

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: P966793

Luminaire Tested: **NVN-SB4C-827-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P966793  
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-SB4C-827-U-SL4  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

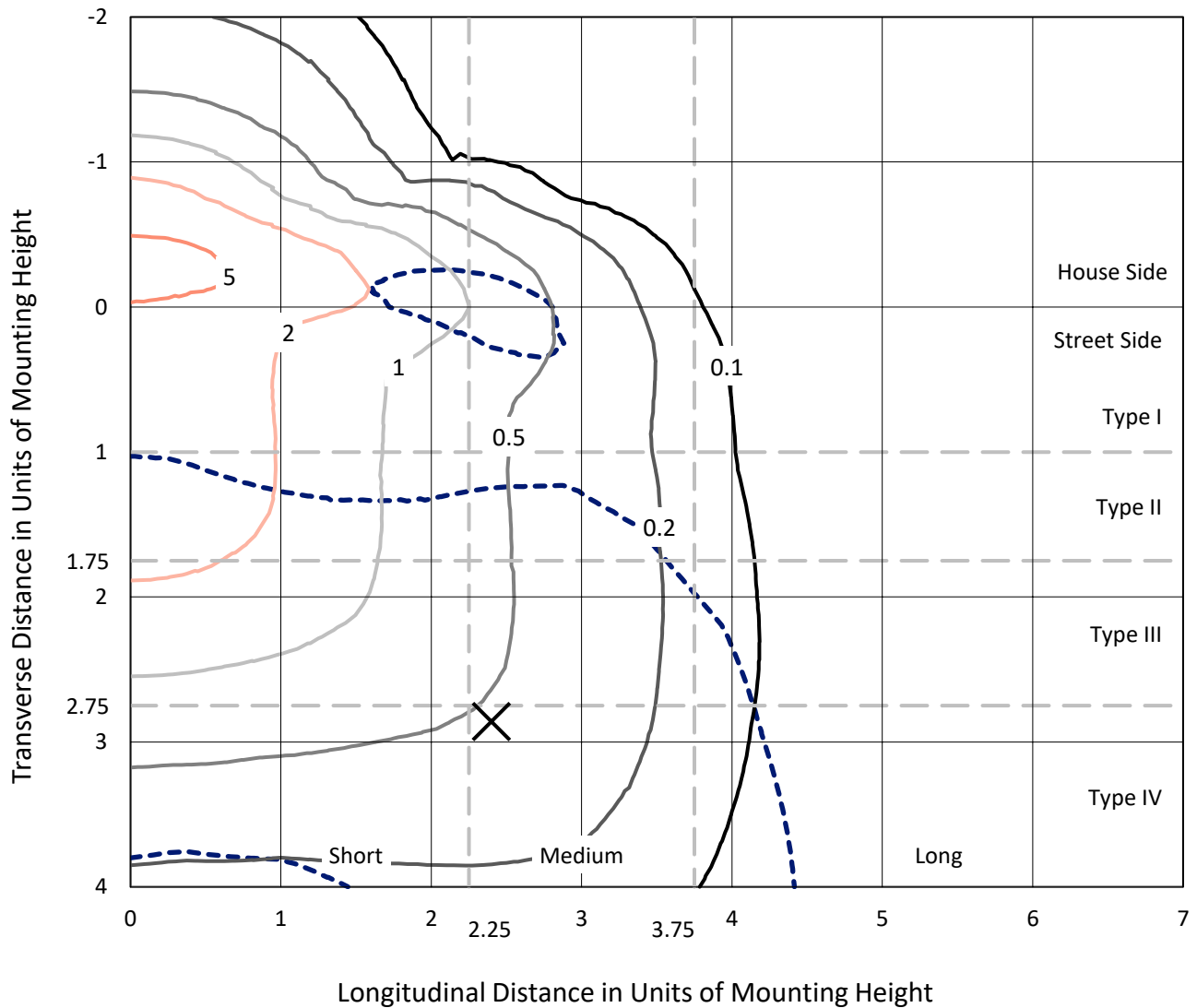
Lumens per Lamp: N/A  
Luminaire Lumens: 26518.8 lumens  
Efficiency: N/A  
Efficacy: 132.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

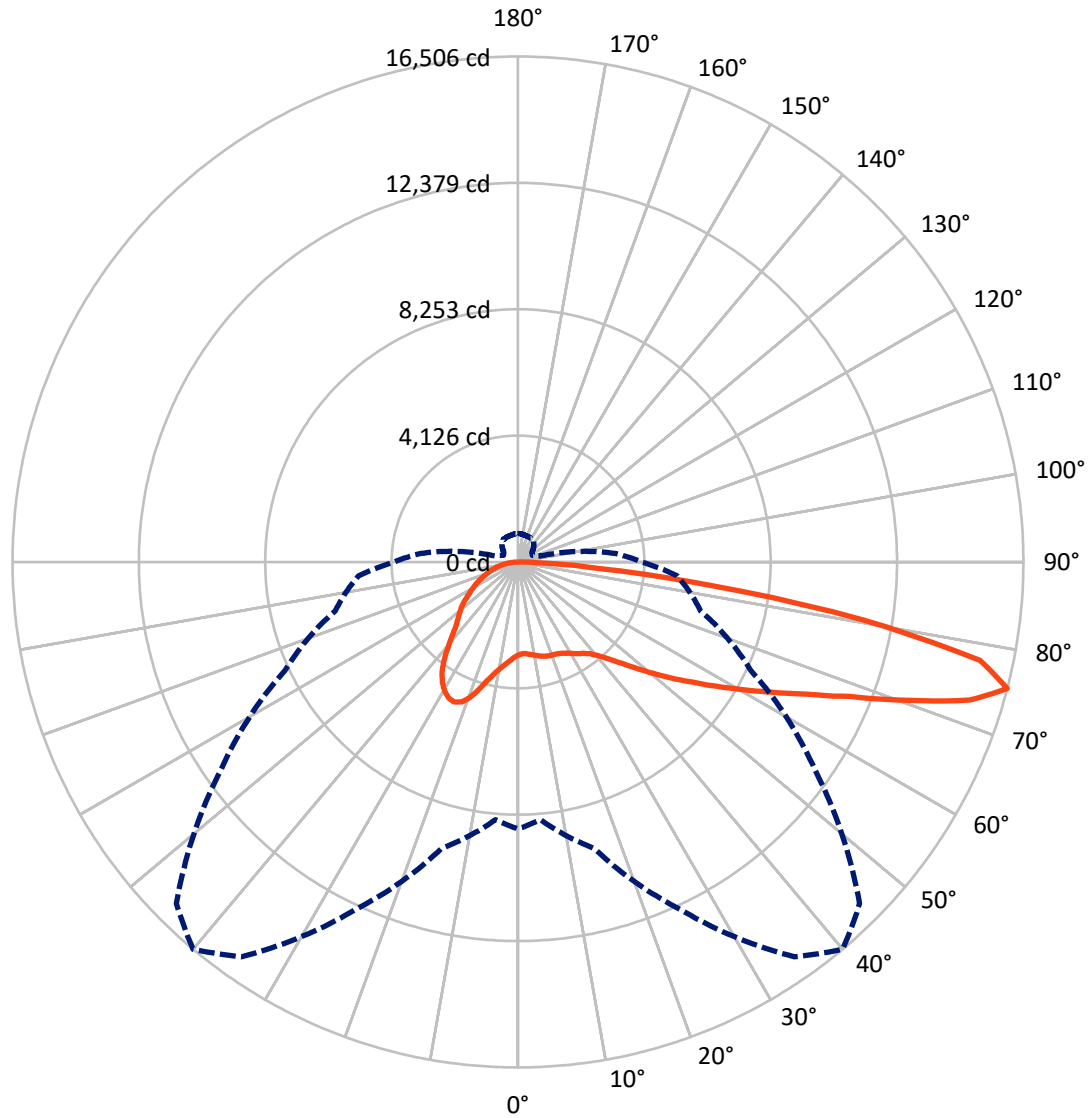
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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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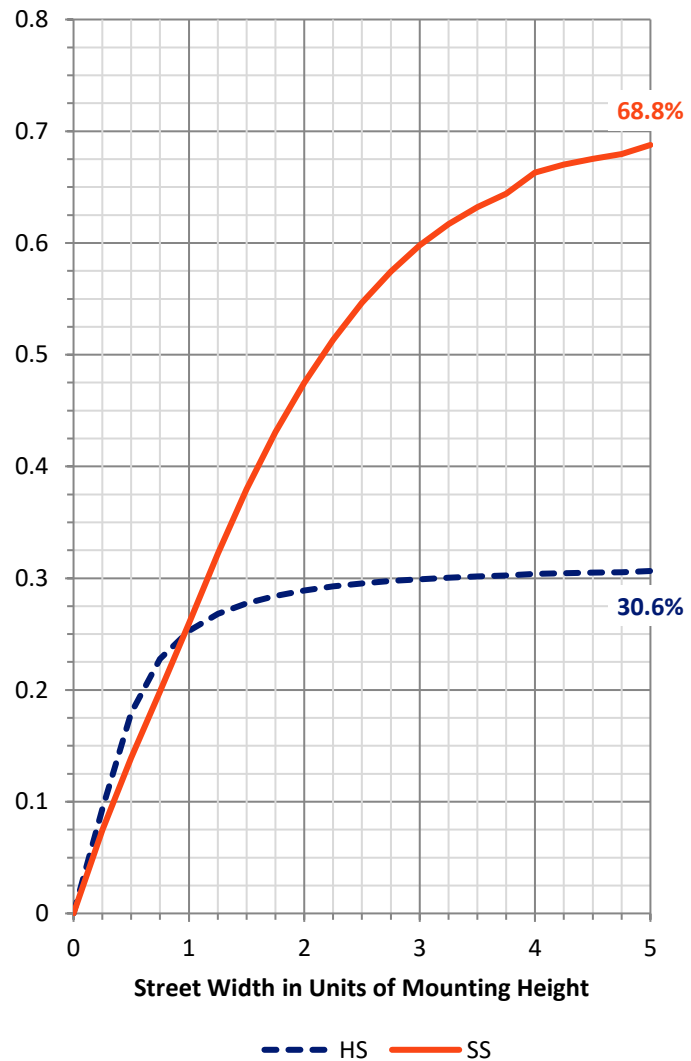
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8216.4	0.0	8216.4
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	18302.4	0.0	18302.4
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	26518.8	0.0	26518.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	302.7	1.1
10°-20°	1016.3	3.8
20°-30°	1855.7	7.0
30°-40°	2631.8	9.9
40°-50°	3553.8	13.4
50°-60°	4780.8	18.0
60°-70°	6067.9	22.9
70°-80°	5507.0	20.8
80°-90°	802.8	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°	26518.8	100.0
0°-180°	26518.8	100.0

**Coefficient of Utilization**



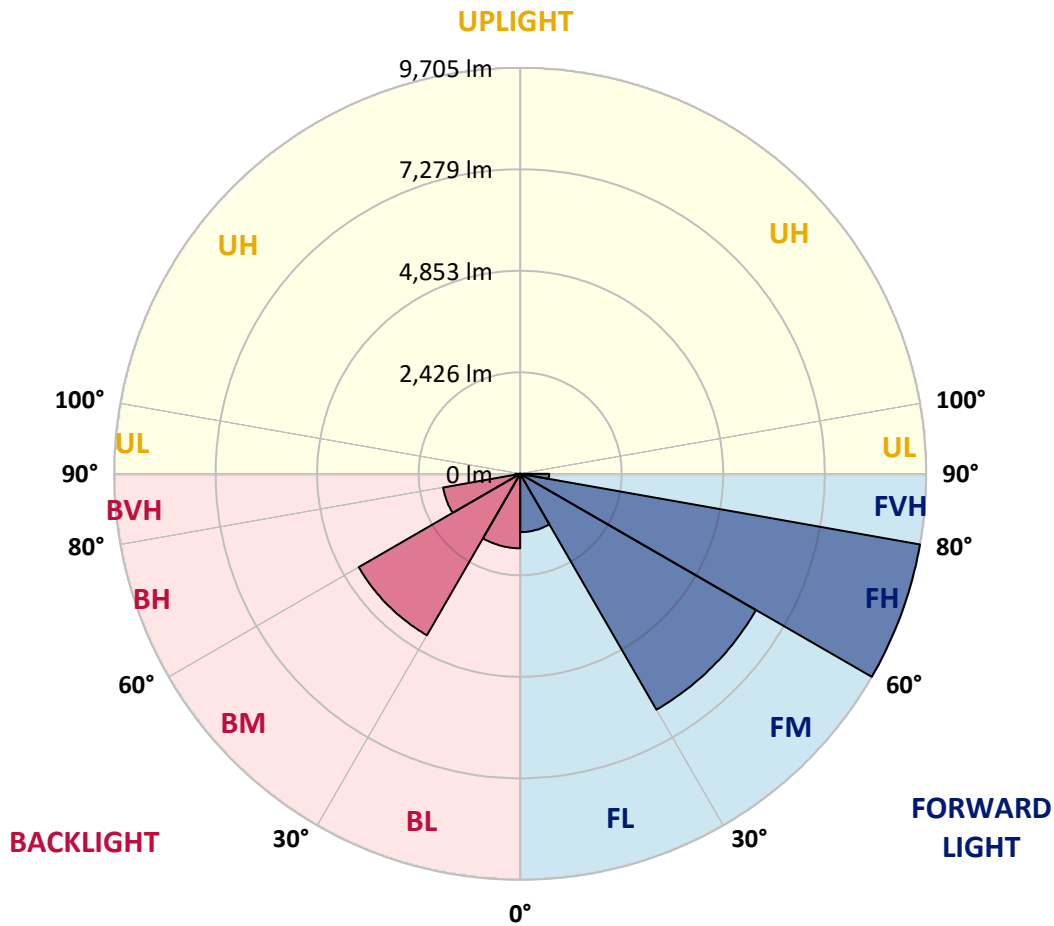
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1394.9	5.3			
FM (30°-60°)	6509.8	24.5			
FH (60°-80°)	9705.5	36.6			G4/12000
FVH (80°-90°)	692.2	2.6			G4/750
BL (0°-30°)	1779.7	6.7	B3/2500		
BM (30°-60°)	4456.7	16.8	B3/5000		
BH (60°-80°)	1869.5	7.0	B3/2500		G3/2500
BVH (80°-90°)	110.5	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°	3032.5	3032.5	3032.5	3032.5	3032.5	3032.5	3032.5	3032.5	3032.5	3032.5	3032.5
2.5°	2986.0	3002.9	2998.7	2993.1	2993.1	2994.4	2993.1	3002.9	3012.8	3022.6	3038.1
5°	3017.0	3033.9	3025.4	3018.4	3012.8	3011.3	3007.1	3005.7	3011.3	3024.1	3045.1
7.5°	3077.5	3094.4	3081.7	3069.1	3057.8	3052.1	3046.5	3038.1	3033.9	3040.9	3070.4
10°	3145.0	3161.8	3146.3	3123.9	3105.6	3098.6	3092.9	3084.5	3078.9	3083.1	3115.5
12.5°	3212.5	3229.4	3208.2	3177.3	3153.4	3149.2	3142.1	3139.4	3137.9	3136.5	3168.9
15°	3275.8	3289.8	3263.1	3226.6	3201.3	3194.2	3187.1	3191.4	3198.4	3206.9	3243.4
17.5°	3325.0	3339.0	3299.7	3251.9	3227.9	3225.2	3221.0	3235.0	3254.7	3275.8	3320.8
20°	3370.0	3384.1	3333.5	3268.7	3240.6	3240.6	3242.1	3271.6	3299.7	3330.6	3392.5
22.5°	3433.3	3444.6	3382.7	3294.0	3253.2	3256.1	3267.4	3296.9	3332.1	3374.2	3460.1
25°	3527.5	3536.0	3460.1	3341.9	3295.5	3303.9	3313.7	3327.9	3361.6	3410.8	3526.1
27.5°	3679.4	3686.5	3586.7	3426.3	3356.0	3370.0	3384.1	3374.2	3389.7	3431.9	3579.6
30°	3893.3	3897.5	3770.9	3558.5	3458.7	3465.6	3468.5	3427.7	3398.2	3431.9	3617.5
32.5°	4146.4	4145.0	3994.5	3718.8	3575.4	3568.3	3544.4	3464.3	3395.3	3424.8	3651.4
35°	4538.8	4523.3	4329.3	3943.9	3707.6	3664.0	3607.7	3505.1	3409.5	3417.9	3680.9
37.5°	5188.7	5140.8	4872.2	4312.4	3904.5	3793.4	3710.4	3571.2	3440.3	3415.0	3716.0
40°	5921.4	5861.0	5565.6	4817.3	4199.8	4021.3	3887.6	3665.4	3490.9	3427.7	3768.1
42.5°	6790.7	6704.9	6387.0	5412.3	4574.0	4315.2	4114.0	3784.9	3565.6	3468.5	3838.4
45°	7858.3	7744.3	7294.2	6083.2	5045.2	4700.5	4432.0	3966.3	3679.4	3547.2	3943.9
47.5°	8937.1	8965.2	8325.2	6851.2	5610.6	5176.0	4830.0	4239.3	3845.4	3673.8	4114.0
50°	10083.3	10103.0	9350.6	7702.2	6252.0	5713.2	5277.3	4544.4	4076.1	3853.9	4368.7
52.5°	10977.9	10980.7	10281.7	8592.5	6920.1	6304.1	5759.7	4893.2	4343.3	4092.9	4707.6
55°	11537.7	11530.6	10934.3	9434.9	7688.0	6924.3	6294.2	5289.9	4669.7	4374.3	5133.8
57.5°	11944.2	11923.1	11384.4	10159.3	8506.7	7657.1	6899.0	5740.0	5055.0	4709.1	5695.0
60°	12098.9	12086.3	11689.6	10785.3	9367.5	8467.2	7596.6	6243.6	5492.5	5104.3	6416.5
62.5°	12157.9	12181.9	11989.2	11391.4	10288.7	9364.6	8363.2	6845.6	5984.8	5551.5	7177.5
65°	12366.1	12409.8	12370.3	12184.7	11329.5	10415.3	9380.1	7561.4	6522.1	6031.2	7972.1
67.5°	12778.3	12821.8	12838.7	13134.1	12601.0	11724.8	10648.7	8453.2	7150.7	6529.0	8569.9
70°	12768.4	12755.7	13053.9	13889.4	14193.2	13537.8	12359.1	9550.2	7900.4	6942.6	8645.9
72.5°	11622.1	11520.8	12225.5	13881.0	15518.2	15431.0	14447.8	10965.2	8547.5	6993.3	7502.4
75°	8719.1	8449.0	9693.7	12509.6	15739.0	16505.6	15775.6	11843.0	8394.1	6178.8	5221.0
77.5°	3728.6	3457.2	4924.2	9260.6	14086.3	15429.5	14557.5	10332.3	6700.6	4086.0	2564.0
80°	976.1	974.7	1488.1	4198.5	9579.9	11394.2	9996.1	6672.5	3828.6	1460.0	707.5
82.5°	403.6	393.8	547.1	1632.9	4680.9	6394.1	5218.2	2976.2	1382.6	395.2	234.9
85°	150.5	149.1	265.8	564.1	1651.3	2637.2	1908.7	761.0	344.6	192.7	105.5
87.5°	42.2	40.8	57.7	195.5	402.3	610.4	326.4	125.2	97.1	76.0	31.0
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°	3032.5	3032.5	3032.5	3032.5	3032.5	3032.5	3032.5	3032.5	3032.5	3032.5	3032.5
2.5°	3042.3	3049.4	3062.0	3071.8	3084.5	3098.6	3118.3	3131.0	3143.6	3152.0	3146.3
5°	3055.0	3070.4	3102.8	3135.2	3173.1	3208.2	3249.0	3278.6	3302.6	3309.5	3312.4
7.5°	3083.1	3108.4	3163.3	3218.1	3278.6	3336.3	3395.3	3445.9	3486.7	3502.2	3503.7
10°	3132.3	3166.1	3243.4	3320.8	3401.0	3489.6	3565.6	3638.6	3696.4	3720.2	3721.7
12.5°	3194.2	3236.4	3337.7	3444.6	3555.7	3678.0	3776.5	3866.5	3938.3	3970.6	3970.6
15°	3274.4	3329.2	3458.7	3602.1	3765.2	3935.5	4060.6	4160.5	4240.6	4280.1	4277.2
17.5°	3361.6	3434.8	3597.9	3814.4	4047.9	4271.6	4417.9	4491.0	4574.0	4612.0	4610.6
20°	3445.9	3536.0	3769.4	4084.5	4395.4	4633.1	4751.2	4771.0	4776.5	4780.8	4792.0
22.5°	3533.2	3654.1	3984.7	4424.9	4758.3	4922.9	4939.7	4855.3	4737.1	4682.3	4697.8
25°	3628.8	3789.1	4265.9	4800.5	5070.5	5090.2	4960.8	4755.5	4531.8	4429.1	4444.6
27.5°	3721.7	3945.3	4603.6	5159.1	5295.6	5122.5	4844.0	4552.9	4282.9	4174.5	4187.2
30°	3814.4	4123.9	4976.3	5472.8	5398.3	5042.4	4659.9	4334.9	4063.4	3949.5	3962.1
32.5°	3908.7	4332.1	5405.2	5699.2	5379.9	4872.2	4430.6	4090.2	3851.0	3731.5	3747.0
35°	4015.6	4588.1	5811.7	5823.0	5257.5	4621.8	4128.2	3797.6	3589.4	3493.8	3514.9
37.5°	4154.8	4913.0	6170.4	5854.0	5043.8	4254.8	3752.6	3451.6	3280.0	3236.4	3267.4
40°	4327.9	5304.0	6444.7	5804.7	4727.3	3808.9	3341.9	3101.3	3004.4	3014.2	3047.9
42.5°	4552.9	5741.4	6637.4	5678.1	4287.1	3348.9	2981.8	2874.9	2921.4	2960.7	2997.3
45°	4845.5	6195.7	6756.9	5462.9	3789.1	2959.3	2769.4	2794.8	2829.9	2834.1	2862.3
47.5°	5219.6	6655.6	6835.7	5138.0	3281.4	2685.1	2634.5	2640.0	2633.0	2603.5	2625.9
50°	5686.6	7102.9	6906.0	4707.6	2849.6	2513.4	2446.0	2426.3	2329.2	2233.6	2246.2
52.5°	6218.3	7513.7	6935.6	4173.2	2513.4	2370.0	2260.3	2136.5	1955.1	1925.6	1935.4
55°	6809.0	7893.4	6859.6	3516.3	2230.7	2185.7	2019.8	1870.6	1850.9	1825.6	1829.9
57.5°	7515.1	8302.7	6704.9	2783.5	1941.0	1970.6	1808.8	1825.6	1790.5	1751.1	1744.0
60°	8287.2	8726.0	6433.4	2115.4	1641.4	1701.9	1754.0	1752.5	1742.7	1710.3	1699.0
62.5°	8982.1	9004.5	5899.0	1620.3	1378.4	1493.7	1635.8	1634.4	1626.0	1607.6	1600.6
65°	9395.6	8962.4	5007.2	1275.7	1161.8	1322.1	1475.5	1486.7	1488.1	1486.7	1486.7
67.5°	9322.4	8468.7	3783.6	1015.5	983.2	1147.7	1316.5	1332.0	1343.3	1346.0	1348.9
70°	8495.4	7384.2	2467.1	810.2	824.2	994.5	1166.0	1181.5	1191.4	1202.5	1208.2
72.5°	6621.9	5429.2	1412.1	655.5	685.0	862.2	1016.9	1035.2	1040.8	1061.9	1070.4
75°	4035.3	3192.8	762.3	516.2	562.6	737.0	869.2	890.3	900.2	925.5	928.3
77.5°	1918.5	1382.6	434.6	402.3	452.9	602.0	734.2	758.1	731.4	745.5	734.2
80°	648.4	513.4	274.3	306.6	346.0	469.8	587.9	611.8	555.6	552.8	547.1
82.5°	226.4	208.2	174.5	204.0	223.7	336.2	444.4	475.4	413.5	412.2	392.4
85°	88.6	84.4	97.1	111.1	133.7	206.7	292.5	308.0	254.6	205.3	202.5
87.5°	18.2	19.7	23.9	25.3	40.8	71.8	105.5	129.4	102.7	87.2	80.2
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)