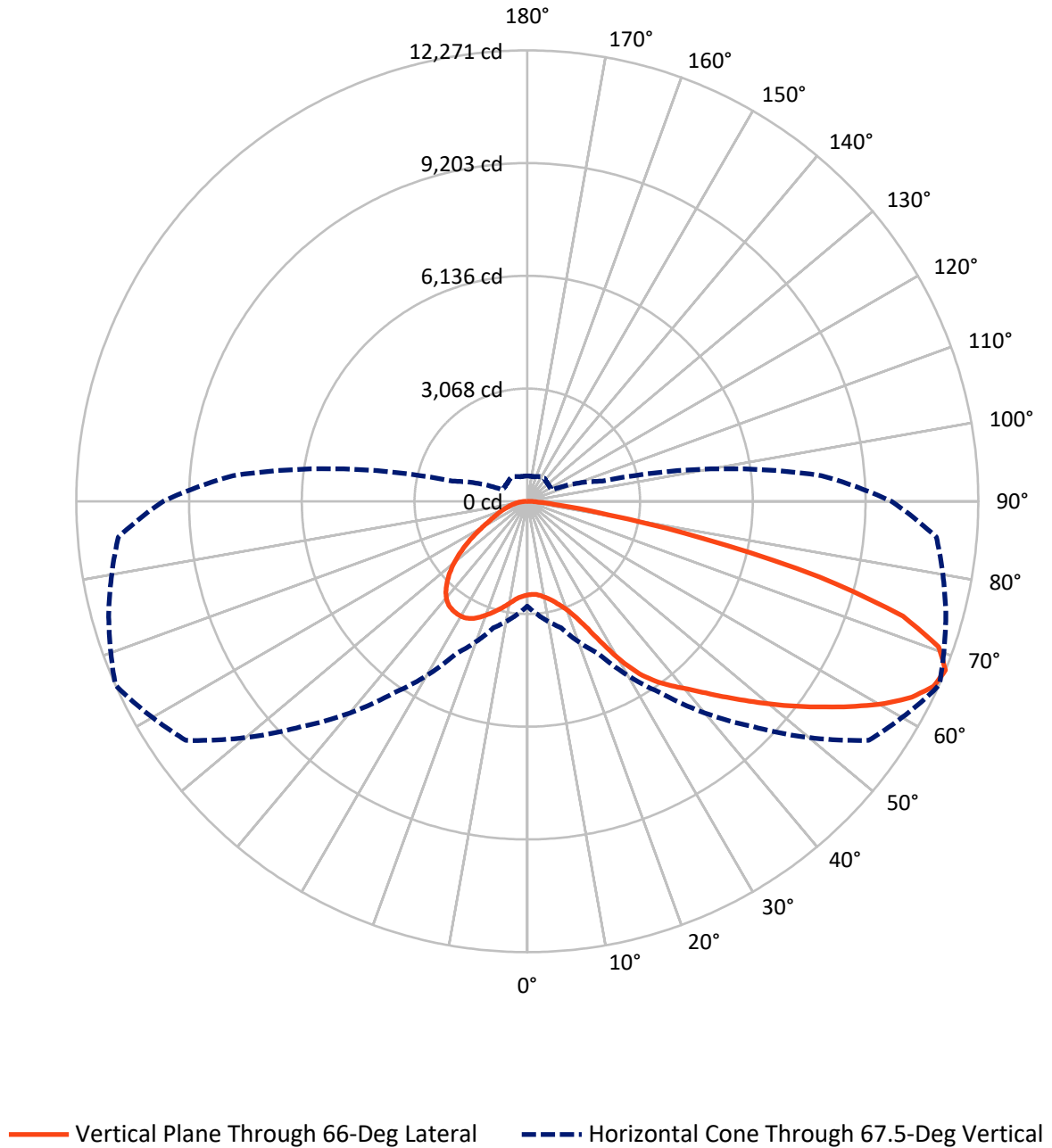
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type III - Short - N/A

REPORT NUMBER: P885019  
CATALOG NUMBER: NAV-SB6A-835-U-T3

### Luminous Intensity Polar Plot



REPORT NUMBER: P885019  
 CATALOG NUMBER: NAV-SB6A-835-U-T3

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5715.9	0.0	5715.9
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	17272.1	0.0	17272.1
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	22988.0	0.0	22988.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.8	1.1
10°-20°	835.2	3.6
20°-30°	1609.8	7.0
30°-40°	2822.5	12.3
40°-50°	4196.2	18.3
50°-60°	5319.1	23.1
60°-70°	5204.6	22.6
70°-80°	2482.6	10.8
80°-90°	265.3	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°	22988.0	100.0
0°-180°	22988.0	100.0

**Coefficient of Utilization**



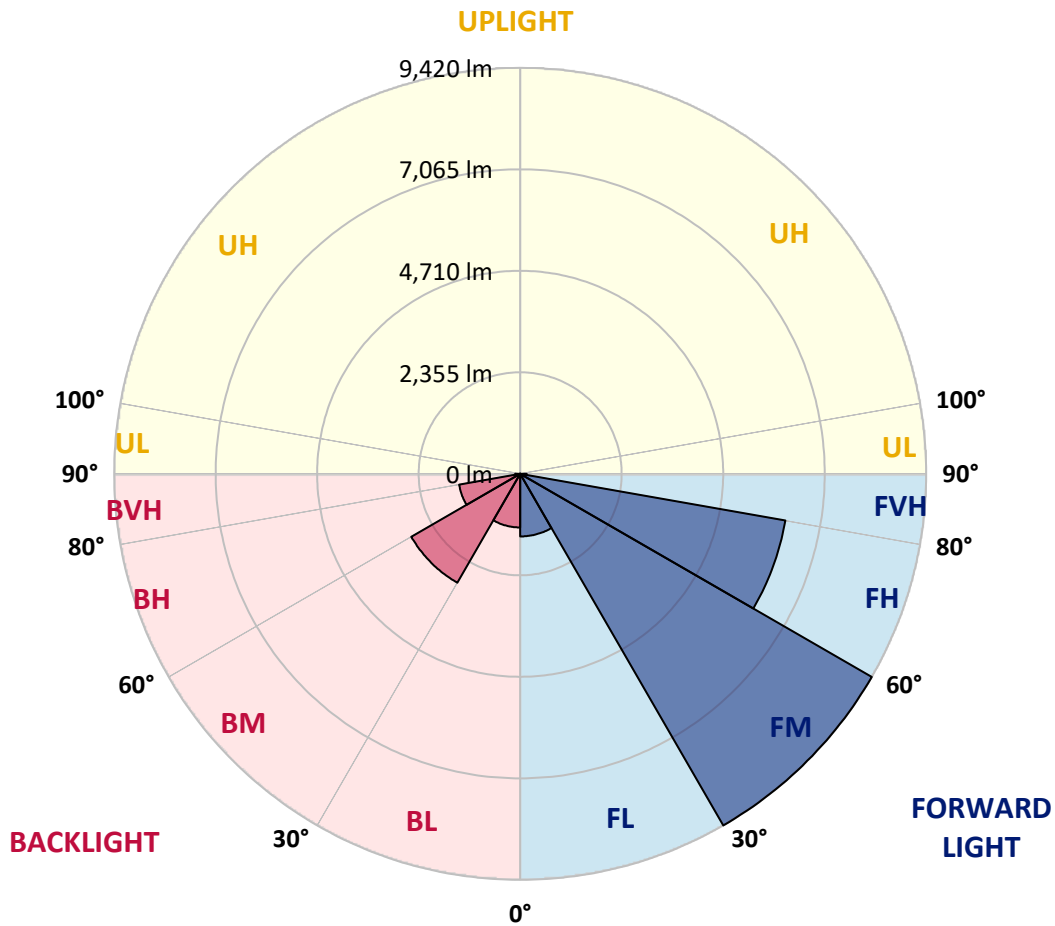
REPORT NUMBER: P885019  
 CATALOG NUMBER: NAV-SB6A-835-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1452.6	6.3			
FM (30°-60°)	9420.3	41.0			
FH (60°-80°)	6248.8	27.2			G3/7500
FVH (80°-90°)	150.4	0.7			G2/225
BL (0°-30°)	1245.1	5.4	B3/2500		
BM (30°-60°)	2917.5	12.7	B3/5000		
BH (60°-80°)	1438.4	6.3	B3/2500		G3/2500
BVH (80°-90°)	114.9	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



REPORT NUMBER: P885019  
 CATALOG NUMBER: NAV-SB6A-835-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2549.7	2549.7	2549.7	2549.7	2549.7	2549.7	2549.7	2549.7	2549.7	2549.7	2549.7
2.5°	2523.1	2537.6	2534.0	2527.9	2526.7	2529.1	2532.8	2536.4	2535.2	2541.2	2550.9
5°	2515.9	2530.3	2529.1	2529.1	2534.0	2543.6	2549.7	2555.7	2549.7	2556.9	2570.2
7.5°	2520.7	2531.6	2536.4	2541.2	2553.3	2571.4	2585.9	2599.2	2591.9	2600.4	2617.3
10°	2582.3	2590.7	2595.6	2595.6	2604.0	2624.6	2639.1	2663.2	2657.2	2670.5	2692.2
12.5°	2694.6	2703.1	2703.1	2698.2	2704.3	2717.6	2722.4	2749.0	2738.1	2759.8	2781.6
15°	2832.3	2849.2	2835.9	2827.5	2829.9	2843.2	2842.0	2862.5	2851.6	2869.7	2889.1
17.5°	2984.5	3006.2	2984.5	2983.3	2978.4	2992.9	2994.1	3012.3	2992.9	3006.2	3019.5
20°	3164.4	3194.6	3176.5	3182.6	3171.7	3177.7	3183.8	3210.3	3180.1	3189.8	3186.2
22.5°	3418.1	3454.3	3435.0	3457.9	3450.7	3445.9	3444.7	3491.8	3444.7	3448.3	3413.3
25°	3787.7	3831.2	3797.3	3828.7	3828.7	3844.4	3862.6	3922.9	3844.4	3821.5	3730.9
27.5°	4333.6	4377.1	4310.7	4330.0	4323.9	4362.6	4343.3	4493.0	4408.5	4371.0	4188.7
30°	4990.6	5067.9	4942.3	4937.5	4931.5	4993.1	5020.8	5119.9	5034.1	4996.7	4776.9
32.5°	5700.8	5781.8	5632.0	5588.5	5565.6	5603.0	5580.1	5659.8	5600.6	5542.6	5270.9
35°	6452.1	6531.8	6389.3	6304.7	6212.9	6134.4	6052.3	6072.8	6017.3	5929.1	5647.7
37.5°	7162.3	7308.4	7157.4	7066.9	6897.8	6744.4	6514.9	6419.5	6367.5	6286.6	6002.8
40°	7885.7	7969.1	7854.3	7777.0	7593.5	7353.1	6985.9	6784.2	6714.2	6635.7	6395.3
42.5°	8418.4	8498.1	8436.5	8383.4	8239.6	7960.6	7486.0	7233.5	7132.1	7043.9	6839.8
45°	8841.1	8900.3	8861.7	8881.0	8819.4	8548.8	8004.1	7715.4	7610.4	7502.9	7342.2
47.5°	9011.4	9074.2	9135.8	9250.6	9355.6	9156.4	8560.9	8237.2	8126.1	8016.2	7858.0
50°	8992.1	9056.1	9234.9	9478.8	9804.9	9738.5	9147.9	8792.8	8690.1	8564.5	8418.4
52.5°	8837.5	8910.0	9139.4	9545.3	10064.6	10174.5	9745.8	9366.5	9269.9	9120.1	8974.0
55°	8431.7	8475.2	8819.4	9394.3	10126.2	10478.9	10331.6	9977.7	9881.0	9672.1	9512.7
57.5°	7679.2	7742.0	8243.3	8987.3	9971.6	10685.4	10846.1	10620.2	10527.2	10226.5	10059.8
60°	6697.3	6797.5	7371.2	8303.6	9577.9	10684.2	11313.5	11251.9	11174.6	10772.4	10598.5
62.5°	5586.1	5702.0	6254.0	7337.4	8889.4	10381.1	11605.8	11780.9	11741.1	11276.1	11053.8
65°	4290.1	4369.8	4919.4	6087.3	7818.1	9730.1	11639.6	12142.0	12149.3	11658.9	11291.8
67.5°	2856.5	3085.9	3563.0	4567.9	6383.2	8666.0	11342.5	12201.2	12271.3	11790.6	11172.2
70°	1393.8	1695.8	2163.2	2968.8	4567.9	7034.2	10565.9	11715.7	11871.5	11406.5	10459.6
72.5°	578.5	676.4	931.2	1465.1	2622.1	4746.7	9005.4	10399.2	10687.9	10106.9	8794.0
75°	390.1	422.7	532.6	751.3	1194.5	2340.7	6494.4	7754.1	8219.1	7633.3	6239.5
77.5°	300.7	321.3	387.7	525.4	710.2	885.3	3476.1	4673.0	4913.3	4548.6	3246.6
80°	236.7	252.4	289.9	382.9	503.7	473.5	1184.9	2117.3	2256.2	1892.6	1043.5
82.5°	205.3	211.4	207.7	259.7	334.6	276.6	388.9	781.4	862.4	625.6	340.6
85°	148.6	165.5	172.7	160.6	177.5	140.1	159.4	276.6	304.4	271.8	192.0
87.5°	60.4	89.4	109.9	103.9	65.2	39.9	49.5	80.9	93.0	101.5	62.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P885019  
 CATALOG NUMBER: NAV-SB6A-835-U-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2549.7	2549.7	2549.7	2549.7	2549.7	2549.7	2549.7	2549.7	2549.7	2549.7	2549.7
2.5°	2552.1	2560.5	2566.6	2573.8	2578.7	2585.9	2600.4	2608.9	2610.1	2616.1	2614.9
5°	2575.0	2587.1	2600.4	2619.7	2641.5	2659.6	2687.4	2706.7	2713.9	2720.0	2718.8
7.5°	2624.6	2641.5	2665.6	2699.4	2730.8	2755.0	2788.8	2811.8	2834.7	2843.2	2844.4
10°	2698.2	2722.4	2757.4	2803.3	2837.1	2868.5	2903.6	2922.9	2945.8	2955.5	2960.3
12.5°	2790.0	2815.4	2861.3	2925.3	2956.7	2978.4	2990.5	2985.7	2990.5	2999.0	3001.4
15°	2895.1	2922.9	2974.8	3043.7	3065.4	3046.1	3019.5	2995.4	2991.7	2994.1	3002.6
17.5°	3019.5	3040.0	3100.4	3158.4	3142.7	3063.0	3005.0	2966.4	2947.0	2941.0	2949.5
20°	3193.4	3193.4	3243.0	3279.2	3174.1	3038.8	2948.2	2885.4	2845.6	2828.7	2825.1
22.5°	3404.8	3385.5	3416.9	3391.5	3168.1	2971.2	2845.6	2736.9	2676.5	2652.3	2648.7
25°	3672.9	3650.0	3641.5	3484.5	3124.6	2863.7	2659.6	2527.9	2474.8	2461.5	2463.9
27.5°	4077.5	4019.6	3909.7	3535.2	3044.9	2694.6	2442.2	2320.2	2290.0	2291.2	2294.8
30°	4616.2	4500.3	4230.9	3543.7	2914.4	2455.5	2219.9	2133.0	2118.5	2124.5	2145.1
32.5°	5115.0	5005.1	4559.5	3505.0	2713.9	2221.2	2020.7	1962.7	1940.9	1948.2	1957.8
35°	5506.4	5476.2	4863.8	3450.7	2467.5	2001.3	1841.9	1792.4	1750.1	1740.4	1747.7
37.5°	5876.0	5863.9	5092.1	3374.6	2223.6	1845.5	1698.2	1633.0	1571.4	1537.5	1538.7
40°	6281.8	6269.7	5241.9	3257.4	2007.4	1710.2	1568.9	1483.2	1407.1	1345.5	1351.5
42.5°	6738.3	6667.1	5313.1	3089.6	1823.8	1595.5	1463.9	1347.9	1247.7	1190.9	1194.5
45°	7237.2	7076.5	5311.9	2875.8	1669.2	1490.4	1351.5	1187.3	1094.3	1041.1	1038.7
47.5°	7766.2	7467.8	5246.7	2639.1	1519.4	1374.5	1177.6	1052.0	990.4	957.8	950.5
50°	8312.1	7833.8	5135.6	2367.3	1366.0	1242.8	1068.9	983.2	936.0	905.9	895.0
52.5°	8825.4	8166.0	5001.5	2059.3	1210.2	1114.8	1020.6	954.2	904.6	870.8	856.3
55°	9302.5	8452.2	4811.9	1744.1	1083.4	1029.0	997.6	942.1	885.3	845.5	829.8
57.5°	9726.4	8638.2	4484.6	1448.2	992.8	969.9	973.5	921.6	856.3	822.5	800.8
60°	10079.1	8774.7	4000.2	1174.0	919.1	911.9	936.0	882.9	806.8	768.2	751.3
62.5°	10290.5	8772.3	3406.0	961.4	856.3	858.7	886.5	834.6	757.3	721.1	710.2
65°	10272.4	8557.3	2753.8	822.5	795.9	798.4	834.6	781.4	716.2	694.5	693.3
67.5°	9908.8	8033.1	2112.4	731.9	729.5	740.4	782.7	745.2	690.9	688.4	692.1
70°	8924.5	6944.9	1521.8	659.5	660.7	676.4	731.9	722.3	677.6	682.4	681.2
72.5°	7156.2	5295.0	1021.8	583.4	584.6	609.9	683.6	704.1	664.3	728.3	738.0
75°	4766.0	3302.1	657.0	502.4	503.7	536.3	641.3	669.1	628.1	725.9	731.9
77.5°	2290.0	1484.4	475.9	422.7	422.7	452.9	554.4	599.1	535.1	564.0	516.9
80°	791.1	558.0	374.4	340.6	333.4	353.9	467.4	519.4	461.4	425.1	398.6
82.5°	311.6	289.9	300.7	264.5	240.4	253.6	363.5	428.8	339.4	306.8	305.6
85°	178.8	188.4	212.6	175.1	138.9	155.8	266.9	308.0	256.1	225.9	230.7
87.5°	48.3	66.4	97.8	90.6	62.8	66.4	126.8	170.3	147.4	113.5	117.2
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)