

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: P969955

Luminaire Tested: **NAV-SB6A-827-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969955
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-827-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24033.2 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
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



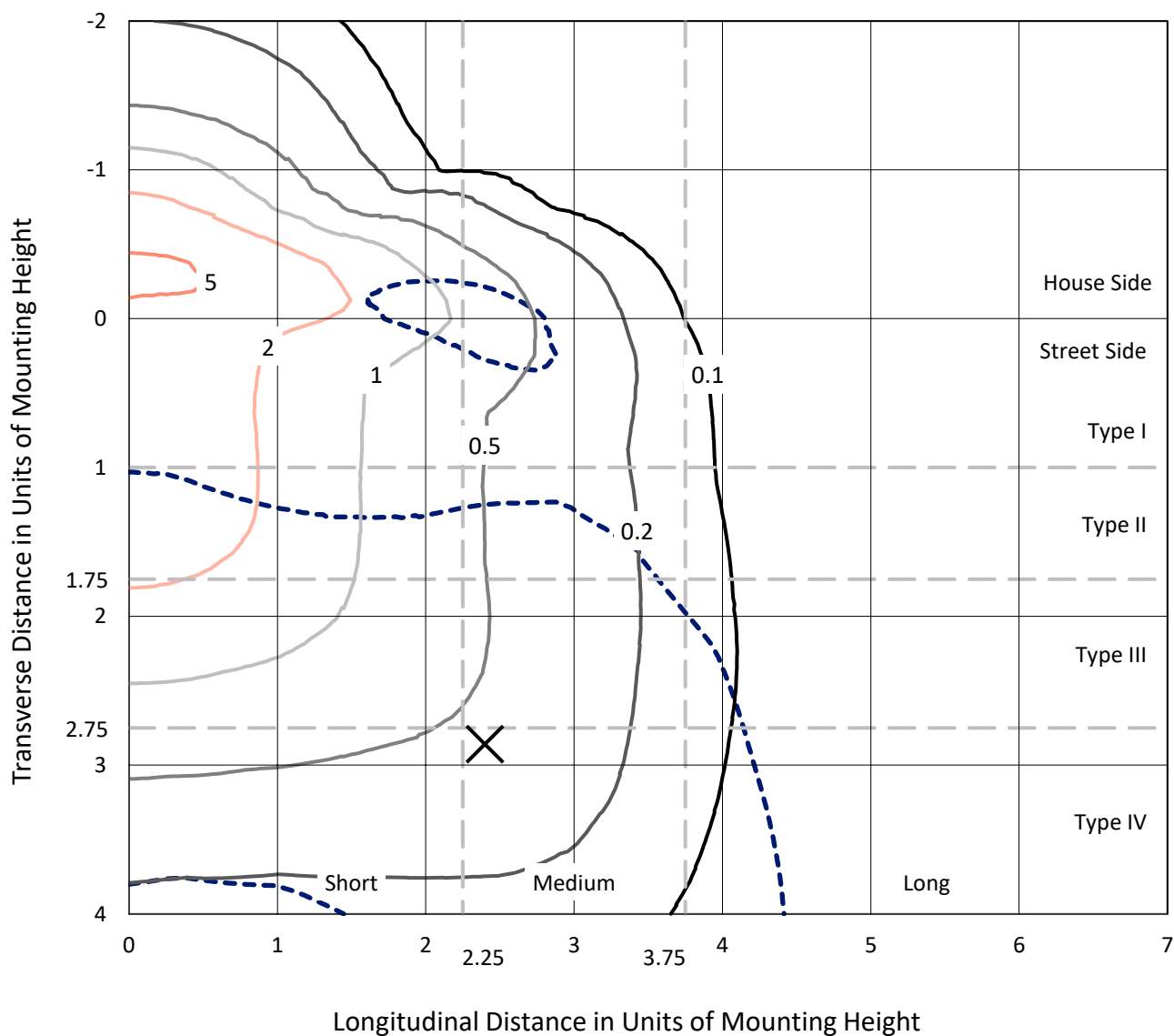
REPORT NUMBER: P969955

CATALOG NUMBER: NAV-SB6A-827-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

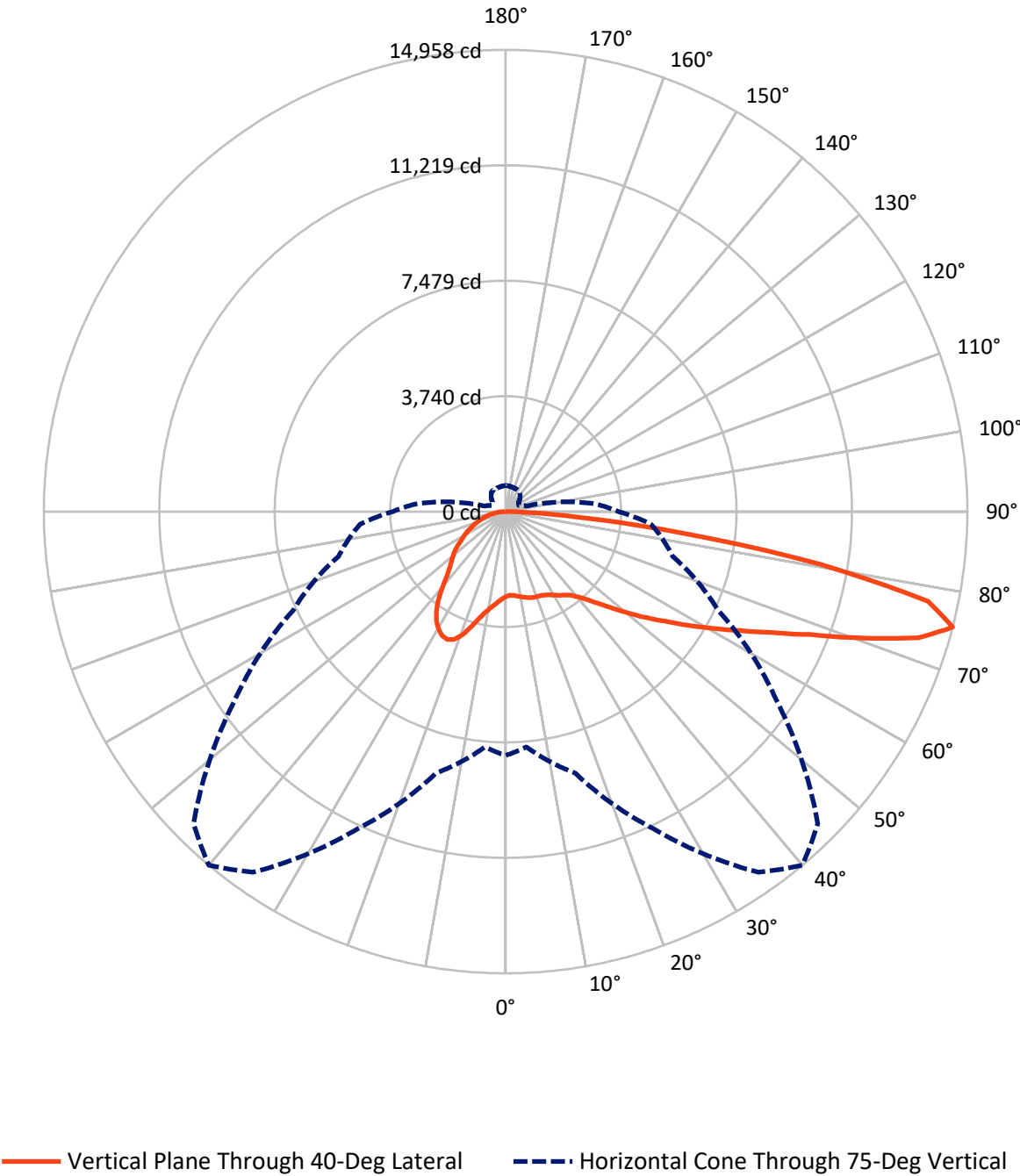
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
Type IV - Medium - N/A

REPORT NUMBER: P969955
CATALOG NUMBER: NAV-SB6A-827-U-SL4

Luminous Intensity Polar Plot



REPORT NUMBER: P969955

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7446.3	0.0	7446.3
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	16586.9	0.0	16586.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	24033.2	0.0	24033.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.3	1.1
10°-20°	921.0	3.8
20°-30°	1681.7	7.0
30°-40°	2385.2	9.9
40°-50°	3220.7	13.4
50°-60°	4332.7	18.0
60°-70°	5499.2	22.9
70°-80°	4990.8	20.8
80°-90°	727.5	3.0
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°	24033.2	100.0
0°-180°	24033.2	100.0

Coefficient of Utilization



REPORT NUMBER: P969955

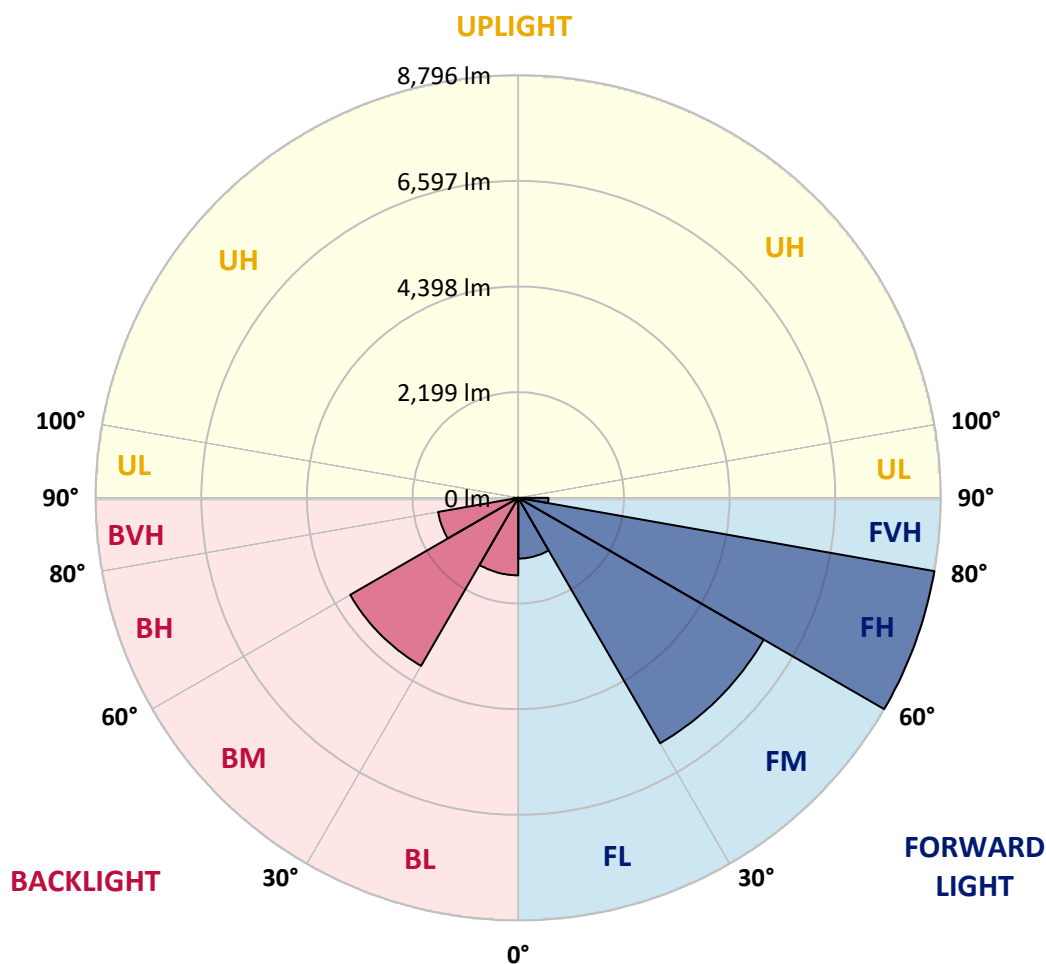
CATALOG NUMBER: NAV-SB6A-827-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1264.2	5.3			
FM	(30°-60°)	5899.6	24.5			
FH	(60°-80°)	8795.8	36.6			G4/12000
FVH	(80°-90°)	627.4	2.6			G4/750
BL	(0°-30°)	1612.9	6.7	B3/2500		
BM	(30°-60°)	4038.9	16.8	B3/5000		
BH	(60°-80°)	1694.2	7.0	B3/2500		G3/2500
BVH	(80°-90°)	100.2	0.4			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 Medium



REPORT NUMBER: P969955

CATALOG NUMBER: NAV-SB6A-827-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2748.2	2748.2	2748.2	2748.2	2748.2	2748.2	2748.2	2748.2	2748.2	2748.2	2748.2
2.5°	2706.2	2721.5	2717.6	2712.6	2712.6	2713.8	2712.6	2721.5	2730.4	2739.3	2753.4
5°	2734.2	2749.5	2741.9	2735.5	2730.4	2729.1	2725.3	2724.0	2729.1	2740.5	2759.7
7.5°	2789.0	2804.3	2792.8	2781.3	2771.2	2766.1	2760.9	2753.4	2749.5	2755.9	2782.7
10°	2850.2	2865.5	2851.4	2831.0	2814.5	2808.1	2803.1	2795.4	2790.3	2794.1	2823.5
12.5°	2911.4	2926.7	2907.5	2879.5	2857.8	2854.0	2847.7	2845.1	2843.9	2842.5	2871.8
15°	2968.7	2981.5	2957.2	2924.1	2901.2	2894.8	2888.4	2892.2	2898.6	2906.3	2939.4
17.5°	3013.4	3026.1	2990.4	2947.1	2925.5	2922.9	2919.0	2931.8	2949.6	2968.7	3009.5
20°	3054.2	3066.9	3021.0	2962.4	2936.8	2936.8	2938.2	2964.9	2990.4	3018.4	3074.6
22.5°	3111.5	3121.7	3065.7	2985.3	2948.3	2950.9	2961.1	2987.9	3019.8	3058.0	3135.7
25°	3196.9	3204.6	3135.7	3028.7	2986.5	2994.2	3003.1	3016.0	3046.5	3091.1	3195.6
27.5°	3334.6	3341.0	3250.5	3105.1	3041.4	3054.2	3066.9	3058.0	3072.0	3110.3	3244.1
30°	3528.4	3532.2	3417.5	3225.0	3134.4	3140.8	3143.4	3106.4	3079.6	3110.3	3278.5
32.5°	3757.8	3756.5	3620.1	3370.3	3240.2	3233.9	3212.2	3139.6	3077.0	3103.9	3309.1
35°	4113.4	4099.4	3923.5	3574.2	3360.1	3320.6	3269.5	3176.5	3089.9	3097.4	3335.9
37.5°	4702.3	4658.9	4415.5	3908.2	3538.5	3437.8	3362.6	3236.4	3117.8	3095.0	3367.7
40°	5366.4	5311.7	5043.9	4365.8	3806.2	3644.3	3523.2	3321.8	3163.8	3106.4	3414.9
42.5°	6154.2	6076.4	5788.4	4905.0	4145.3	3910.8	3728.4	3430.2	3231.3	3143.4	3478.6
45°	7121.7	7018.4	6610.5	5513.1	4572.3	4260.0	4016.6	3594.6	3334.6	3214.8	3574.2
47.5°	8099.3	8124.9	7544.9	6209.0	5084.7	4690.8	4377.3	3841.9	3485.0	3329.5	3728.4
50°	9138.2	9156.1	8474.1	6980.1	5666.0	5177.8	4782.6	4118.6	3694.0	3492.7	3959.2
52.5°	9949.0	9951.5	9318.0	7787.0	6271.5	5713.1	5219.8	4434.7	3936.2	3709.4	4266.4
55°	10456.2	10449.9	9909.4	8550.7	6967.4	6275.3	5704.2	4794.1	4231.9	3964.3	4652.6
57.5°	10824.6	10805.6	10317.3	9207.1	7709.3	6939.4	6252.3	5202.0	4581.2	4267.7	5161.2
60°	10964.8	10953.4	10593.9	9774.3	8489.5	7673.7	6884.6	5658.3	4977.6	4625.8	5815.1
62.5°	11018.4	11040.1	10865.4	10323.7	9324.3	8486.9	7579.3	6203.9	5423.8	5031.2	6504.8
65°	11207.0	11246.6	11210.8	11042.6	10267.6	9439.0	8500.9	6852.7	5910.8	5465.8	7224.9
67.5°	11580.6	11620.0	11635.4	11903.0	11419.9	10625.8	9650.7	7660.8	6480.5	5917.1	7766.6
70°	11571.6	11560.2	11830.3	12587.5	12862.8	12268.8	11200.7	8655.1	7159.9	6291.9	7835.5
72.5°	10532.7	10441.0	11079.5	12579.9	14063.6	13984.6	13093.6	9937.5	7746.2	6337.8	6799.1
75°	7901.8	7657.1	8785.2	11337.1	14263.8	14958.4	14296.9	10732.9	7607.3	5599.7	4731.6
77.5°	3379.2	3133.2	4462.6	8392.5	12766.0	13983.4	13193.0	9363.9	6072.6	3703.0	2323.8
80°	884.7	883.3	1348.6	3804.9	8681.9	10326.3	9059.2	6047.1	3469.7	1323.2	641.1
82.5°	365.8	356.9	495.9	1479.9	4242.2	5794.7	4729.0	2697.3	1253.1	358.2	212.9
85°	136.4	135.1	240.9	511.2	1496.5	2390.0	1729.8	689.6	312.3	174.7	95.6
87.5°	38.2	37.0	52.3	177.2	364.6	553.2	295.7	113.5	87.9	68.9	28.1
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: P969955

CATALOG NUMBER: NAV-SB6A-827-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2748.2	2748.2	2748.2	2748.2	2748.2	2748.2	2748.2	2748.2	2748.2	2748.2	2748.2
2.5°	2757.1	2763.5	2775.0	2783.9	2795.4	2808.1	2826.0	2837.4	2848.9	2856.6	2851.4
5°	2768.6	2782.7	2812.0	2841.3	2875.7	2907.5	2944.5	2971.3	2993.0	2999.4	3001.9
7.5°	2794.1	2817.0	2866.8	2916.5	2971.3	3023.5	3077.0	3123.0	3160.0	3174.0	3175.2
10°	2838.7	2869.3	2939.4	3009.5	3082.2	3162.5	3231.3	3297.6	3349.9	3371.5	3372.9
12.5°	2894.8	2933.0	3024.9	3121.7	3222.4	3333.3	3422.6	3504.1	3569.2	3598.5	3598.5
15°	2967.5	3017.2	3134.4	3264.5	3412.3	3566.6	3680.1	3770.6	3843.1	3878.9	3876.3
17.5°	3046.5	3112.8	3260.6	3456.9	3668.6	3871.2	4003.8	4070.1	4145.3	4179.7	4178.4
20°	3123.0	3204.6	3416.1	3701.7	3983.4	4198.8	4305.9	4323.8	4328.9	4332.7	4342.8
22.5°	3202.0	3311.7	3611.2	4010.2	4312.3	4461.4	4476.7	4400.2	4293.1	4243.4	4257.4
25°	3288.7	3434.1	3866.1	4350.5	4595.3	4613.1	4495.9	4309.7	4107.1	4014.0	4028.0
27.5°	3372.9	3575.5	4172.1	4675.5	4799.2	4642.4	4390.0	4126.1	3881.5	3783.3	3794.8
30°	3456.9	3737.4	4509.8	4959.8	4892.2	4569.8	4223.0	3928.6	3682.6	3579.3	3590.8
32.5°	3542.4	3926.1	4898.6	5165.1	4875.7	4415.5	4015.2	3706.8	3490.1	3381.8	3395.7
35°	3639.3	4158.0	5267.0	5277.2	4764.8	4188.7	3741.2	3441.6	3253.0	3166.3	3185.4
37.5°	3765.4	4452.5	5592.1	5305.3	4571.0	3855.9	3400.8	3128.1	2972.6	2933.0	2961.1
40°	3922.2	4806.8	5840.7	5260.6	4284.2	3451.9	3028.7	2810.7	2722.7	2731.6	2762.3
42.5°	4126.1	5203.3	6015.2	5145.9	3885.3	3035.0	2702.3	2605.4	2647.6	2683.2	2716.4
45°	4391.3	5615.0	6123.6	4950.9	3434.1	2681.9	2509.8	2532.8	2564.7	2568.4	2594.0
47.5°	4730.4	6031.8	6195.0	4656.5	2973.8	2433.4	2387.5	2392.6	2386.2	2359.4	2379.8
50°	5153.6	6437.2	6258.8	4266.4	2582.5	2277.9	2216.7	2198.8	2110.9	2024.2	2035.6
52.5°	5635.3	6809.4	6285.5	3782.0	2277.9	2147.9	2048.5	1936.2	1771.8	1745.1	1754.0
55°	6170.8	7153.6	6216.6	3186.7	2021.6	1980.9	1830.4	1695.4	1677.5	1654.6	1658.3
57.5°	6810.6	7524.5	6076.4	2522.6	1759.1	1785.9	1639.3	1654.6	1622.7	1587.0	1580.7
60°	7510.5	7908.2	5830.4	1917.2	1487.6	1542.4	1589.6	1588.2	1579.3	1550.0	1539.9
62.5°	8140.1	8160.5	5346.0	1468.4	1249.2	1353.7	1482.5	1481.2	1473.5	1456.9	1450.6
65°	8514.9	8122.3	4537.9	1156.1	1052.9	1198.2	1337.1	1347.4	1348.6	1347.4	1347.4
67.5°	8448.7	7674.9	3428.9	920.3	891.0	1040.2	1193.1	1207.1	1217.3	1219.9	1222.4
70°	7699.1	6692.1	2235.8	734.2	746.9	901.2	1056.7	1070.7	1079.6	1089.9	1095.0
72.5°	6001.3	4920.3	1279.8	594.0	620.7	781.4	921.6	938.2	943.3	962.4	970.1
75°	3657.1	2893.6	690.8	467.8	509.8	667.9	787.7	806.9	815.8	838.8	841.3
77.5°	1738.7	1253.1	393.9	364.6	410.4	545.6	665.4	687.1	662.9	675.6	665.4
80°	587.6	465.2	248.6	277.9	313.5	425.8	532.8	554.5	503.5	500.9	495.9
82.5°	205.2	188.7	158.1	184.8	202.6	304.6	402.8	430.8	374.7	373.5	355.7
85°	80.3	76.5	87.9	100.7	121.1	187.4	265.2	279.1	230.7	186.1	183.6
87.5°	16.6	17.8	21.6	23.0	37.0	65.0	95.6	117.3	93.1	79.0	72.7
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)