

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: P883464

Luminaire Tested: **NVN-SB3D-827-U-SL4**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883464
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3D-827-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24583 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

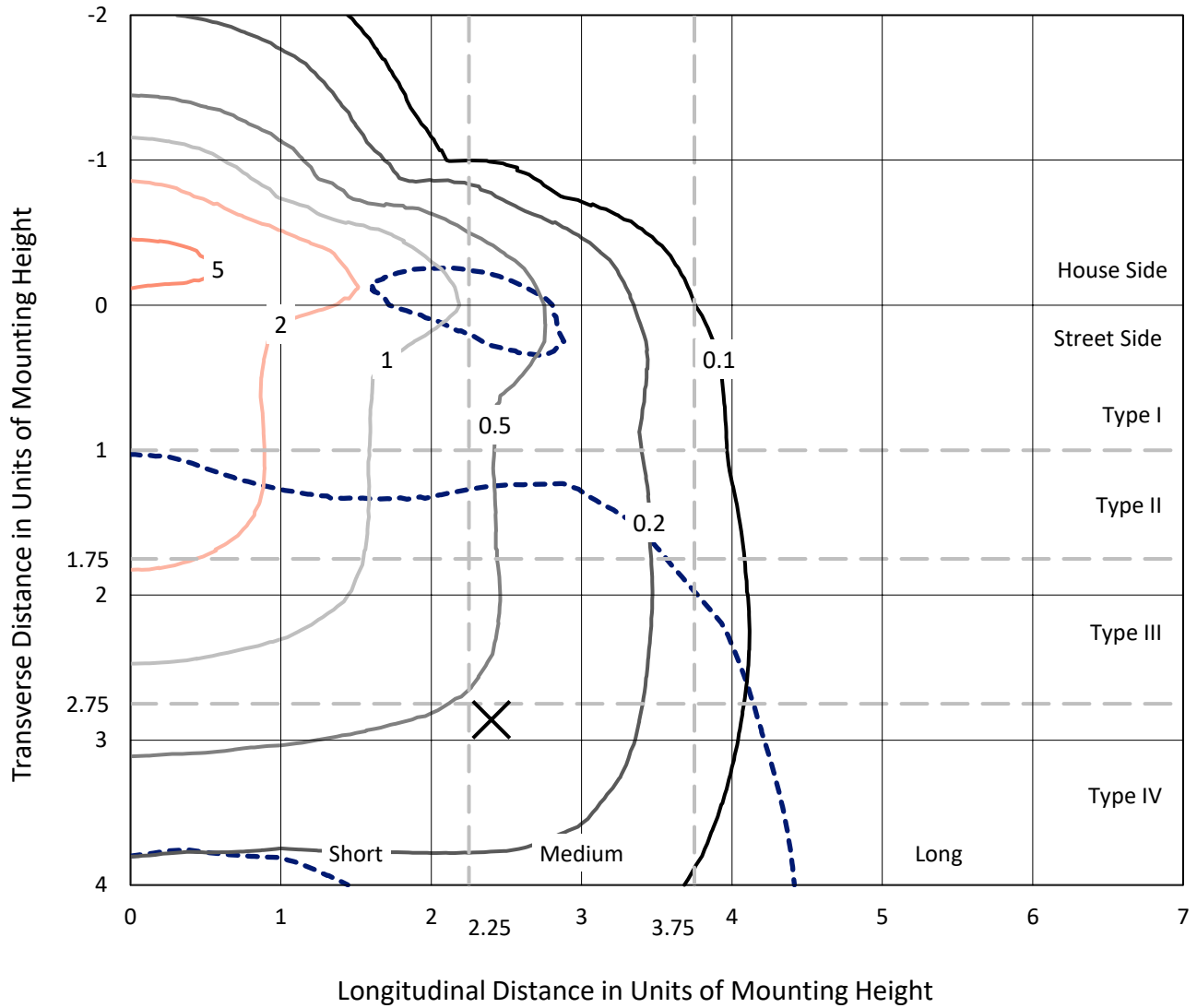
Input Watts (W): 218.1
Input Voltage (V): 120.0
Input Current (Ain): 1.84
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

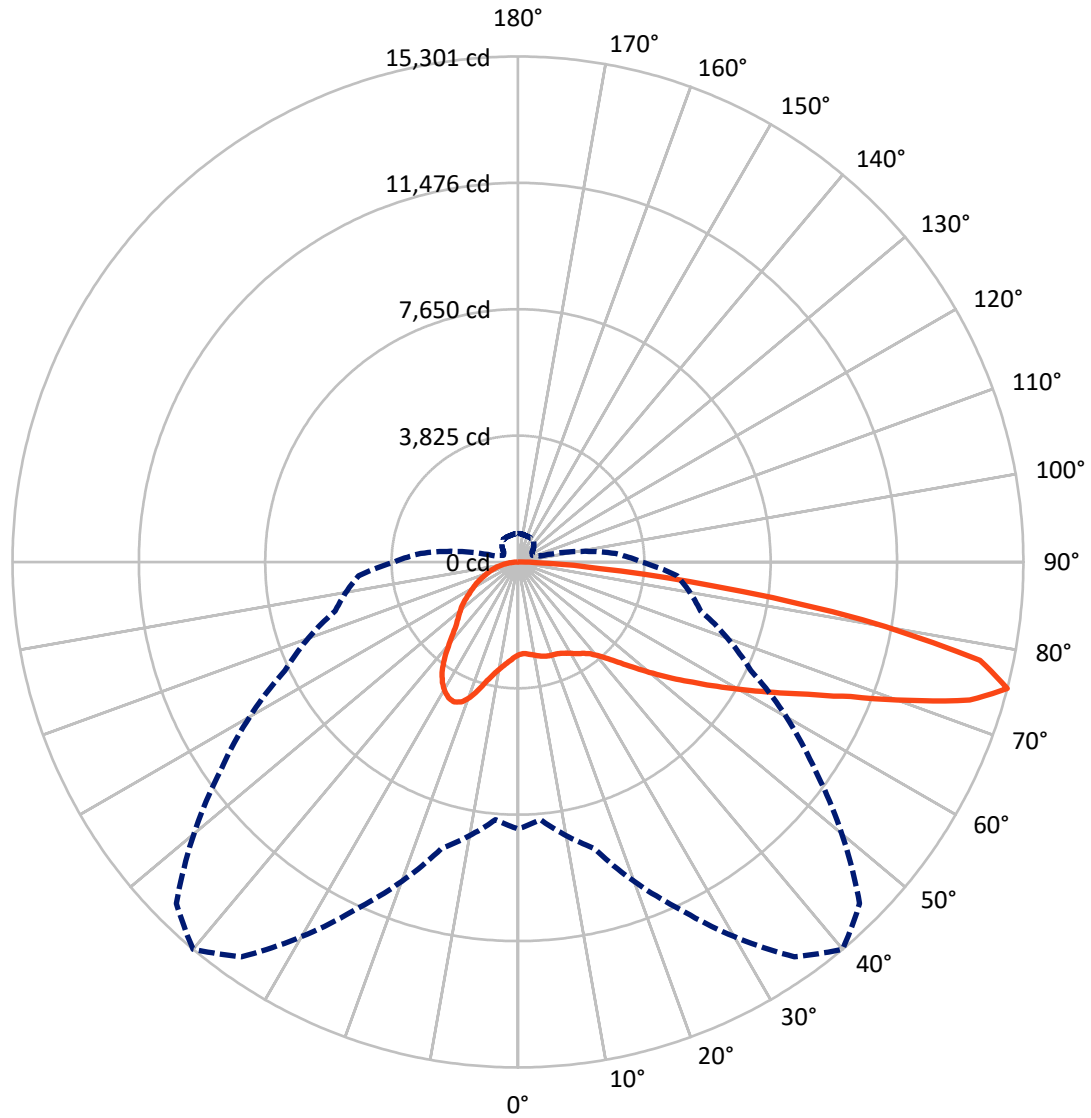
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7616.6	0.0	7616.6
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	16966.4	0.0	16966.4
	% Fixture	69.0	0.0	69.0
Total	Lumens	24583.0	0.0	24583.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.6	1.1
10°-20°	942.1	3.8
20°-30°	1720.2	7.0
30°-40°	2439.7	9.9
40°-50°	3294.4	13.4
50°-60°	4431.8	18.0
60°-70°	5625.0	22.9
70°-80°	5105.0	20.8
80°-90°	744.2	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°	24583.0	100.0
0°-180°	24583.0	100.0

Coefficient of Utilization



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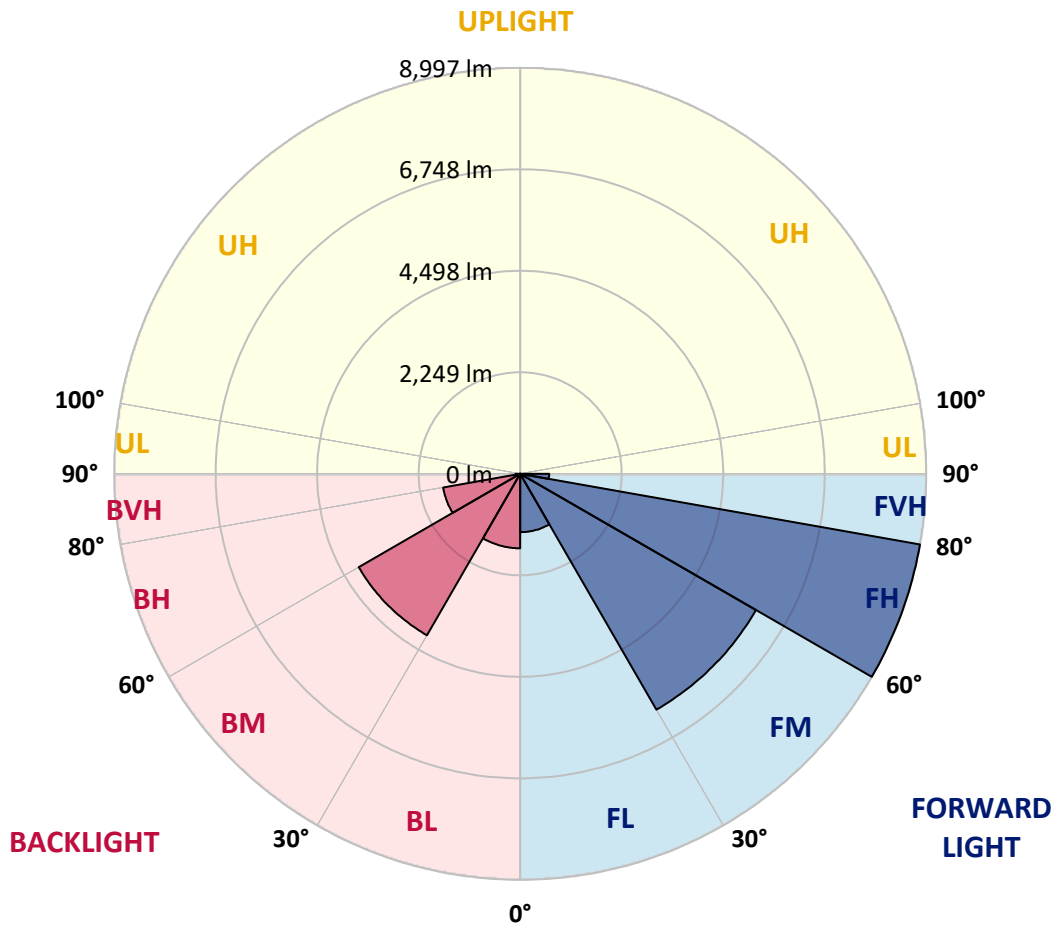
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1293.1	5.3			
FM (30°-60°)	6034.6	24.5			
FH (60°-80°)	8997.0	36.6			G4/12000
FVH (80°-90°)	641.7	2.6			G4/750
BL (0°-30°)	1649.8	6.7	B3/2500		
BM (30°-60°)	4131.3	16.8	B3/5000		
BH (60°-80°)	1733.0	7.0	B3/2500		G3/2500
BVH (80°-90°)	102.5	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2811.1	2811.1	2811.1	2811.1	2811.1	2811.1	2811.1	2811.1	2811.1	2811.1	2811.1
2.5°	2768.1	2783.7	2779.8	2774.6	2774.6	2775.9	2774.6	2783.7	2792.8	2802.0	2816.3
5°	2796.8	2812.4	2804.6	2798.1	2792.8	2791.5	2787.6	2786.3	2791.5	2803.3	2822.8
7.5°	2852.8	2868.5	2856.7	2845.0	2834.6	2829.4	2824.1	2816.3	2812.4	2818.9	2846.3
10°	2915.4	2931.1	2916.7	2895.8	2878.9	2872.4	2867.2	2859.3	2854.1	2858.0	2888.0
12.5°	2978.0	2993.6	2974.1	2945.4	2923.2	2919.3	2912.8	2910.2	2908.9	2907.6	2937.6
15°	3036.7	3049.7	3024.9	2991.0	2967.6	2961.0	2954.5	2958.4	2965.0	2972.8	3006.7
17.5°	3082.3	3095.3	3058.8	3014.5	2992.3	2989.7	2985.8	2998.9	3017.1	3036.7	3078.4
20°	3124.0	3137.1	3090.1	3030.1	3004.1	3004.1	3005.4	3032.8	3058.8	3087.5	3144.9
22.5°	3182.7	3193.1	3135.8	3053.6	3015.8	3018.4	3028.8	3056.2	3088.8	3127.9	3207.5
25°	3270.1	3277.9	3207.5	3097.9	3054.9	3062.7	3071.9	3084.9	3116.2	3161.8	3268.7
27.5°	3410.9	3417.4	3324.8	3176.2	3111.0	3124.0	3137.1	3127.9	3142.3	3181.4	3318.3
30°	3609.1	3613.0	3495.6	3298.7	3206.2	3212.7	3215.3	3177.5	3150.1	3181.4	3353.5
32.5°	3843.7	3842.4	3702.9	3447.4	3314.4	3307.9	3285.7	3211.4	3147.5	3174.9	3384.8
35°	4207.5	4193.2	4013.2	3656.0	3436.9	3396.5	3344.4	3249.2	3160.5	3168.4	3412.2
37.5°	4809.9	4765.6	4516.5	3997.6	3619.5	3516.5	3439.6	3310.5	3189.2	3165.7	3444.8
40°	5489.2	5433.1	5159.3	4465.7	3893.3	3727.7	3603.8	3397.8	3236.2	3177.5	3493.0
42.5°	6295.0	6215.4	5920.8	5017.2	4240.1	4000.2	3813.8	3508.7	3305.3	3215.3	3558.2
45°	7284.6	7179.0	6761.8	5639.1	4676.9	4357.5	4108.4	3676.9	3410.9	3288.3	3656.0
47.5°	8284.7	8310.7	7717.5	6351.0	5201.1	4798.2	4477.4	3929.8	3564.7	3405.7	3813.8
50°	9347.3	9365.5	8668.0	7139.9	5795.6	5296.2	4892.0	4212.7	3778.6	3572.5	4049.8
52.5°	10176.5	10179.2	9531.1	7965.2	6414.9	5843.9	5339.3	4536.1	4026.3	3794.2	4364.0
55°	10695.5	10689.0	10136.1	8746.2	7126.8	6418.8	5834.7	4903.8	4328.8	4055.0	4759.0
57.5°	11072.3	11052.7	10553.4	9417.7	7885.7	7098.2	6395.4	5321.0	4686.0	4365.3	5279.3
60°	11215.7	11204.0	10836.3	9997.9	8683.6	7849.2	7042.1	5787.8	5091.5	4731.7	5948.2
62.5°	11270.5	11292.6	11114.0	10559.9	9537.7	8681.0	7752.7	6345.8	5547.9	5146.3	6653.5
65°	11463.4	11503.9	11467.4	11295.2	10502.5	9655.0	8695.4	7009.5	6045.9	5590.9	7390.2
67.5°	11845.5	11885.9	11901.5	12175.3	11681.2	10868.9	9871.4	7836.1	6628.8	6052.5	7944.4
70°	11836.3	11824.6	12101.0	12875.5	13157.1	12549.5	11456.9	8853.1	7323.7	6435.8	8014.8
72.5°	10773.7	10679.8	11333.1	12867.7	14385.4	14304.5	13393.1	10164.8	7923.5	6482.7	6954.7
75°	8082.6	7832.2	8986.1	11596.4	14590.1	15300.7	14624.0	10978.4	7781.4	5727.8	4839.9
77.5°	3456.5	3204.9	4564.8	8584.5	13058.0	14303.2	13494.8	9578.1	6211.5	3787.7	2376.9
80°	904.9	903.6	1379.5	3892.0	8880.5	10562.5	9266.5	6185.5	3549.1	1353.4	655.8
82.5°	374.2	365.1	507.2	1513.8	4339.2	5927.3	4837.3	2758.9	1281.7	366.4	217.7
85°	139.5	138.2	246.4	522.8	1530.7	2444.7	1769.3	705.4	319.4	178.6	97.8
87.5°	39.1	37.8	53.5	181.2	372.9	565.9	302.5	116.0	90.0	70.4	28.7
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°	2811.1	2811.1	2811.1	2811.1	2811.1	2811.1	2811.1	2811.1	2811.1	2811.1	2811.1
2.5°	2820.2	2826.7	2838.5	2847.6	2859.3	2872.4	2890.6	2902.4	2914.1	2921.9	2916.7
5°	2832.0	2846.3	2876.3	2906.3	2941.5	2974.1	3011.9	3039.3	3061.4	3068.0	3070.6
7.5°	2858.0	2881.5	2932.4	2983.2	3039.3	3092.7	3147.5	3194.4	3232.2	3246.6	3247.9
10°	2903.7	2935.0	3006.7	3078.4	3152.7	3234.8	3305.3	3373.1	3426.5	3448.7	3450.0
12.5°	2961.0	3000.2	3094.0	3193.1	3296.1	3409.6	3500.8	3584.3	3650.8	3680.8	3680.8
15°	3035.4	3086.2	3206.2	3339.2	3490.4	3648.2	3764.2	3856.8	3931.1	3967.6	3965.0
17.5°	3116.2	3184.0	3335.2	3536.0	3752.5	3959.8	4095.4	4163.2	4240.1	4275.3	4274.0
20°	3194.4	3277.9	3494.3	3786.4	4074.5	4294.9	4404.4	4422.7	4427.9	4431.8	4442.2
22.5°	3275.3	3387.4	3693.8	4101.9	4410.9	4563.5	4579.1	4500.9	4391.4	4340.5	4354.9
25°	3363.9	3512.6	3954.6	4450.0	4700.4	4718.6	4598.7	4408.3	4201.0	4105.8	4120.2
27.5°	3450.0	3657.3	4267.5	4782.5	4909.0	4748.6	4490.5	4220.6	3970.2	3869.8	3881.6
30°	3536.0	3822.9	4613.0	5073.3	5004.2	4674.3	4319.7	4018.5	3766.8	3661.2	3672.9
32.5°	3623.4	4015.9	5010.7	5283.2	4987.2	4516.5	4107.1	3791.6	3569.9	3459.1	3473.5
35°	3722.5	4253.2	5387.5	5397.9	4873.8	4284.4	3826.8	3520.4	3327.4	3238.8	3258.3
37.5°	3851.6	4554.3	5720.0	5426.6	4675.6	3944.1	3478.7	3199.6	3040.6	3000.2	3028.8
40°	4011.9	4916.8	5974.2	5381.0	4382.2	3530.8	3097.9	2875.0	2785.0	2794.1	2825.4
42.5°	4220.6	5322.3	6152.9	5263.6	3974.1	3104.5	2764.2	2665.1	2708.1	2744.6	2778.5
45°	4491.8	5743.5	6263.7	5064.2	3512.6	2743.3	2567.3	2590.7	2623.3	2627.3	2653.3
47.5°	4838.6	6169.8	6336.7	4763.0	3041.9	2489.0	2442.1	2447.3	2440.8	2413.4	2434.3
50°	5271.5	6584.4	6401.9	4364.0	2641.6	2330.0	2267.4	2249.1	2159.2	2070.5	2082.2
52.5°	5764.3	6965.2	6429.3	3868.5	2330.0	2197.0	2095.3	1980.5	1812.4	1785.0	1794.1
55°	6311.9	7317.2	6358.9	3259.6	2067.9	2026.2	1872.3	1734.1	1715.9	1692.4	1696.3
57.5°	6966.5	7696.6	6215.4	2580.3	1799.3	1826.7	1676.8	1692.4	1659.8	1623.3	1616.8
60°	7682.3	8089.1	5963.8	1961.0	1521.6	1577.7	1625.9	1624.6	1615.5	1585.5	1575.0
62.5°	8326.4	8347.2	5468.3	1502.0	1277.8	1384.7	1516.4	1515.1	1507.2	1490.3	1483.8
65°	8709.7	8308.1	4641.7	1182.6	1077.0	1225.6	1367.7	1378.2	1379.5	1378.2	1378.2
67.5°	8641.9	7850.5	3507.4	941.4	911.4	1063.9	1220.4	1234.7	1245.2	1247.8	1250.4
70°	7875.2	6845.2	2287.0	751.0	764.1	921.8	1080.9	1095.2	1104.4	1114.8	1120.0
72.5°	6138.5	5032.9	1309.1	607.6	635.0	799.3	942.7	959.6	964.8	984.4	992.2
75°	3740.7	2959.7	706.7	478.5	521.5	683.2	805.8	825.3	834.5	857.9	860.5
77.5°	1778.5	1281.7	402.9	372.9	419.8	558.0	680.6	702.8	678.0	691.0	680.6
80°	601.1	475.9	254.3	284.2	320.7	435.5	545.0	567.2	515.0	512.4	507.2
82.5°	209.9	193.0	161.7	189.1	207.3	311.6	412.0	440.7	383.3	382.0	363.8
85°	82.1	78.2	90.0	103.0	123.9	191.7	271.2	285.5	236.0	190.4	187.8
87.5°	17.0	18.3	22.2	23.5	37.8	66.5	97.8	120.0	95.2	80.8	74.3
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)