

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: P967847

Luminaire Tested: **NVN-SB5A-827-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967847
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: STREETWORKS
Catalog Number: NVN-SB5A-827-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 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: 20020.3 lumens
Efficiency: N/A
Efficacy: 141.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

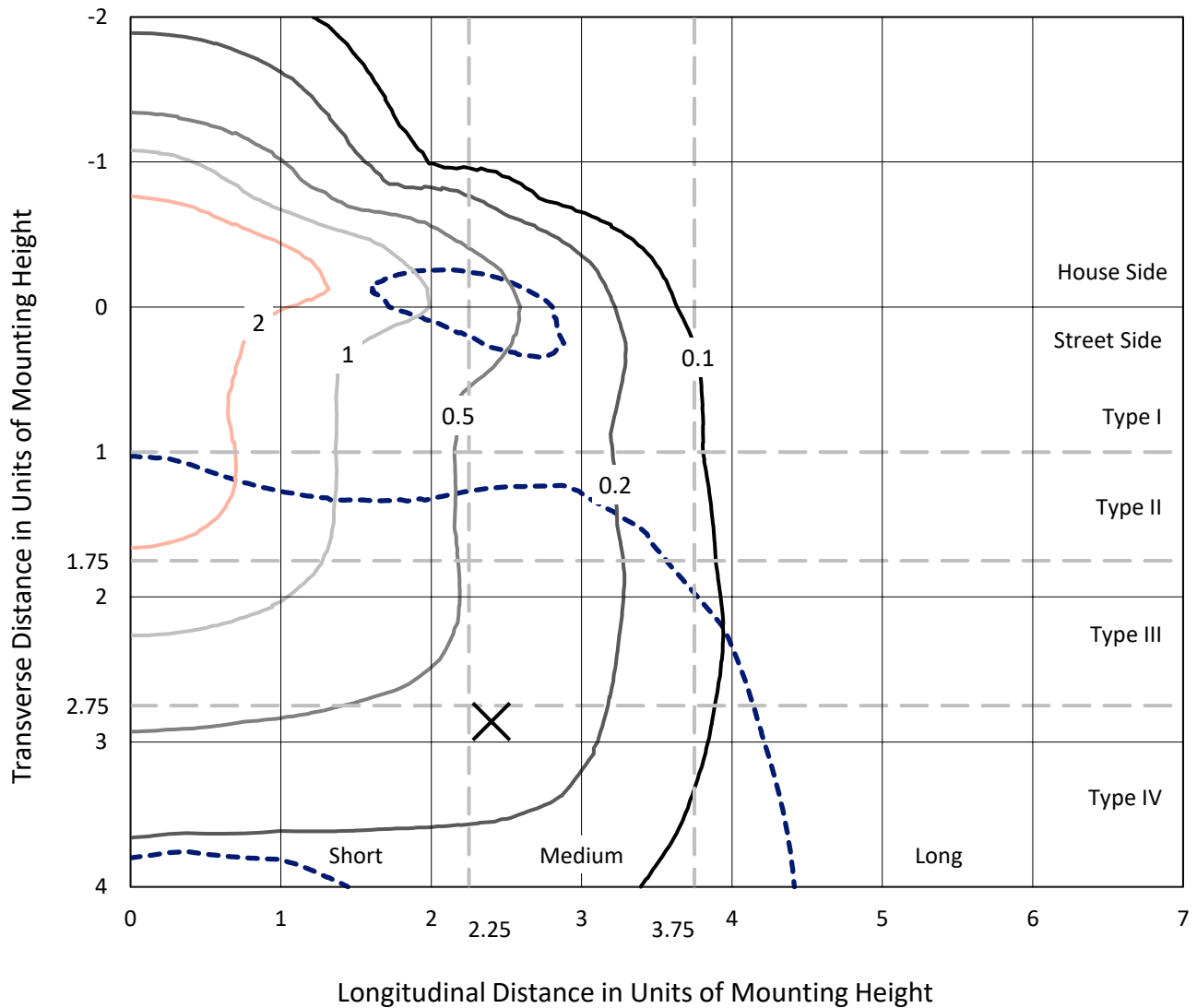
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P967847
 CATALOG NUMBER: NVN-SB5A-827-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

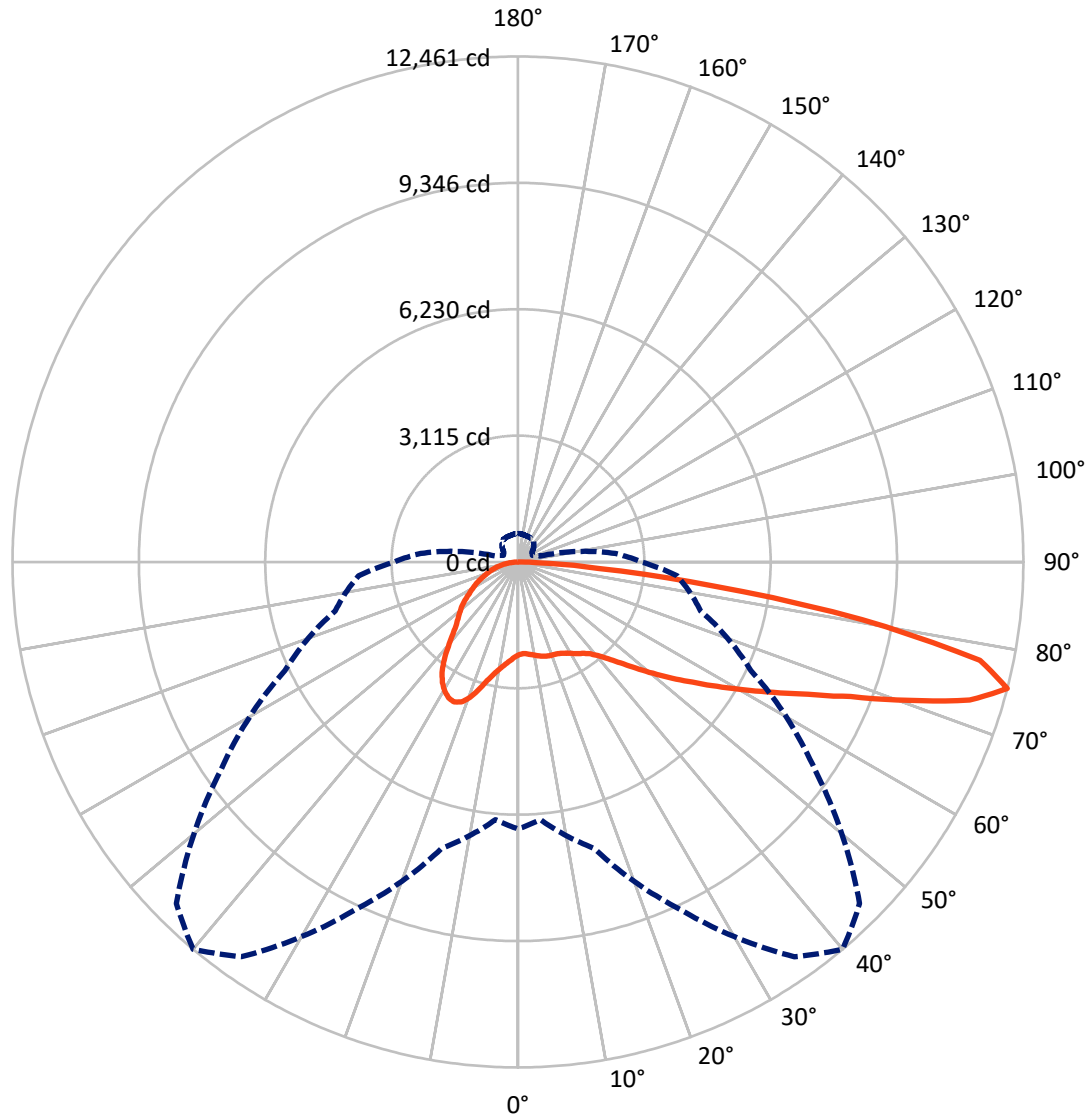
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Medium - N/A

REPORT NUMBER: P967847
CATALOG NUMBER: NVN-SB5A-827-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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 CATALOG NUMBER: NVN-SB5A-827-U-SL4

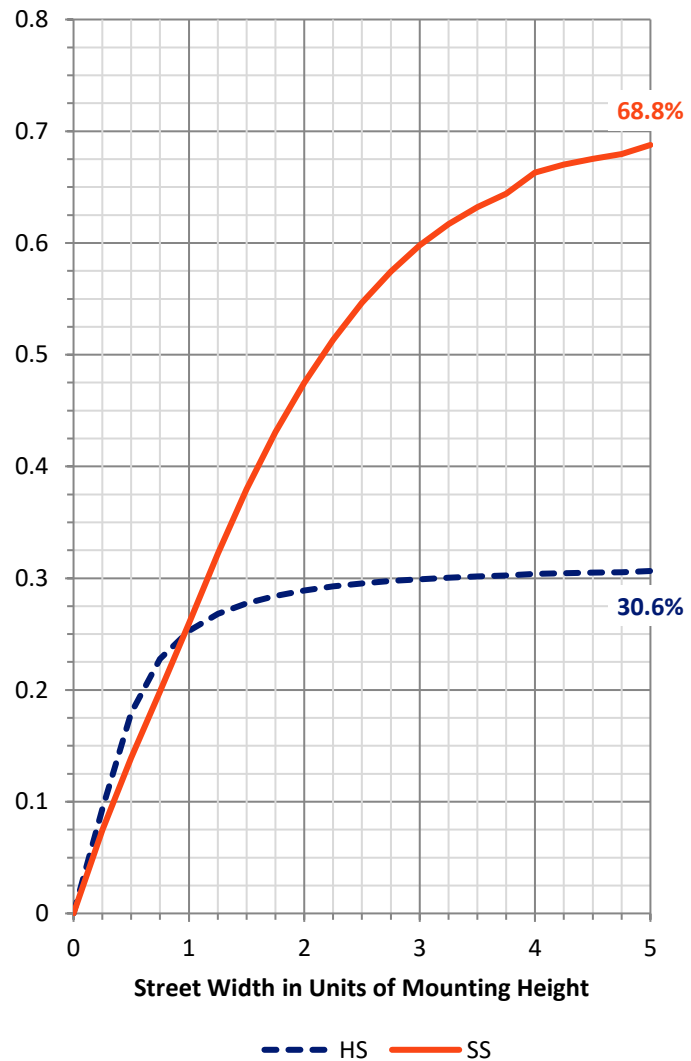
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6202.9	0.0	6202.9
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	13817.4	0.0	13817.4
	% Fixture	69.0	0.0	69.0
Total	Lumens	20020.3	0.0	20020.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.5	1.1
10°-20°	767.2	3.8
20°-30°	1400.9	7.0
30°-40°	1986.9	9.9
40°-50°	2682.9	13.4
50°-60°	3609.2	18.0
60°-70°	4581.0	22.9
70°-80°	4157.5	20.8
80°-90°	606.0	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°	20020.3	100.0
0°-180°	20020.3	100.0



REPORT NUMBER: P967847

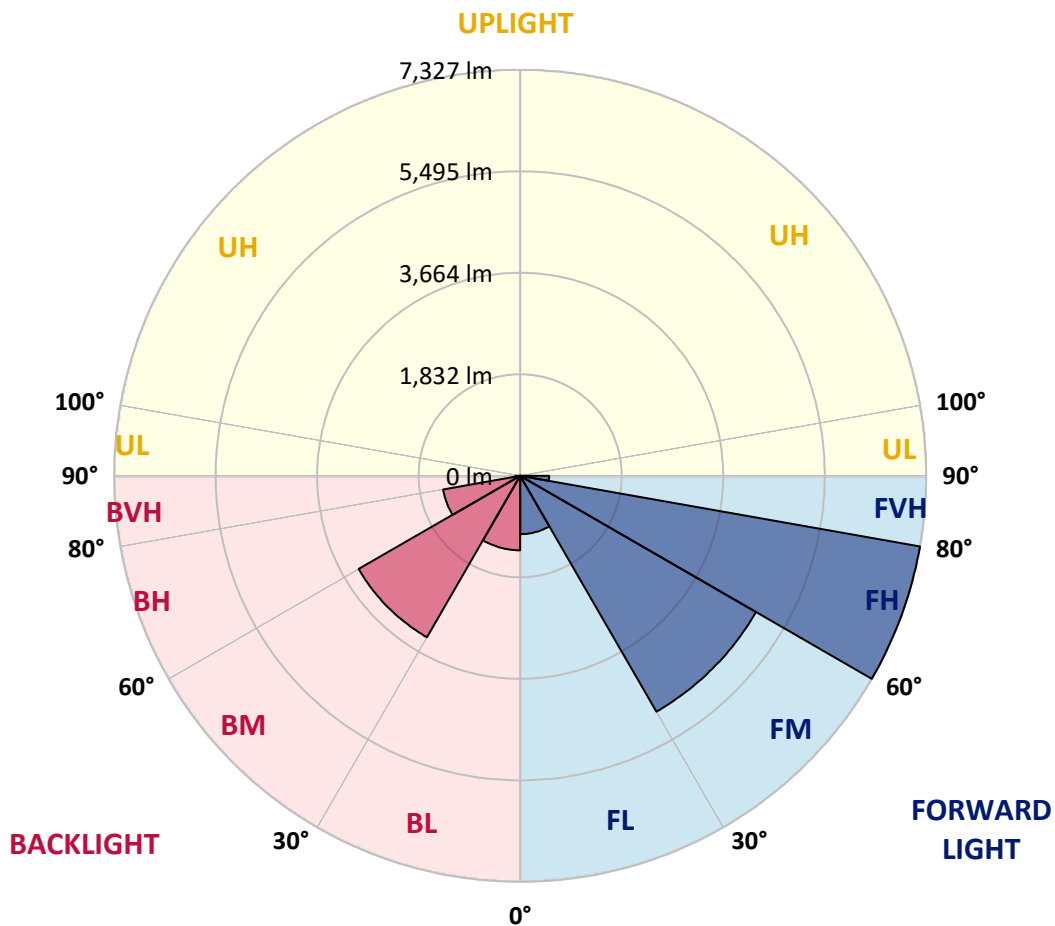
CATALOG NUMBER: NVN-SB5A-827-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1053.1	5.3			
FM (30°-60°)	4914.5	24.5			
FH (60°-80°)	7327.1	36.6			G3/7500
FVH (80°-90°)	522.6	2.6			G4/750
BL (0°-30°)	1343.6	6.7	B3/2500		
BM (30°-60°)	3364.5	16.8	B3/5000		
BH (60°-80°)	1411.4	7.0	B3/2500		G3/2500
BVH (80°-90°)	83.4	0.4			G1/100
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: P967847

CATALOG NUMBER: NVN-SB5A-827-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2289.3	2289.3	2289.3	2289.3	2289.3	2289.3	2289.3	2289.3	2289.3	2289.3	2289.3
2.5°	2254.3	2267.1	2263.8	2259.6	2259.6	2260.6	2259.6	2267.1	2274.5	2282.0	2293.6
5°	2277.7	2290.4	2284.0	2278.8	2274.5	2273.4	2270.3	2269.1	2273.4	2283.0	2298.9
7.5°	2323.4	2336.1	2326.5	2316.9	2308.5	2304.2	2300.0	2293.6	2290.4	2295.7	2318.0
10°	2374.3	2387.0	2375.3	2358.3	2344.6	2339.3	2335.1	2328.6	2324.4	2327.6	2352.0
12.5°	2425.3	2438.0	2422.1	2398.7	2380.7	2377.5	2372.2	2370.0	2369.0	2368.0	2392.4
15°	2473.0	2483.7	2463.5	2435.9	2416.7	2411.4	2406.2	2409.4	2414.7	2421.0	2448.6
17.5°	2510.2	2520.8	2491.1	2455.0	2436.9	2434.8	2431.6	2442.3	2457.1	2473.0	2507.0
20°	2544.2	2554.8	2516.6	2467.7	2446.5	2446.5	2447.6	2469.8	2491.1	2514.4	2561.2
22.5°	2592.0	2600.4	2553.8	2486.9	2456.1	2458.2	2466.7	2489.0	2515.6	2547.3	2612.1
25°	2663.2	2669.5	2612.1	2522.9	2487.9	2494.2	2501.7	2512.4	2537.8	2575.0	2662.0
27.5°	2777.7	2783.1	2707.7	2586.7	2533.6	2544.2	2554.8	2547.3	2559.0	2590.9	2702.4
30°	2939.2	2942.4	2846.8	2686.5	2611.1	2616.4	2618.6	2587.7	2565.5	2590.9	2731.1
32.5°	3130.4	3129.2	3015.7	2807.6	2699.2	2693.9	2675.9	2615.3	2563.3	2585.6	2756.5
35°	3426.6	3414.9	3268.4	2977.4	2799.1	2766.2	2723.6	2646.1	2573.9	2580.3	2778.9
37.5°	3917.1	3881.1	3678.2	3255.6	2947.7	2863.8	2801.1	2696.1	2597.2	2578.2	2805.4
40°	4470.4	4424.7	4201.8	3636.8	3170.6	3035.8	2935.0	2767.2	2635.5	2587.7	2844.7
42.5°	5126.6	5061.9	4821.9	4086.0	3453.1	3257.8	3106.0	2857.4	2691.8	2618.6	2897.8
45°	5932.6	5846.5	5506.7	4592.5	3808.9	3548.7	3345.9	2994.4	2777.7	2678.0	2977.4
47.5°	6747.0	6768.3	6285.1	5172.3	4235.7	3907.6	3646.4	3200.5	2903.1	2773.5	3106.0
50°	7612.4	7627.2	7059.2	5814.7	4719.9	4313.2	3984.1	3430.9	3077.3	2909.5	3298.1
52.5°	8287.7	8289.9	7762.1	6486.8	5224.3	4759.2	4348.3	3694.2	3279.0	3090.0	3554.0
55°	8710.3	8705.0	8254.8	7122.9	5804.1	5227.5	4751.8	3993.6	3525.4	3302.3	3875.7
57.5°	9017.2	9001.3	8594.6	7669.8	6422.0	5780.7	5208.3	4333.4	3816.3	3555.1	4299.5
60°	9134.0	9124.4	8825.0	8142.3	7071.9	6392.3	5735.1	4713.6	4146.5	3853.5	4844.2
62.5°	9178.7	9196.7	9051.2	8600.0	7767.4	7069.8	6313.8	5168.0	4518.2	4191.1	5418.7
65°	9335.8	9368.7	9339.0	9198.8	8553.2	7863.0	7081.5	5708.5	4923.8	4553.3	6018.6
67.5°	9646.9	9679.8	9692.6	9915.5	9513.1	8851.6	8039.3	6381.8	5398.5	4929.1	6469.8
70°	9639.5	9629.9	9855.1	10485.8	10715.1	10220.3	9330.5	7210.0	5964.4	5241.3	6527.2
72.5°	8774.1	8697.6	9229.6	10479.4	11715.3	11649.5	10907.3	8278.2	6452.9	5279.5	5663.9
75°	6582.4	6378.6	7318.3	9444.0	11882.1	12460.8	11909.7	8940.8	6337.2	4664.7	3941.5
77.5°	2815.0	2610.1	3717.6	6991.2	10634.4	11648.5	10990.2	7800.4	5058.7	3084.6	1935.7
80°	736.9	735.8	1123.4	3169.6	7232.3	8602.0	7546.6	5037.5	2890.4	1102.2	534.1
82.5°	304.7	297.4	413.1	1232.8	3533.8	4827.1	3939.5	2246.9	1043.8	298.4	177.3
85°	113.6	112.5	200.7	425.8	1246.6	1991.0	1440.9	574.4	260.1	145.4	79.6
87.5°	31.9	30.7	43.6	147.6	303.7	460.8	246.3	94.5	73.3	57.3	23.4
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: P967847
 CATALOG NUMBER: NVN-SB5A-827-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2289.3	2289.3	2289.3	2289.3	2289.3	2289.3	2289.3	2289.3	2289.3	2289.3	2289.3
2.5°	2296.8	2302.0	2311.7	2319.1	2328.6	2339.3	2354.1	2363.6	2373.3	2379.6	2375.3
5°	2306.4	2318.0	2342.4	2366.8	2395.5	2422.1	2452.8	2475.2	2493.2	2498.5	2500.7
7.5°	2327.6	2346.7	2388.1	2429.6	2475.2	2518.7	2563.3	2601.6	2632.3	2644.0	2645.1
10°	2364.8	2390.2	2448.6	2507.0	2567.5	2634.5	2691.8	2747.0	2790.6	2808.6	2809.6
12.5°	2411.4	2443.3	2519.8	2600.4	2684.4	2776.7	2851.0	2919.0	2973.2	2997.6	2997.6
15°	2472.0	2513.4	2611.1	2719.4	2842.5	2971.1	3065.6	3140.9	3201.5	3231.2	3229.1
17.5°	2537.8	2593.0	2716.2	2879.7	3056.0	3224.9	3335.2	3390.5	3453.1	3481.8	3480.7
20°	2601.6	2669.5	2845.7	3083.6	3318.2	3497.7	3586.9	3601.7	3606.1	3609.2	3617.7
22.5°	2667.4	2758.7	3008.2	3340.6	3592.2	3716.4	3729.3	3665.5	3576.3	3534.9	3546.6
25°	2739.6	2860.7	3220.5	3624.1	3828.0	3842.8	3745.1	3590.2	3421.2	3343.8	3355.4
27.5°	2809.6	2978.4	3475.5	3894.9	3997.9	3867.2	3657.0	3437.2	3233.4	3151.6	3161.1
30°	2879.7	3113.3	3756.8	4131.7	4075.4	3806.7	3517.9	3272.6	3067.7	2981.7	2991.3
32.5°	2950.9	3270.5	4080.7	4302.6	4061.6	3678.2	3344.8	3087.8	2907.3	2817.1	2828.8
35°	3031.5	3463.8	4387.5	4396.0	3969.2	3489.2	3116.5	2867.0	2709.8	2637.6	2653.5
37.5°	3136.7	3709.1	4658.3	4419.4	3807.8	3212.1	2833.0	2605.8	2476.2	2443.3	2466.7
40°	3267.3	4004.3	4865.4	4382.3	3568.8	2875.5	2522.9	2341.4	2268.1	2275.5	2301.0
42.5°	3437.2	4334.5	5010.9	4286.7	3236.5	2528.3	2251.1	2170.4	2205.5	2235.2	2262.8
45°	3658.1	4677.5	5101.1	4124.2	2860.7	2234.1	2090.8	2109.9	2136.4	2139.6	2160.9
47.5°	3940.5	5024.7	5160.6	3878.9	2477.3	2027.0	1988.8	1993.1	1987.8	1965.4	1982.5
50°	4293.0	5362.4	5213.7	3554.0	2151.3	1897.5	1846.5	1831.7	1758.4	1686.2	1695.8
52.5°	4694.4	5672.3	5236.0	3150.5	1897.5	1789.2	1706.4	1612.9	1476.0	1453.7	1461.1
55°	5140.4	5959.1	5178.6	2654.6	1684.1	1650.1	1524.8	1412.2	1397.4	1378.3	1381.5
57.5°	5673.5	6268.1	5061.9	2101.4	1465.3	1487.7	1365.5	1378.3	1351.8	1322.0	1316.7
60°	6256.4	6587.7	4856.9	1597.1	1239.2	1284.8	1324.1	1323.1	1315.6	1291.2	1282.7
62.5°	6781.0	6798.0	4453.4	1223.2	1040.6	1127.7	1234.9	1233.9	1227.5	1213.7	1208.4
65°	7093.2	6766.1	3780.2	963.1	877.1	998.1	1113.9	1122.4	1123.4	1122.4	1122.4
67.5°	7038.0	6393.4	2856.4	766.7	742.2	866.4	993.9	1005.5	1014.0	1016.2	1018.3
70°	6413.5	5574.7	1862.5	611.6	622.3	750.7	880.3	892.0	899.4	907.8	912.1
72.5°	4999.2	4098.8	1066.1	494.9	517.1	650.9	767.7	781.6	785.8	801.7	808.1
75°	3046.4	2410.4	575.5	389.7	424.8	556.4	656.2	672.2	679.6	698.7	700.8
77.5°	1448.3	1043.8	328.1	303.7	341.9	454.5	554.3	572.4	552.2	562.8	554.3
80°	489.5	387.6	207.0	231.4	261.2	354.6	443.8	461.9	419.4	417.3	413.1
82.5°	171.0	157.1	131.7	154.0	168.8	253.8	335.6	359.0	312.2	311.1	296.2
85°	66.9	63.8	73.3	83.8	100.9	156.1	220.9	232.6	192.2	155.0	152.9
87.5°	13.8	14.9	18.0	19.1	30.7	54.1	79.6	97.7	77.5	65.8	60.5
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)