

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: P967330

Luminaire Tested: **NVN-SB4D-827-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967330
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB4D-827-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36837.5 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

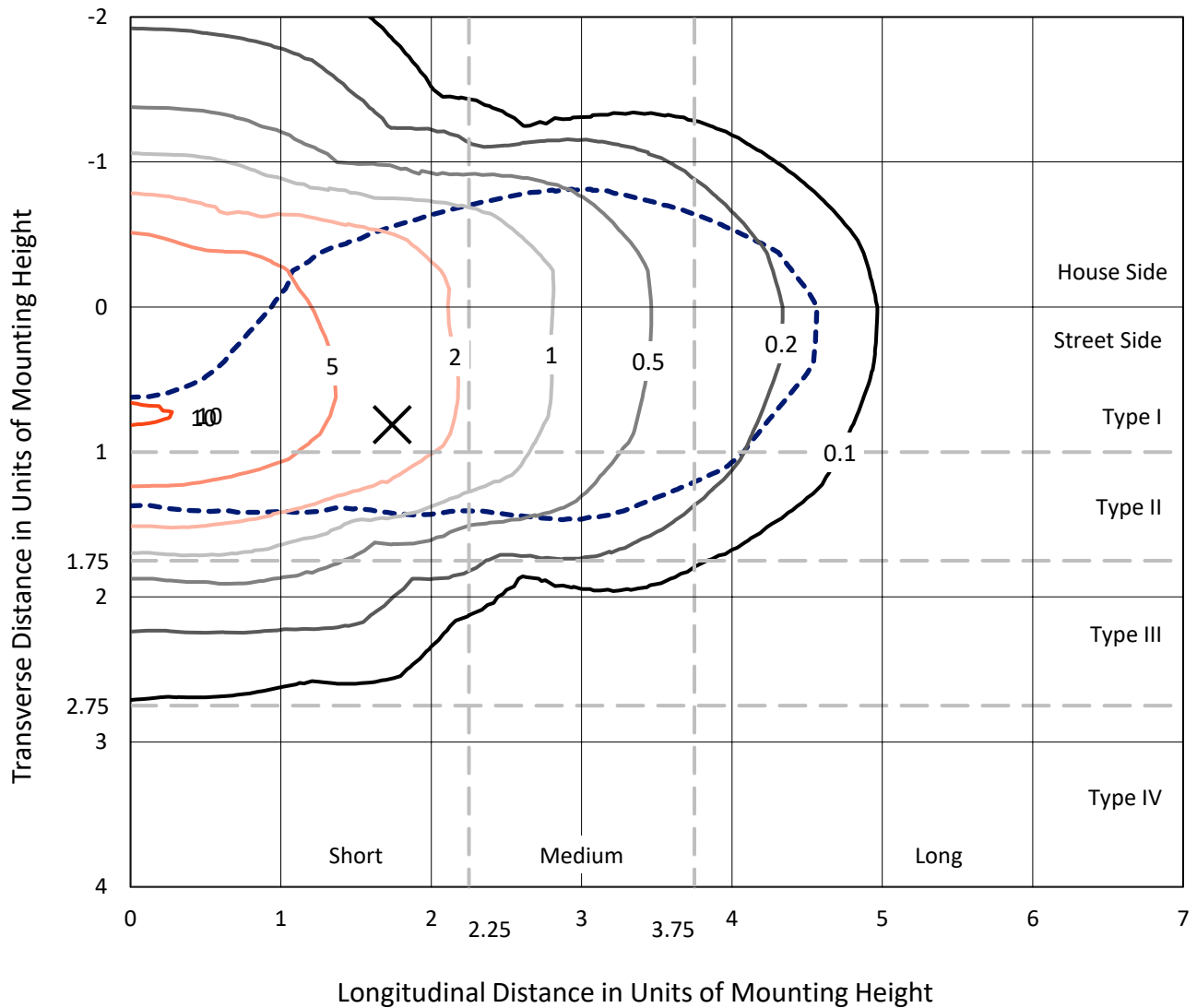
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

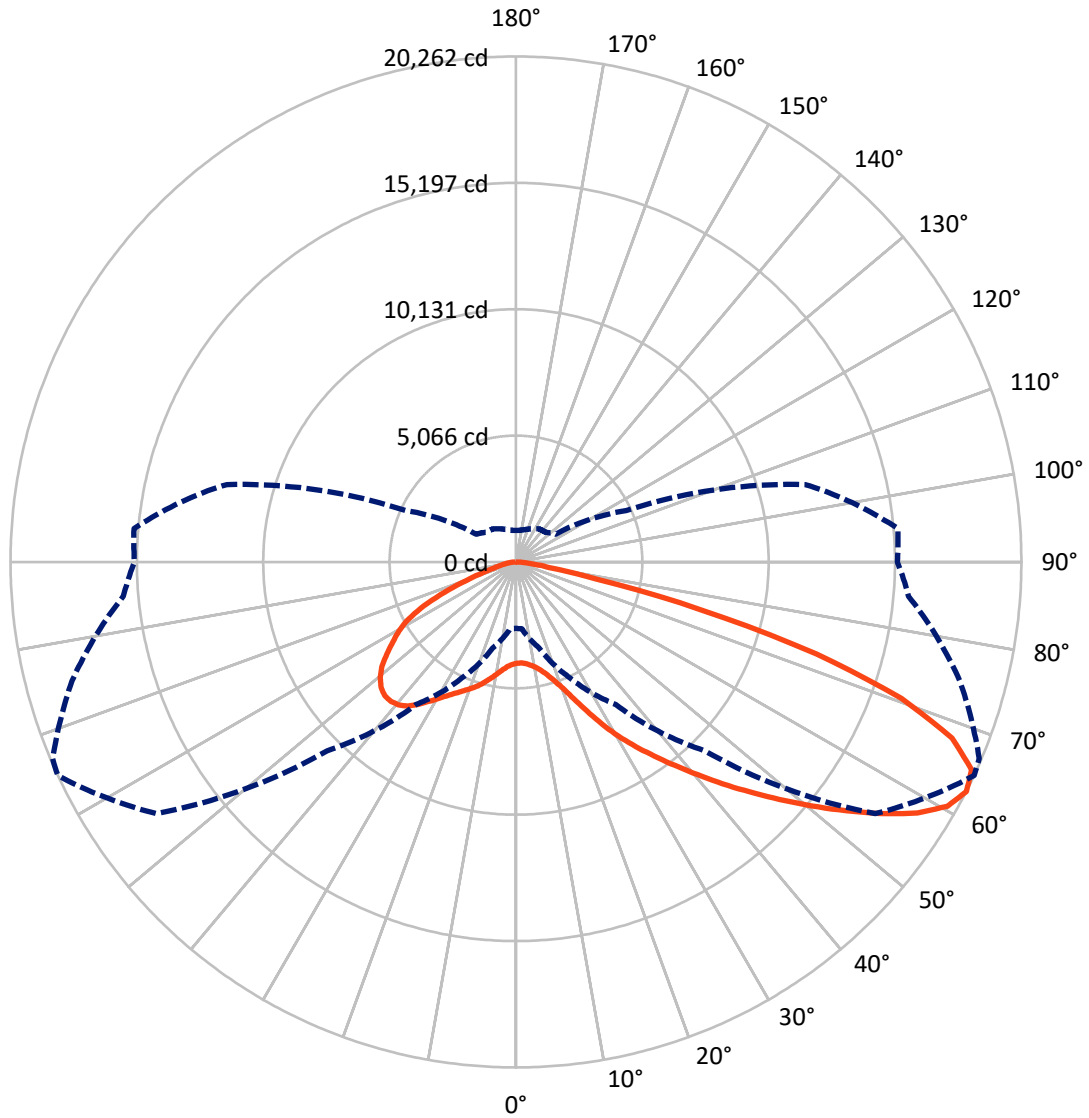
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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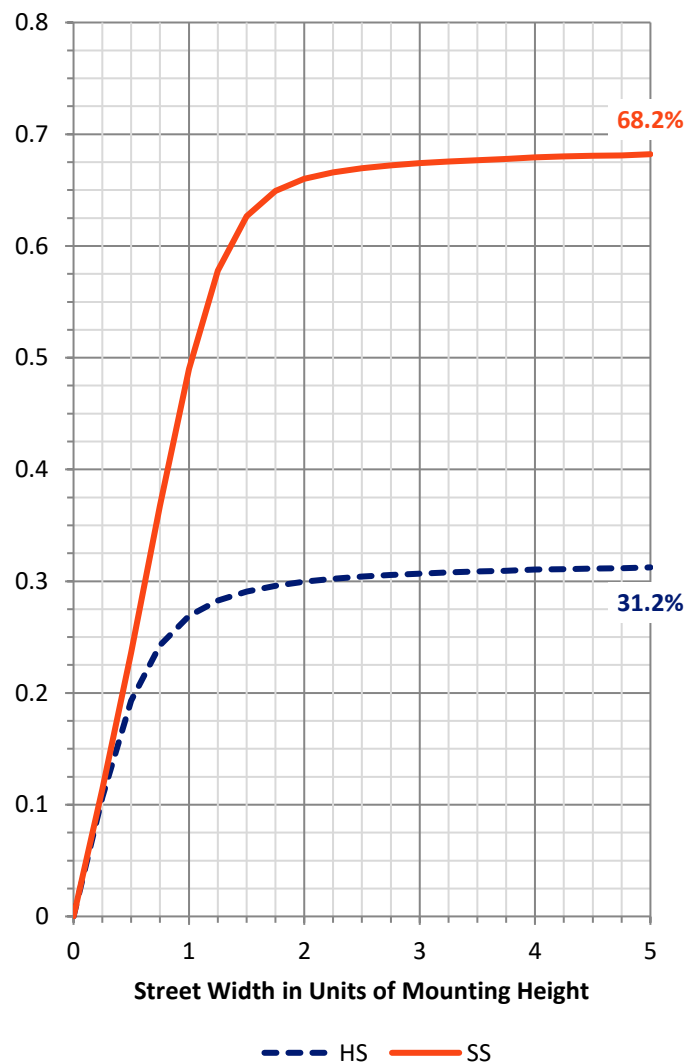
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11624.3	0.0	11624.3
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	25213.2	0.0	25213.2
	% Fixture	68.4	0.0	68.4
Total	Lumens	36837.5	0.0	36837.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.7	1.1
10°-20°	1372.4	3.7
20°-30°	2782.7	7.6
30°-40°	4815.4	13.1
40°-50°	7287.2	19.8
50°-60°	8543.8	23.2
60°-70°	7163.0	19.4
70°-80°	3954.5	10.7
80°-90°	513.7	1.4
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°	36837.5	100.0
0°-180°	36837.5	100.0

Coefficient of Utilization



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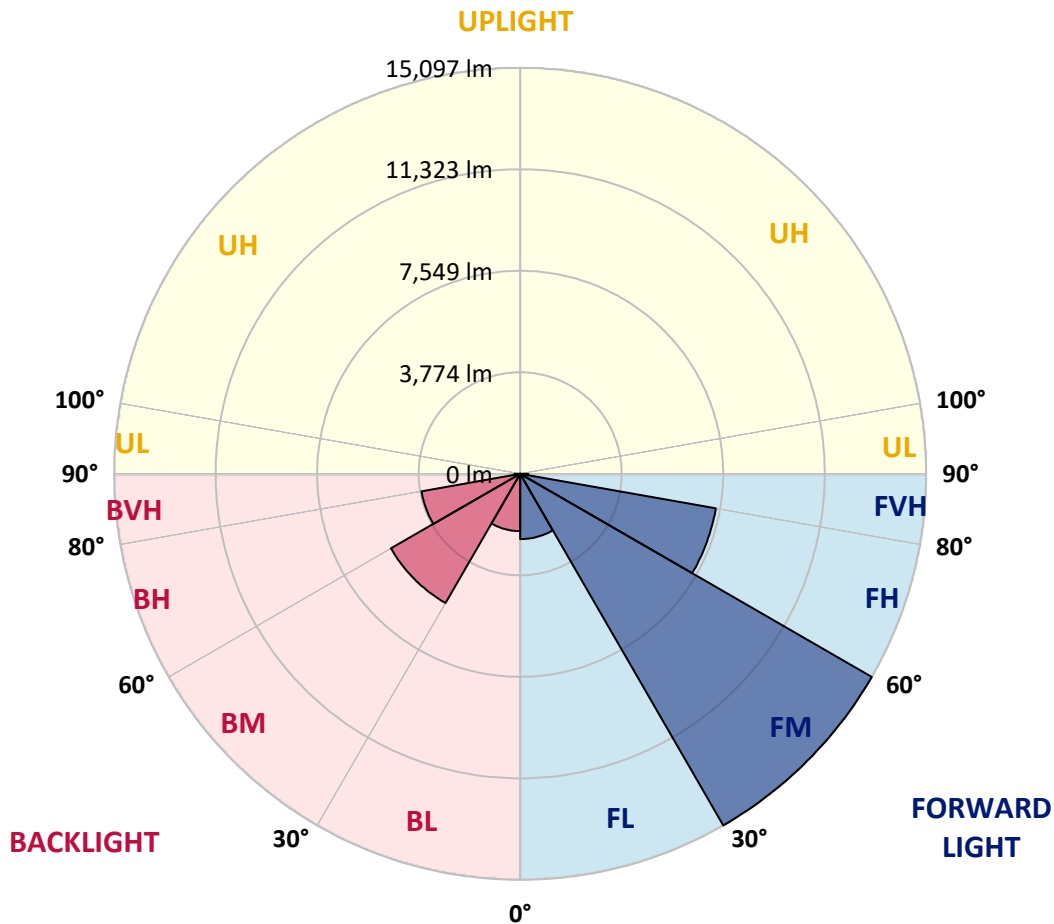
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2428.1	6.6			
FM (30°-60°)	15097.2	41.0			
FH (60°-80°)	7388.5	20.1			G3/7500
FVH (80°-90°)	299.4	0.8			G3/500
BL (0°-30°)	2131.8	5.8	B3/2500		
BM (30°-60°)	5549.3	15.1	B4/8500		
BH (60°-80°)	3729.0	10.1	B4/5000		G4/5000
BVH (80°-90°)	214.3	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4059.3	4059.3	4059.3	4059.3	4059.3	4059.3	4059.3	4059.3	4059.3	4059.3	4059.3
2.5°	4032.6	4021.1	4030.7	4030.7	4034.5	4032.6	4046.0	4049.8	4055.5	4067.0	4067.0
5°	3992.5	3990.5	4007.7	4023.0	4038.3	4051.7	4068.8	4093.7	4097.5	4111.0	4128.1
7.5°	3979.0	3967.6	3994.3	4013.5	4049.8	4082.3	4128.1	4170.2	4187.3	4193.1	4225.6
10°	4082.3	4063.2	4088.0	4099.5	4130.0	4162.5	4216.0	4283.0	4302.0	4325.0	4361.3
12.5°	4258.1	4237.0	4273.4	4290.5	4319.2	4347.9	4384.2	4449.2	4458.8	4500.8	4535.2
15°	4498.9	4474.0	4497.0	4518.0	4565.8	4592.5	4628.9	4691.9	4691.9	4724.4	4749.2
17.5°	4825.7	4793.2	4810.4	4818.1	4848.7	4888.7	4949.9	5005.4	5034.0	5022.6	4988.2
20°	5313.1	5272.9	5272.9	5234.7	5223.2	5255.7	5335.9	5412.4	5443.1	5383.8	5299.7
22.5°	6045.0	5987.7	5955.2	5825.3	5773.6	5777.5	5857.8	5951.4	5976.3	5871.1	5681.9
25°	6975.7	6886.0	6842.0	6650.9	6534.3	6433.0	6496.0	6616.5	6650.9	6520.9	6215.1
27.5°	7906.5	7912.3	7870.3	7640.9	7447.9	7262.4	7229.9	7356.1	7392.4	7245.2	6866.9
30°	9211.9	9076.2	8995.9	8720.7	8445.5	8185.5	8051.8	8103.3	8113.0	7937.1	7497.6
32.5°	10337.5	10303.1	10131.1	9890.3	9536.7	9129.7	8906.0	8823.9	8808.5	8558.2	8036.5
35°	11619.9	11600.8	11419.2	11132.6	10750.3	10184.6	9781.4	9546.3	9527.2	9175.5	8569.7
37.5°	12923.3	12923.3	12745.6	12432.2	12036.6	11329.4	10716.0	10343.3	10282.1	9823.4	9112.5
40°	13963.1	13899.9	13932.4	13800.6	13347.7	12596.5	11753.7	11212.9	11130.7	10580.3	9689.6
42.5°	14553.6	14532.6	14727.5	14874.7	14689.3	14089.1	12896.6	12155.1	12040.4	11413.5	10354.8
45°	14685.5	14662.5	15010.3	15549.2	15809.2	15562.7	14138.8	13147.0	13007.5	12285.0	11067.6
47.5°	14381.6	14335.8	14846.0	15696.4	16529.8	16963.5	15484.4	14222.9	14020.4	13133.5	11799.6
50°	13468.0	13424.1	14196.1	15325.7	16772.5	17915.4	16944.5	15363.9	15054.3	14043.3	12539.2
52.5°	11482.4	11503.4	12713.1	14265.0	16453.3	18507.8	18202.1	16566.0	16193.4	14974.0	13233.0
55°	8944.3	8990.2	10477.0	12185.6	15176.7	18417.9	19060.1	17804.5	17433.7	15849.4	13949.6
57.5°	6404.3	6606.9	8000.1	9691.6	12724.6	16994.2	19247.4	18981.8	18622.5	16805.0	14651.0
60°	4151.0	4187.3	5620.8	7325.6	9689.6	14463.8	18867.1	19874.2	19593.4	17779.6	15237.8
62.5°	2660.4	2685.2	3558.6	5123.9	6973.9	10700.7	17586.6	20262.2	20176.2	18423.7	15801.6
65°	1955.1	1936.0	2390.9	3386.6	4697.7	6599.3	15100.2	20074.9	20245.1	18827.0	16267.9
67.5°	1632.1	1605.4	1829.0	2345.0	3461.1	3747.8	11172.7	18857.5	19480.5	18781.1	16610.0
70°	1486.9	1464.0	1599.6	1741.1	2700.5	2509.4	5632.3	16394.1	17353.5	18259.4	16554.6
72.5°	1259.4	1219.3	1404.8	1546.1	2100.3	1924.5	2327.8	12592.7	13762.4	16587.1	15774.9
75°	976.6	949.9	1108.4	1360.8	1578.6	1502.1	1471.6	7646.6	8923.2	12827.8	13800.6
77.5°	774.0	737.7	882.9	1060.7	1420.0	1133.3	1072.1	3292.9	4558.2	8189.3	10326.1
80°	582.9	550.4	670.9	839.0	1091.3	854.3	693.7	1343.6	1718.1	4149.2	5192.6
82.5°	414.7	386.0	468.2	615.4	733.9	766.4	426.2	753.0	846.6	1599.6	1160.1
85°	265.7	248.5	313.4	386.0	466.4	493.1	259.9	393.7	431.9	659.4	483.5
87.5°	145.2	118.5	168.2	179.7	216.0	196.8	124.2	143.3	154.8	238.9	204.5
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°	4059.3	4059.3	4059.3	4059.3	4059.3	4059.3	4059.3	4059.3	4059.3	4059.3	4059.3
2.5°	4074.6	4080.3	4099.5	4105.2	4118.6	4135.8	4147.3	4158.7	4158.7	4170.2	4170.2
5°	4130.0	4143.5	4183.5	4204.5	4239.0	4273.4	4294.4	4319.2	4334.5	4342.2	4346.0
7.5°	4237.0	4258.1	4315.5	4351.7	4411.0	4458.8	4491.2	4525.7	4533.3	4554.3	4546.7
10°	4382.3	4407.2	4472.2	4541.0	4611.7	4670.9	4701.5	4726.4	4735.9	4739.7	4730.2
12.5°	4548.5	4584.9	4669.0	4753.1	4827.6	4879.2	4886.9	4881.2	4854.4	4831.4	4831.4
15°	4753.1	4785.6	4879.2	4970.9	5043.6	5053.1	5005.4	4974.7	4942.2	4936.6	4936.6
17.5°	4997.7	5014.9	5100.9	5190.7	5196.4	5164.0	5093.2	5064.6	5034.0	5013.0	5014.9
20°	5282.4	5276.7	5337.9	5376.1	5335.9	5236.6	5129.6	5081.8	5051.2	5026.4	5028.3
22.5°	5622.6	5578.7	5571.1	5561.5	5454.4	5246.2	5100.9	5039.7	4992.0	4957.6	4969.1
25°	6117.7	5949.5	5832.9	5767.9	5527.1	5194.6	5009.2	4873.5	4783.7	4724.4	4747.4
27.5°	6736.9	6454.0	6159.7	6001.1	5527.1	5089.4	4787.5	4567.7	4420.5	4359.4	4390.0
30°	7327.4	7031.2	6597.4	6282.0	5513.8	4917.4	4430.0	4124.3	3952.3	3891.1	3927.5
32.5°	7832.0	7508.9	7061.7	6589.7	5481.3	4638.4	3986.7	3648.4	3482.1	3409.6	3445.8
35°	8300.2	7956.3	7528.1	6928.0	5395.2	4229.5	3499.4	3241.4	3055.9	2939.4	2977.6
37.5°	8779.9	8371.0	7969.6	7233.8	5240.4	3751.6	3124.8	2905.0	2687.1	2530.4	2572.4
40°	9301.7	8812.4	8441.7	7415.4	4986.2	3296.8	2834.2	2633.6	2402.3	2236.0	2268.5
42.5°	9911.3	9341.8	8967.2	7508.9	4638.4	2973.8	2645.0	2448.2	2230.3	2094.7	2121.4
45°	10547.8	9924.8	9446.9	7507.1	4250.5	2822.8	2583.9	2389.0	2148.2	2006.7	2029.7
47.5°	11214.7	10534.3	9861.6	7384.8	3914.1	2843.9	2549.5	2260.9	1995.3	1857.7	1876.8
50°	11883.6	11201.4	10263.0	7155.4	3770.8	2797.9	2421.5	2081.3	1767.8	1643.6	1651.3
52.5°	12546.8	11910.4	10609.0	6828.7	3625.5	2627.9	2257.0	1848.1	1674.2	1588.1	1588.1
55°	13213.9	12611.8	10985.4	6352.7	3262.4	2429.1	1981.8	1760.2	1599.6	1521.3	1513.6
57.5°	13882.8	13422.2	11342.9	5876.8	2805.6	2184.5	1830.9	1653.1	1525.1	1458.3	1446.8
60°	14578.5	14349.1	11711.6	5439.2	2354.5	1871.0	1720.1	1567.1	1437.2	1362.6	1356.9
62.5°	15295.2	15369.7	12000.3	4875.4	1939.8	1679.9	1620.6	1464.0	1337.8	1267.1	1265.2
65°	16017.6	16353.9	12189.5	4093.7	1572.9	1498.3	1513.6	1351.2	1223.1	1162.0	1160.1
67.5°	16562.3	17063.0	12135.9	3098.0	1290.1	1326.4	1379.9	1232.7	1112.3	1064.6	1066.4
70°	16623.3	16978.8	11608.4	2121.4	1079.8	1158.1	1230.8	1116.1	991.9	957.5	959.4
72.5°	15809.2	15832.1	10138.8	1385.6	913.6	1016.7	1074.1	997.6	877.2	842.9	840.9
75°	13674.4	13093.5	7444.1	913.6	764.4	873.4	926.9	873.4	756.9	764.4	737.7
77.5°	10360.5	9273.0	4519.9	649.7	638.4	733.9	806.5	768.3	668.9	751.1	661.2
80°	5337.9	5016.9	2016.3	485.4	504.5	586.7	663.2	613.5	529.4	504.5	460.6
82.5°	1223.1	1421.9	795.1	347.8	365.0	422.4	506.5	460.6	380.3	321.0	317.2
85°	428.1	468.2	351.7	217.9	214.0	263.7	344.0	307.7	258.0	206.4	217.9
87.5°	135.7	177.7	131.9	87.9	91.7	118.5	158.7	145.2	120.4	78.3	82.2
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)