

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: P964685

Luminaire Tested: **NVN-SB3C-827-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P964685  
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-SB3C-827-U-SL4  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

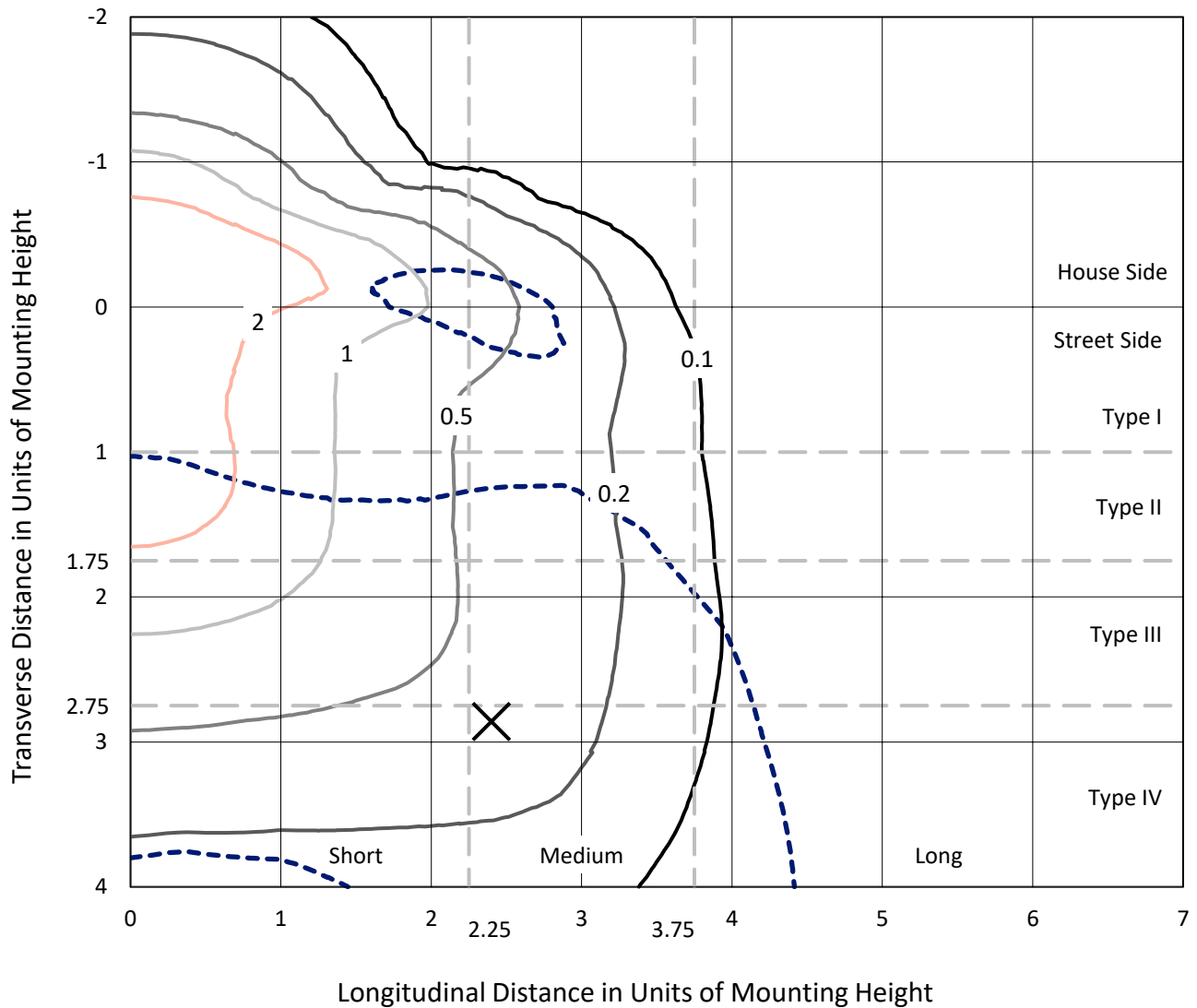
Lumens per Lamp: N/A  
Luminaire Lumens: 19852.2 lumens  
Efficiency: N/A  
Efficacy: 133.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P964685  
 CATALOG NUMBER: NVN-SB3C-827-U-SL4

### Iso-Footcandle Lines of Horizontal Illumination

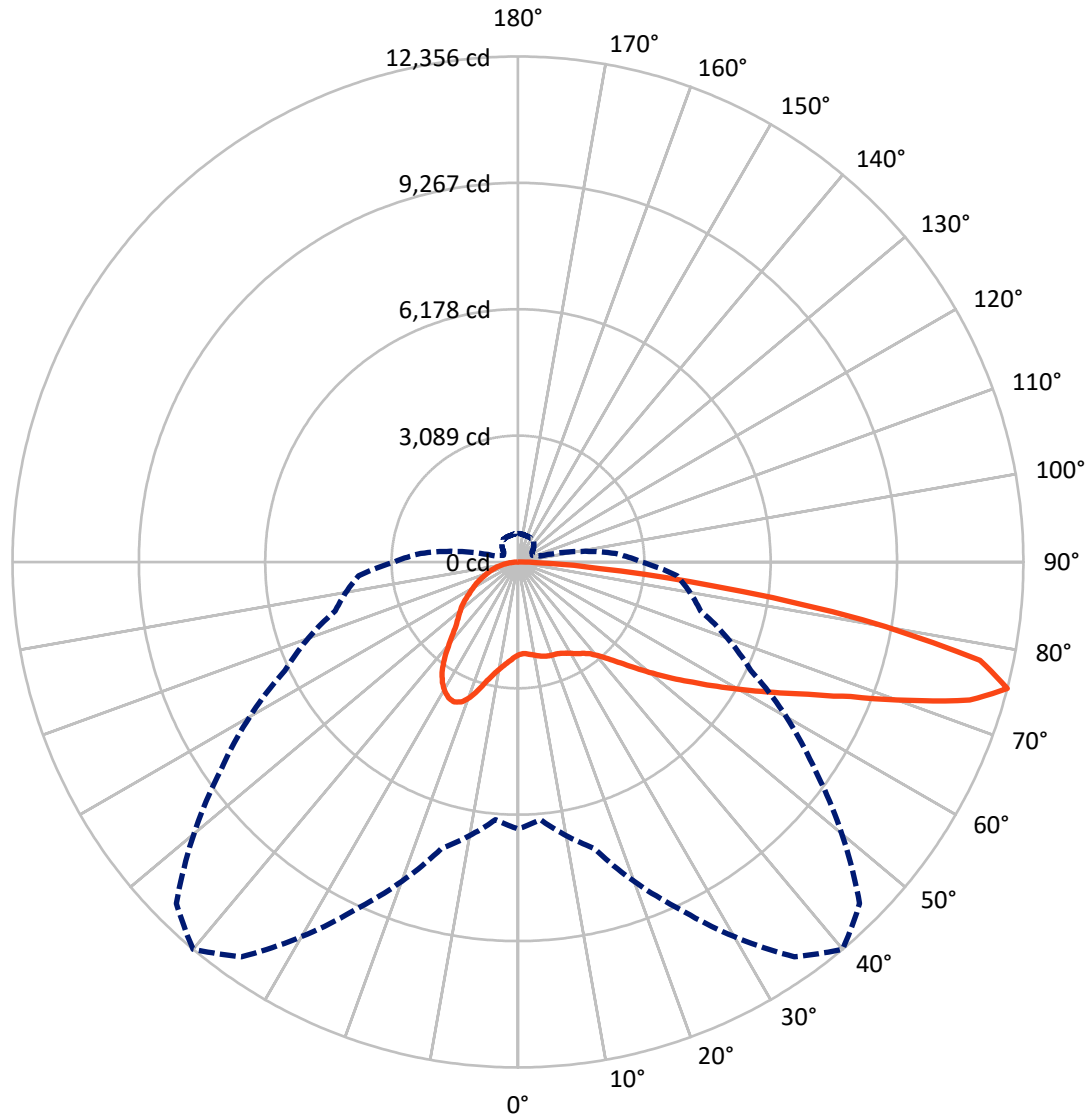
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P964685  
CATALOG NUMBER: NVN-SB3C-827-U-SL4

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P964685  
 CATALOG NUMBER: NVN-SB3C-827-U-SL4

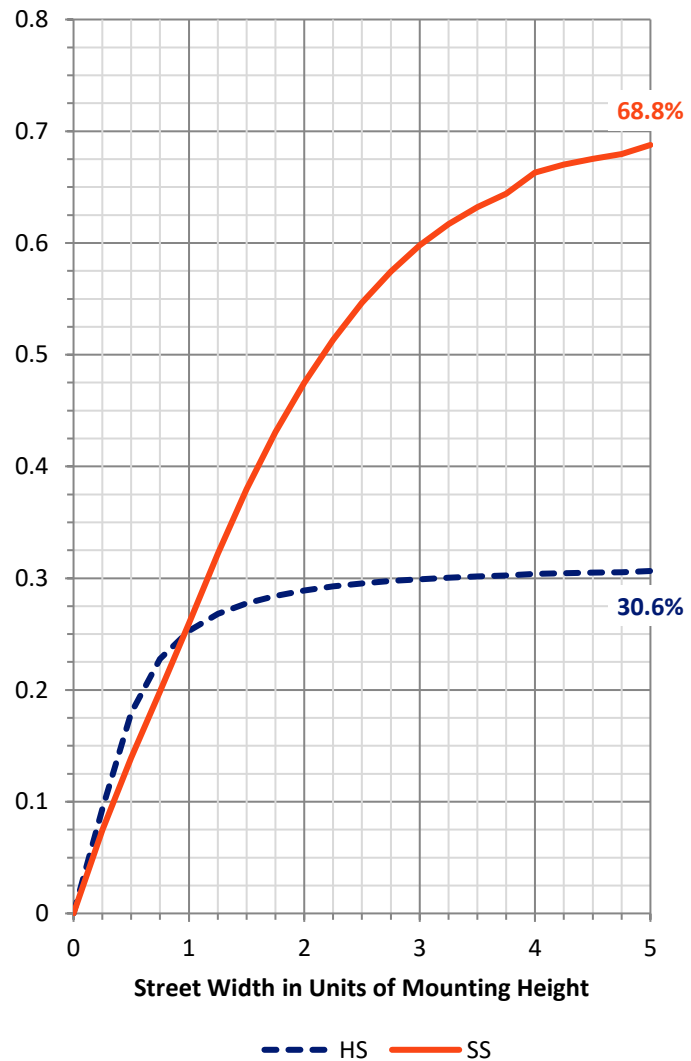
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6150.9	0.0	6150.9
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	13701.3	0.0	13701.3
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	19852.2	0.0	19852.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.6	1.1
10°-20°	760.8	3.8
20°-30°	1389.2	7.0
30°-40°	1970.2	9.9
40°-50°	2660.4	13.4
50°-60°	3578.9	18.0
60°-70°	4542.5	22.9
70°-80°	4122.6	20.8
80°-90°	600.9	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°	19852.2	100.0
0°-180°	19852.2	100.0

**Coefficient of Utilization**



REPORT NUMBER: P964685

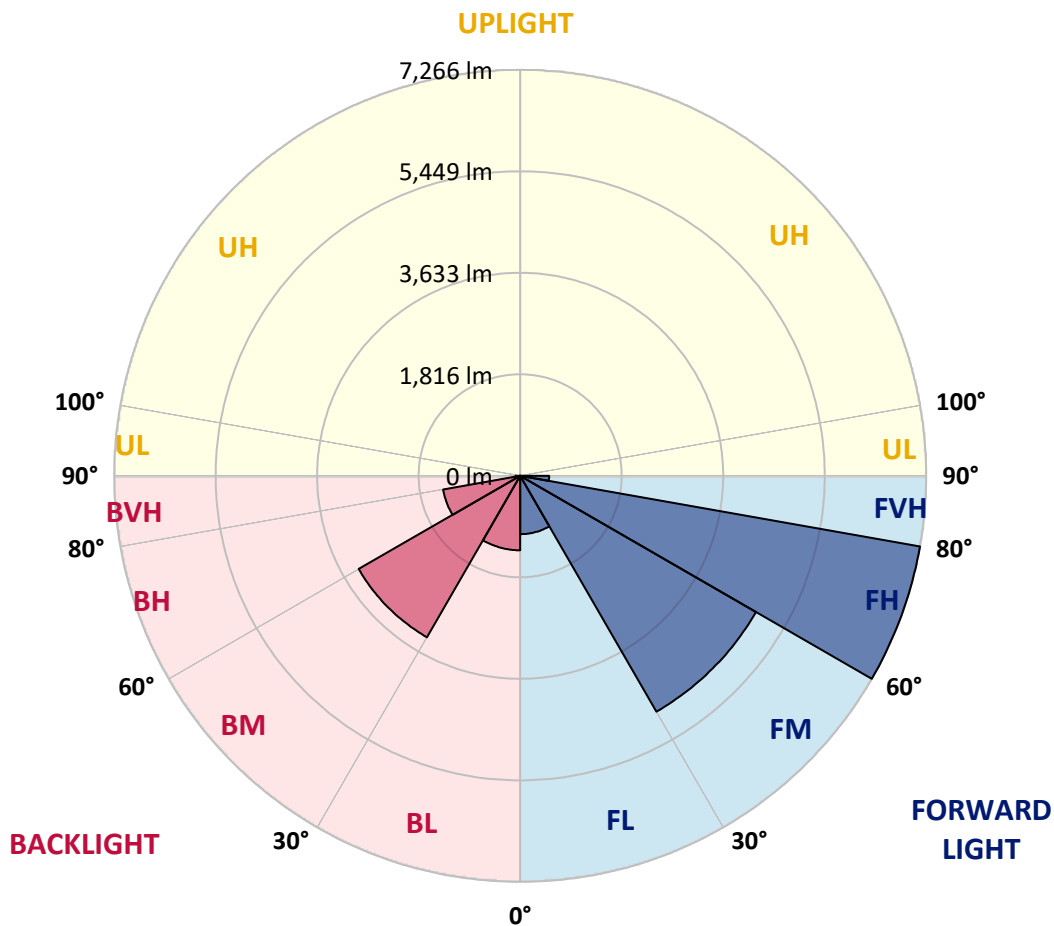
CATALOG NUMBER: NVN-SB3C-827-U-SL4

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1044.2	5.3			
FM (30°-60°)	4873.3	24.5			
FH (60°-80°)	7265.6	36.6			G3/7500
FVH (80°-90°)	518.2	2.6			G4/750
BL (0°-30°)	1332.3	6.7	B3/2500		
BM (30°-60°)	3336.3	16.8	B3/5000		
BH (60°-80°)	1399.5	7.0	B3/2500		G3/2500
BVH (80°-90°)	82.7	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: P964685  
 CATALOG NUMBER: NVN-SB3C-827-U-SL4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2270.2	2270.2	2270.2	2270.2	2270.2	2270.2	2270.2	2270.2	2270.2	2270.2	2270.2
2.5°	2235.4	2248.0	2244.9	2240.6	2240.6	2241.7	2240.6	2248.0	2255.4	2262.8	2274.4
5°	2258.6	2271.2	2264.8	2259.6	2255.4	2254.3	2251.2	2250.1	2254.3	2263.8	2279.6
7.5°	2303.8	2316.5	2307.0	2297.5	2289.0	2284.8	2280.6	2274.4	2271.2	2276.4	2298.6
10°	2354.3	2367.0	2355.4	2338.5	2324.9	2319.6	2315.4	2309.1	2304.9	2308.0	2332.3
12.5°	2404.9	2417.6	2401.8	2378.6	2360.7	2357.5	2352.3	2350.1	2349.1	2348.1	2372.3
15°	2452.3	2462.8	2442.8	2415.4	2396.4	2391.2	2386.0	2389.1	2394.4	2400.7	2428.0
17.5°	2489.1	2499.7	2470.1	2434.4	2416.4	2414.4	2411.2	2421.8	2436.5	2452.3	2485.9
20°	2522.8	2533.4	2495.5	2447.0	2426.0	2426.0	2427.0	2449.1	2470.1	2493.3	2539.6
22.5°	2570.2	2578.6	2532.3	2465.9	2435.4	2437.6	2446.0	2468.1	2494.4	2526.0	2590.2
25°	2640.7	2647.1	2590.2	2501.8	2467.1	2473.3	2480.7	2491.3	2516.5	2553.4	2639.7
27.5°	2754.5	2759.7	2685.0	2565.0	2512.3	2522.8	2533.4	2526.0	2537.6	2569.2	2679.8
30°	2914.5	2917.7	2823.0	2663.9	2589.1	2594.5	2596.5	2566.0	2543.8	2569.2	2708.2
32.5°	3104.0	3103.0	2990.3	2784.0	2676.6	2671.3	2653.4	2593.4	2541.8	2563.9	2733.4
35°	3397.8	3386.2	3240.9	2952.4	2775.5	2742.9	2700.8	2623.9	2552.4	2558.6	2755.5
37.5°	3884.2	3848.5	3647.4	3228.3	2923.0	2839.8	2777.6	2673.4	2575.5	2556.6	2781.8
40°	4432.8	4387.6	4166.4	3606.3	3144.1	3010.3	2910.3	2743.9	2613.3	2566.0	2820.8
42.5°	5083.6	5019.3	4781.4	4051.7	3424.1	3230.4	3079.8	2833.4	2669.2	2596.5	2873.5
45°	5882.8	5797.5	5460.5	4554.0	3776.9	3518.9	3317.8	2969.3	2754.5	2655.5	2952.4
47.5°	6690.4	6711.4	6232.3	5128.8	4200.1	3874.8	3615.8	3173.5	2878.7	2750.3	3079.8
50°	7548.5	7563.3	6999.9	5765.8	4680.3	4277.0	3950.7	3402.1	3051.4	2885.1	3270.4
52.5°	8218.1	8220.3	7696.9	6432.4	5180.5	4719.2	4311.8	3663.1	3251.5	3064.0	3524.2
55°	8637.3	8631.9	8185.5	7063.1	5755.4	5183.6	4711.9	3960.1	3495.8	3274.7	3843.2
57.5°	8941.5	8925.7	8522.5	7605.3	6368.1	5732.2	5164.7	4297.0	3784.2	3525.2	4263.3
60°	9057.3	9047.9	8750.9	8073.9	7012.5	6338.7	5686.9	4674.0	4111.7	3821.1	4803.5
62.5°	9101.6	9119.4	8975.2	8527.7	7702.3	7010.4	6260.7	5124.6	4480.3	4156.0	5373.2
65°	9257.4	9290.0	9260.6	9121.6	8481.4	7797.0	7022.0	5660.6	4882.5	4515.0	5968.1
67.5°	9565.9	9598.5	9611.2	9832.3	9433.3	8777.3	7971.7	6328.1	5353.2	4887.7	6415.6
70°	9558.5	9549.1	9772.2	10397.7	10625.2	10134.5	9252.2	7149.4	5914.4	5197.3	6472.4
72.5°	8700.4	8624.6	9152.1	10391.4	11617.0	11551.7	10815.7	8208.7	6398.7	5235.2	5616.4
75°	6527.1	6325.0	7256.8	9364.8	11782.4	12356.2	11809.7	8865.7	6283.9	4625.5	3908.5
77.5°	2791.3	2588.1	3686.3	6932.5	10545.1	11550.7	10897.9	7734.9	5016.1	3058.8	1919.5
80°	730.7	729.7	1114.0	3143.0	7171.5	8529.8	7483.2	4995.1	2866.1	1093.0	529.6
82.5°	302.2	294.8	409.6	1222.4	3504.2	4786.6	3906.4	2228.0	1035.0	295.9	175.9
85°	112.6	111.6	199.1	422.2	1236.1	1974.3	1428.8	569.6	258.0	144.2	78.9
87.5°	31.6	30.5	43.2	146.4	301.1	456.9	244.3	93.7	72.7	56.9	23.2
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: P964685  
 CATALOG NUMBER: NVN-SB3C-827-U-SL4

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2270.2	2270.2	2270.2	2270.2	2270.2	2270.2	2270.2	2270.2	2270.2	2270.2	2270.2
2.5°	2277.4	2282.8	2292.2	2299.6	2309.1	2319.6	2334.3	2343.9	2353.3	2359.7	2355.4
5°	2287.0	2298.6	2322.8	2346.9	2375.4	2401.8	2432.3	2454.4	2472.3	2477.5	2479.7
7.5°	2308.0	2327.0	2368.1	2409.2	2454.4	2497.5	2541.8	2579.7	2610.3	2621.8	2622.9
10°	2344.9	2370.1	2428.0	2485.9	2546.0	2612.3	2669.2	2723.9	2767.1	2785.0	2786.1
12.5°	2391.2	2422.8	2498.6	2578.6	2661.8	2753.5	2827.2	2894.5	2948.2	2972.4	2972.4
15°	2451.2	2492.3	2589.1	2696.6	2818.7	2946.2	3039.8	3114.6	3174.6	3204.0	3202.0
17.5°	2516.5	2571.3	2693.4	2855.5	3030.3	3197.8	3307.3	3362.0	3424.1	3452.6	3451.5
20°	2579.7	2647.1	2821.8	3057.7	3290.5	3468.4	3556.9	3571.5	3575.7	3578.9	3587.3
22.5°	2645.0	2735.5	2983.0	3312.5	3562.1	3685.3	3697.9	3634.8	3546.3	3505.2	3516.8
25°	2716.6	2836.6	3193.6	3593.6	3795.8	3810.5	3713.7	3559.9	3392.5	3315.7	3327.3
27.5°	2786.1	2953.4	3446.3	3862.2	3964.3	3834.8	3626.3	3408.3	3206.2	3125.1	3134.6
30°	2855.5	3087.2	3725.3	4096.9	4041.2	3774.8	3488.4	3245.1	3041.9	2956.6	2966.1
32.5°	2926.1	3243.0	4046.4	4266.5	4027.4	3647.4	3316.7	3062.0	2882.9	2793.4	2805.0
35°	3006.1	3434.7	4350.7	4359.1	3935.9	3460.0	3090.4	2842.9	2687.0	2615.5	2631.3
37.5°	3110.4	3677.9	4619.3	4382.3	3775.8	3185.1	2809.2	2583.9	2455.5	2422.8	2446.0
40°	3239.9	3970.6	4824.6	4345.5	3538.9	2851.3	2501.8	2321.7	2249.1	2256.4	2281.8
42.5°	3408.3	4298.0	4968.8	4250.7	3209.4	2507.0	2232.2	2152.2	2186.9	2216.5	2243.8
45°	3627.4	4638.1	5058.3	4089.5	2836.6	2215.3	2073.3	2092.2	2118.5	2121.6	2142.8
47.5°	3907.4	4982.5	5117.2	3846.4	2456.5	2010.0	1972.1	1976.4	1971.1	1948.9	1965.8
50°	4257.0	5317.3	5169.9	3524.2	2133.2	1881.6	1831.1	1816.3	1743.6	1672.1	1681.5
52.5°	4655.0	5624.8	5192.0	3124.1	1881.6	1774.2	1692.1	1599.4	1463.6	1441.5	1448.8
55°	5097.2	5909.0	5135.1	2632.3	1669.9	1636.3	1512.0	1400.4	1385.7	1366.7	1369.9
57.5°	5625.8	6215.5	5019.3	2083.7	1453.0	1475.2	1354.0	1366.7	1340.4	1310.9	1305.6
60°	6203.9	6532.4	4816.2	1583.6	1228.8	1274.1	1313.0	1312.0	1304.6	1280.3	1271.9
62.5°	6724.0	6740.9	4416.0	1213.0	1031.9	1118.2	1224.6	1223.5	1217.2	1203.5	1198.2
65°	7033.6	6709.3	3748.4	955.0	869.7	989.7	1104.5	1112.9	1114.0	1112.9	1112.9
67.5°	6978.8	6339.7	2832.4	760.2	735.9	859.2	985.5	997.1	1005.5	1007.7	1009.7
70°	6359.7	5527.9	1846.8	606.5	617.0	744.5	872.9	884.5	891.9	900.3	904.5
72.5°	4957.2	4064.3	1057.2	490.7	512.8	645.4	761.3	775.0	779.2	795.0	801.2
75°	3020.9	2390.2	570.7	386.4	421.2	551.8	650.7	666.6	673.8	692.8	694.9
77.5°	1436.2	1035.0	325.3	301.1	339.1	450.7	549.6	567.5	547.6	558.0	549.6
80°	485.4	384.3	205.3	229.5	259.0	351.7	440.1	458.1	415.9	413.8	409.6
82.5°	169.5	155.8	130.6	152.7	167.4	251.6	332.7	355.9	309.5	308.5	293.8
85°	66.3	63.1	72.7	83.2	100.0	154.8	219.0	230.6	190.5	153.8	151.6
87.5°	13.7	14.8	17.9	19.0	30.5	53.7	78.9	96.9	76.9	65.3	60.1
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)