

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: P970036

Luminaire Tested: **NAV-SB6A-835-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970036
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-835-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25811.6 lumens
Efficiency: N/A
Efficacy: 151.0 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): 170.9
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

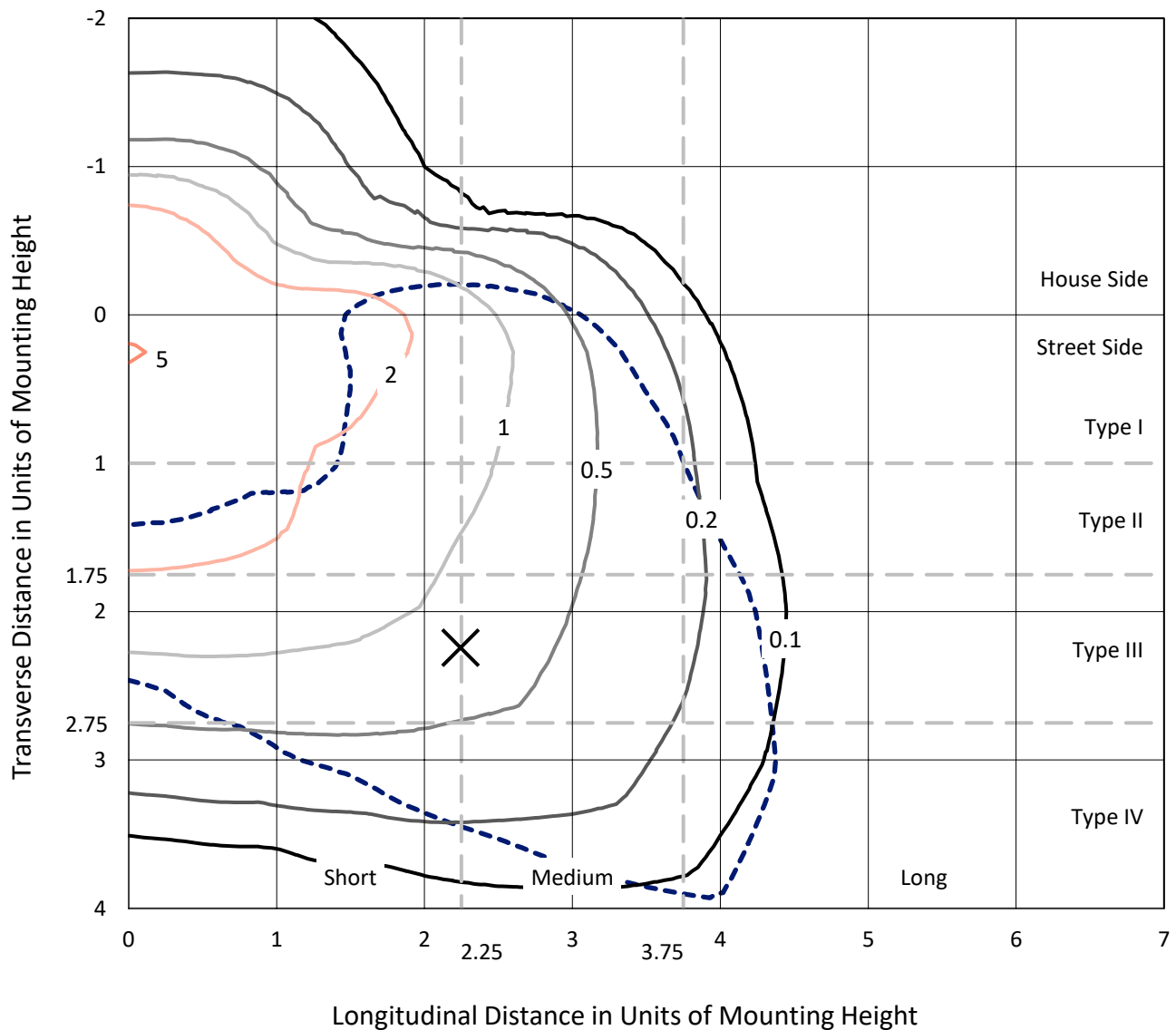


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Iso-Footcandle Lines of Horizontal Illumination

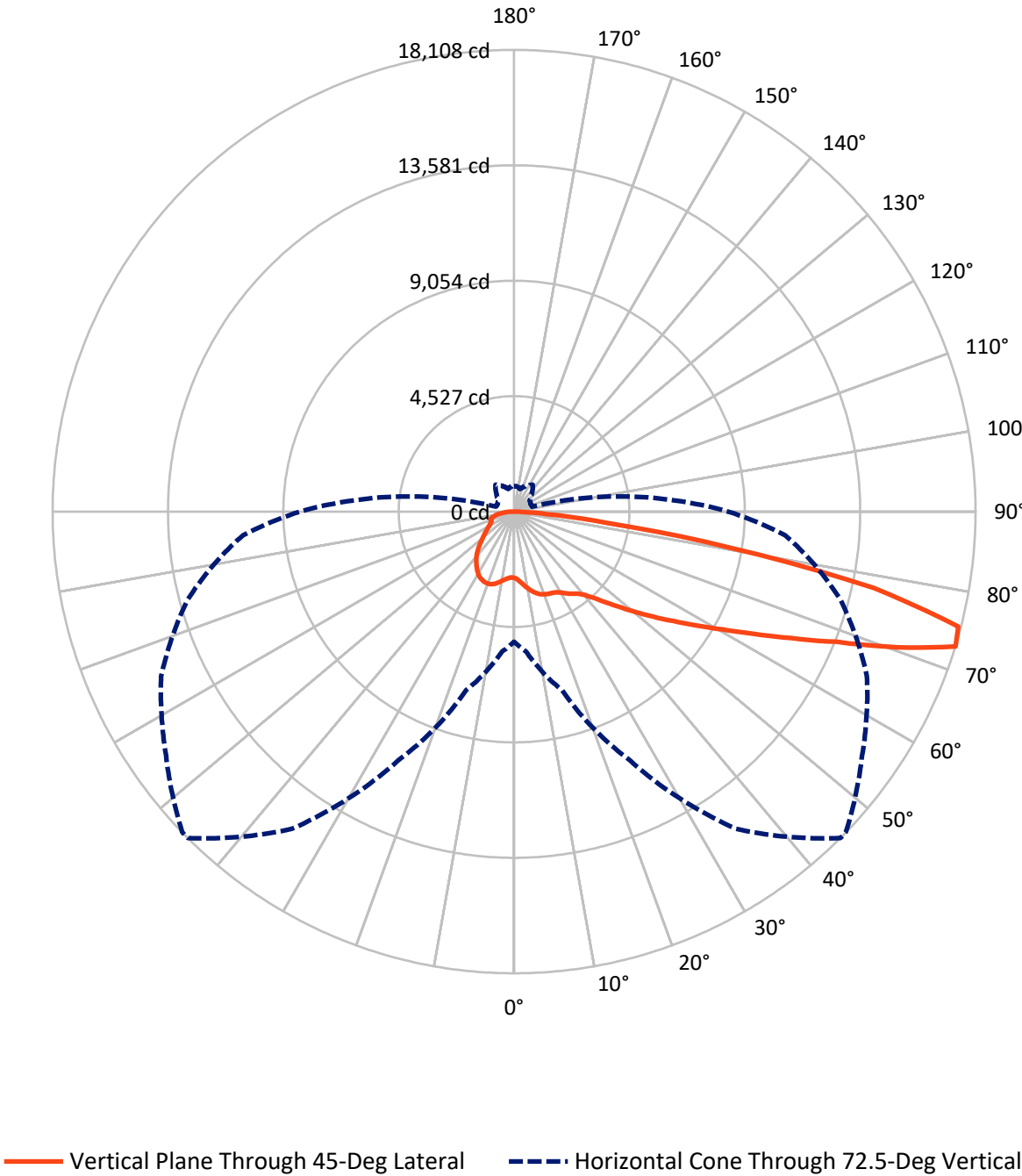
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5835.1	0.0	5835.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	19976.5	0.0	19976.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	25811.6	0.0	25811.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.0	1.0
10°-20°	883.6	3.4
20°-30°	1537.1	6.0
30°-40°	2203.5	8.5
40°-50°	3102.7	12.0
50°-60°	4752.4	18.4
60°-70°	6884.6	26.7
70°-80°	5497.8	21.3
80°-90°	684.7	2.7
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°	25811.6	100.0
0°-180°	25811.6	100.0

Coefficient of Utilization



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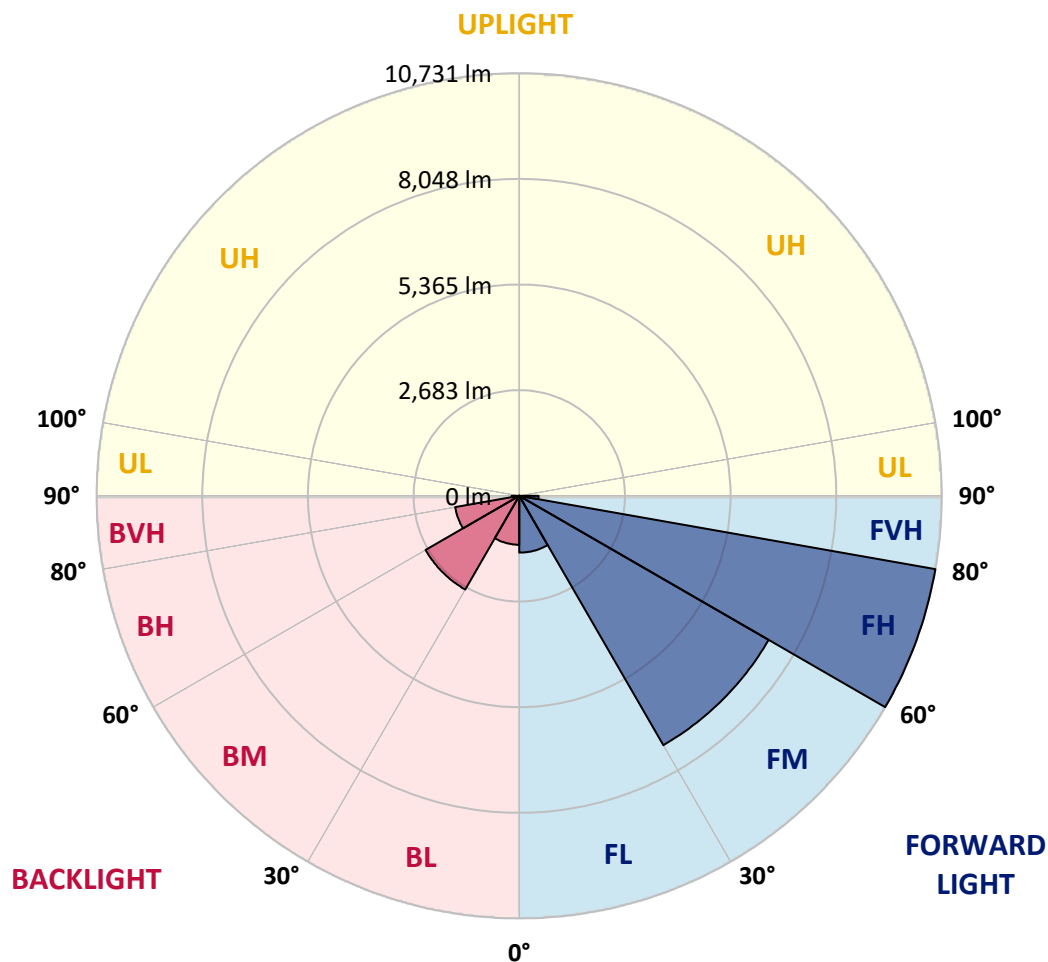
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1443.4	5.6			
FM	(30°-60°)	7311.2	28.3			
FH	(60°-80°)	10730.6	41.6			G4/12000
FVH	(80°-90°)	491.2	1.9			G3/500
BL	(0°-30°)	1242.3	4.8	B3/2500		
BM	(30°-60°)	2747.5	10.6	B3/5000		
BH	(60°-80°)	1651.8	6.4	B3/2500		G3/2500
BVH	(80°-90°)	193.5	0.7			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°	45°	46°	55°	65°	75°	85°
0°	2603.9	2603.9	2603.9	2603.9	2603.9	2603.9	2603.9	2603.9	2603.9	2603.9	2603.9
2.5°	2705.9	2723.5	2707.2	2692.3	2685.5	2667.8	2666.4	2655.6	2648.8	2629.7	2624.3
5°	2894.9	2918.0	2890.8	2860.9	2833.7	2790.2	2784.7	2753.5	2718.1	2677.3	2654.2
7.5°	3108.3	3128.7	3097.4	3052.6	3005.0	2932.9	2931.6	2874.5	2818.7	2749.4	2709.9
10°	3294.7	3321.8	3279.7	3218.5	3158.6	3077.0	3067.5	3002.3	2931.6	2841.8	2782.1
12.5°	3459.2	3478.2	3437.4	3362.6	3293.2	3211.6	3199.4	3127.4	3048.6	2946.6	2870.4
15°	3589.7	3614.2	3559.7	3479.6	3406.1	3325.9	3315.1	3249.8	3170.9	3063.5	2965.5
17.5°	3675.3	3695.7	3640.0	3550.3	3479.6	3412.9	3404.7	3350.4	3281.0	3172.3	3067.5
20°	3707.9	3729.8	3671.2	3580.1	3514.9	3463.3	3459.2	3419.7	3372.1	3272.8	3166.8
22.5°	3740.6	3761.0	3684.9	3589.7	3532.6	3500.0	3498.6	3472.7	3453.7	3372.1	3268.8
25°	3872.6	3878.0	3776.0	3638.6	3557.1	3528.5	3527.1	3525.8	3533.9	3470.0	3378.9
27.5°	3986.7	3985.4	3898.4	3769.1	3642.7	3582.9	3581.6	3595.1	3620.9	3567.9	3493.1
30°	4154.0	4139.1	4035.6	3901.0	3785.5	3693.1	3684.9	3672.7	3693.1	3650.8	3607.4
32.5°	4508.9	4461.3	4294.0	4054.7	3903.8	3833.1	3822.2	3746.1	3754.2	3728.3	3706.6
35°	5017.4	4954.8	4731.8	4345.7	4050.6	3950.0	3944.6	3848.1	3831.8	3808.6	3816.8
37.5°	5622.4	5544.9	5285.3	4767.2	4303.6	4086.0	4077.9	3990.8	3924.2	3899.7	3945.9
40°	6230.3	6132.4	5917.5	5281.2	4676.2	4313.1	4287.3	4155.3	4079.2	4038.4	4136.3
42.5°	6820.5	6738.9	6555.3	5857.7	5135.7	4644.8	4587.7	4362.0	4304.9	4266.9	4443.6
45°	7342.6	7269.1	7134.5	6473.7	5674.2	5096.3	5040.5	4672.1	4654.3	4654.3	4910.0
47.5°	7766.7	7750.4	7607.7	7101.9	6309.2	5610.2	5513.7	5103.1	5150.6	5224.1	5572.2
50°	8237.2	8192.4	8040.1	7720.5	7055.7	6199.0	6120.2	5632.0	5810.1	6011.3	6529.5
52.5°	8669.7	8694.2	8524.1	8365.0	7898.6	6855.7	6717.0	6256.1	6640.9	6974.1	7651.2
55°	9114.3	9115.6	9068.1	9046.2	8782.5	7581.8	7429.6	7006.7	7618.5	8031.9	8959.2
57.5°	9531.7	9534.4	9605.2	9796.8	9807.7	8419.5	8246.7	7928.6	8705.0	9126.5	10308.1
60°	9904.3	9923.3	10116.4	10565.1	10709.2	9379.5	9216.3	9017.7	9828.1	10252.4	11726.3
62.5°	10029.3	10098.7	10528.4	11166.1	11599.8	10557.0	10396.5	10278.2	11008.4	11402.7	12912.0
65°	9817.2	9976.3	10807.1	11662.4	12516.3	11956.1	11797.0	11667.9	12234.8	12606.1	13885.6
67.5°	9296.4	9501.8	10790.8	12183.2	13628.6	13639.5	13491.3	13188.1	13549.7	13692.5	14202.4
70°	7924.5	8231.8	9840.4	12377.6	14905.3	15941.5	15798.7	15018.2	14861.9	14171.1	13310.4
72.5°	5105.8	5519.1	7246.0	10777.3	15189.6	18107.5	18099.3	16670.3	15276.6	13241.1	10675.3
75°	1862.8	2115.7	3366.7	6764.7	12750.2	17997.4	18050.5	16387.5	13945.4	10227.9	6650.4
77.5°	678.6	742.4	1098.7	2599.8	7841.6	14440.3	14550.5	13101.0	9926.0	5133.0	2635.2
80°	356.3	391.7	562.9	1008.9	3359.8	8575.9	8748.5	7785.8	4665.2	1546.0	790.0
82.5°	197.2	213.5	315.5	548.0	1513.4	3667.1	3770.6	3075.7	1641.2	655.4	326.4
85°	106.1	112.9	148.2	299.1	739.7	1271.3	1299.9	919.2	654.1	384.8	157.7
87.5°	31.3	38.0	49.0	95.2	289.7	285.6	292.3	182.2	258.3	194.4	51.7
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°	2603.9	2603.9	2603.9	2603.9	2603.9	2603.9	2603.9	2603.9	2603.9	2603.9	2603.9
2.5°	2616.1	2612.0	2597.0	2590.3	2582.1	2580.7	2587.6	2588.9	2590.3	2591.6	2597.0
5°	2640.6	2627.0	2613.4	2605.2	2608.0	2609.3	2622.9	2632.4	2639.3	2644.7	2647.4
7.5°	2688.2	2677.3	2654.2	2652.8	2656.9	2669.1	2686.8	2708.6	2720.9	2730.3	2733.1
10°	2758.9	2738.5	2711.3	2715.4	2723.5	2741.3	2778.0	2795.6	2816.0	2833.7	2829.6
12.5°	2830.9	2813.3	2782.1	2784.7	2798.4	2829.6	2865.0	2886.7	2900.3	2913.9	2919.3
15°	2924.7	2893.5	2859.5	2859.5	2883.9	2918.0	2934.3	2952.0	2960.1	2975.1	2980.5
17.5°	3021.3	2980.5	2935.7	2932.9	2962.9	2979.2	2988.7	2991.4	2994.1	3010.4	3015.9
20°	3117.8	3073.0	3009.1	3003.7	3010.4	3007.8	3006.3	3003.7	3007.8	3028.2	3036.3
22.5°	3213.1	3161.4	3073.0	3048.6	3029.5	3003.7	3002.3	3000.9	3003.7	3024.1	3037.6
25°	3324.6	3262.0	3143.7	3070.3	3006.3	2971.0	2975.1	2976.5	2979.2	2995.5	3017.2
27.5°	3445.5	3376.2	3209.0	3063.5	2947.9	2923.4	2916.6	2920.7	2930.2	2956.1	2981.9
30°	3566.6	3485.0	3268.8	3036.3	2874.5	2840.5	2818.7	2828.3	2858.1	2883.9	2912.5
32.5°	3676.7	3595.1	3316.4	2976.5	2780.6	2727.6	2699.0	2711.3	2741.3	2750.7	2784.7
35°	3805.9	3713.5	3336.8	2881.3	2678.6	2597.0	2559.0	2541.4	2556.2	2546.8	2576.6
37.5°	3950.0	3853.5	3334.0	2756.1	2559.0	2465.2	2412.1	2345.5	2314.2	2281.6	2302.0
40°	4163.4	4024.8	3301.4	2605.2	2410.8	2325.1	2230.0	2117.1	2046.4	1982.5	1986.6
42.5°	4454.4	4262.8	3241.6	2439.4	2243.5	2163.4	2034.1	1902.3	1790.8	1684.7	1675.2
45°	4888.2	4574.2	3166.8	2262.6	2062.7	1983.9	1843.8	1695.6	1569.2	1433.2	1416.9
47.5°	5513.7	4992.9	3096.1	2061.4	1872.4	1800.3	1673.8	1536.5	1386.9	1255.0	1240.0
50°	6373.0	5593.9	3030.8	1865.5	1684.7	1630.4	1529.7	1389.7	1238.7	1132.6	1125.9
52.5°	7466.3	6411.2	3003.7	1676.6	1509.3	1488.9	1408.7	1278.2	1135.4	1045.6	1038.8
55°	8721.3	7388.8	3003.7	1495.7	1355.7	1362.4	1306.7	1185.7	1061.9	981.7	973.5
57.5°	10002.2	8378.7	2949.2	1328.5	1225.1	1253.7	1218.3	1112.2	1000.8	917.8	904.3
60°	11182.4	9208.1	2729.0	1176.2	1109.6	1154.5	1131.3	1040.2	904.3	834.9	824.0
62.5°	12089.4	9675.8	2304.7	1055.1	1014.3	1066.0	1053.8	945.0	886.5	858.0	848.5
65°	12543.5	9599.7	1762.2	947.7	934.2	1014.3	988.5	984.4	938.2	905.6	894.7
67.5°	12264.7	8944.4	1278.2	868.9	887.9	966.8	1066.0	1082.3	996.7	932.7	921.9
70°	11042.3	7758.6	951.8	794.1	829.4	968.1	1215.5	1132.6	977.6	902.8	890.6
72.5°	8400.4	5785.6	738.3	715.2	753.3	974.9	1282.3	1109.6	923.2	998.0	989.8
75°	4804.0	3176.4	592.9	618.7	658.2	911.0	1248.2	1049.7	881.1	916.5	916.5
77.5°	1831.6	1221.1	489.5	523.5	528.9	795.4	1193.8	1045.6	839.0	818.6	746.5
80°	635.0	477.2	405.2	416.0	409.3	707.0	1144.9	909.7	686.6	614.6	594.2
82.5°	259.7	237.9	320.9	307.3	291.0	549.3	924.7	743.7	561.6	496.3	490.9
85°	112.9	150.9	212.1	186.2	168.6	380.7	741.1	629.6	474.6	409.3	408.0
87.5°	23.2	57.1	89.8	84.3	87.0	254.3	526.2	447.3	335.9	251.5	197.2
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)