

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: P884511

Luminaire Tested: **NVN-SB5B-835-U-T4FT**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P884511  
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-SB5B-835-U-T4FT  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

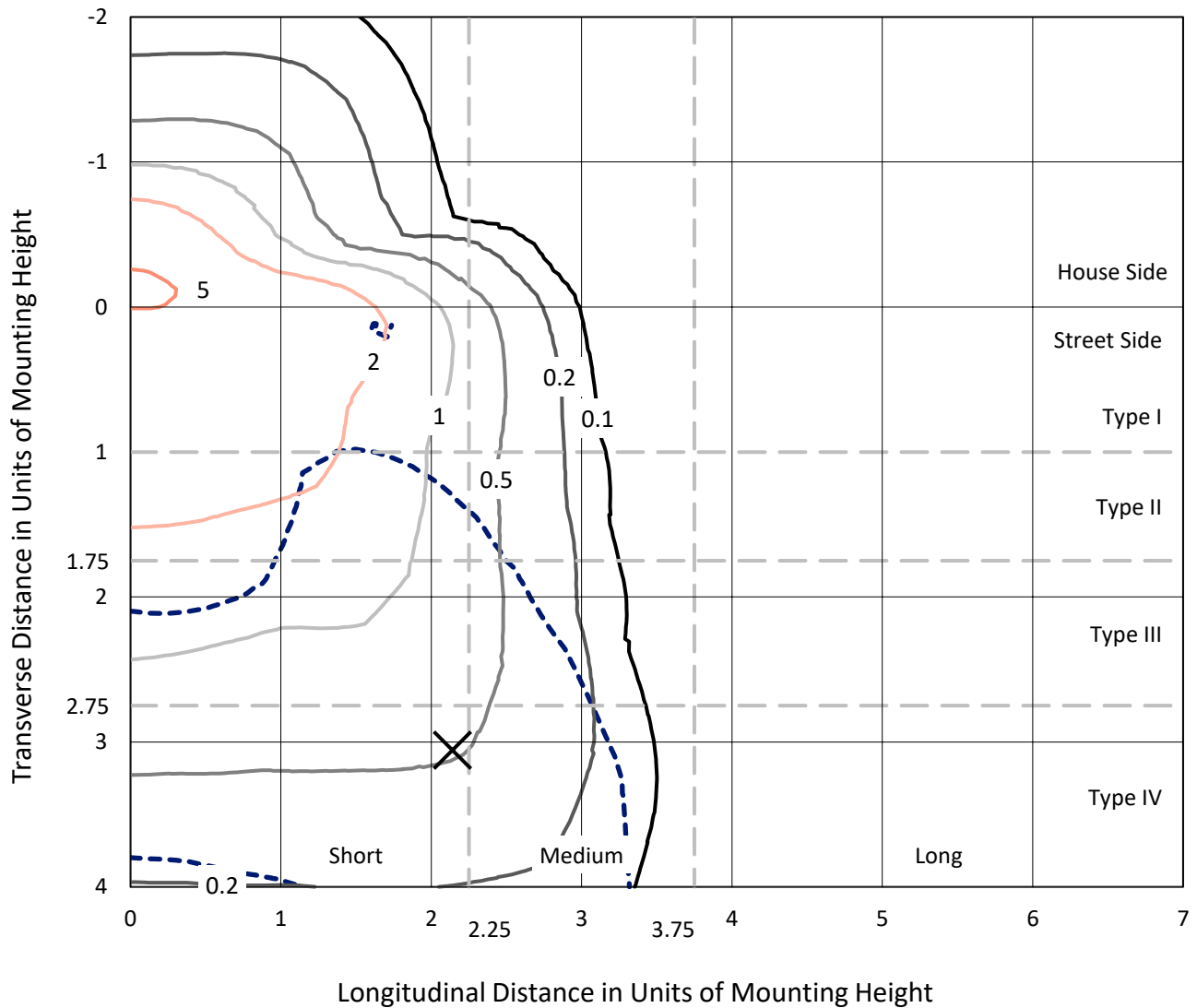
Lumens per Lamp: N/A  
Luminaire Lumens: 23829 lumens  
Efficiency: N/A  
Efficacy: 130.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 182.7  
Input Voltage (V): 120.0  
Input Current (Ain): 1.547  
Voltage Rise (V): NR  
Power Factor: 0.992  
Total Harmonic Distortion (THDi): 11.125  
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

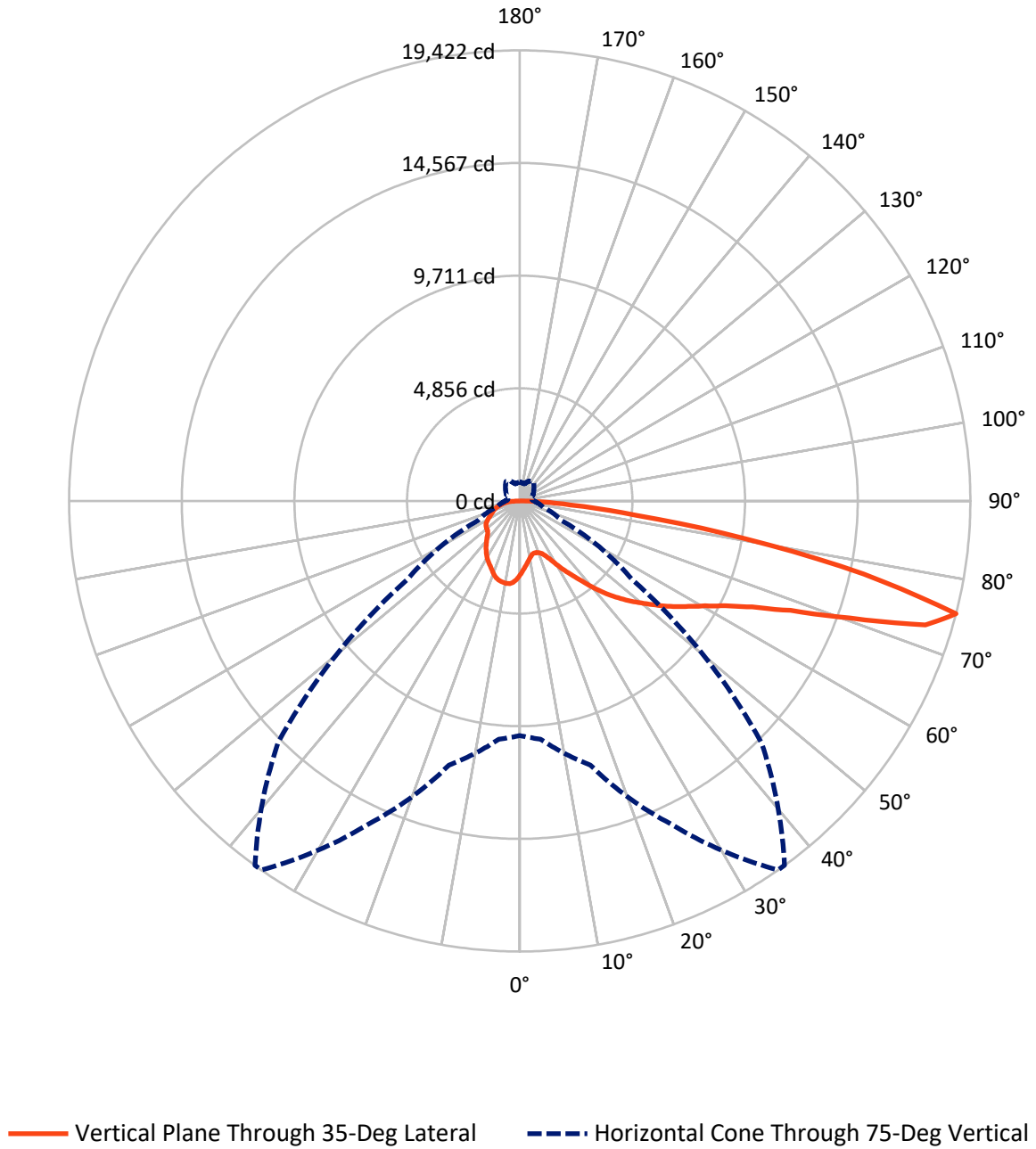
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5670.7	0.0	5670.7
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	18158.3	0.0	18158.3
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	23829.0	0.0	23829.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	300.6	1.3
10°-20°	867.2	3.6
20°-30°	1456.2	6.1
30°-40°	2263.2	9.5
40°-50°	3359.2	14.1
50°-60°	4637.6	19.5
60°-70°	5626.4	23.6
70°-80°	4649.8	19.5
80°-90°	668.8	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°	23829.0	100.0
0°-180°	23829.0	100.0

**Coefficient of Utilization**



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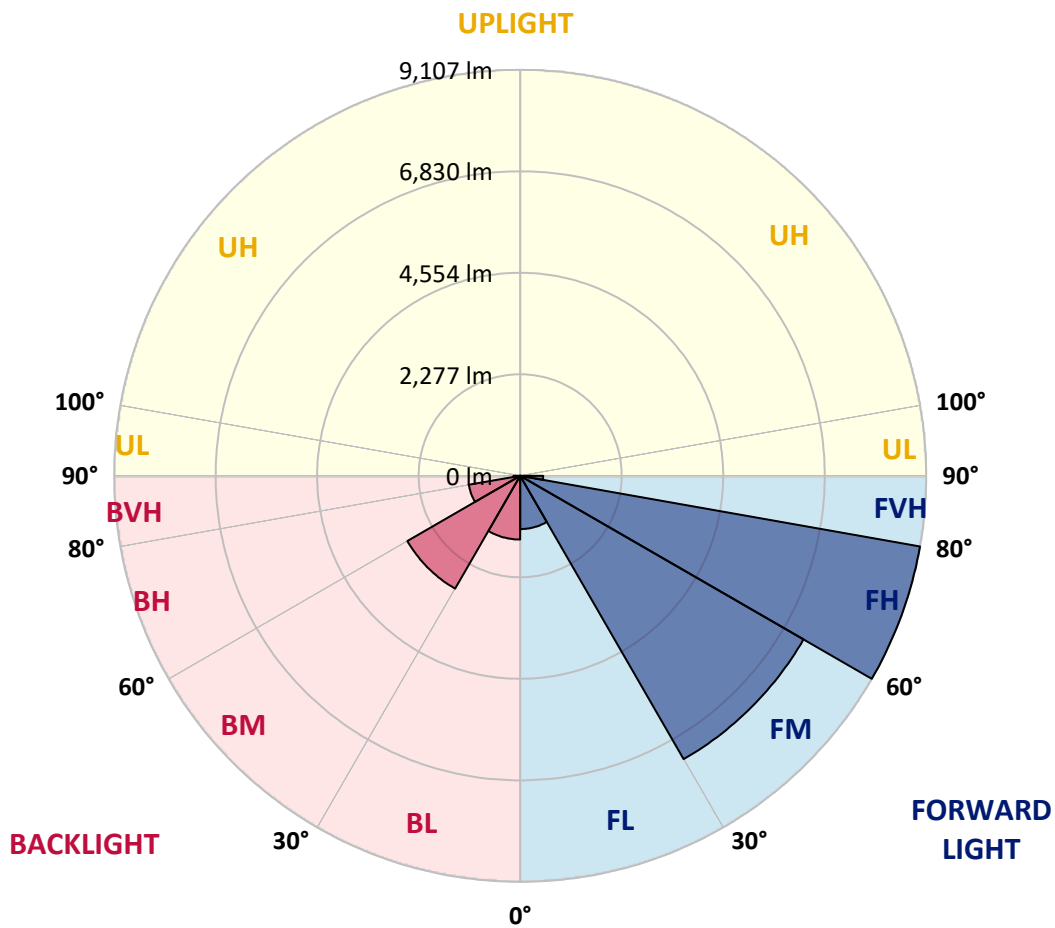
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1195.0	5.0			
FM (30°-60°)	7338.0	30.8			
FH (60°-80°)	9107.1	38.2			G4/12000
FVH (80°-90°)	518.2	2.2			G4/750
BL (0°-30°)	1429.1	6.0	B3/2500		
BM (30°-60°)	2921.9	12.3	B3/5000		
BH (60°-80°)	1169.1	4.9	B3/2500		G3/2500
BVH (80°-90°)	150.6	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°	3175.4	3175.4	3175.4	3175.4	3175.4	3175.4	3175.4	3175.4	3175.4	3175.4	3175.4
2.5°	2928.0	2946.1	2953.8	2949.9	2969.3	2966.7	2993.7	3027.2	3073.6	3118.7	3184.4
5°	2702.6	2721.9	2738.7	2754.1	2791.5	2803.1	2845.6	2910.0	2995.0	3081.3	3189.5
7.5°	2492.6	2509.4	2535.1	2563.5	2626.6	2638.2	2709.1	2809.5	2928.0	3054.3	3203.7
10°	2321.3	2338.1	2365.1	2397.3	2475.9	2490.1	2580.2	2714.2	2868.8	3028.5	3219.2
12.5°	2247.9	2253.0	2268.5	2300.7	2369.0	2378.0	2477.2	2630.5	2810.8	3009.2	3242.4
15°	2244.0	2254.3	2255.6	2272.4	2329.0	2332.9	2424.4	2576.4	2774.7	3005.3	3277.1
17.5°	2282.7	2290.4	2278.8	2289.1	2336.8	2343.2	2415.3	2550.6	2763.2	3022.1	3336.4
20°	2385.7	2392.2	2357.4	2343.2	2378.0	2383.1	2454.0	2567.4	2774.7	3056.9	3417.6
22.5°	2604.7	2608.6	2523.6	2465.6	2468.2	2470.7	2532.6	2635.6	2819.8	3120.0	3520.6
25°	2946.1	2943.5	2808.2	2696.2	2631.8	2617.6	2658.8	2746.4	2895.8	3203.7	3653.3
27.5°	3345.4	3326.1	3190.8	3023.4	2883.0	2862.3	2853.3	2890.7	3004.0	3314.5	3815.6
30°	3796.3	3778.2	3632.7	3413.7	3219.2	3185.7	3100.7	3081.3	3165.1	3465.2	4041.0
32.5°	4290.9	4279.3	4105.4	3840.1	3579.9	3541.2	3398.2	3346.7	3412.4	3693.2	4355.4
35°	4705.7	4695.4	4551.2	4278.1	3959.9	3912.2	3766.7	3708.7	3742.2	3985.6	4766.3
37.5°	5080.6	5075.4	4951.8	4736.7	4408.2	4350.2	4186.6	4167.3	4160.8	4370.8	5264.8
40°	5428.4	5415.5	5286.7	5173.4	4929.9	4877.1	4732.8	4716.0	4667.1	4844.9	5829.0
42.5°	5813.6	5780.1	5593.3	5540.5	5474.8	5431.0	5344.7	5347.3	5239.0	5379.5	6426.8
45°	6127.9	6108.6	5916.6	5885.7	5956.6	5938.5	6013.2	6032.6	5822.6	5939.8	7047.7
47.5°	6465.4	6447.4	6285.1	6263.2	6455.1	6460.2	6724.3	6730.8	6392.0	6522.1	7669.9
50°	6881.5	6855.7	6694.7	6721.7	6936.9	6956.2	7439.3	7395.5	6916.3	7113.4	8286.9
52.5°	7155.9	7171.3	7136.5	7180.3	7474.0	7492.1	8142.6	8030.5	7435.4	7696.9	8892.3
55°	7358.1	7389.0	7497.2	7597.7	8040.8	8058.9	8806.0	8634.7	7865.7	8237.9	9461.7
57.5°	7618.3	7574.5	7776.8	7972.6	8579.3	8627.0	9451.4	9217.0	8247.0	8704.3	9852.0
60°	7991.9	7961.0	8118.1	8408.0	9182.2	9258.2	10134.1	9741.3	8526.5	9074.0	9928.0
62.5°	8749.4	8672.1	8696.5	8952.9	9942.2	10042.7	10904.5	10198.6	8665.6	9218.3	9521.0
65°	9881.7	9749.0	9625.3	9803.1	11012.7	11111.9	11774.0	10558.0	8614.1	8938.7	8440.2
67.5°	11307.7	11176.3	11024.3	11191.7	12589.4	12668.0	12847.1	10760.2	8208.3	7861.8	6529.8
70°	12483.8	12434.8	12616.5	13305.7	15107.8	15110.4	14222.8	10592.7	7096.6	5574.0	3778.2
72.5°	12327.9	12298.3	13255.4	15386.1	18281.9	18213.6	15525.2	9325.2	4780.5	2514.5	1415.7
75°	10113.5	10305.5	11788.2	15348.7	19422.0	19412.9	14727.8	5928.2	1977.4	1042.1	731.7
77.5°	5423.3	5727.3	7653.1	11332.2	15161.9	15389.9	10354.4	2074.0	848.9	667.3	506.3
80°	1768.7	2034.0	3050.4	5769.8	9852.0	9809.5	4437.8	814.1	581.0	472.8	350.4
82.5°	751.0	781.9	1362.9	2724.5	5056.1	4977.5	1413.1	467.6	408.4	323.3	216.4
85°	293.7	328.5	601.6	1259.8	2189.9	2142.3	510.1	231.9	261.5	211.3	128.8
87.5°	96.6	117.2	215.1	431.5	681.4	657.0	125.0	79.9	113.4	96.6	46.4
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°	3175.4	3175.4	3175.4	3175.4	3175.4	3175.4	3175.4	3175.4	3175.4	3175.4	3175.4
2.5°	3202.4	3223.0	3247.5	3283.6	3314.5	3340.3	3367.3	3384.1	3390.5	3409.8	3408.5
5°	3225.6	3270.7	3331.2	3390.5	3448.5	3483.3	3514.2	3529.6	3543.8	3554.1	3556.7
7.5°	3264.3	3322.2	3417.6	3494.8	3543.8	3572.1	3592.7	3587.6	3592.7	3595.3	3599.2
10°	3297.8	3378.9	3492.3	3565.7	3603.1	3604.3	3599.2	3581.2	3572.1	3573.4	3576.0
12.5°	3337.7	3427.9	3550.2	3612.1	3622.4	3594.0	3572.1	3541.2	3529.6	3524.5	3521.9
15°	3391.8	3494.8	3613.4	3636.5	3610.8	3574.7	3537.4	3487.1	3461.4	3440.7	3447.2
17.5°	3457.5	3570.8	3662.3	3645.6	3590.2	3530.9	3470.4	3394.4	3341.6	3319.7	3320.9
20°	3548.9	3650.7	3699.7	3626.2	3542.5	3452.3	3349.3	3256.5	3207.6	3185.7	3183.1
22.5°	3659.7	3757.6	3735.7	3592.7	3474.2	3330.0	3201.1	3132.9	3108.4	3092.9	3095.5
25°	3792.4	3876.1	3761.5	3543.8	3362.2	3167.6	3068.5	3046.6	3035.0	3023.4	3023.4
27.5°	3965.0	4010.1	3780.8	3471.7	3187.0	2995.0	2959.0	2962.8	2959.0	2939.6	2943.5
30°	4193.0	4184.0	3798.9	3354.4	2986.0	2839.2	2841.7	2858.5	2861.1	2848.2	2854.6
32.5°	4493.2	4401.7	3807.9	3202.4	2794.1	2702.6	2705.2	2723.2	2736.1	2714.2	2724.5
35°	4856.5	4655.5	3793.7	3011.8	2645.9	2572.5	2553.2	2558.3	2562.2	2541.6	2555.8
37.5°	5280.3	4940.2	3730.6	2800.5	2523.6	2445.0	2403.8	2369.0	2348.4	2329.0	2341.9
40°	5745.3	5250.6	3614.6	2594.4	2387.0	2309.7	2247.9	2182.2	2112.6	2086.9	2098.5
42.5°	6232.2	5570.1	3474.2	2397.3	2229.8	2166.7	2101.0	2005.7	1901.4	1848.5	1855.0
45°	6737.2	5897.3	3336.4	2202.8	2068.8	2041.8	1965.8	1851.1	1737.8	1670.8	1665.6
47.5°	7231.9	6206.5	3134.2	2007.0	1918.1	1947.7	1888.5	1782.8	1656.6	1551.0	1539.4
50°	7704.6	6496.3	2803.1	1808.6	1795.7	1919.4	1862.7	1710.7	1566.4	1431.2	1419.6
52.5°	8173.5	6730.8	2379.3	1628.3	1730.0	1911.7	1829.2	1661.8	1485.3	1343.6	1328.1
55°	8571.6	6851.9	1970.9	1473.7	1634.7	1846.0	1789.3	1603.8	1370.6	1219.9	1207.0
57.5°	8798.3	6754.0	1630.8	1321.7	1503.3	1737.8	1721.0	1480.1	1234.1	1118.1	1102.7
60°	8700.4	6357.2	1352.6	1189.0	1378.4	1620.5	1602.5	1357.7	1129.7	1020.2	1004.8
62.5°	8160.7	5601.0	1132.3	1073.1	1265.0	1500.7	1484.0	1263.7	1049.9	944.2	927.5
65°	7073.4	4556.3	961.0	976.4	1150.3	1356.5	1380.9	1185.1	986.7	883.7	866.9
67.5°	5394.9	3300.3	827.0	892.7	1038.3	1214.8	1285.6	1128.4	933.9	836.0	820.6
70°	3074.9	1874.3	713.7	811.6	939.1	1083.4	1212.2	1083.4	877.3	796.1	785.8
72.5°	1165.8	860.5	617.0	730.4	843.8	972.6	1131.0	1012.5	811.6	751.0	740.7
75°	622.2	524.3	519.1	635.1	734.3	864.4	1029.3	943.0	762.6	793.5	819.3
77.5°	423.8	371.0	434.1	543.6	614.5	744.6	921.1	837.3	660.8	658.3	606.7
80°	293.7	262.8	353.0	438.0	475.3	626.1	803.8	718.8	538.5	502.4	480.5
82.5°	176.5	171.3	264.1	327.2	336.2	483.1	666.0	602.9	440.6	383.9	386.5
85°	96.6	101.8	168.8	191.9	195.8	337.5	521.7	466.3	338.8	284.7	287.3
87.5°	27.1	34.8	61.8	76.0	94.0	175.2	310.5	277.0	170.0	118.5	118.5
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)