

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: P966280

Luminaire Tested: **NVN-SB4B-827-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966280
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB4B-827-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20649.6 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

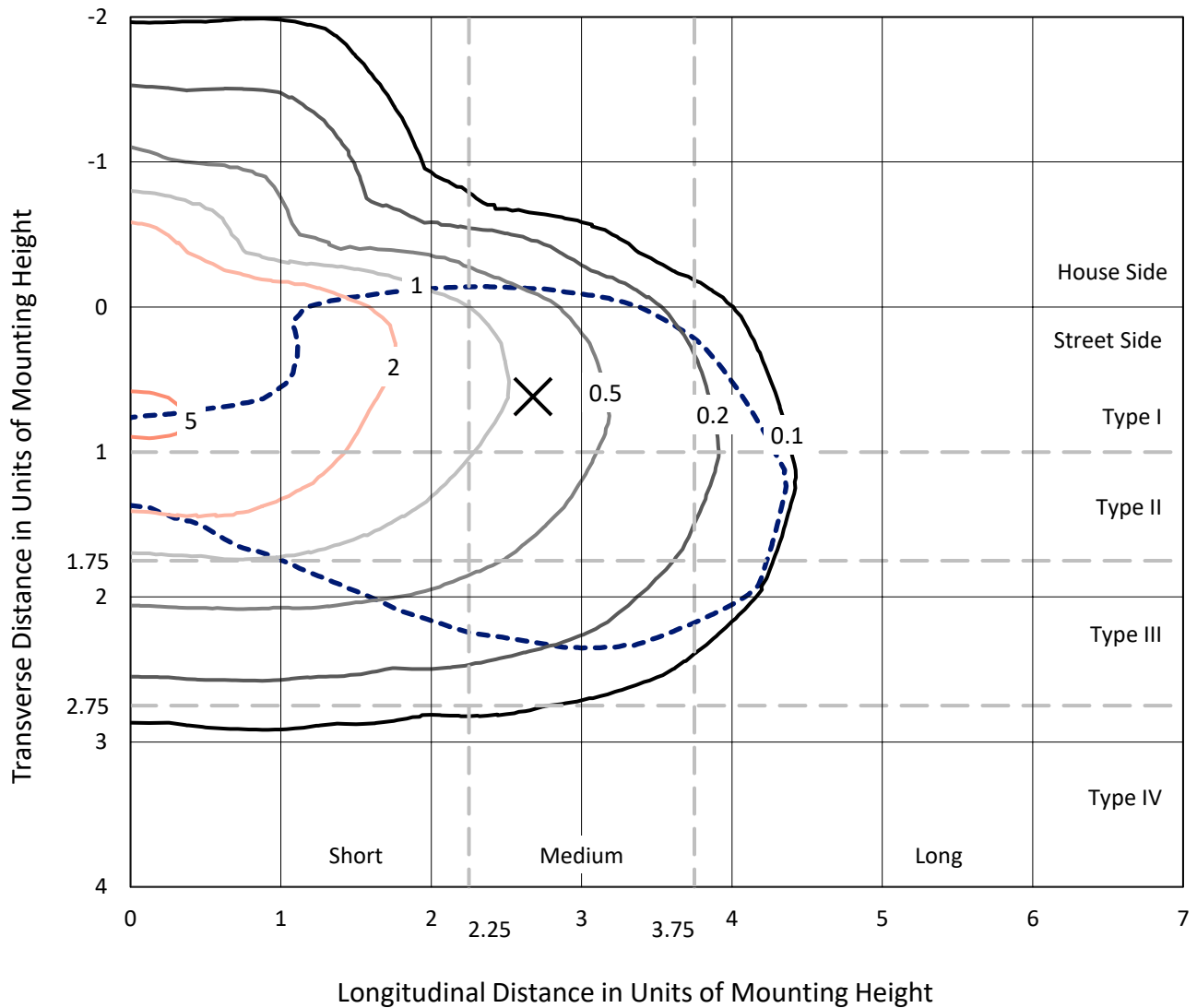
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

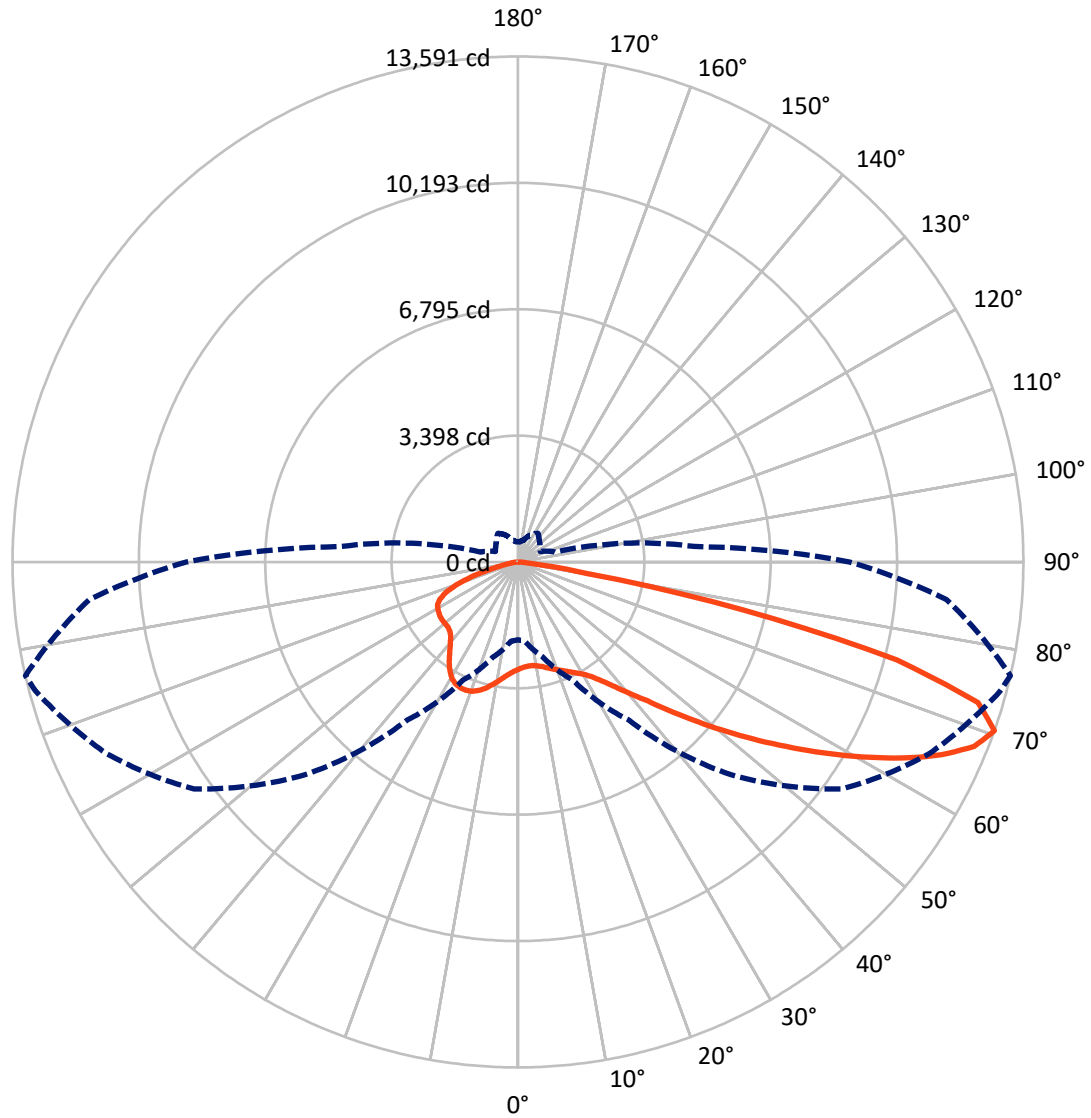
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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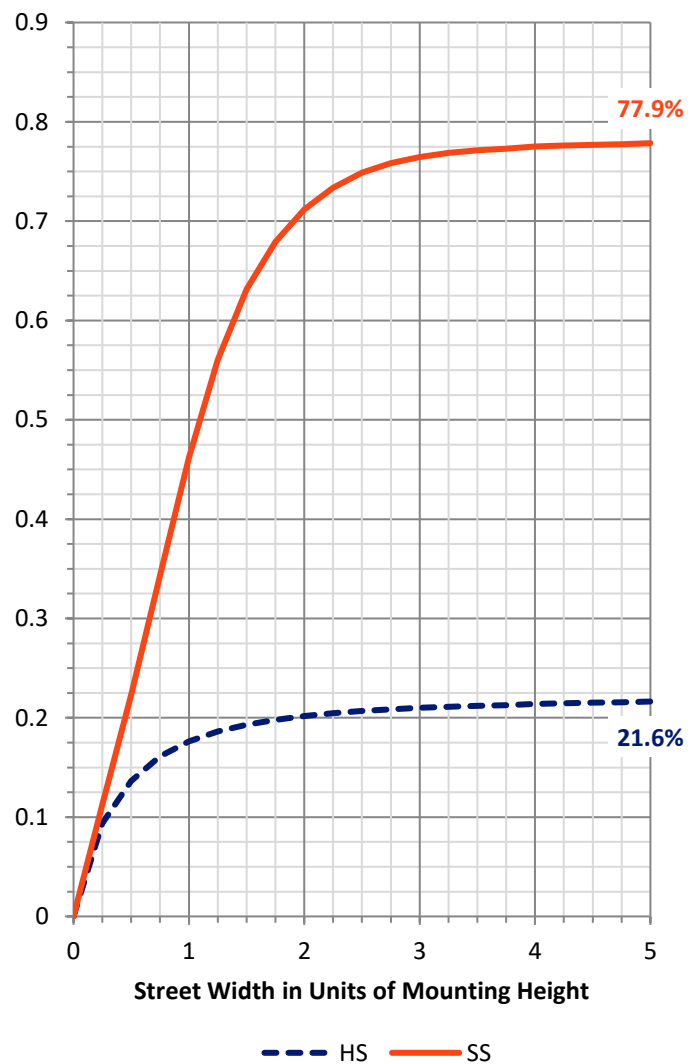
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4521.9	0.0	4521.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	16127.7	0.0	16127.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	20649.6	0.0	20649.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.8	1.3
10°-20°	793.0	3.8
20°-30°	1356.1	6.6
30°-40°	2180.7	10.6
40°-50°	3404.7	16.5
50°-60°	4547.8	22.0
60°-70°	4847.3	23.5
70°-80°	2983.9	14.5
80°-90°	261.5	1.3
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°	20649.6	100.0
0°-180°	20649.6	100.0

Coefficient of Utilization



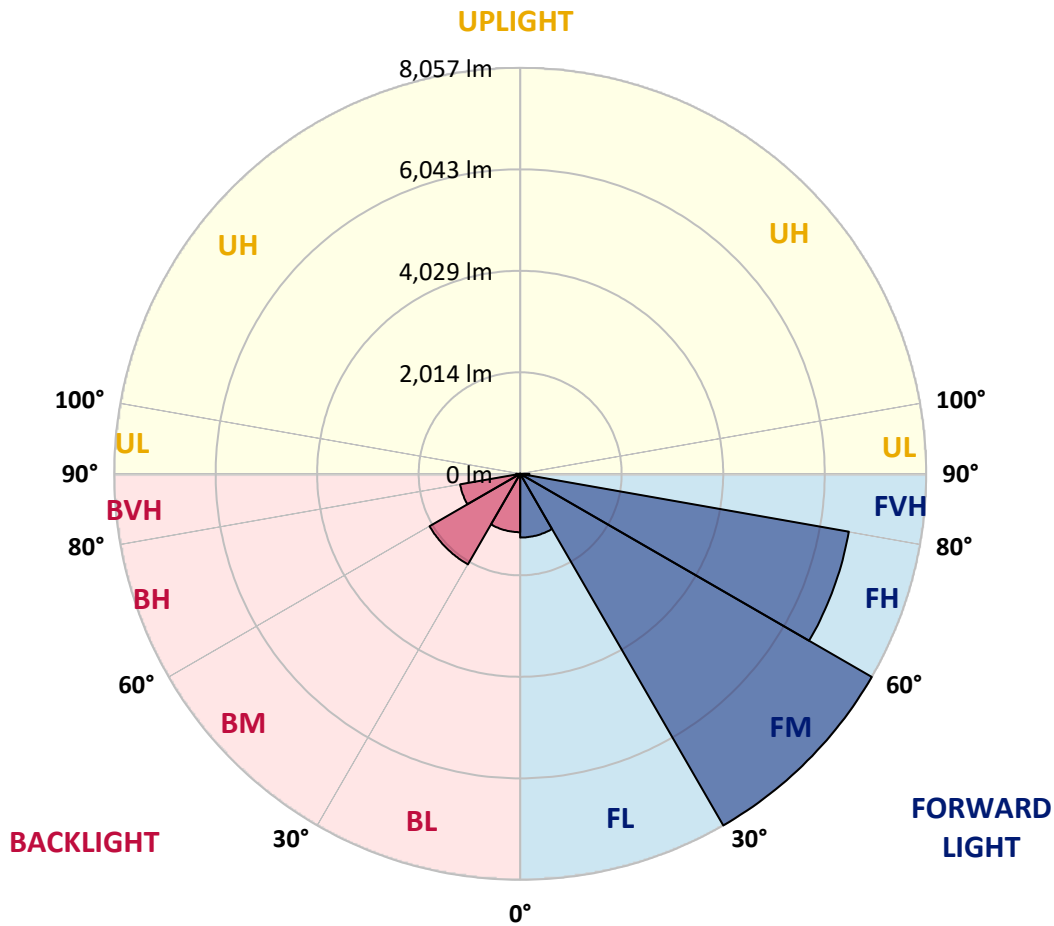
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1265.1	6.1			
FM (30°-60°)	8057.0	39.0			
FH (60°-80°)	6622.7	32.1			G3/7500
FVH (80°-90°)	182.8	0.9			G2/225
BL (0°-30°)	1158.7	5.6	B3/2500		
BM (30°-60°)	2076.1	10.1	B2/2500		
BH (60°-80°)	1208.5	5.9	B3/2500		G3/2500
BVH (80°-90°)	78.6	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-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9
2.5°	2655.6	2654.5	2668.3	2672.5	2697.9	2715.8	2749.7	2785.6	2832.2	2837.4	2866.0
5°	2502.2	2502.2	2518.1	2535.0	2567.7	2603.7	2655.6	2718.0	2798.4	2811.1	2881.9
7.5°	2372.2	2380.6	2394.3	2427.1	2465.2	2517.0	2596.3	2685.2	2791.0	2811.1	2925.2
10°	2267.4	2276.9	2293.8	2320.3	2377.4	2449.3	2553.0	2667.2	2808.9	2840.6	2988.7
12.5°	2234.6	2244.1	2253.7	2273.8	2326.6	2411.2	2535.0	2675.7	2852.3	2883.9	3075.4
15°	2310.8	2322.4	2315.1	2309.7	2337.2	2414.4	2543.4	2706.3	2906.2	2951.7	3182.2
17.5°	2486.3	2490.5	2473.6	2423.9	2419.7	2460.9	2583.6	2748.6	2973.8	3023.5	3290.0
20°	2769.8	2762.4	2727.4	2629.1	2573.1	2564.7	2652.4	2812.1	3043.6	3096.5	3406.4
22.5°	3154.7	3146.2	3076.4	2921.0	2796.2	2713.7	2751.8	2894.6	3121.9	3181.2	3519.5
25°	3634.9	3623.3	3520.7	3309.1	3115.6	2911.5	2887.1	3003.5	3218.2	3273.1	3638.0
27.5°	4195.3	4185.9	4074.8	3795.6	3516.4	3182.2	3055.3	3131.5	3318.6	3381.1	3771.3
30°	4798.2	4825.7	4629.0	4328.6	3975.4	3535.4	3281.6	3289.0	3448.7	3504.8	3933.1
32.5°	5506.7	5554.4	5317.5	4936.7	4454.4	3919.4	3567.2	3509.0	3638.0	3684.6	4137.2
35°	6208.9	6263.0	6066.3	5645.3	5090.0	4372.0	3865.4	3761.7	3889.8	3940.5	4407.9
37.5°	6816.0	6887.9	6786.4	6420.5	5770.1	4917.6	4254.6	4058.9	4199.6	4263.1	4771.8
40°	7295.1	7405.1	7397.7	7169.3	6571.7	5579.7	4748.5	4426.0	4584.5	4653.3	5212.7
42.5°	7684.3	7779.4	7862.0	7850.4	7408.3	6331.6	5329.1	4902.9	5023.4	5102.8	5708.7
45°	7952.9	8054.4	8232.1	8423.6	8213.1	7136.5	5994.3	5468.7	5578.7	5698.2	6300.0
47.5°	8192.9	8308.2	8538.8	8842.4	8896.3	7944.5	6723.0	6127.6	6228.0	6351.7	6893.2
50°	8214.1	8313.6	8671.0	9101.4	9381.7	8720.7	7505.6	6866.8	6960.9	7093.1	7528.8
52.5°	7703.3	7859.8	8483.8	9094.0	9604.9	9370.0	8282.8	7635.6	7741.4	7900.0	8186.7
55°	5979.4	6208.9	7934.9	8810.6	9525.5	9789.9	9022.2	8453.2	8588.5	8754.5	8848.6
57.5°	5150.3	5250.9	6298.8	8294.5	9163.8	9898.8	9646.1	9279.1	9496.9	9678.9	9548.8
60°	4629.0	4712.5	5332.3	7491.8	8687.9	9726.4	10128.3	10049.0	10425.5	10642.3	10264.8
62.5°	4070.6	4149.9	4713.6	6255.5	8078.7	9439.8	10432.9	10759.7	11377.3	11614.2	10939.5
65°	3516.4	3584.1	4124.5	5256.1	7304.7	9153.2	10590.5	11374.1	12258.3	12503.7	11500.0
67.5°	2898.8	2954.9	3465.6	4434.4	6363.4	8760.9	10668.7	11857.4	13025.0	13235.4	11777.0
70°	2091.8	2135.3	2663.0	3506.9	5182.1	8086.1	10637.0	12200.1	13422.7	13590.8	11567.6
72.5°	988.8	1028.0	1647.7	2276.9	3660.3	6772.7	9995.1	11928.3	13018.6	12935.1	10285.9
75°	527.8	561.6	946.5	1249.0	1933.3	4642.7	8179.2	10275.3	10932.0	10525.9	7601.8
77.5°	357.4	383.9	585.9	749.8	883.0	2204.0	5257.1	7114.2	6844.5	6174.1	3807.3
80°	283.4	310.9	480.1	507.7	427.2	796.3	2172.3	3293.2	2365.8	1891.9	1082.9
82.5°	217.8	248.6	404.0	368.1	232.7	326.8	632.4	1041.7	606.0	461.1	262.3
85°	133.2	166.0	317.2	234.8	131.1	149.1	214.7	289.8	185.1	154.4	94.1
87.5°	67.6	95.2	160.7	85.7	59.2	34.8	57.1	57.1	48.7	42.3	24.3
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°	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9	2880.9
2.5°	2891.4	2912.5	2948.5	2982.3	3008.8	3034.2	3059.5	3073.3	3077.6	3094.5	3104.0
5°	2925.2	2964.4	3034.2	3099.7	3141.0	3166.3	3184.4	3194.9	3197.1	3202.3	3210.8
7.5°	2987.7	3050.0	3147.4	3212.9	3243.5	3241.5	3234.1	3207.6	3197.1	3187.5	3189.6
10°	3075.4	3157.9	3277.4	3322.8	3303.9	3253.0	3187.5	3110.3	3074.4	3039.4	3028.9
12.5°	3184.4	3289.0	3406.4	3404.3	3310.2	3180.1	3027.8	2909.4	2834.3	2780.3	2767.7
15°	3316.5	3437.1	3527.0	3455.1	3248.8	3015.1	2792.0	2637.5	2569.9	2510.6	2504.3
17.5°	3452.9	3582.0	3623.3	3439.2	3094.5	2770.8	2518.1	2396.4	2329.8	2298.0	2307.6
20°	3586.2	3714.2	3680.4	3348.3	2859.6	2493.7	2268.5	2201.9	2188.1	2195.5	2192.4
22.5°	3726.9	3841.1	3691.9	3172.7	2560.3	2210.3	2086.6	2088.7	2119.4	2141.5	2146.9
25°	3870.7	3947.9	3661.3	2918.9	2238.9	2001.9	1971.3	2005.1	2065.5	2108.8	2120.4
27.5°	4009.3	4043.1	3594.7	2604.8	1962.9	1852.9	1858.1	1927.9	2018.9	2079.2	2094.0
30°	4165.8	4127.7	3466.8	2251.5	1771.4	1724.9	1769.4	1850.7	1941.7	1995.7	2008.3
32.5°	4342.4	4200.7	3263.7	1924.7	1636.1	1622.3	1695.2	1748.1	1788.3	1804.2	1812.7
35°	4562.4	4303.3	3003.5	1695.2	1514.4	1547.2	1617.0	1590.6	1574.7	1566.3	1574.7
37.5°	4847.8	4441.7	2698.9	1546.2	1416.0	1493.3	1521.8	1439.3	1377.0	1346.2	1353.7
40°	5191.6	4644.8	2406.0	1430.9	1353.7	1446.8	1397.1	1297.6	1218.3	1175.0	1178.1
42.5°	5573.3	4857.4	2159.6	1344.2	1318.8	1408.7	1305.0	1186.5	1058.6	1044.9	1058.6
45°	5974.2	5076.3	1991.4	1277.6	1301.9	1375.9	1252.1	1060.8	969.8	1025.8	1055.4
47.5°	6375.0	5277.2	1889.9	1227.8	1293.4	1338.9	1205.6	991.0	926.4	1007.9	1045.9
50°	6821.3	5457.1	1844.4	1191.9	1283.9	1324.1	1135.8	972.9	881.0	934.9	975.1
52.5°	7264.5	5596.6	1810.6	1155.9	1270.2	1312.4	1102.0	951.8	825.9	829.1	851.4
55°	7706.5	5687.6	1773.6	1108.3	1239.4	1287.1	1098.8	928.5	784.7	769.9	780.4
57.5°	8178.2	5739.4	1728.0	1055.4	1186.5	1222.5	1095.6	910.6	772.0	747.7	750.9
60°	8658.3	5815.5	1668.8	991.0	1115.7	1145.3	1088.2	904.3	764.6	723.3	726.5
62.5°	9088.8	5842.0	1598.0	929.6	1024.8	1069.2	1072.4	898.9	744.6	673.6	673.6
65°	9371.1	5727.8	1474.3	859.8	926.4	991.0	1041.7	881.0	708.6	637.8	637.8
67.5°	9359.5	5402.1	1280.7	769.9	831.3	904.3	997.3	850.2	665.2	593.3	596.4
70°	8923.8	4759.1	1035.4	665.2	726.5	811.2	940.1	804.8	613.4	544.7	551.0
72.5°	7653.6	3724.7	751.9	542.5	605.0	714.9	866.1	749.8	560.5	501.3	498.2
75°	5467.7	2357.3	509.7	416.7	470.6	606.0	774.2	685.3	511.9	503.4	474.9
77.5°	2793.0	1126.3	337.3	304.6	327.8	478.1	650.4	612.3	519.3	415.6	370.1
80°	908.5	415.6	212.6	207.3	217.8	318.4	503.4	502.4	393.4	282.4	249.6
82.5°	289.8	178.8	138.6	133.2	127.9	199.9	351.1	397.6	265.5	178.8	177.6
85°	115.3	106.8	81.4	75.1	53.9	94.1	184.0	264.3	197.7	129.0	132.2
87.5°	42.3	42.3	22.2	15.9	11.6	31.8	49.7	79.3	113.2	66.6	65.6
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)