

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: P964154

Luminaire Tested: **NVN-SB3B-827-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964154
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3B-827-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14968.1 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

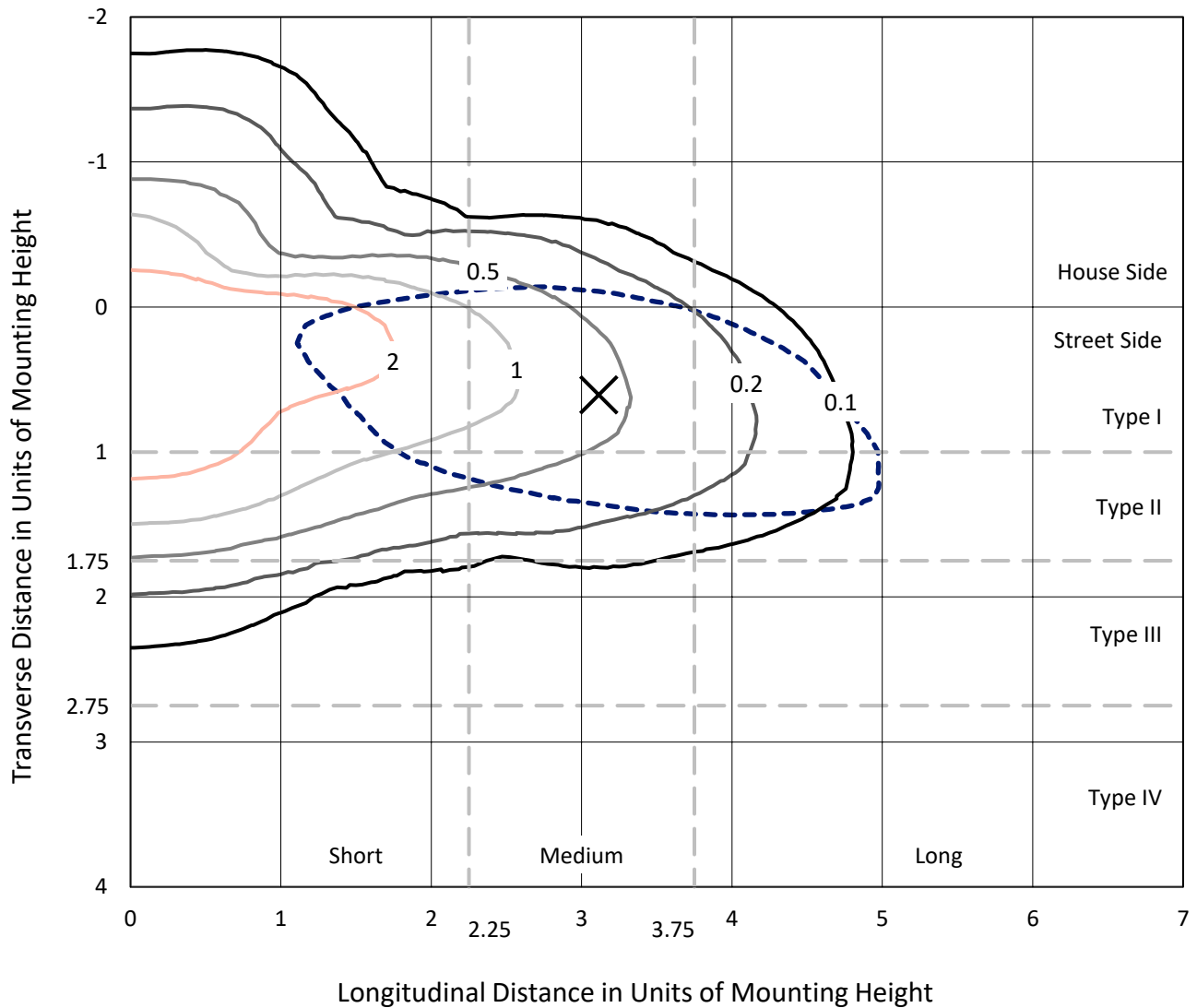
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

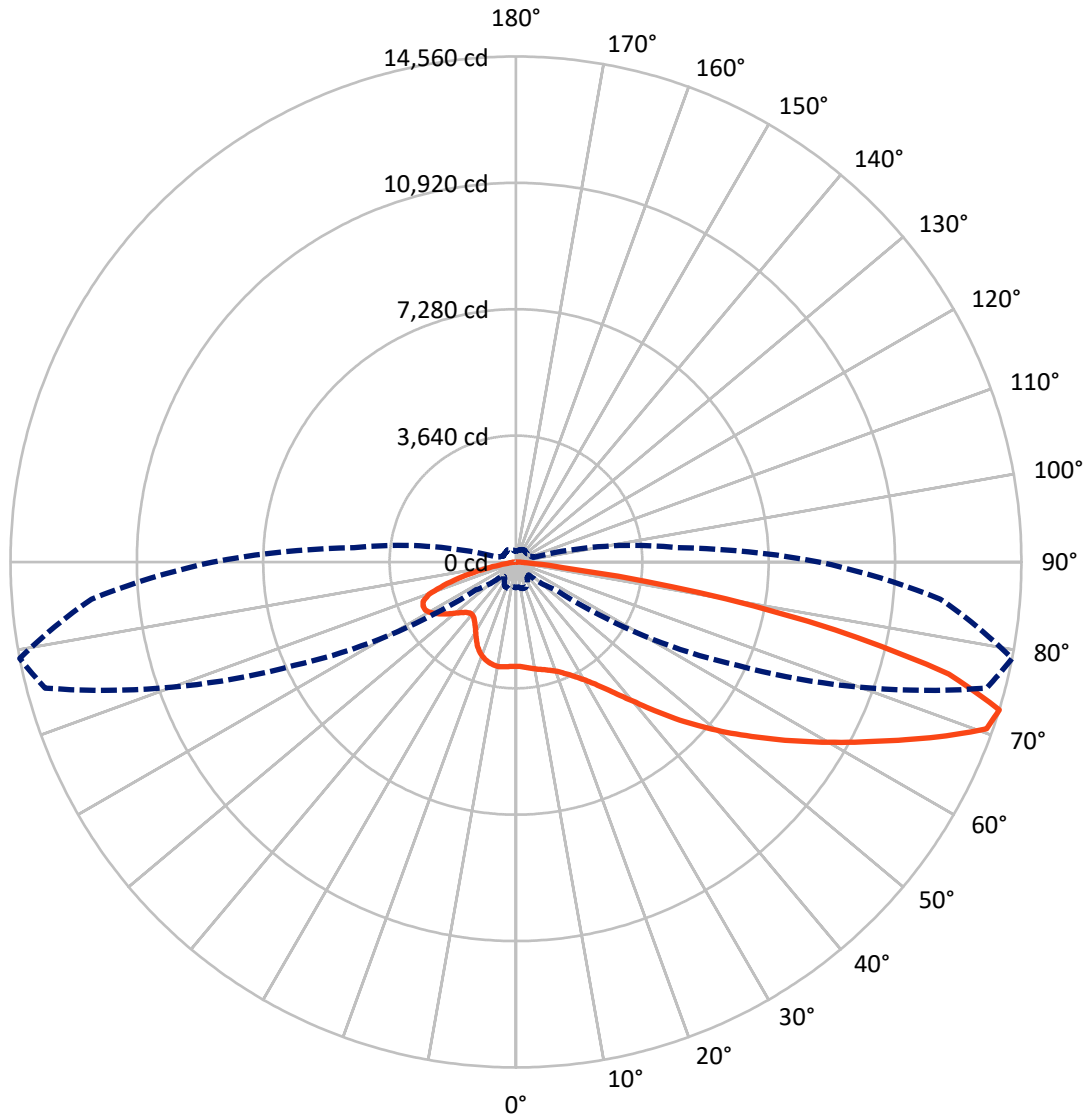
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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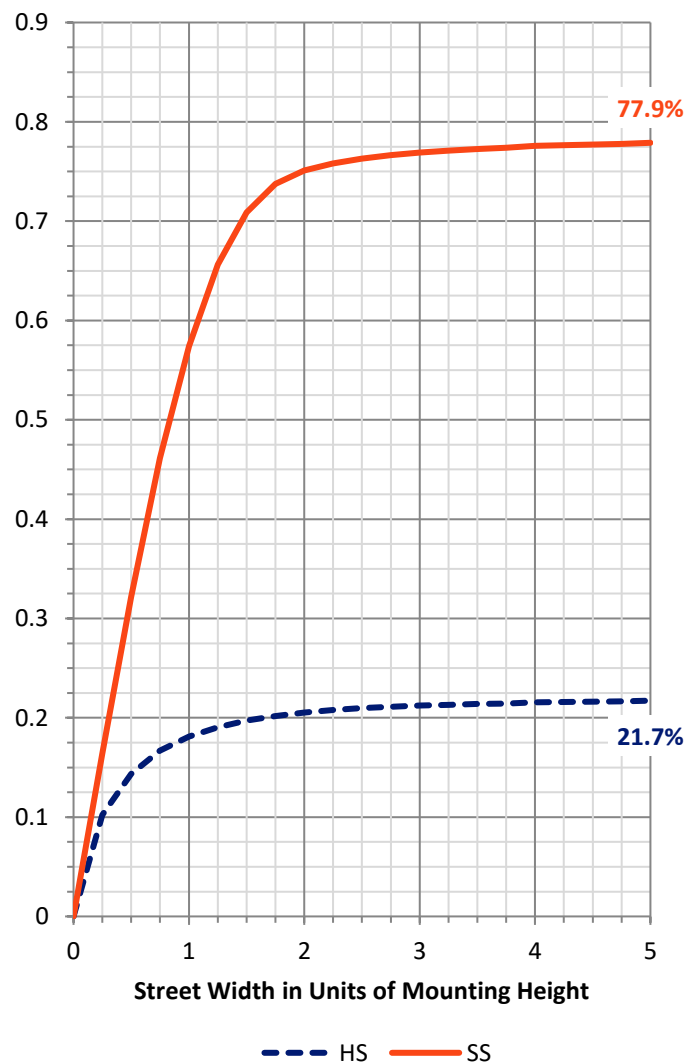
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3293.8	0.0	3293.8
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	11674.3	0.0	11674.3
	% Fixture	78.0	0.0	78.0
Total	Lumens	14968.1	0.0	14968.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.7	1.8
10°-20°	713.1	4.8
20°-30°	1150.6	7.7
30°-40°	1726.9	11.5
40°-50°	2449.7	16.4
50°-60°	3093.7	20.7
60°-70°	3142.0	21.0
70°-80°	2141.5	14.3
80°-90°	277.8	1.9
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°	14968.1	100.0
0°-180°	14968.1	100.0

Coefficient of Utilization



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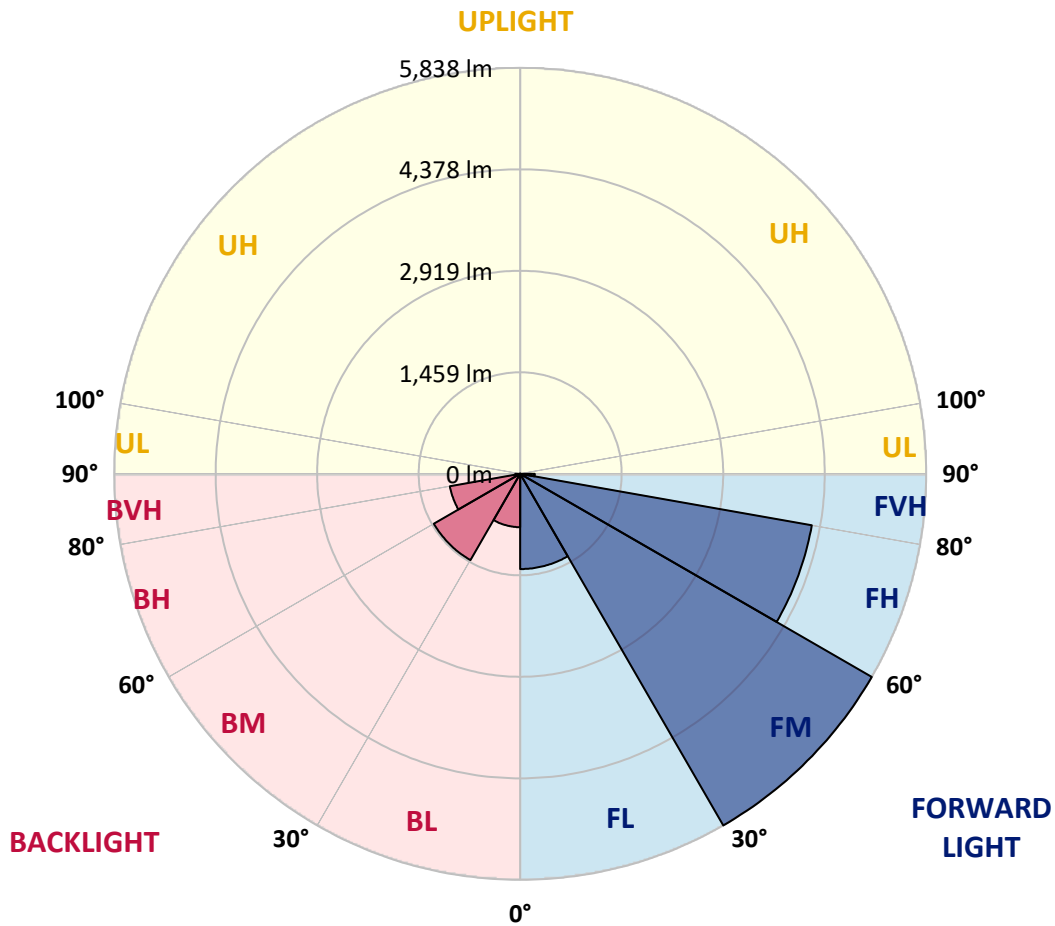
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1369.2	9.1			
FM (30°-60°)	5837.9	39.0			
FH (60°-80°)	4257.9	28.4			G2/5000
FVH (80°-90°)	209.3	1.4			G2/225
BL (0°-30°)	767.2	5.1	B2/1000		
BM (30°-60°)	1432.5	9.6	B2/2500		
BH (60°-80°)	1025.6	6.9	B3/2500		G3/2500
BVH (80°-90°)	68.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3004.7	3004.7	3004.7	3004.7	3004.7	3004.7	3004.7	3004.7	3004.7	3004.7	3004.7
2.5°	3006.3	2992.1	3000.8	2997.6	3001.5	3006.3	3007.9	3010.2	3018.1	3017.4	3016.6
5°	3000.0	2985.7	2997.6	2993.6	3003.9	3015.0	3024.5	3033.2	3045.9	3051.4	3043.5
7.5°	2986.4	2977.0	2988.9	3000.8	3019.8	3036.4	3049.8	3069.7	3087.8	3091.0	3096.5
10°	2908.1	2901.0	2928.7	2959.6	3011.9	3057.0	3086.3	3109.2	3129.0	3132.2	3140.1
12.5°	2826.5	2817.8	2848.7	2890.7	2975.4	3057.0	3118.7	3148.8	3166.2	3176.5	3188.4
15°	2813.1	2805.9	2823.4	2859.9	2930.3	3035.5	3140.9	3196.3	3211.3	3223.2	3227.9
17.5°	2878.0	2864.6	2871.6	2884.4	2925.6	3015.8	3158.3	3250.2	3273.1	3285.7	3285.7
20°	3028.5	3009.4	2998.3	2973.0	2965.9	3018.9	3156.7	3315.1	3345.2	3361.0	3365.0
22.5°	3228.7	3216.1	3192.4	3128.2	3058.5	3057.8	3186.8	3398.2	3454.5	3469.4	3460.0
25°	3471.1	3452.0	3422.0	3334.8	3201.1	3134.6	3237.5	3504.3	3598.5	3602.5	3574.8
27.5°	3749.8	3721.3	3680.1	3565.3	3384.8	3254.9	3315.1	3626.2	3764.0	3762.4	3705.4
30°	4043.5	4014.9	3971.5	3832.1	3604.8	3417.2	3422.8	3757.6	3960.3	3951.7	3854.2
32.5°	4258.1	4236.6	4227.9	4120.3	3858.2	3608.8	3546.3	3903.3	4202.6	4194.7	4058.5
35°	4422.8	4395.0	4405.3	4350.7	4134.5	3823.4	3697.5	4076.7	4497.2	4496.4	4326.9
37.5°	4585.8	4561.2	4570.0	4533.6	4390.3	4095.7	3882.0	4288.9	4862.2	4879.6	4651.6
40°	4734.7	4708.5	4743.4	4709.4	4589.0	4385.6	4091.8	4528.9	5284.9	5318.2	5044.2
42.5°	4824.2	4803.6	4861.4	4862.2	4761.6	4630.1	4322.2	4793.3	5774.2	5848.6	5527.2
45°	4855.0	4847.9	4935.0	4953.2	4914.4	4771.9	4529.6	5081.4	6301.6	6434.5	6077.5
47.5°	4821.8	4808.3	4928.6	4996.0	5026.8	4838.4	4701.5	5393.4	6839.9	7034.7	6677.7
50°	4653.9	4627.8	4806.7	4948.5	5058.5	4882.0	4874.8	5753.6	7452.0	7664.9	7281.0
52.5°	4352.3	4332.5	4535.9	4782.1	4988.9	4903.3	5069.5	6147.1	8033.1	8308.6	7899.3
55°	3966.6	3940.5	4164.6	4486.1	4815.4	4896.2	5264.4	6587.4	8718.8	8998.3	8538.2
57.5°	3355.4	3303.2	3586.7	3966.6	4532.8	4887.5	5467.0	7025.2	9415.5	9750.4	9220.0
60°	2463.9	2386.3	2733.9	3184.5	3980.2	4802.7	5718.1	7516.1	10251.6	10553.3	9964.2
62.5°	1434.7	1389.5	1616.7	2037.2	3000.0	4304.0	5859.0	8086.9	11073.5	11390.1	10695.8
65°	1114.0	1101.4	1121.1	1153.5	1669.8	3222.4	5424.3	8643.5	12118.6	12340.3	11458.3
67.5°	1019.0	1009.5	1018.2	957.2	847.2	1794.9	4291.3	8784.5	13238.1	13372.7	12125.6
70°	905.8	894.7	923.2	870.9	666.7	816.3	2772.7	8273.0	14128.8	14381.4	12633.2
72.5°	737.9	725.3	791.7	768.0	561.4	524.2	1392.7	7057.6	14035.4	14559.5	12269.8
75°	566.9	559.8	639.0	658.8	457.7	412.5	668.2	5246.2	12351.4	12879.4	10574.6
77.5°	440.2	434.7	475.1	547.1	369.0	319.9	410.9	3327.8	9307.8	9400.5	7287.2
80°	330.2	314.4	351.6	423.6	287.4	233.6	278.7	1940.6	5883.5	5333.3	3171.8
82.5°	206.6	198.7	229.6	282.7	202.6	160.7	181.3	1072.0	2357.8	1388.8	612.0
85°	118.0	114.8	125.0	161.5	110.1	92.7	103.7	473.4	430.7	296.1	184.5
87.5°	47.5	45.9	57.0	72.1	40.4	34.0	36.4	114.0	95.0	87.8	61.0
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°	3004.7	3004.7	3004.7	3004.7	3004.7	3004.7	3004.7	3004.7	3004.7	3004.7	3004.7
2.5°	3013.4	3013.4	3002.3	2984.9	2965.1	2952.4	2931.8	2926.3	2905.0	2898.6	2908.8
5°	3049.8	3043.5	3009.4	2960.4	2893.1	2831.3	2763.2	2720.5	2660.3	2638.9	2654.7
7.5°	3095.7	3078.4	3019.8	2912.0	2771.1	2632.6	2488.5	2379.2	2274.7	2237.5	2242.3
10°	3137.7	3113.1	3013.4	2825.0	2581.2	2341.2	2111.6	1950.9	1828.9	1779.1	1790.2
12.5°	3179.7	3134.6	2971.5	2680.1	2311.2	1985.7	1741.1	1616.0	1540.8	1480.6	1500.4
15°	3219.2	3155.9	2906.5	2486.1	2015.0	1684.9	1504.3	1404.6	1344.4	1304.8	1311.9
17.5°	3265.1	3174.1	2809.1	2239.8	1733.2	1476.6	1329.3	1269.2	1257.3	1252.6	1255.7
20°	3329.3	3190.7	2680.9	1964.3	1525.7	1310.4	1234.3	1228.8	1228.1	1225.6	1233.6
22.5°	3398.2	3210.5	2511.5	1714.1	1349.1	1206.6	1193.2	1182.1	1175.0	1174.1	1182.8
25°	3479.8	3216.9	2299.3	1509.1	1198.7	1157.5	1141.7	1125.0	1120.3	1120.3	1125.0
27.5°	3558.9	3195.5	2052.3	1331.0	1114.0	1112.4	1091.8	1086.3	1085.5	1087.8	1094.2
30°	3638.1	3155.2	1806.8	1166.2	1064.9	1064.9	1057.8	1061.7	1064.9	1072.9	1078.4
32.5°	3744.9	3112.4	1601.7	1044.3	1022.1	1014.2	1021.3	1029.3	1032.5	1042.7	1051.4
35°	3901.8	3082.3	1438.6	977.8	977.8	967.5	971.5	969.9	962.8	958.1	969.1
37.5°	4109.2	3080.7	1304.0	946.9	940.6	939.0	939.8	929.5	901.8	868.6	869.3
40°	4358.6	3123.5	1200.3	925.6	920.8	930.3	925.6	897.8	821.8	764.0	762.5
42.5°	4693.5	3245.4	1133.8	899.4	913.7	925.6	906.5	810.8	759.3	720.5	718.9
45°	5087.8	3443.3	1099.7	871.8	900.3	914.5	822.7	780.6	739.5	692.8	689.6
47.5°	5534.4	3692.8	1091.8	845.6	870.1	878.8	787.0	768.0	721.3	670.7	666.7
50°	6020.4	3988.1	1113.3	814.7	826.6	796.5	775.1	757.7	709.4	659.5	653.9
52.5°	6523.2	4313.5	1156.0	772.7	783.0	749.8	770.4	755.3	702.3	635.0	630.3
55°	7017.3	4641.2	1197.1	723.6	738.7	707.9	757.0	745.8	669.8	593.8	589.9
57.5°	7519.3	4967.5	1237.5	680.1	696.0	667.5	735.5	720.5	633.4	555.9	554.2
60°	8041.0	5284.2	1256.5	638.2	649.2	630.3	703.0	676.9	592.2	517.0	514.7
62.5°	8529.5	5547.8	1225.6	596.1	603.3	595.4	660.3	625.5	551.0	473.4	472.6
65°	9019.6	5704.5	1130.6	555.0	556.6	552.7	600.1	570.1	502.8	435.4	430.7
67.5°	9463.8	5792.5	979.4	510.7	506.8	505.1	544.0	509.9	456.0	397.5	392.7
70°	9558.0	5569.1	748.2	458.4	458.4	454.5	482.2	447.3	404.6	357.1	355.5
72.5°	8729.8	4684.8	531.3	399.0	405.4	397.5	420.5	391.1	352.3	320.6	311.2
75°	7039.5	3435.4	386.4	338.0	349.1	335.7	357.1	336.5	303.2	302.5	272.3
77.5°	4836.8	2124.3	280.2	278.7	286.6	269.2	293.8	282.7	252.6	239.1	224.1
80°	2064.1	847.2	204.3	215.4	215.4	199.6	228.1	231.2	205.1	198.7	198.7
82.5°	410.9	240.7	143.3	148.0	139.3	134.6	161.5	179.0	247.0	274.7	275.5
85°	123.5	88.7	86.3	80.8	71.2	72.1	95.0	179.7	221.7	126.7	109.3
87.5°	34.0	22.1	23.0	18.2	15.1	19.8	32.5	136.2	74.4	31.7	27.0
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)