

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: STREETWORKS

Report Number: P884489

Luminaire Tested: **NVN-SB5B-827-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884489
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: STREETWORKS
Catalog Number: NVN-SB5B-827-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23232 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

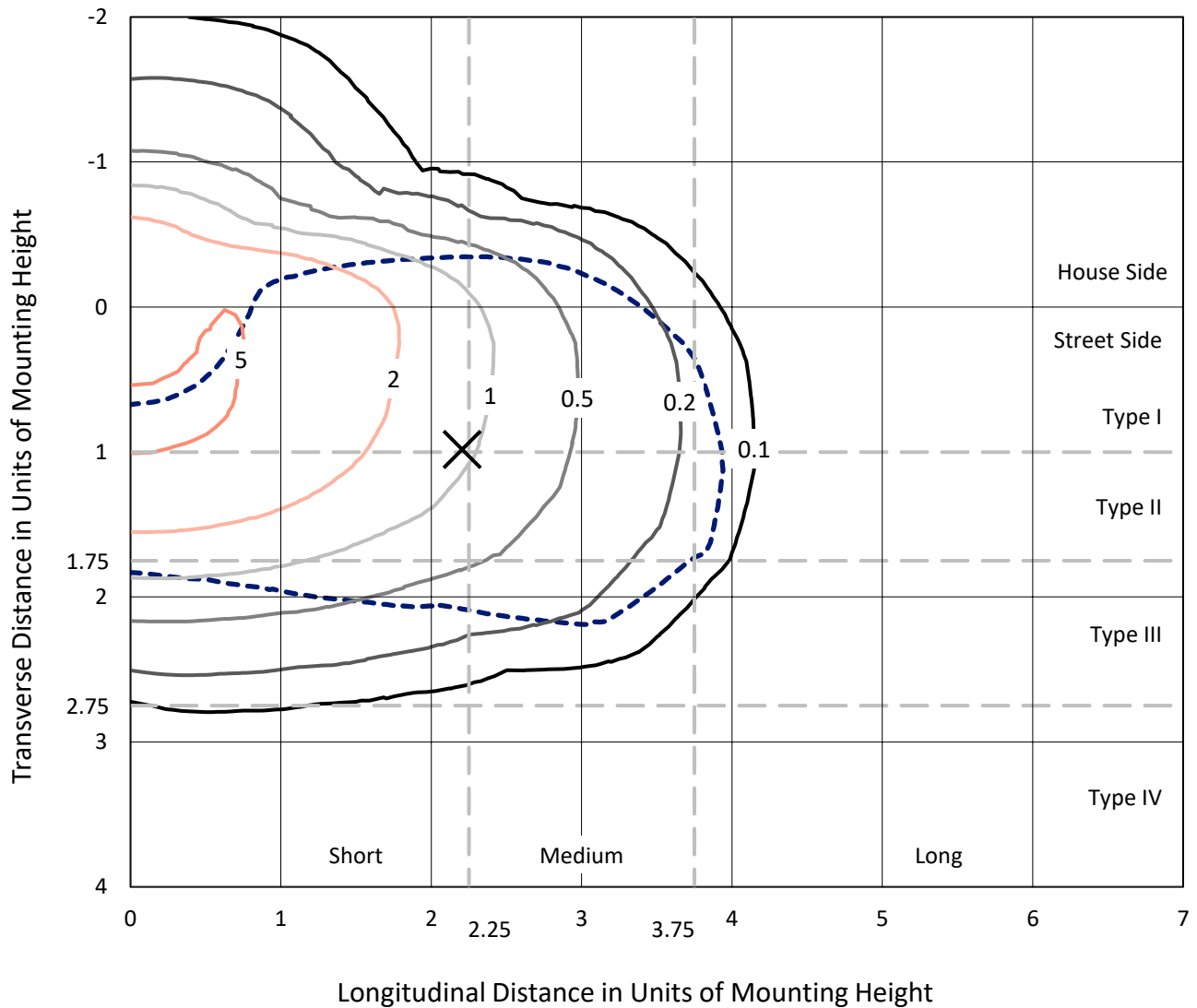
Input Watts (W): 182.7
Input Voltage (V): 120.0
Input Current (Ain): 1.547
Voltage Rise (V): NR
Power Factor: 0.992
Total Harmonic Distortion (THDi): 11.125
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P884489
 CATALOG NUMBER: NVN-SB5B-827-U-T3

Iso-Footcandle Lines of Horizontal Illumination

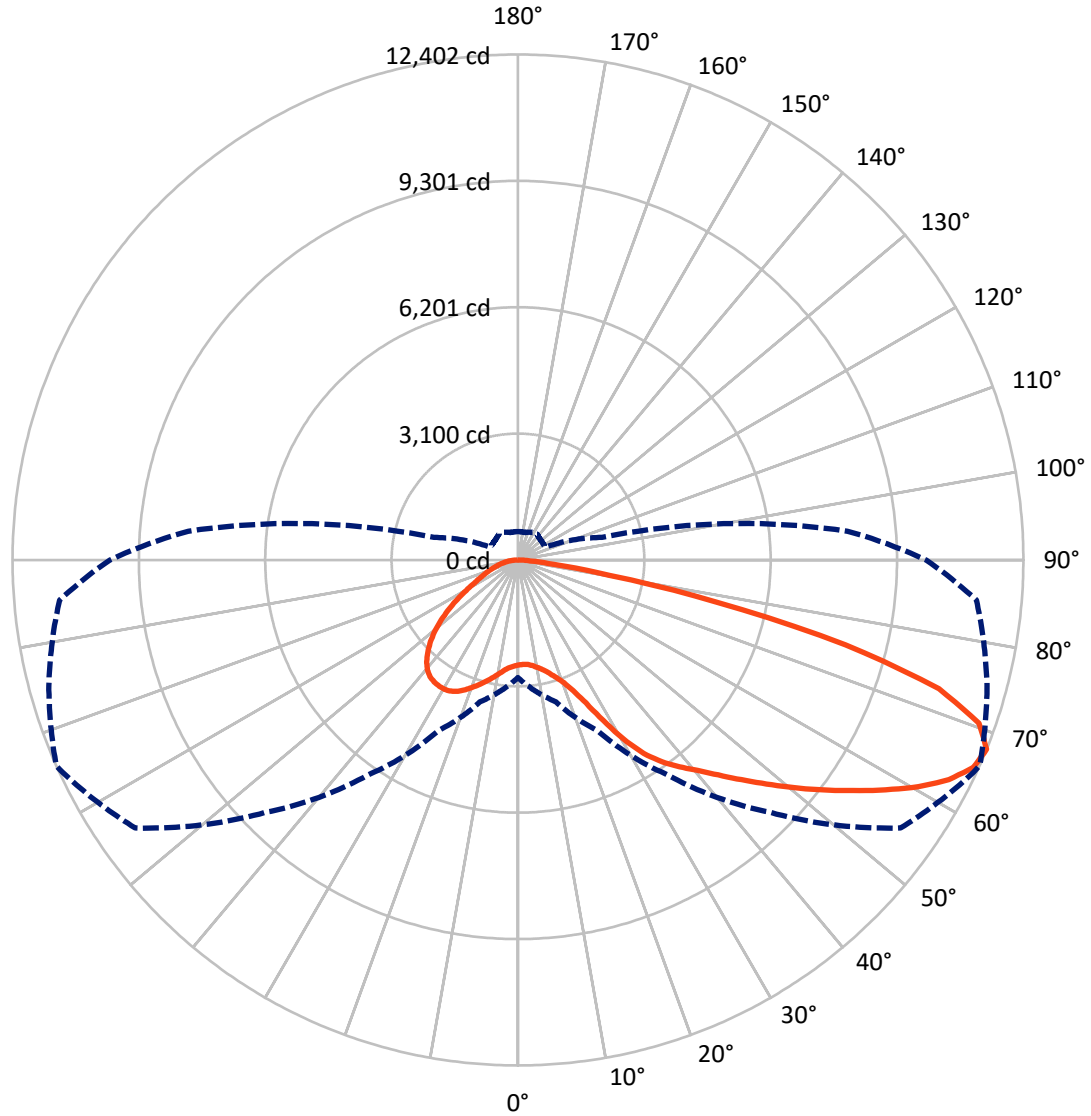
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P884489
CATALOG NUMBER: NVN-SB5B-827-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P884489
 CATALOG NUMBER: NVN-SB5B-827-U-T3

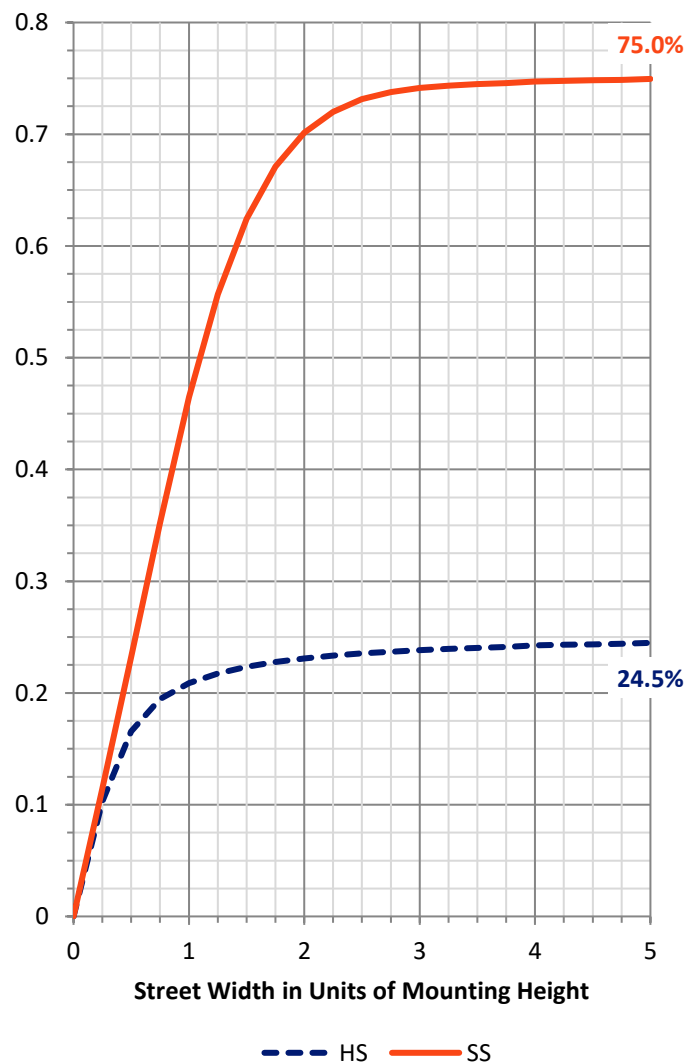
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5776.6	0.0	5776.6
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	17455.4	0.0	17455.4
	% Fixture	75.1	0.0	75.1
Total	Lumens	23232.0	0.0	23232.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.5	1.1
10°-20°	844.0	3.6
20°-30°	1626.9	7.0
30°-40°	2852.5	12.3
40°-50°	4240.7	18.3
50°-60°	5375.5	23.1
60°-70°	5259.8	22.6
70°-80°	2509.0	10.8
80°-90°	268.1	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°	23232.0	100.0
0°-180°	23232.0	100.0

Coefficient of Utilization



REPORT NUMBER: P884489

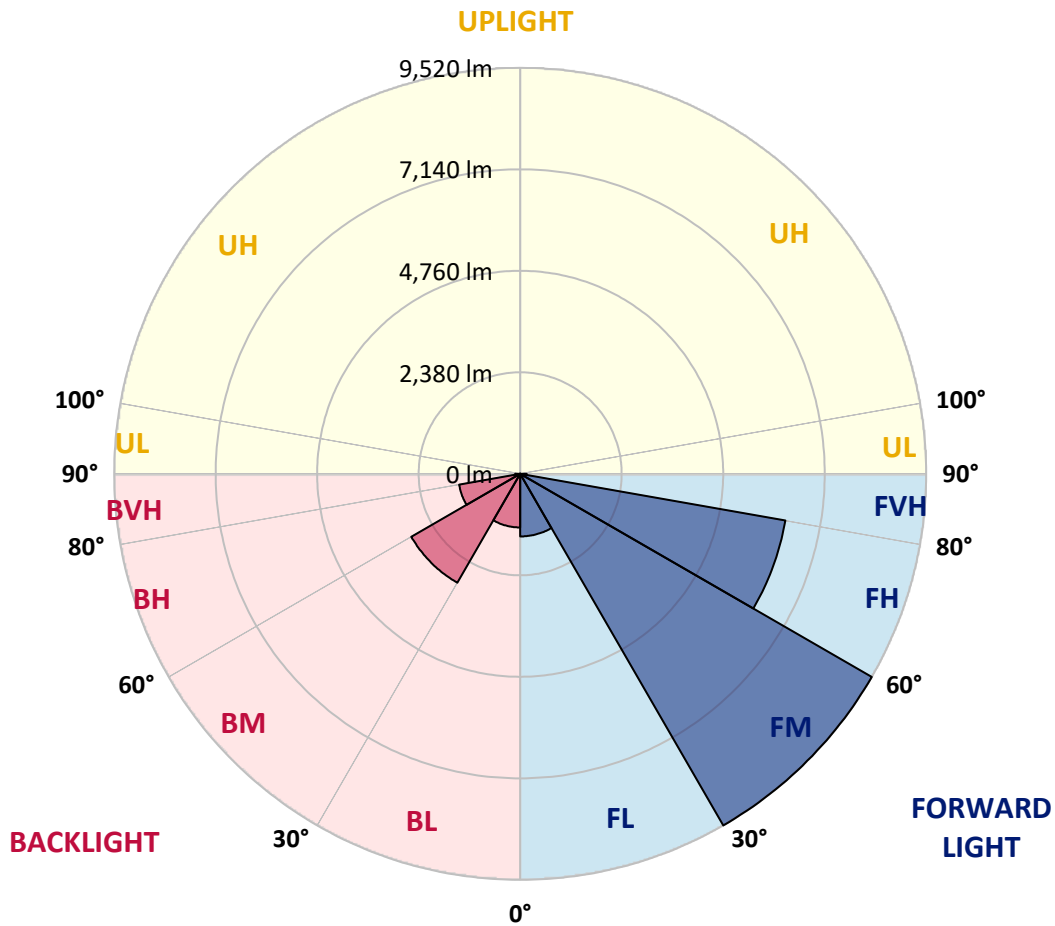
CATALOG NUMBER: NVN-SB5B-827-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1468.0	6.3			
FM (30°-60°)	9520.3	41.0			
FH (60°-80°)	6315.1	27.2			G3/7500
FVH (80°-90°)	152.0	0.7			G2/225
BL (0°-30°)	1258.3	5.4	B3/2500		
BM (30°-60°)	2948.4	12.7	B3/5000		
BH (60°-80°)	1453.7	6.3	B3/2500		G3/2500
BVH (80°-90°)	116.1	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: P884489

CATALOG NUMBER: NVN-SB5B-827-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2576.7	2576.7	2576.7	2576.7	2576.7	2576.7	2576.7	2576.7	2576.7	2576.7	2576.7
2.5°	2549.9	2564.5	2560.9	2554.8	2553.5	2556.0	2559.6	2563.3	2562.1	2568.2	2578.0
5°	2542.6	2557.2	2556.0	2556.0	2560.9	2570.6	2576.7	2582.8	2576.7	2584.1	2597.5
7.5°	2547.4	2558.4	2563.3	2568.2	2580.4	2598.7	2613.4	2626.8	2619.5	2628.0	2645.1
10°	2609.7	2618.2	2623.1	2623.1	2631.7	2652.4	2667.1	2691.5	2685.4	2698.8	2720.8
12.5°	2723.2	2731.8	2731.8	2726.9	2733.0	2746.4	2751.3	2778.1	2767.2	2789.1	2811.1
15°	2862.4	2879.5	2866.0	2857.5	2859.9	2873.3	2872.1	2892.9	2881.9	2900.2	2919.7
17.5°	3016.2	3038.1	3016.2	3014.9	3010.1	3024.7	3025.9	3044.2	3024.7	3038.1	3051.6
20°	3198.0	3228.5	3210.2	3216.3	3205.4	3211.5	3217.6	3244.4	3213.9	3223.7	3220.0
22.5°	3454.4	3491.0	3471.5	3494.6	3487.3	3482.4	3481.2	3528.8	3481.2	3484.9	3449.5
25°	3827.9	3871.8	3837.6	3869.4	3869.4	3885.2	3903.6	3964.6	3885.2	3862.1	3770.5
27.5°	4379.6	4423.5	4356.4	4375.9	4369.8	4408.9	4389.4	4540.7	4455.3	4417.4	4233.1
30°	5043.6	5121.7	4994.8	4989.9	4983.8	5046.1	5074.1	5174.2	5087.6	5049.7	4827.6
32.5°	5761.3	5843.1	5691.8	5647.8	5624.6	5662.5	5639.3	5719.8	5660.0	5601.4	5326.8
35°	6520.6	6601.1	6457.1	6371.7	6278.9	6199.5	6116.5	6137.3	6081.1	5992.0	5707.6
37.5°	7238.3	7386.0	7233.4	7141.9	6971.0	6816.0	6584.0	6487.6	6435.1	6353.3	6066.5
40°	7969.4	8053.7	7937.7	7859.6	7674.1	7431.2	7060.1	6856.2	6785.4	6706.1	6463.2
42.5°	8507.7	8588.3	8526.1	8472.3	8327.1	8045.1	7565.4	7310.3	7207.8	7118.7	6912.4
45°	8935.0	8994.8	8955.7	8975.2	8913.0	8639.6	8089.1	7797.3	7691.1	7582.5	7420.2
47.5°	9107.1	9170.5	9232.8	9348.8	9454.9	9253.5	8651.8	8324.7	8212.4	8101.3	7941.4
50°	9087.5	9152.2	9332.9	9579.5	9909.0	9841.9	9245.0	8886.1	8782.4	8655.4	8507.7
52.5°	8931.3	9004.5	9236.5	9646.6	10171.5	10282.5	9849.2	9465.9	9368.3	9216.9	9069.2
55°	8521.2	8565.1	8913.0	9494.0	10233.7	10590.1	10441.2	10083.6	9985.9	9774.8	9613.6
57.5°	7760.7	7824.2	8330.8	9082.7	10077.5	10798.9	10961.2	10732.9	10639.0	10335.0	10166.6
60°	6768.4	6869.7	7449.5	8391.8	9679.5	10797.6	11433.6	11371.3	11293.2	10886.7	10711.0
62.5°	5645.4	5762.6	6320.4	7415.3	8983.8	10491.3	11729.0	11906.0	11865.7	11395.7	11171.1
65°	4335.7	4416.2	4971.6	6151.9	7901.1	9833.3	11763.1	12270.9	12278.2	11782.7	11411.6
67.5°	2886.8	3118.7	3600.8	4616.4	6451.0	8758.0	11462.9	12330.7	12401.5	11915.7	11290.8
70°	1408.6	1713.8	2186.1	3000.3	4616.4	7108.9	10678.0	11840.0	11997.5	11527.6	10570.6
72.5°	584.7	683.5	941.1	1480.6	2650.0	4797.0	9101.0	10509.6	10801.3	10214.2	8887.4
75°	394.3	427.2	538.3	759.2	1207.2	2365.6	6563.3	7836.4	8306.3	7714.3	6305.7
77.5°	303.9	324.7	391.8	531.0	717.7	894.7	3513.0	4722.6	4965.5	4596.9	3281.0
80°	239.2	255.1	292.9	386.9	509.0	478.5	1197.4	2139.8	2280.1	1912.7	1054.6
82.5°	207.5	213.6	209.9	262.4	338.1	279.5	393.0	789.7	871.5	632.3	344.2
85°	150.1	167.2	174.5	162.3	179.4	141.6	161.1	279.5	307.6	274.6	194.1
87.5°	61.0	90.3	111.1	105.0	65.9	40.3	50.0	81.8	94.0	102.5	63.5
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: P884489
 CATALOG NUMBER: NVN-SB5B-827-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2576.7	2576.7	2576.7	2576.7	2576.7	2576.7	2576.7	2576.7	2576.7	2576.7	2576.7
2.5°	2579.2	2587.7	2593.8	2601.1	2606.0	2613.4	2628.0	2636.5	2637.8	2643.9	2642.6
5°	2602.4	2614.6	2628.0	2647.5	2669.5	2687.8	2715.9	2735.4	2742.7	2748.8	2747.6
7.5°	2652.4	2669.5	2693.9	2728.1	2759.8	2784.2	2818.4	2841.6	2864.8	2873.3	2874.6
10°	2726.9	2751.3	2786.7	2833.1	2867.2	2899.0	2934.4	2953.9	2977.1	2986.9	2991.7
12.5°	2819.6	2845.3	2891.7	2956.3	2988.1	3010.1	3022.3	3017.4	3022.3	3030.8	3033.2
15°	2925.8	2953.9	3006.4	3076.0	3097.9	3078.4	3051.6	3027.1	3023.5	3025.9	3034.5
17.5°	3051.6	3072.3	3133.3	3191.9	3176.1	3095.5	3036.9	2997.9	2978.3	2972.2	2980.8
20°	3227.3	3227.3	3277.4	3314.0	3207.8	3071.1	2979.5	2916.1	2875.8	2858.7	2855.0
22.5°	3440.9	3421.4	3453.1	3427.5	3201.7	3002.7	2875.8	2765.9	2704.9	2680.5	2676.8
25°	3711.9	3688.7	3680.2	3521.5	3157.8	2894.1	2687.8	2554.8	2501.1	2487.6	2490.1
27.5°	4120.8	4062.2	3951.2	3572.8	3077.2	2723.2	2468.1	2344.8	2314.3	2315.5	2319.2
30°	4665.2	4548.0	4275.8	3581.3	2945.4	2481.5	2243.5	2155.6	2141.0	2147.1	2167.8
32.5°	5169.3	5058.3	4607.9	3542.2	2742.7	2244.7	2042.1	1983.5	1961.5	1968.9	1978.6
35°	5564.8	5534.3	4915.5	3487.3	2493.7	2022.6	1861.5	1811.4	1768.7	1758.9	1766.2
37.5°	5938.3	5926.1	5146.1	3410.4	2247.2	1865.1	1716.2	1650.3	1588.0	1553.9	1555.1
40°	6348.5	6336.3	5297.5	3292.0	2028.7	1728.4	1585.6	1498.9	1422.0	1359.8	1365.9
42.5°	6809.9	6737.8	5369.5	3122.4	1843.1	1612.4	1479.4	1362.2	1260.9	1203.5	1207.2
45°	7314.0	7151.6	5368.3	2906.3	1686.9	1506.2	1365.9	1199.9	1105.9	1052.2	1049.7
47.5°	7848.6	7547.1	5302.4	2667.1	1535.5	1389.1	1190.1	1063.2	1000.9	968.0	960.6
50°	8400.3	7917.0	5190.1	2392.4	1380.5	1256.0	1080.3	993.6	946.0	915.5	904.5
52.5°	8919.1	8252.6	5054.6	2081.2	1223.1	1126.6	1031.4	964.3	914.2	880.1	865.4
55°	9401.2	8541.9	4863.0	1762.6	1094.9	1040.0	1008.2	952.1	894.7	854.4	838.6
57.5°	9829.7	8729.9	4532.2	1463.5	1003.4	980.2	983.8	931.3	865.4	831.2	809.3
60°	10186.1	8867.8	4042.7	1186.4	928.9	921.6	946.0	892.3	815.4	776.3	759.2
62.5°	10399.7	8865.4	3442.2	971.6	865.4	867.9	895.9	843.5	765.3	728.7	717.7
65°	10381.4	8648.1	2783.0	831.2	804.4	806.8	843.5	789.7	723.8	701.9	700.6
67.5°	10014.0	8118.4	2134.9	739.7	737.3	748.2	791.0	753.1	698.2	695.8	699.4
70°	9019.2	7018.6	1538.0	666.5	667.7	683.5	739.7	729.9	684.8	689.7	688.4
72.5°	7232.2	5351.2	1032.6	589.6	590.8	616.4	690.9	711.6	671.3	736.0	745.8
75°	4816.6	3337.2	664.0	507.8	509.0	542.0	648.2	676.2	634.7	733.6	739.7
77.5°	2314.3	1500.1	480.9	427.2	427.2	457.7	560.3	605.4	540.7	570.0	522.4
80°	799.5	563.9	378.4	344.2	336.9	357.6	472.4	524.9	466.3	429.7	402.8
82.5°	314.9	292.9	303.9	267.3	242.9	256.3	367.4	433.3	343.0	310.0	308.8
85°	180.7	190.4	214.8	177.0	140.4	157.5	269.8	311.3	258.8	228.3	233.1
87.5°	48.8	67.1	98.9	91.5	63.5	67.1	128.2	172.1	148.9	114.7	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)