

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: P968699

Luminaire Tested: **NVN-SB5C-722-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968699
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5C-722-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32054.8 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

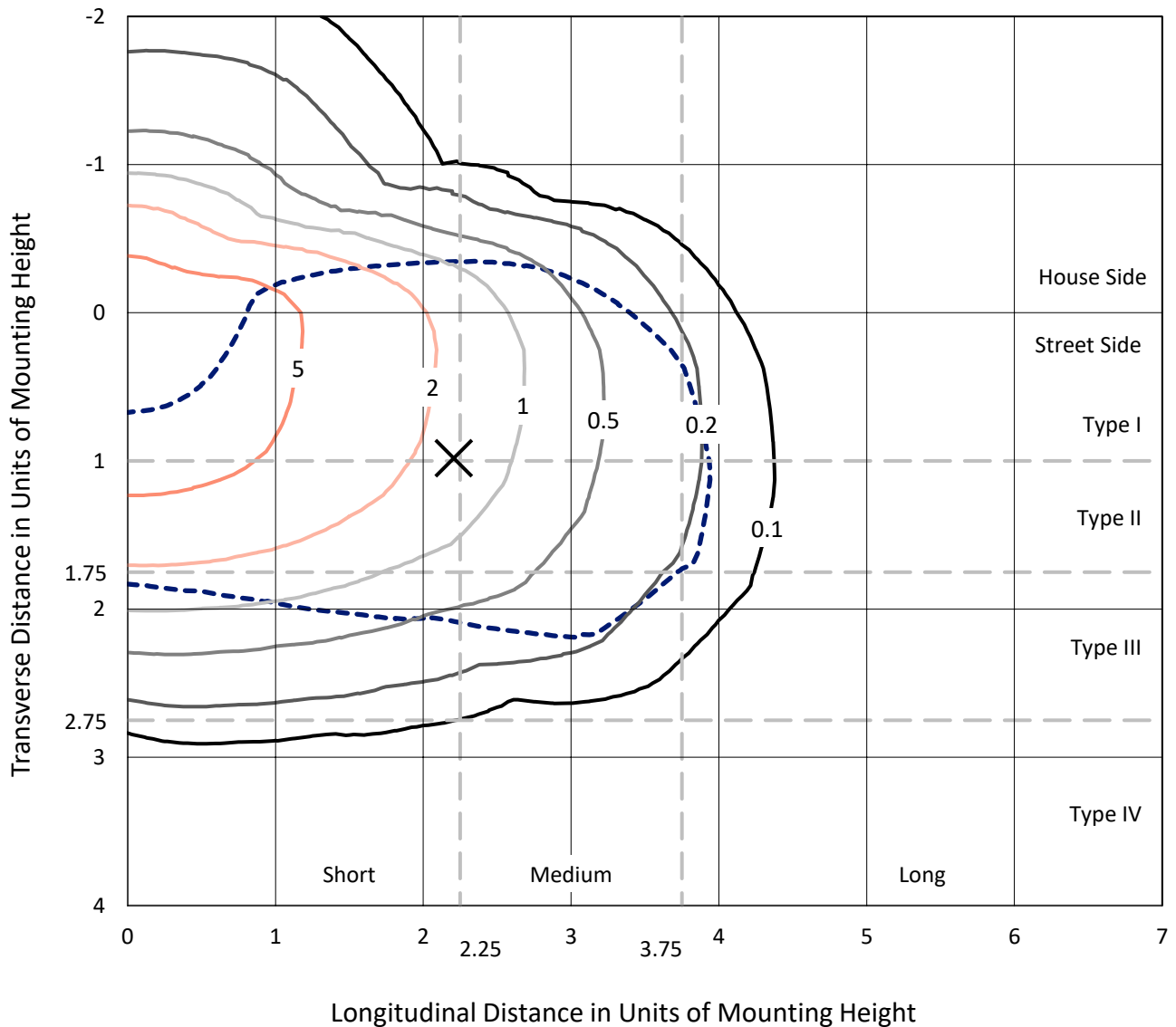
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

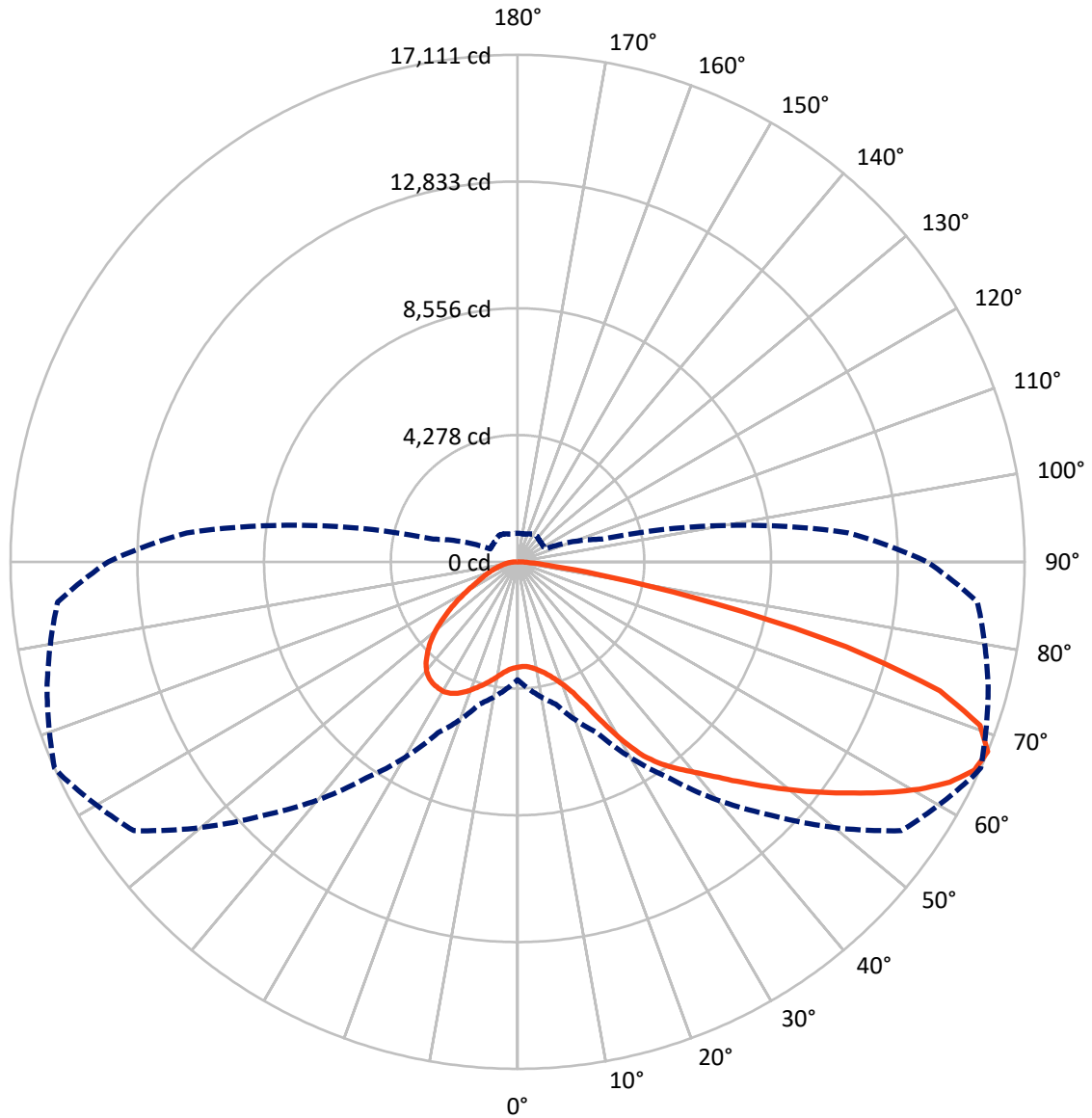
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7970.3	0.0	7970.3
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	24084.5	0.0	24084.5
	% Fixture	75.1	0.0	75.1
Total	Lumens	32054.8	0.0	32054.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.5	1.1
10°-20°	1164.6	3.6
20°-30°	2244.7	7.0
30°-40°	3935.8	12.3
40°-50°	5851.2	18.3
50°-60°	7417.0	23.1
60°-70°	7257.3	22.6
70°-80°	3461.8	10.8
80°-90°	370.0	1.2
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°	32054.8	100.0
0°-180°	32054.8	100.0

Coefficient of Utilization



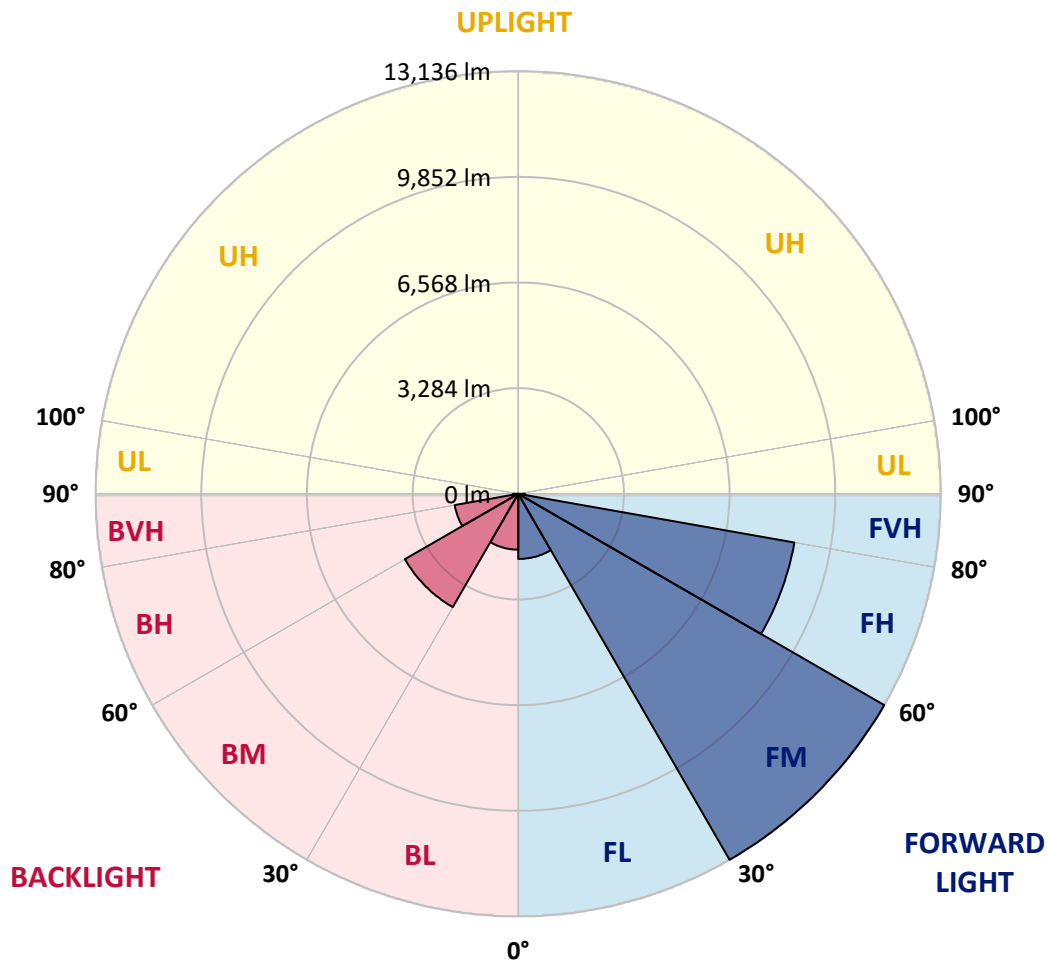
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2025.6	6.3			
FM (30°-60°)	13135.8	41.0			
FH (60°-80°)	8713.4	27.2			G4/12000
FVH (80°-90°)	209.8	0.7			G2/225
BL (0°-30°)	1736.2	5.4	B3/2500		
BM (30°-60°)	4068.2	12.7	B3/5000		
BH (60°-80°)	2005.8	6.3	B3/2500		G3/2500
BVH (80°-90°)	160.2	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3555.3	3555.3	3555.3	3555.3	3555.3	3555.3	3555.3	3555.3	3555.3	3555.3	3555.3
2.5°	3518.2	3538.5	3533.4	3525.0	3523.3	3526.7	3531.7	3536.8	3535.1	3543.5	3557.0
5°	3508.2	3528.4	3526.7	3526.7	3533.4	3546.9	3555.3	3563.7	3555.3	3565.4	3583.9
7.5°	3514.9	3530.0	3536.8	3543.5	3560.3	3585.7	3605.8	3624.4	3614.3	3626.0	3649.6
10°	3600.8	3612.6	3619.3	3619.3	3631.1	3659.8	3680.0	3713.6	3705.2	3723.7	3754.1
12.5°	3757.4	3769.2	3769.2	3762.5	3770.9	3789.4	3796.2	3833.2	3818.0	3848.4	3878.7
15°	3949.4	3973.0	3954.4	3942.7	3946.0	3964.6	3962.9	3991.6	3976.4	4001.6	4028.6
17.5°	4161.6	4191.9	4161.6	4160.0	4153.2	4173.4	4175.1	4200.3	4173.4	4191.9	4210.5
20°	4412.5	4454.6	4429.4	4437.8	4422.7	4431.1	4439.5	4476.6	4434.5	4447.9	4442.9
22.5°	4766.2	4816.8	4789.8	4821.8	4811.7	4805.0	4803.3	4869.0	4803.3	4808.4	4759.5
25°	5281.6	5342.2	5295.0	5338.8	5338.8	5360.7	5386.0	5470.2	5360.7	5328.8	5202.4
27.5°	6042.9	6103.5	6010.8	6037.8	6029.4	6083.3	6056.3	6265.1	6147.2	6095.1	5840.8
30°	6959.0	7066.9	6891.7	6884.9	6876.5	6962.4	7001.2	7139.2	7019.7	6967.4	6661.0
32.5°	7949.3	8062.1	7853.3	7792.7	7760.7	7813.0	7780.9	7892.1	7809.6	7728.7	7349.8
35°	8996.9	9108.0	8909.3	8791.4	8663.4	8553.9	8439.4	8468.0	8390.5	8267.6	7875.2
37.5°	9987.2	10191.0	9980.4	9854.1	9618.4	9404.5	9084.5	8951.4	8879.0	8766.1	8370.4
40°	10996.0	11112.2	10952.2	10844.4	10588.5	10253.3	9741.3	9460.0	9362.3	9252.9	8917.7
42.5°	11738.7	11849.9	11764.0	11689.9	11489.4	11100.4	10438.5	10086.5	9945.1	9822.2	9537.5
45°	12328.2	12410.7	12356.8	12383.7	12297.8	11920.6	11161.0	10758.5	10612.0	10462.2	10238.1
47.5°	12565.7	12653.2	12739.1	12899.1	13045.7	12767.8	11937.5	11486.2	11331.2	11177.9	10957.2
50°	12538.7	12628.0	12877.3	13217.5	13672.2	13579.5	12756.0	12260.8	12117.7	11942.5	11738.7
52.5°	12323.2	12424.2	12744.2	13310.0	14034.3	14187.5	13589.7	13060.9	12926.1	12717.3	12513.5
55°	11757.3	11817.8	12297.8	13099.5	14120.2	14612.0	14406.5	13913.0	13778.3	13487.0	13264.6
57.5°	10708.0	10795.6	11494.6	12532.0	13904.6	14899.9	15124.0	14809.0	14679.3	14259.9	14027.5
60°	9338.8	9478.6	10278.6	11578.7	13355.5	14898.3	15775.7	15689.8	15582.0	15021.2	14778.7
62.5°	7789.3	7951.0	8720.7	10231.3	12395.5	14475.6	16183.3	16427.5	16371.9	15723.5	15413.6
65°	5982.2	6093.3	6859.7	8488.2	10901.7	13567.7	16230.5	16931.1	16941.2	16257.4	15745.4
67.5°	3983.0	4303.1	4968.4	6369.6	8900.9	12084.0	15816.2	17013.6	17111.2	16441.0	15578.7
70°	1943.5	2364.6	3016.4	4139.7	6369.6	9808.6	14733.2	16336.6	16553.9	15905.4	14585.0
72.5°	806.7	943.1	1298.5	2042.9	3656.4	6618.8	12557.3	14500.8	14903.3	14093.2	12262.5
75°	544.0	589.5	742.7	1047.6	1665.6	3263.9	9055.9	10812.4	11460.8	10644.0	8700.5
77.5°	419.3	448.0	540.6	732.6	990.3	1234.5	4847.0	6516.1	6851.2	6342.6	4527.1
80°	330.0	352.0	404.2	533.9	702.3	660.2	1652.2	2952.4	3146.0	2639.1	1455.1
82.5°	286.3	294.7	289.7	362.1	466.5	385.7	542.3	1089.7	1202.5	872.4	475.0
85°	207.2	230.7	240.9	224.0	247.5	195.4	222.3	385.7	424.5	378.9	267.8
87.5°	84.3	124.6	153.2	144.8	90.9	55.6	69.1	112.9	129.7	141.4	87.5
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°	3555.3	3555.3	3555.3	3555.3	3555.3	3555.3	3555.3	3555.3	3555.3	3555.3	3555.3
2.5°	3558.7	3570.5	3578.9	3589.0	3595.7	3605.8	3626.0	3637.8	3639.5	3648.0	3646.2
5°	3590.7	3607.5	3626.0	3653.0	3683.3	3708.6	3747.3	3774.3	3784.4	3792.8	3791.1
7.5°	3659.8	3683.3	3717.0	3764.1	3808.0	3841.6	3888.7	3920.7	3952.8	3964.6	3966.2
10°	3762.5	3796.2	3845.0	3908.9	3956.1	4000.0	4048.7	4075.7	4107.7	4121.2	4127.9
12.5°	3890.5	3925.9	3989.8	4079.1	4122.9	4153.2	4170.0	4163.2	4170.0	4181.8	4185.2
15°	4037.0	4075.7	4148.2	4244.1	4274.5	4247.5	4210.5	4176.8	4171.8	4175.1	4186.9
17.5°	4210.5	4239.1	4323.2	4404.1	4382.3	4271.1	4190.2	4136.4	4109.4	4101.0	4112.8
20°	4453.0	4453.0	4522.0	4572.5	4426.1	4237.3	4111.1	4023.5	3967.9	3944.3	3939.3
22.5°	4747.7	4720.7	4764.5	4729.1	4417.6	4143.0	3967.9	3816.4	3732.1	3698.5	3693.4
25°	5121.6	5089.6	5077.8	4858.9	4357.0	3993.2	3708.6	3525.0	3450.9	3432.3	3435.7
27.5°	5685.8	5604.9	5451.7	4929.6	4245.9	3757.4	3405.5	3235.3	3193.2	3194.9	3199.9
30°	6436.9	6275.3	5899.7	4941.4	4063.9	3423.9	3095.5	2974.2	2954.0	2962.5	2991.1
32.5°	7132.5	6979.2	6357.8	4887.5	3784.4	3097.2	2817.6	2736.7	2706.5	2716.6	2730.1
35°	7678.2	7636.0	6782.2	4811.7	3440.8	2790.7	2568.3	2499.4	2440.4	2426.9	2437.0
37.5°	8193.5	8176.7	7100.5	4705.6	3100.6	2573.5	2368.0	2277.0	2191.1	2144.0	2145.6
40°	8759.4	8742.5	7309.4	4542.2	2799.1	2384.8	2187.8	2068.1	1962.1	1876.2	1884.6
42.5°	9396.1	9296.6	7408.7	4308.2	2543.1	2224.8	2041.2	1879.5	1739.7	1660.6	1665.6
45°	10091.6	9867.6	7407.1	4010.0	2327.6	2078.3	1884.6	1655.6	1525.9	1451.8	1448.4
47.5°	10829.2	10413.3	7316.0	3680.0	2118.7	1916.6	1642.0	1466.9	1381.0	1335.6	1325.4
50°	11590.5	10923.6	7161.2	3301.0	1904.8	1733.1	1490.5	1370.9	1305.2	1263.1	1247.9
52.5°	12306.3	11386.7	6974.2	2871.5	1687.6	1554.5	1423.1	1330.6	1261.5	1214.3	1194.1
55°	12971.6	11785.9	6709.8	2431.9	1510.7	1434.9	1391.1	1313.6	1234.5	1179.0	1157.0
57.5°	13562.7	12045.3	6253.3	2019.4	1384.4	1352.4	1357.4	1285.0	1194.1	1147.0	1116.6
60°	14054.5	12235.5	5578.0	1637.0	1281.7	1271.5	1305.2	1231.1	1125.0	1071.1	1047.6
62.5°	14349.2	12232.2	4749.3	1340.6	1194.1	1197.4	1236.1	1163.8	1056.0	1005.4	990.3
65°	14324.0	11932.4	3840.0	1147.0	1109.9	1113.3	1163.8	1089.7	998.8	968.4	966.7
67.5°	13817.0	11201.5	2945.6	1020.6	1017.2	1032.4	1091.3	1039.1	963.4	960.0	965.0
70°	12444.4	9684.0	2122.1	919.5	921.3	943.1	1020.6	1007.2	944.8	951.6	949.9
72.5°	9978.8	7383.5	1424.9	813.4	815.2	850.5	953.2	981.8	926.3	1015.6	1029.0
75°	6645.8	4604.5	916.1	700.6	702.3	747.7	894.3	933.1	875.8	1012.2	1020.6
77.5°	3193.2	2069.9	663.6	589.5	589.5	631.6	773.1	835.4	746.1	786.5	720.8
80°	1103.1	778.1	522.1	475.0	464.8	493.4	651.8	724.2	643.4	592.9	555.8
82.5°	434.5	404.2	419.3	368.8	335.2	353.7	507.0	597.9	473.2	427.7	426.1
85°	249.3	262.7	296.4	244.2	193.7	217.3	372.2	429.5	357.0	315.0	321.6
87.5°	67.3	92.7	136.4	126.3	87.5	92.7	176.8	237.5	205.5	158.4	163.4
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)