

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: P885191

Luminaire Tested: **NVN-SB6B-835-U-T4FT**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885191  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB6B-835-U-T4FT  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

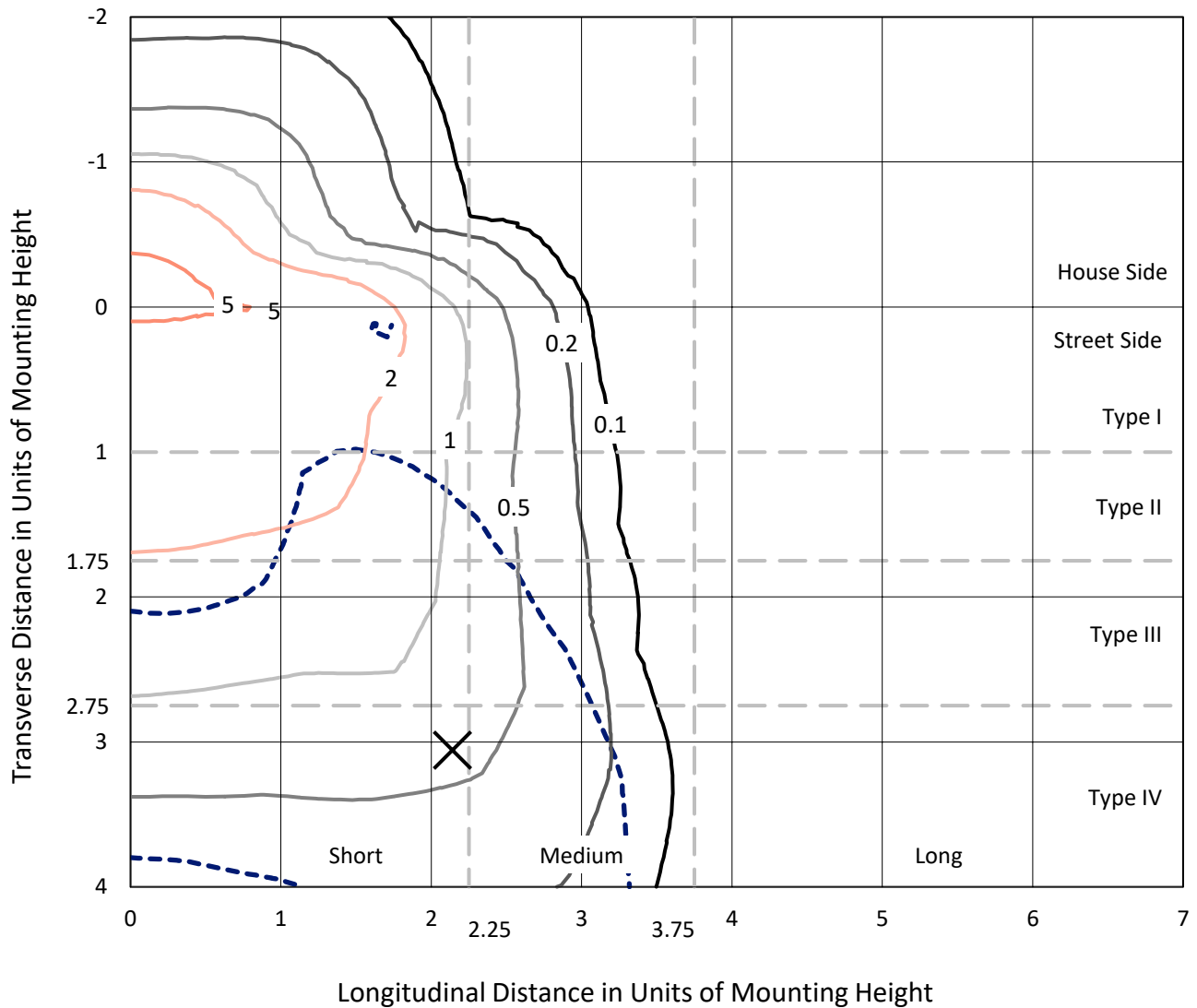
Lumens per Lamp: N/A  
Luminaire Lumens: 28503 lumens  
Efficiency: N/A  
Efficacy: 129.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 220.4  
Input Voltage (V): 120.0  
Input Current (Ain): 1.838  
Voltage Rise (V): NR  
Power Factor: 0.995  
Total Harmonic Distortion (THDi): 8.657  
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

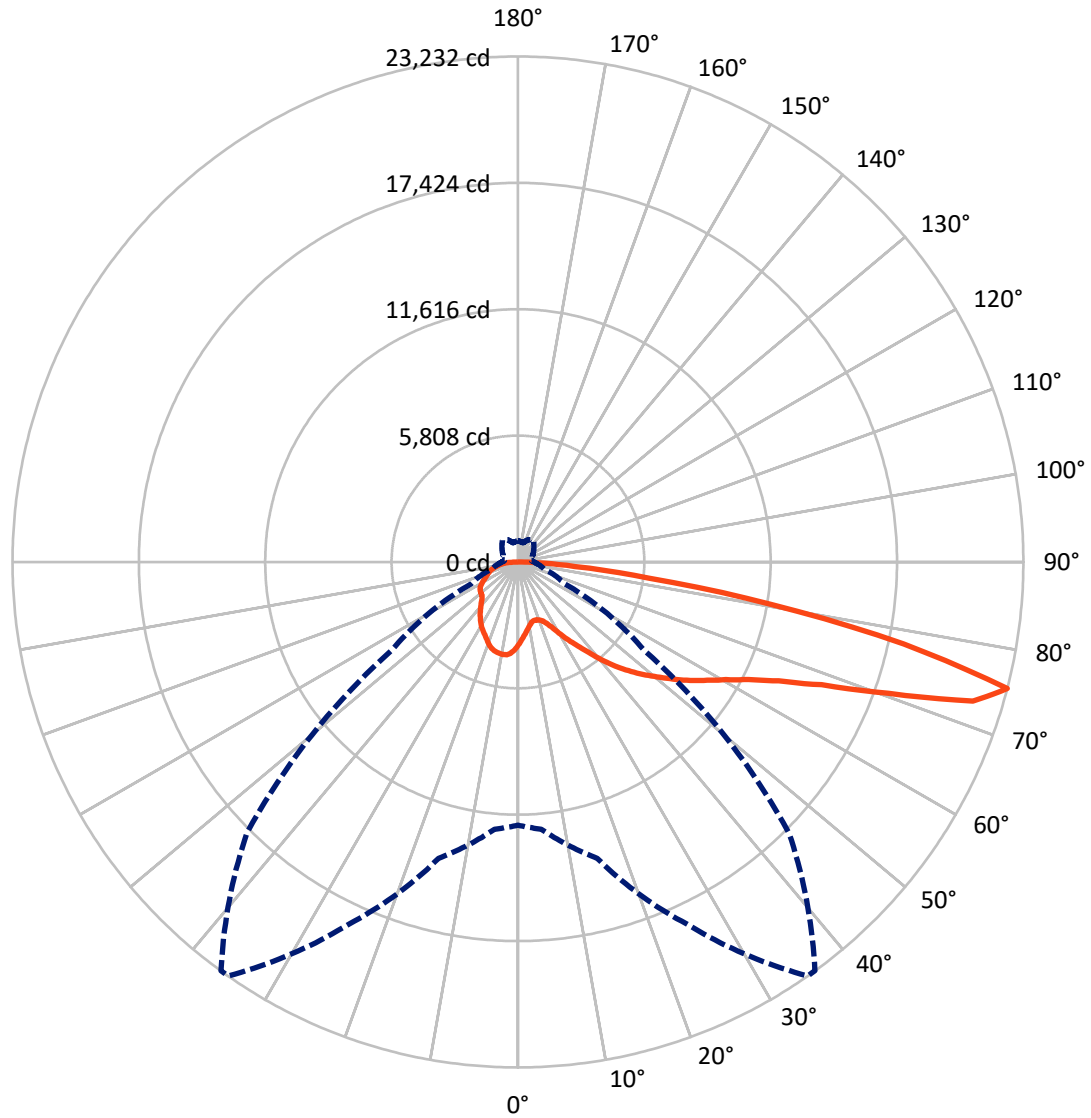
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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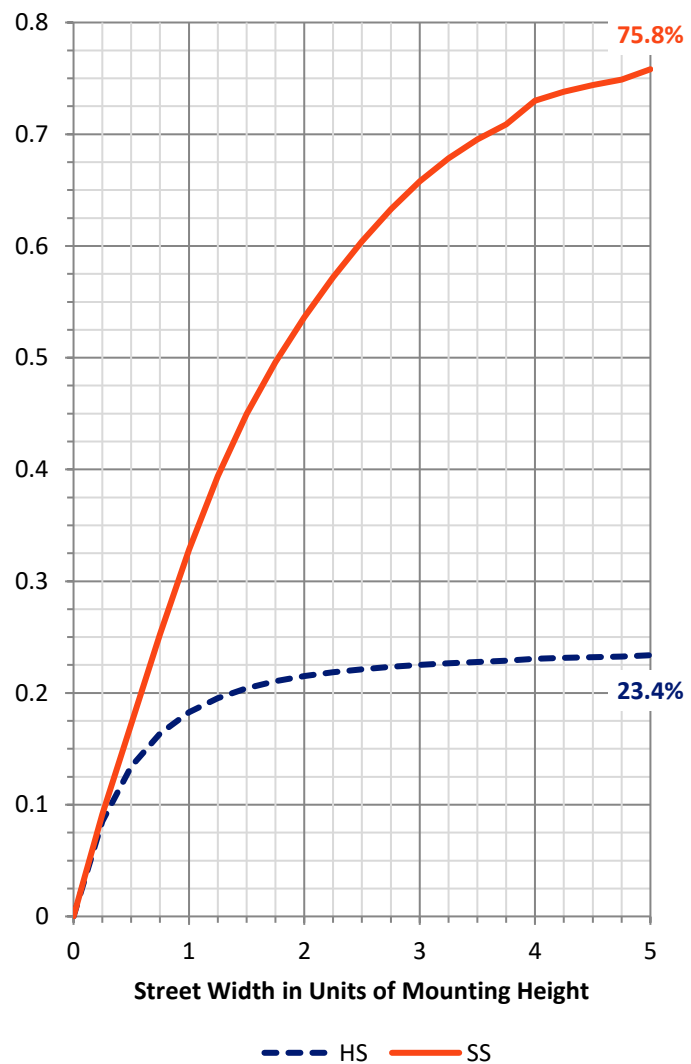
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6783.0	0.0	6783.0
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	21720.0	0.0	21720.0
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	28503.0	0.0	28503.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	359.6	1.3
10°-20°	1037.3	3.6
20°-30°	1741.9	6.1
30°-40°	2707.1	9.5
40°-50°	4018.1	14.1
50°-60°	5547.2	19.5
60°-70°	6730.0	23.6
70°-80°	5561.8	19.5
80°-90°	800.0	2.8
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°	28503.0	100.0
0°-180°	28503.0	100.0

**Coefficient of Utilization**



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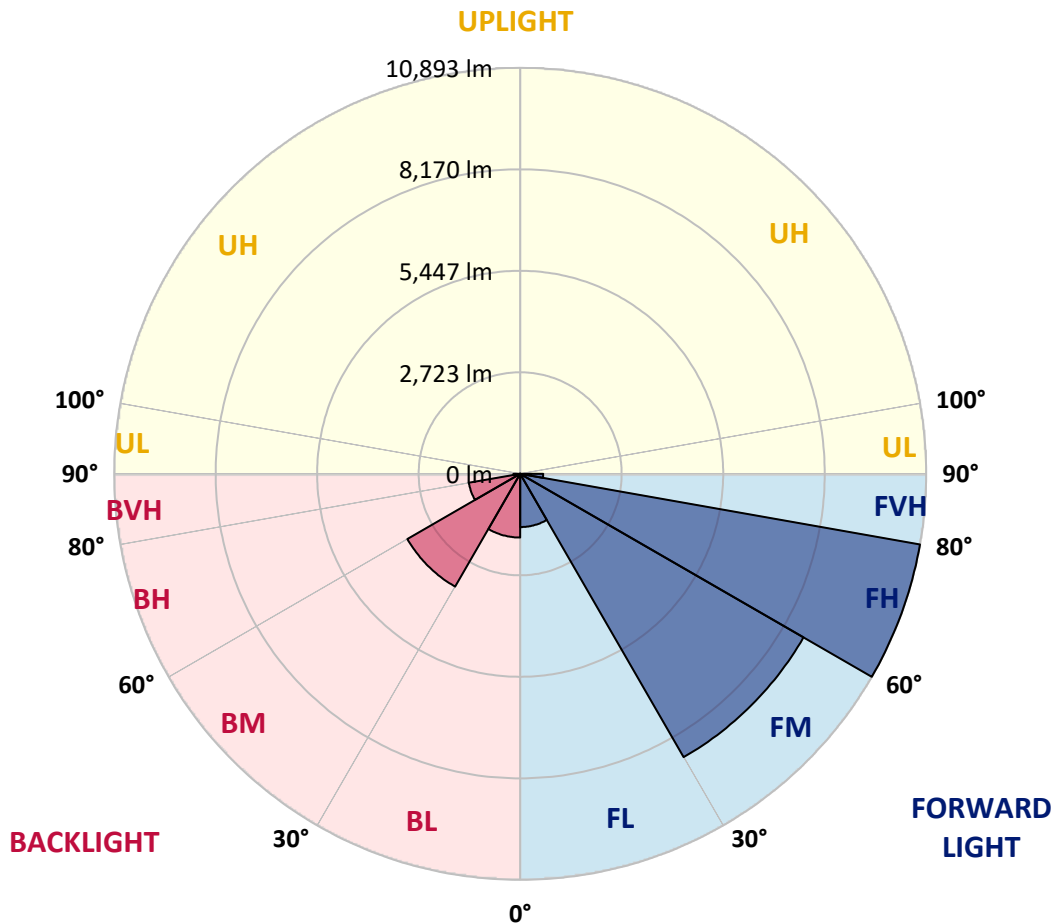
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1429.4	5.0			
FM (30°-60°)	8777.4	30.8			
FH (60°-80°)	10893.4	38.2			G4/12000
FVH (80°-90°)	619.8	2.2			G4/750
BL (0°-30°)	1709.4	6.0	B3/2500		
BM (30°-60°)	3495.0	12.3	B3/5000		
BH (60°-80°)	1398.4	4.9	B3/2500		G3/2500
BVH (80°-90°)	180.1	0.6			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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3798.2	3798.2	3798.2	3798.2	3798.2	3798.2	3798.2	3798.2	3798.2	3798.2	3798.2
2.5°	3502.4	3523.9	3533.2	3528.6	3551.7	3548.6	3581.0	3621.0	3676.5	3730.4	3809.0
5°	3232.7	3255.8	3275.9	3294.4	3339.0	3352.9	3403.8	3480.8	3582.5	3685.7	3815.2
7.5°	2981.6	3001.6	3032.4	3066.3	3141.8	3155.7	3240.4	3360.6	3502.4	3653.4	3832.1
10°	2776.6	2796.7	2829.0	2867.5	2961.5	2978.5	3086.3	3246.6	3431.5	3622.6	3850.6
12.5°	2688.8	2695.0	2713.5	2752.0	2833.6	2844.4	2963.1	3146.4	3362.2	3599.4	3878.3
15°	2684.2	2696.5	2698.0	2718.1	2785.9	2790.5	2899.9	3081.7	3319.0	3594.8	3919.9
17.5°	2730.4	2739.6	2725.8	2738.1	2795.1	2802.8	2889.1	3050.9	3305.1	3614.9	3990.8
20°	2853.7	2861.4	2819.8	2802.8	2844.4	2850.6	2935.3	3070.9	3319.0	3656.5	4087.9
22.5°	3115.6	3120.2	3018.5	2949.2	2952.3	2955.4	3029.3	3152.6	3372.9	3732.0	4211.2
25°	3523.9	3520.9	3359.1	3225.0	3148.0	3131.0	3180.3	3285.1	3463.9	3832.1	4369.9
27.5°	4001.6	3978.5	3816.7	3616.4	3448.4	3423.8	3413.0	3457.7	3593.3	3964.6	4564.0
30°	4540.9	4519.3	4345.2	4083.3	3850.6	3810.5	3708.8	3685.7	3785.9	4144.9	4833.7
32.5°	5132.6	5118.7	4910.7	4593.3	4282.0	4235.8	4064.8	4003.2	4081.7	4417.6	5209.6
35°	5628.8	5616.4	5443.9	5117.2	4736.6	4679.6	4505.5	4436.1	4476.2	4767.4	5701.2
37.5°	6077.1	6071.0	5923.1	5665.7	5272.8	5203.5	5007.8	4984.7	4977.0	5228.1	6297.5
40°	6493.2	6477.8	6323.7	6188.1	5896.9	5833.7	5661.1	5641.1	5582.5	5795.2	6972.4
42.5°	6953.9	6913.8	6690.4	6627.2	6548.7	6496.3	6393.0	6396.1	6266.7	6434.6	7687.3
45°	7329.9	7306.8	7077.2	7040.2	7124.9	7103.4	7192.7	7215.8	6964.7	7104.9	8430.0
47.5°	7733.6	7712.0	7517.9	7491.7	7721.2	7727.4	8043.3	8051.0	7645.7	7801.4	9174.3
50°	8231.3	8200.5	8007.8	8040.2	8297.5	8320.6	8898.5	8846.1	8272.9	8508.6	9912.3
52.5°	8559.5	8578.0	8536.4	8588.7	8940.1	8961.6	9739.8	9605.7	8893.8	9206.6	10636.6
55°	8801.4	8838.4	8967.8	9088.0	9618.0	9639.6	10533.3	10328.4	9408.5	9853.8	11317.6
57.5°	9112.6	9060.3	9302.2	9536.4	10262.1	10319.1	11305.3	11024.8	9864.6	10411.6	11784.5
60°	9559.5	9522.5	9710.5	10057.2	10983.2	11074.2	12121.9	11652.0	10198.9	10853.8	11875.4
62.5°	10465.5	10373.1	10402.3	10709.0	11892.4	12012.5	13043.4	12199.0	10365.4	11026.4	11388.5
65°	11819.9	11661.2	11513.3	11725.9	13172.8	13291.5	14083.5	12628.9	10303.7	10692.0	10095.7
67.5°	13525.7	13368.5	13186.7	13387.0	15058.8	15152.8	15367.0	12870.8	9818.4	9403.9	7810.6
70°	14932.5	14873.9	15091.2	15915.5	18071.2	18074.3	17012.6	12670.5	8488.6	6667.3	4519.3
72.5°	14746.0	14710.6	15855.4	18404.0	21867.9	21786.2	18570.4	11154.3	5718.1	3007.8	1693.4
75°	12097.3	12326.9	14100.4	18359.3	23231.5	23220.7	17616.6	7091.0	2365.2	1246.6	875.2
77.5°	6487.0	6850.7	9154.2	13554.9	18135.9	18408.6	12385.4	2480.8	1015.4	798.2	605.6
80°	2115.6	2433.0	3648.8	6901.5	11784.5	11733.6	5308.3	973.8	694.9	565.5	419.1
82.5°	898.3	935.3	1630.2	3258.9	6047.9	5953.9	1690.3	559.3	488.5	386.8	258.9
85°	351.3	392.9	719.6	1507.0	2619.5	2562.4	610.2	277.4	312.8	252.7	154.1
87.5°	115.6	140.2	257.3	516.2	815.1	785.8	149.5	95.5	135.6	115.6	55.5
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°	3798.2	3798.2	3798.2	3798.2	3798.2	3798.2	3798.2	3798.2	3798.2	3798.2	3798.2
2.5°	3830.6	3855.2	3884.5	3927.6	3964.6	3995.4	4027.8	4047.8	4055.5	4078.7	4077.1
5°	3858.3	3912.2	3984.7	4055.5	4124.9	4166.5	4203.5	4222.0	4238.9	4251.2	4254.3
7.5°	3904.5	3973.9	4087.9	4180.4	4238.9	4272.8	4297.5	4291.3	4297.5	4300.5	4305.2
10°	3944.6	4041.7	4177.3	4265.1	4309.8	4311.3	4305.2	4283.6	4272.8	4274.3	4277.4
12.5°	3992.4	4100.2	4246.6	4320.6	4332.9	4299.0	4272.8	4235.8	4222.0	4215.8	4212.7
15°	4057.1	4180.4	4322.1	4349.8	4319.0	4275.9	4231.2	4171.1	4140.3	4115.6	4123.3
17.5°	4135.7	4271.3	4380.7	4360.6	4294.4	4223.5	4151.1	4060.2	3997.0	3970.8	3972.3
20°	4245.1	4366.8	4425.3	4337.5	4237.4	4129.5	4006.2	3895.3	3836.7	3810.5	3807.5
22.5°	4377.6	4494.7	4468.5	4297.5	4155.7	3983.1	3829.0	3747.4	3718.1	3699.6	3702.7
25°	4536.3	4636.4	4499.3	4238.9	4021.6	3789.0	3670.3	3644.1	3630.3	3616.4	3616.4
27.5°	4742.8	4796.7	4522.4	4152.6	3812.1	3582.5	3539.4	3544.0	3539.4	3516.2	3520.9
30°	5015.5	5004.7	4544.0	4012.4	3571.7	3396.1	3399.1	3419.2	3422.2	3406.8	3414.5
32.5°	5374.5	5265.1	4554.8	3830.6	3342.1	3232.7	3235.8	3257.4	3272.8	3246.6	3258.9
35°	5809.0	5568.7	4537.8	3602.5	3164.9	3077.1	3054.0	3060.1	3064.8	3040.1	3057.1
37.5°	6316.0	5909.2	4462.3	3349.8	3018.5	2924.6	2875.2	2833.6	2809.0	2785.9	2801.3
40°	6872.2	6280.5	4323.7	3103.3	2855.2	2762.8	2688.8	2610.2	2527.0	2496.2	2510.1
42.5°	7454.7	6662.7	4155.7	2867.5	2667.2	2591.7	2513.1	2399.1	2274.3	2211.1	2218.8
45°	8058.7	7054.1	3990.8	2634.9	2474.6	2442.3	2351.4	2214.2	2078.6	1998.5	1992.3
47.5°	8650.4	7423.9	3748.9	2400.7	2294.3	2329.8	2258.9	2132.5	1981.5	1855.2	1841.3
50°	9215.9	7770.6	3352.9	2163.4	2148.0	2295.9	2228.1	2046.3	1873.7	1711.9	1698.0
52.5°	9776.8	8051.0	2846.0	1947.6	2069.4	2286.6	2188.0	1987.7	1776.6	1607.1	1588.6
55°	10252.9	8195.8	2357.5	1762.7	1955.4	2208.1	2140.3	1918.4	1639.5	1459.2	1443.8
57.5°	10524.1	8078.7	1950.7	1580.9	1798.2	2078.6	2058.6	1770.4	1476.1	1337.5	1319.0
60°	10407.0	7604.1	1617.9	1422.2	1648.7	1938.4	1916.8	1624.1	1351.3	1220.4	1201.9
62.5°	9761.3	6699.7	1354.4	1283.5	1513.1	1795.1	1775.1	1511.6	1255.8	1129.4	1109.4
65°	8460.9	5450.0	1149.5	1168.0	1376.0	1622.5	1651.8	1417.6	1180.3	1057.0	1037.0
67.5°	6453.1	3947.7	989.2	1067.8	1241.9	1453.0	1537.8	1349.8	1117.1	1000.0	981.5
70°	3678.0	2241.9	853.6	970.7	1123.3	1295.9	1449.9	1295.9	1049.3	952.3	939.9
72.5°	1394.5	1029.3	738.1	873.7	1009.3	1163.3	1352.9	1211.1	970.7	898.3	886.0
75°	744.2	627.1	621.0	759.6	878.3	1033.9	1231.1	1127.9	912.2	949.2	980.0
77.5°	506.9	443.8	519.3	650.2	735.0	890.6	1101.7	1001.6	790.5	787.4	725.7
80°	351.3	314.3	422.2	523.9	568.6	748.9	961.5	859.8	644.1	600.9	574.7
82.5°	211.1	204.9	315.9	391.4	402.2	577.8	796.6	721.1	527.0	459.2	462.3
85°	115.6	121.7	201.9	229.6	234.2	403.7	624.0	557.8	405.2	340.5	343.6
87.5°	32.4	41.6	74.0	90.9	112.5	209.6	371.3	331.3	203.4	141.8	141.8
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)