

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: P968920

Luminaire Tested: **NVN-SB5C-827-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968920
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5C-827-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33652.8 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

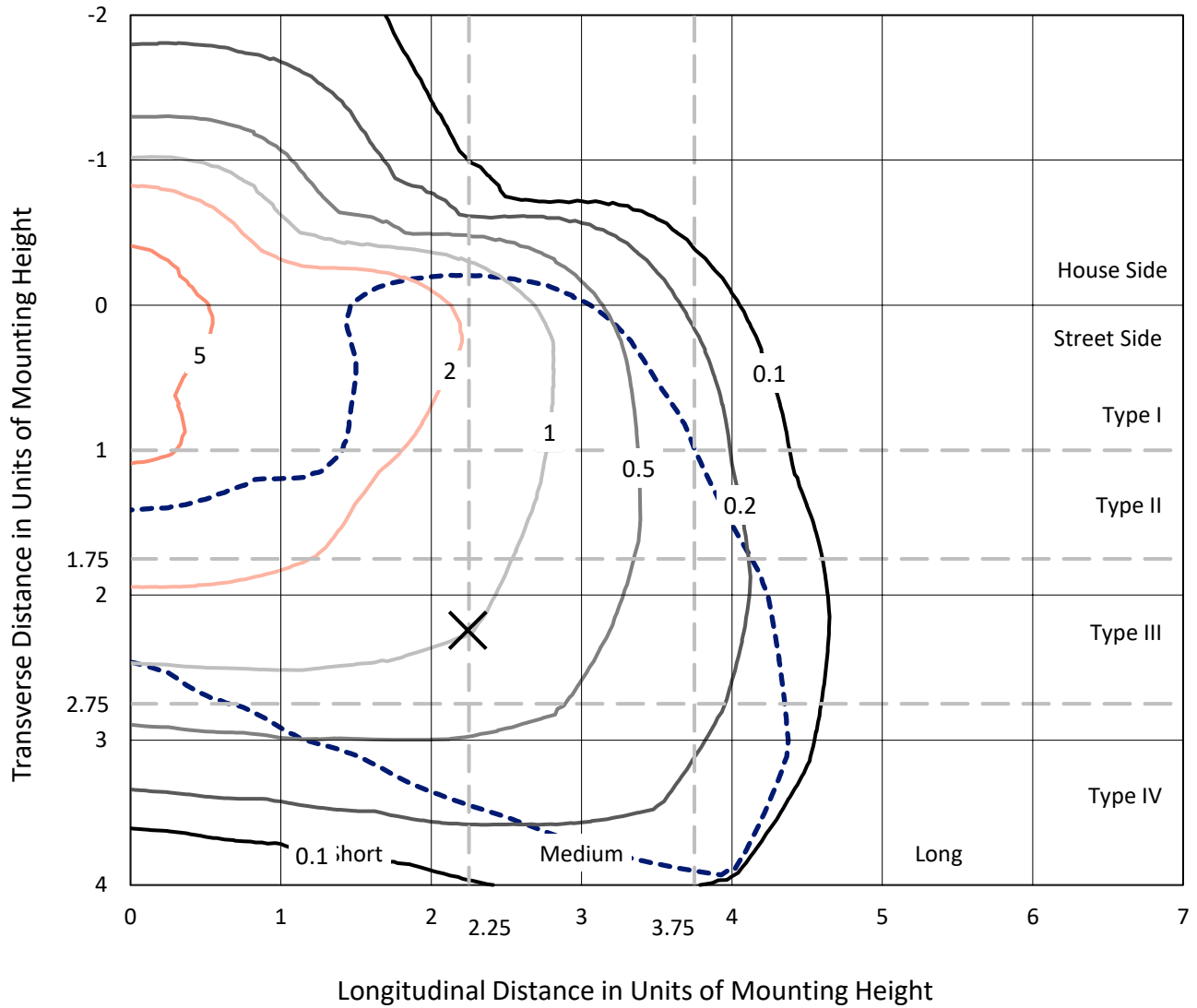
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

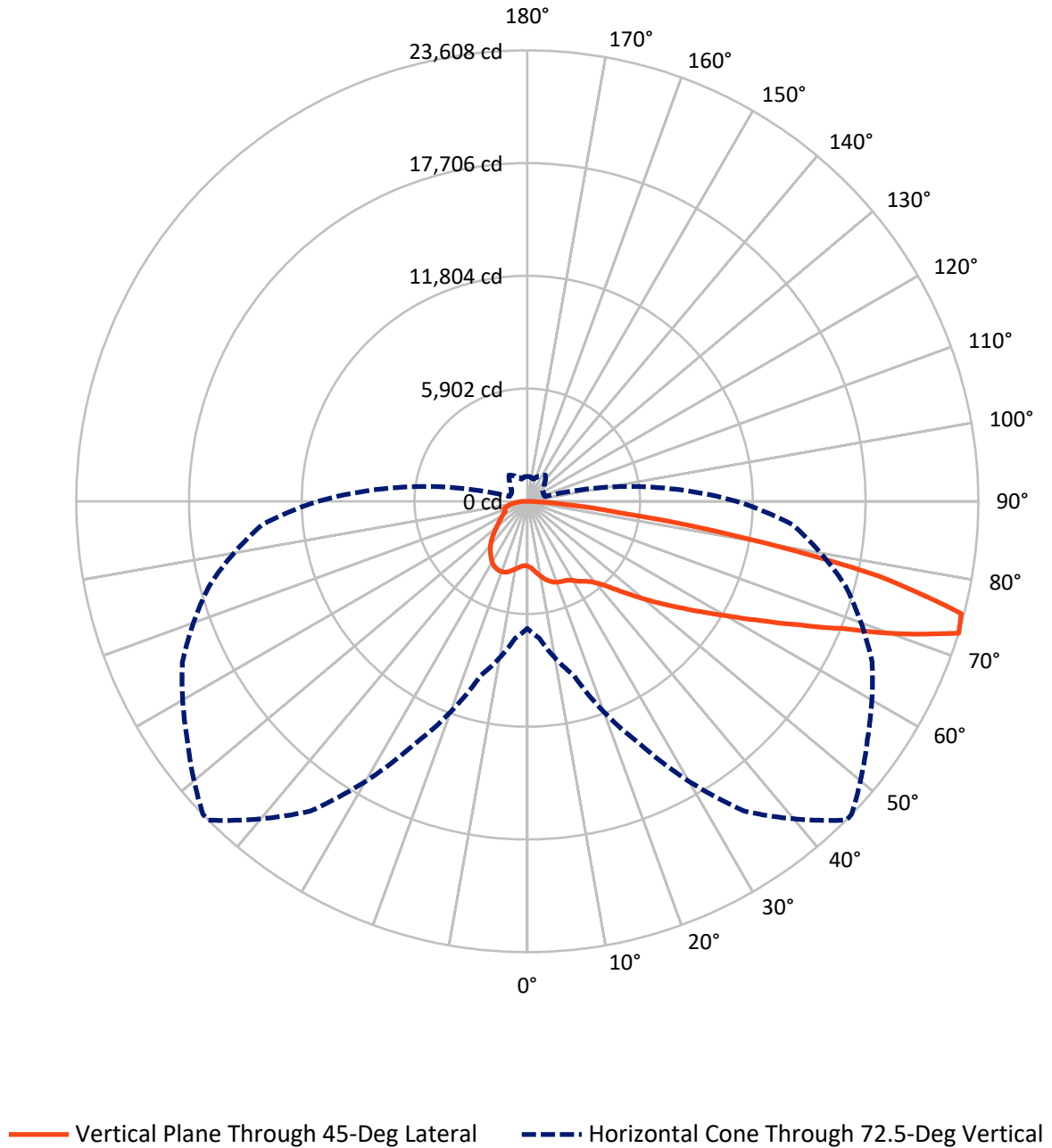
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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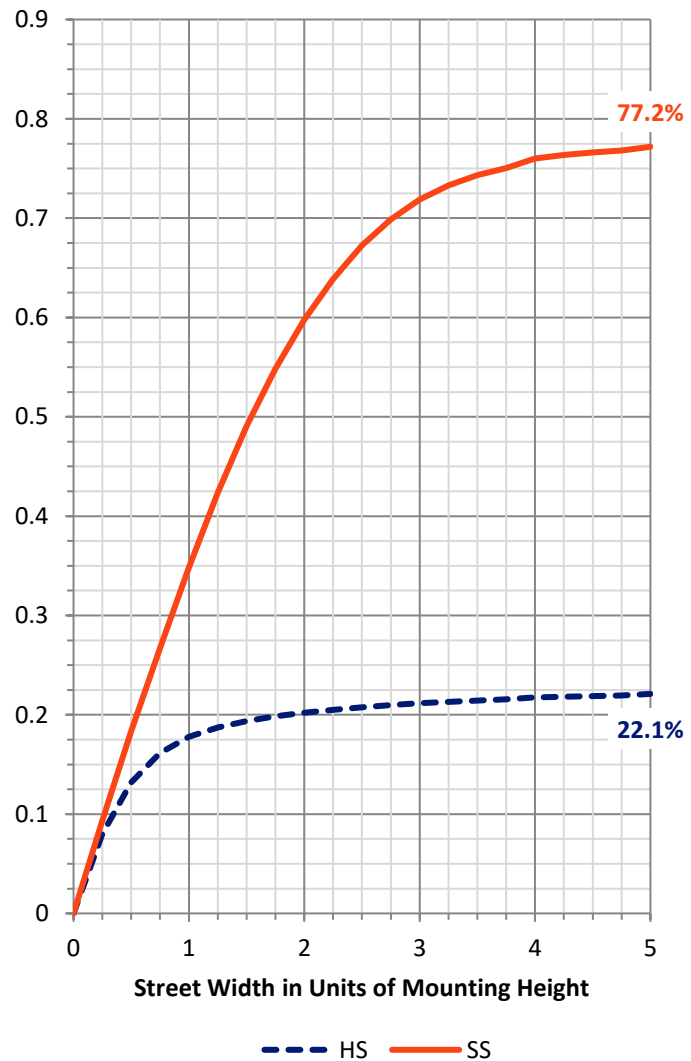
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7607.7	0.0	7607.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	26045.1	0.0	26045.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	33652.8	0.0	33652.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.5	1.0
10°-20°	1152.1	3.4
20°-30°	2004.1	6.0
30°-40°	2872.9	8.5
40°-50°	4045.3	12.0
50°-60°	6196.2	18.4
60°-70°	8976.1	26.7
70°-80°	7167.9	21.3
80°-90°	892.7	2.7
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°	33652.8	100.0
0°-180°	33652.8	100.0

Coefficient of Utilization

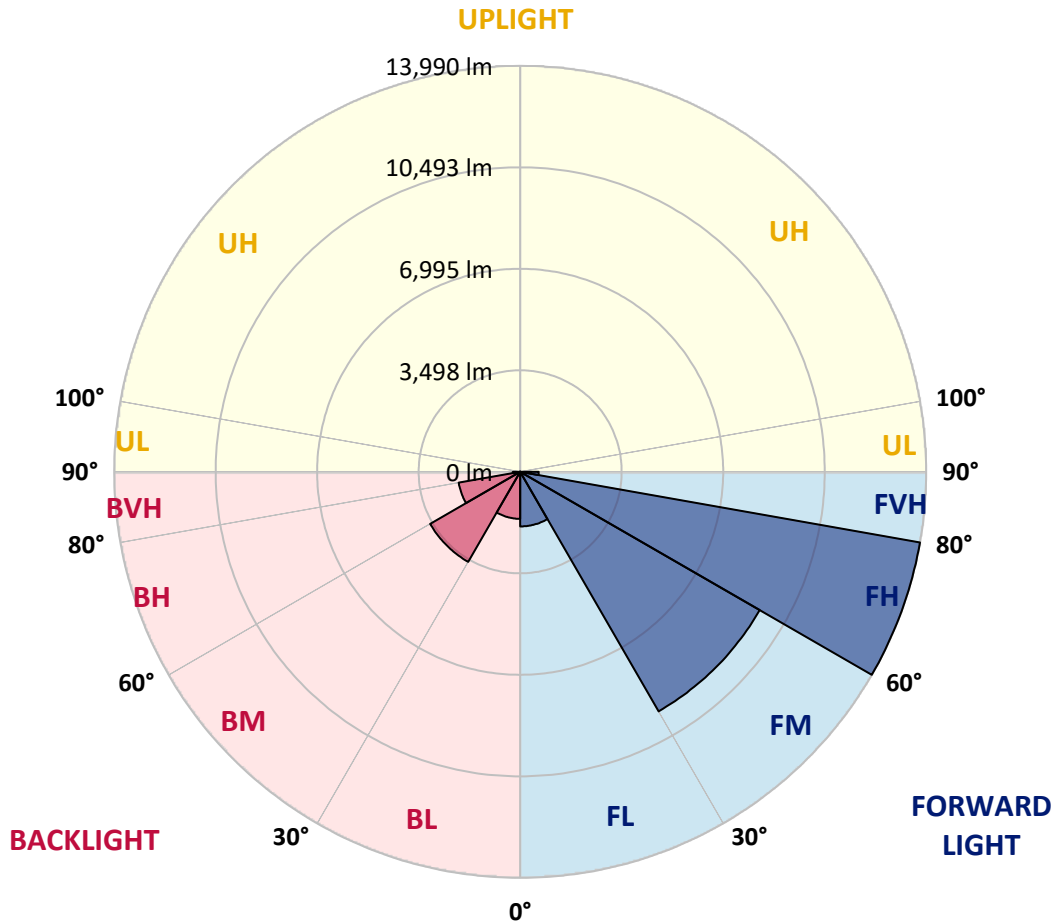


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1881.9	5.6			
FM (30°-60°)	9532.2	28.3			
FH (60°-80°)	13990.5	41.6			G5
FVH (80°-90°)	640.5	1.9			G4/750
BL (0°-30°)	1619.7	4.8	B3/2500		
BM (30°-60°)	3582.2	10.6	B3/5000		
BH (60°-80°)	2153.6	6.4	B3/2500		G3/2500
BVH (80°-90°)	252.3	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3394.9	3394.9	3394.9	3394.9	3394.9	3394.9	3394.9	3394.9	3394.9	3394.9	3394.9
2.5°	3527.8	3550.9	3529.7	3510.1	3501.3	3478.2	3476.5	3462.2	3453.4	3428.6	3421.6
5°	3774.3	3804.4	3768.9	3730.0	3694.5	3637.8	3630.7	3590.0	3543.8	3490.6	3460.5
7.5°	4052.6	4079.2	4038.4	3980.0	3917.9	3824.0	3822.1	3747.7	3675.0	3584.6	3533.2
10°	4295.5	4330.9	4276.0	4196.2	4118.2	4011.8	3999.4	3914.4	3822.1	3705.2	3627.2
12.5°	4510.0	4534.8	4481.6	4384.1	4293.7	4187.3	4171.4	4077.4	3974.6	3841.7	3742.4
15°	4680.2	4712.1	4641.2	4536.5	4440.9	4336.3	4322.1	4237.0	4134.1	3994.1	3866.5
17.5°	4791.9	4818.4	4745.8	4628.8	4536.5	4449.7	4439.1	4368.1	4277.7	4136.0	3999.4
20°	4834.4	4862.8	4786.5	4667.7	4582.7	4515.3	4510.0	4458.5	4396.5	4267.2	4128.8
22.5°	4877.0	4903.6	4804.3	4680.2	4605.7	4563.2	4561.5	4527.7	4502.9	4396.5	4261.8
25°	5048.9	5056.0	4923.1	4744.0	4637.6	4600.4	4598.7	4596.9	4607.5	4524.1	4405.4
27.5°	5197.9	5196.0	5082.7	4914.2	4749.3	4671.3	4669.6	4687.3	4720.9	4651.9	4554.3
30°	5415.9	5396.4	5261.6	5086.2	4935.5	4814.9	4804.3	4788.3	4814.9	4760.0	4703.2
32.5°	5878.6	5816.6	5598.5	5286.5	5089.7	4997.5	4983.3	4884.0	4894.7	4861.1	4832.7
35°	6541.7	6460.1	6169.4	5665.9	5281.2	5150.0	5142.9	5017.1	4995.7	4965.6	4976.3
37.5°	7330.5	7229.5	6890.9	6215.4	5611.0	5327.2	5316.7	5203.2	5116.3	5084.4	5144.7
40°	8122.9	7995.3	7715.3	6885.5	6096.7	5623.4	5589.6	5417.6	5318.4	5265.2	5392.8
42.5°	8892.4	8786.0	8546.7	7637.2	6695.9	6055.9	5981.4	5687.1	5612.7	5563.1	5793.5
45°	9573.1	9477.4	9301.9	8440.3	7397.9	6644.5	6571.8	6091.4	6068.3	6068.3	6401.5
47.5°	10126.3	10105.0	9918.8	9259.3	8225.8	7314.6	7188.7	6653.3	6715.4	6811.1	7264.9
50°	10739.6	10681.1	10482.6	10065.9	9199.1	8082.2	7979.4	7342.9	7575.2	7837.6	8513.0
52.5°	11303.4	11335.3	11113.7	10906.3	10298.2	8938.4	8757.6	8156.6	8658.4	9092.7	9975.5
55°	11883.0	11884.9	11822.8	11794.5	11450.5	9885.1	9686.6	9135.2	9933.0	10471.9	11681.0
57.5°	12427.3	12430.9	12523.0	12773.0	12787.2	10977.1	10752.0	10337.2	11349.5	11899.0	13439.6
60°	12913.1	12937.9	13189.6	13774.7	13962.6	12228.8	12016.1	11757.3	12813.8	13366.9	15288.6
62.5°	13076.1	13166.6	13726.8	14558.3	15123.8	13764.0	13554.8	13400.6	14352.6	14866.7	16834.5
65°	12799.6	13007.0	14090.3	15205.3	16318.6	15588.2	15380.8	15212.4	15951.7	16435.7	18103.9
67.5°	12120.6	12388.4	14068.9	15884.3	17768.8	17782.9	17589.7	17194.4	17666.0	17852.1	18516.9
70°	10331.9	10732.6	12829.7	16137.8	19433.5	20784.3	20598.2	19580.6	19376.7	18476.1	17354.0
72.5°	6656.9	7195.8	9447.2	14051.2	19803.9	23608.4	23597.8	21734.5	19917.4	17263.6	13918.3
75°	2428.7	2758.5	4389.5	8819.7	16623.6	23464.8	23533.9	21365.8	18181.9	13335.0	8670.8
77.5°	884.7	967.9	1432.4	3389.6	10223.8	18827.1	18970.7	17080.9	12941.4	6692.3	3435.7
80°	464.4	510.6	733.9	1315.4	4380.5	11181.0	11406.2	10151.1	6082.5	2015.7	1030.0
82.5°	257.1	278.3	411.3	714.4	1973.1	4781.2	4916.0	4010.1	2139.8	854.4	425.5
85°	138.3	147.2	193.2	390.0	964.4	1657.5	1694.8	1198.4	852.7	501.7	205.6
87.5°	40.8	49.6	63.9	124.1	377.6	372.3	381.2	237.6	336.8	253.5	67.3
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°	3394.9	3394.9	3394.9	3394.9	3394.9	3394.9	3394.9	3394.9	3394.9	3394.9	3394.9
2.5°	3410.9	3405.6	3386.1	3377.2	3366.5	3364.8	3373.7	3375.4	3377.2	3378.9	3386.1
5°	3442.8	3425.0	3407.3	3396.6	3400.2	3402.0	3419.7	3432.1	3441.0	3448.1	3451.7
7.5°	3504.8	3490.6	3460.5	3458.8	3464.1	3480.0	3503.0	3531.4	3547.4	3559.8	3563.3
10°	3597.0	3570.4	3534.9	3540.2	3550.9	3574.0	3621.8	3644.9	3671.4	3694.5	3689.2
12.5°	3690.9	3668.0	3627.2	3630.7	3648.4	3689.2	3735.3	3763.7	3781.4	3799.1	3806.2
15°	3813.3	3772.5	3728.2	3728.2	3760.1	3804.4	3825.7	3848.8	3859.4	3878.9	3886.0
17.5°	3939.2	3886.0	3827.5	3824.0	3862.9	3884.2	3896.6	3900.1	3903.7	3924.9	3932.1
20°	4065.0	4006.5	3923.2	3916.1	3924.9	3921.4	3919.7	3916.1	3921.4	3948.0	3958.7
22.5°	4189.2	4121.7	4006.5	3974.6	3949.8	3916.1	3914.4	3912.5	3916.1	3942.7	3960.4
25°	4334.5	4252.9	4098.7	4002.9	3919.7	3873.6	3878.9	3880.6	3884.2	3905.5	3933.8
27.5°	4492.3	4401.9	4183.8	3994.1	3843.4	3811.6	3802.6	3808.0	3820.4	3854.1	3887.7
30°	4650.0	4543.7	4261.8	3958.7	3747.7	3703.4	3675.0	3687.4	3726.4	3760.1	3797.3
32.5°	4793.6	4687.3	4323.9	3880.6	3625.4	3556.2	3519.0	3534.9	3574.0	3586.4	3630.7
35°	4962.0	4841.5	4350.4	3756.5	3492.4	3386.1	3336.4	3313.3	3332.9	3320.5	3359.4
37.5°	5150.0	5024.1	4346.9	3593.4	3336.4	3214.1	3144.9	3058.1	3017.3	2974.8	3001.3
40°	5428.3	5247.5	4304.4	3396.6	3143.2	3031.4	2907.4	2760.2	2668.1	2584.7	2590.1
42.5°	5807.6	5557.8	4226.4	3180.4	2925.1	2820.5	2652.1	2480.2	2334.7	2196.5	2184.1
45°	6373.2	5963.7	4128.8	2950.0	2689.3	2586.5	2403.9	2210.7	2045.8	1868.6	1847.3
47.5°	7188.7	6509.7	4036.7	2687.5	2441.1	2347.1	2182.3	2003.3	1808.3	1636.3	1616.8
50°	8309.2	7293.3	3951.6	2432.3	2196.5	2125.5	1994.4	1811.8	1615.0	1476.7	1467.9
52.5°	9734.4	8358.8	3916.1	2185.8	1967.8	1941.2	1836.6	1666.4	1480.3	1363.2	1354.4
55°	11370.7	9633.4	3916.1	1950.1	1767.5	1776.3	1703.7	1545.9	1384.6	1279.9	1269.4
57.5°	13040.8	10924.0	3845.2	1732.0	1597.3	1634.6	1588.4	1450.2	1304.8	1196.7	1179.0
60°	14579.5	12005.4	3558.0	1533.5	1446.6	1505.1	1475.0	1356.2	1179.0	1088.6	1074.3
62.5°	15761.9	12615.3	3004.9	1375.7	1322.6	1389.9	1373.9	1232.0	1155.9	1118.7	1106.2
65°	16354.1	12516.0	2297.5	1235.6	1217.9	1322.6	1288.8	1283.5	1223.2	1180.7	1166.6
67.5°	15990.6	11661.5	1666.4	1132.8	1157.6	1260.4	1389.9	1411.1	1299.5	1216.2	1201.9
70°	14396.9	10115.6	1241.0	1035.4	1081.4	1262.2	1584.9	1476.7	1274.7	1177.1	1161.2
72.5°	10952.3	7543.3	962.7	932.4	982.2	1271.1	1671.8	1446.6	1203.8	1301.2	1290.6
75°	6263.3	4141.3	773.0	806.7	858.0	1187.8	1627.4	1368.6	1148.8	1194.8	1194.8
77.5°	2387.9	1591.9	638.2	682.5	689.6	1037.1	1556.6	1363.2	1093.8	1067.2	973.2
80°	827.9	622.3	528.3	542.4	533.6	921.9	1492.7	1186.0	895.2	801.3	774.7
82.5°	338.6	310.3	418.4	400.7	379.4	716.2	1205.5	969.8	732.2	647.1	640.0
85°	147.2	196.8	276.5	242.8	219.9	496.4	966.2	820.8	618.7	533.6	531.9
87.5°	30.1	74.4	117.1	109.9	113.5	331.5	686.0	583.2	437.9	328.0	257.1
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)