

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: LUMARK

Report Number: P964464

Luminaire Tested: **NAV-SB3C-722-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964464
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-722-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18911.2 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

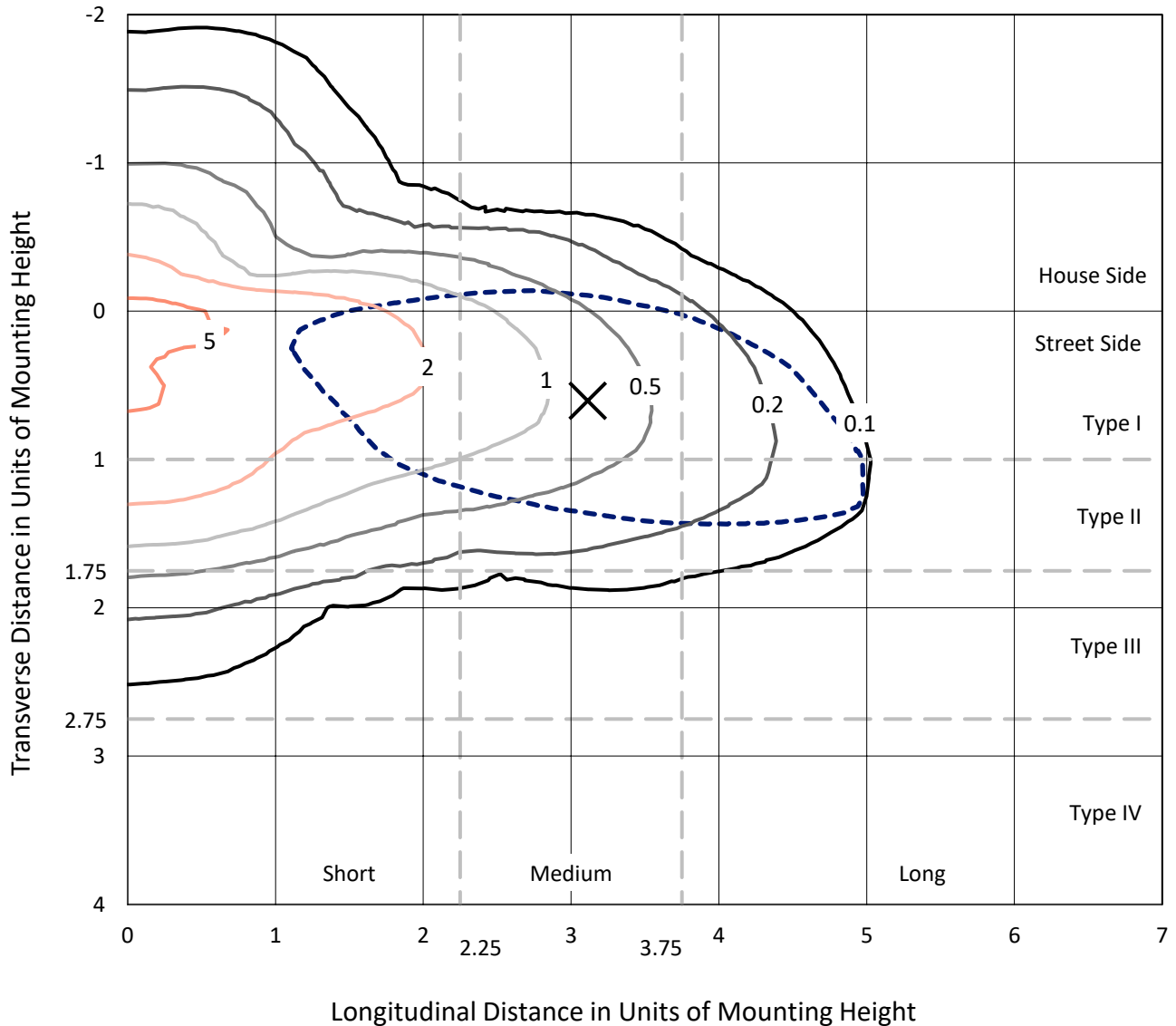
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

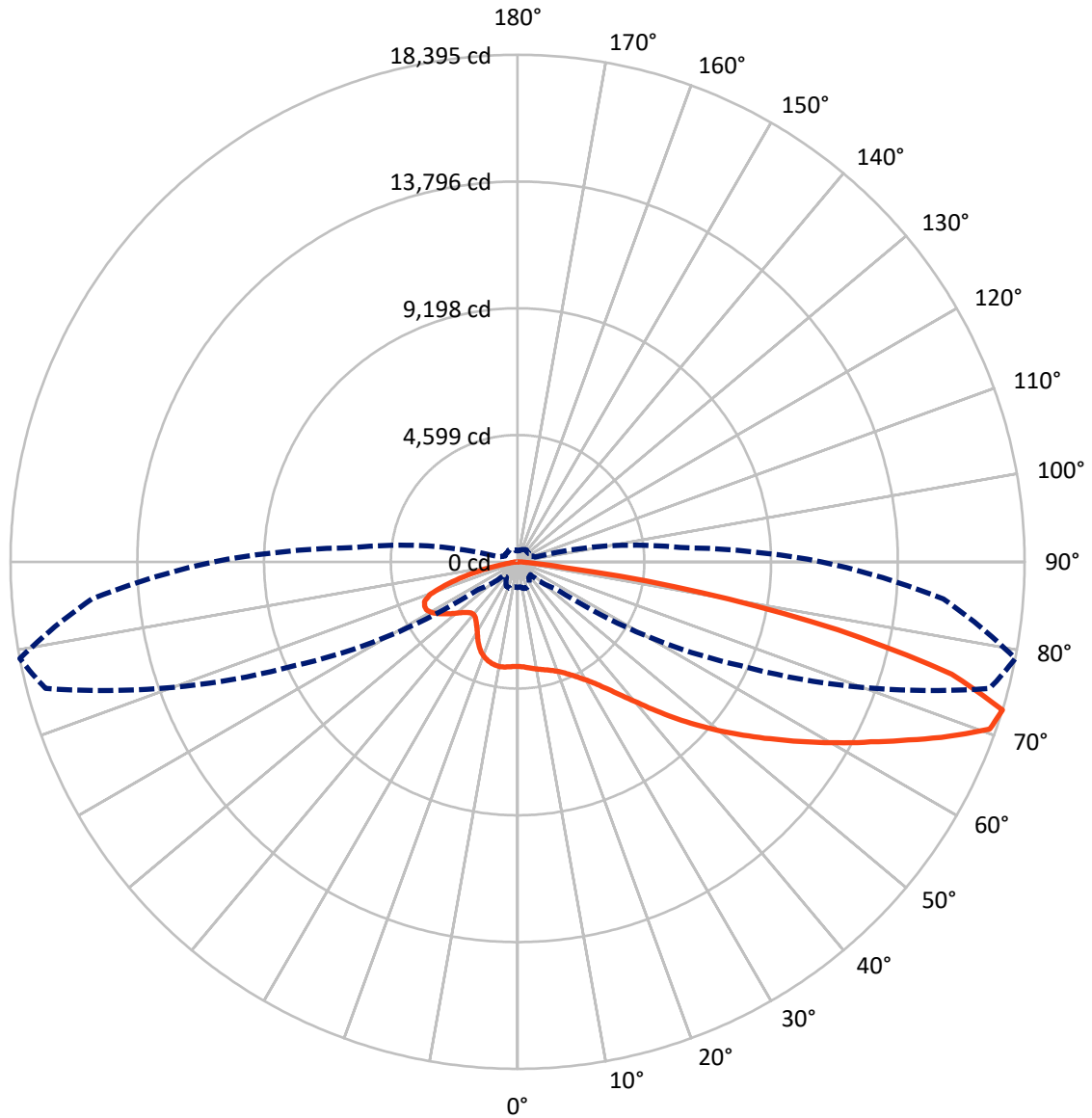
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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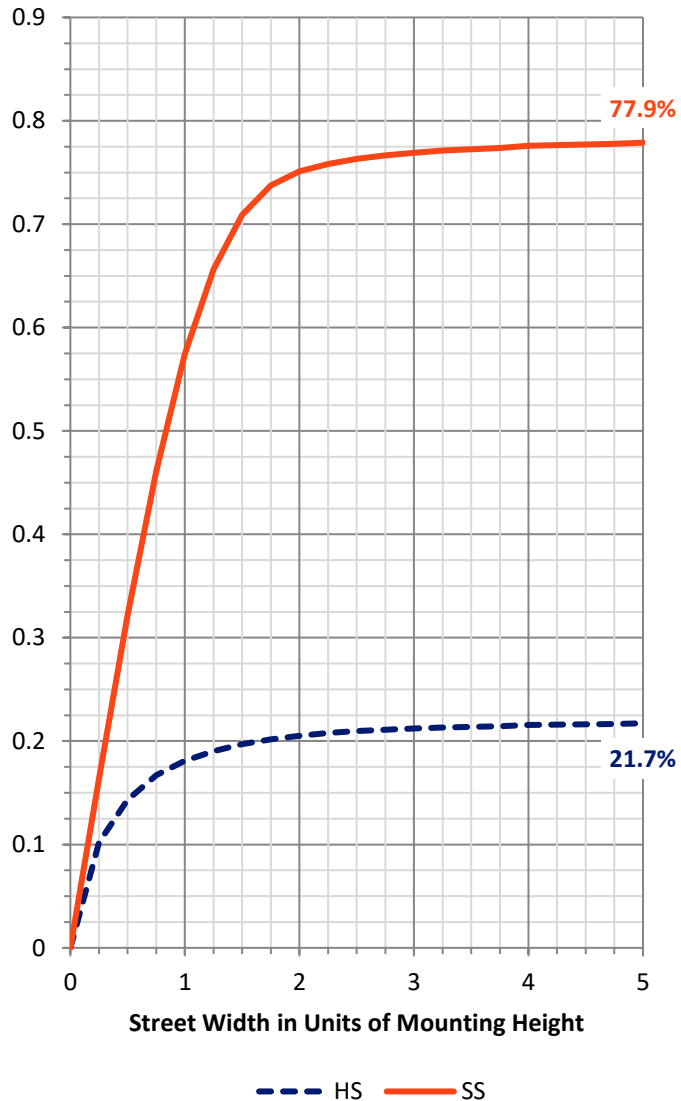
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4161.5	0.0	4161.5
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	14749.7	0.0	14749.7
	% Fixture	78.0	0.0	78.0
Total	Lumens	18911.2	0.0	18911.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.6	1.8
10°-20°	900.9	4.8
20°-30°	1453.7	7.7
30°-40°	2181.9	11.5
40°-50°	3095.1	16.4
50°-60°	3908.7	20.7
60°-70°	3969.8	21.0
70°-80°	2705.6	14.3
80°-90°	351.0	1.9
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°	18911.2	100.0
0°-180°	18911.2	100.0

Coefficient of Utilization



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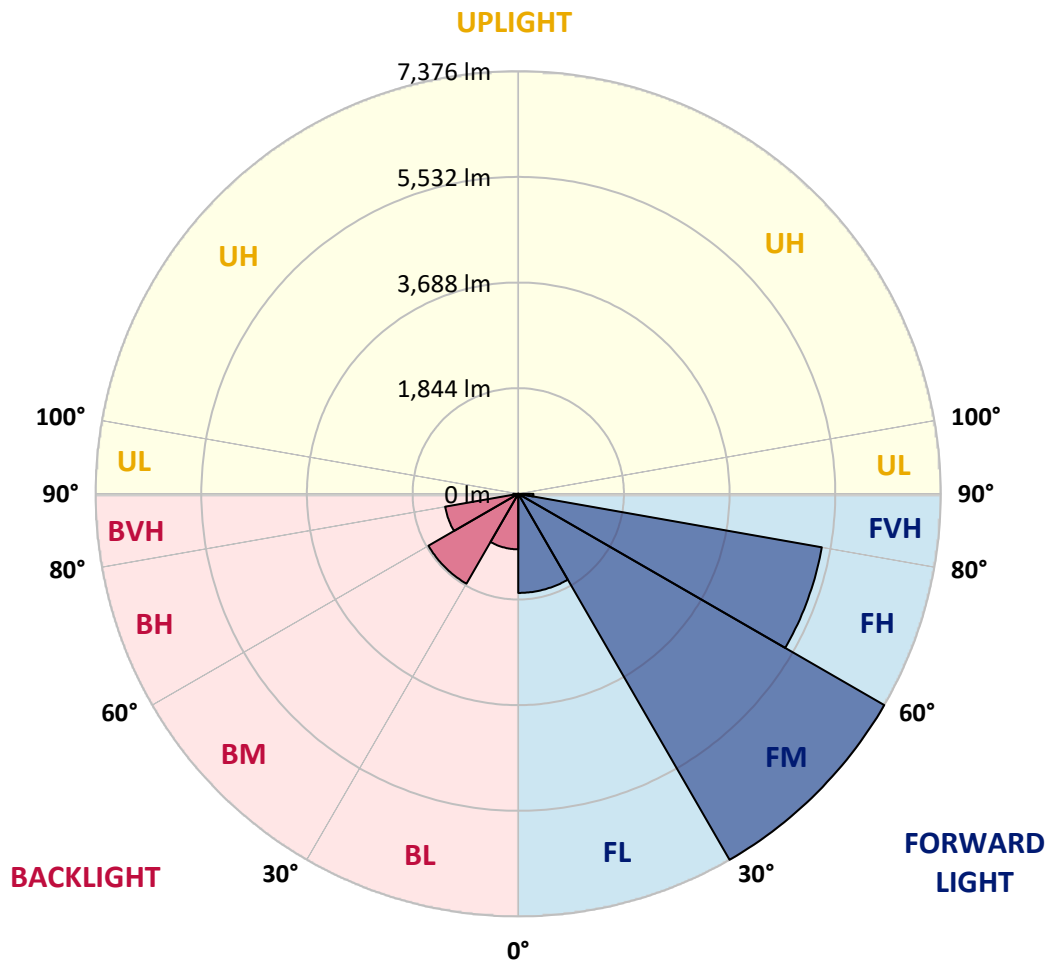
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1729.9	9.1			
FM (30°-60°)	7375.8	39.0			
FH (60°-80°)	5379.6	28.4			G3/7500
FVH (80°-90°)	264.4	1.4			G3/500
BL (0°-30°)	969.3	5.1	B2/1000		
BM (30°-60°)	1809.8	9.6	B2/2500		
BH (60°-80°)	1295.8	6.9	B3/2500		G3/2500
BVH (80°-90°)	86.6	0.5			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3796.3	3796.3	3796.3	3796.3	3796.3	3796.3	3796.3	3796.3	3796.3	3796.3	3796.3
2.5°	3798.2	3780.2	3791.3	3787.3	3792.3	3798.2	3800.3	3803.3	3813.3	3812.3	3811.3
5°	3790.2	3772.2	3787.3	3782.2	3795.3	3809.2	3821.3	3832.3	3848.3	3855.2	3845.3
7.5°	3773.2	3761.2	3776.2	3791.3	3815.3	3836.3	3853.3	3878.3	3901.3	3905.2	3912.3
10°	3674.2	3665.2	3700.2	3739.2	3805.2	3862.3	3899.3	3928.3	3953.3	3957.3	3967.3
12.5°	3571.2	3560.1	3599.2	3652.2	3759.3	3862.3	3940.3	3978.3	4000.4	4013.3	4028.4
15°	3554.2	3545.2	3567.2	3613.2	3702.2	3835.2	3968.3	4038.3	4057.4	4072.3	4078.4
17.5°	3636.2	3619.2	3628.2	3644.2	3696.3	3810.2	3990.3	4106.4	4135.4	4151.4	4151.4
20°	3826.2	3802.2	3788.3	3756.2	3747.2	3814.2	3988.3	4188.4	4226.4	4246.4	4251.4
22.5°	4079.4	4063.3	4033.4	3952.3	3864.2	3863.2	4026.3	4293.4	4364.4	4383.4	4371.4
25°	4385.5	4361.5	4323.4	4213.4	4044.3	3960.3	4090.4	4427.5	4546.5	4551.5	4516.5
27.5°	4737.5	4701.6	4649.5	4504.5	4276.4	4112.4	4188.4	4581.5	4755.6	4753.5	4681.6
30°	5108.7	5072.7	5017.7	4841.6	4554.5	4317.4	4324.5	4747.6	5003.6	4992.7	4869.6
32.5°	5379.8	5352.8	5341.8	5205.8	4874.6	4559.5	4480.5	4931.6	5309.7	5299.8	5127.7
35°	5587.9	5552.8	5565.9	5496.8	5223.7	4830.6	4671.5	5150.7	5681.9	5680.9	5466.8
37.5°	5793.9	5762.9	5773.9	5727.9	5546.8	5174.7	4904.6	5418.8	6143.0	6165.1	5876.9
40°	5982.0	5949.0	5993.0	5949.9	5797.9	5540.8	5169.7	5721.9	6677.2	6719.2	6373.1
42.5°	6095.1	6069.0	6142.0	6143.0	6016.0	5850.0	5460.8	6056.0	7295.4	7389.4	6983.3
45°	6134.0	6125.0	6235.1	6258.0	6209.0	6028.9	5722.9	6420.1	7961.6	8129.7	7678.6
47.5°	6092.0	6075.0	6227.1	6312.1	6351.1	6113.0	5940.0	6814.2	8641.9	8888.0	8436.8
50°	5879.9	5846.9	6073.0	6252.1	6391.1	6168.0	6159.0	7269.4	9415.1	9684.2	9199.1
52.5°	5498.8	5473.8	5730.9	6042.0	6303.0	6195.0	6405.1	7766.5	10149.3	10497.4	9980.3
55°	5011.6	4978.6	5261.7	5667.8	6084.0	6186.1	6651.2	8322.8	11015.7	11368.8	10787.6
57.5°	4239.4	4173.4	4531.5	5011.6	5726.9	6175.0	6907.3	8875.9	11895.9	12319.1	11648.8
60°	3113.0	3015.0	3454.1	4023.3	5028.6	6068.0	7224.4	9496.1	12952.3	13333.4	12589.2
62.5°	1812.6	1755.6	2042.7	2573.9	3790.2	5437.8	7402.4	10217.4	13990.6	14390.8	13513.5
65°	1407.4	1391.4	1416.4	1457.4	2109.7	4071.3	6853.3	10920.7	15311.0	15591.2	14476.8
67.5°	1287.4	1275.4	1286.4	1209.4	1070.3	2267.7	5421.8	11098.7	16725.5	16895.6	15320.1
70°	1144.4	1130.4	1166.3	1100.3	842.2	1031.4	3503.1	10452.4	17850.9	18170.0	15961.3
72.5°	932.3	916.4	1000.3	970.4	709.2	662.3	1759.6	8917.0	17732.8	18395.1	15502.1
75°	716.3	707.2	807.3	832.3	578.2	521.2	844.3	6628.2	15605.1	16272.4	13360.4
77.5°	556.2	549.2	600.2	691.3	466.2	404.2	519.2	4204.3	11759.9	11876.9	9207.1
80°	417.2	397.1	444.1	535.2	363.2	295.1	352.1	2451.8	7433.5	6738.2	4007.3
82.5°	261.1	251.1	290.1	357.1	256.0	203.1	229.1	1354.4	2979.0	1754.6	773.3
85°	149.0	145.0	158.1	204.1	139.1	117.1	131.0	598.2	544.2	374.1	233.1
87.5°	60.1	58.0	72.1	91.0	51.0	43.0	46.0	144.0	120.0	111.0	77.0
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°	3796.3	3796.3	3796.3	3796.3	3796.3	3796.3	3796.3	3796.3	3796.3	3796.3	3796.3
2.5°	3807.3	3807.3	3793.2	3771.3	3746.3	3730.3	3704.2	3697.2	3670.2	3662.2	3675.2
5°	3853.3	3845.3	3802.2	3740.2	3655.3	3577.1	3491.2	3437.1	3361.1	3334.1	3354.1
7.5°	3911.3	3889.3	3815.3	3679.2	3501.2	3326.1	3144.1	3006.0	2874.0	2827.0	2832.9
10°	3964.3	3933.3	3807.3	3569.2	3261.0	2957.9	2667.9	2464.8	2310.8	2247.7	2261.8
12.5°	4017.3	3960.3	3754.3	3386.1	2919.9	2508.8	2199.8	2041.7	1946.7	1870.6	1895.6
15°	4067.3	3987.4	3672.2	3141.0	2545.8	2128.7	1900.7	1774.6	1698.5	1648.5	1657.5
17.5°	4125.3	4010.3	3549.2	2829.9	2189.7	1865.6	1679.6	1603.5	1588.5	1582.5	1586.5
20°	4206.4	4031.3	3387.1	2481.8	1927.6	1655.6	1559.5	1552.5	1551.5	1548.5	1558.5
22.5°	4293.4	4056.3	3173.1	2165.7	1704.6	1524.5	1507.5	1493.5	1484.5	1483.5	1494.4
25°	4396.4	4064.3	2905.0	1906.6	1514.5	1462.5	1442.5	1421.5	1415.4	1415.4	1421.5
27.5°	4496.5	4037.4	2592.8	1681.5	1407.4	1405.5	1379.4	1372.5	1371.4	1374.4	1382.4
30°	4596.5	3986.3	2282.8	1473.4	1345.4	1345.4	1336.4	1341.4	1345.4	1355.5	1362.4
32.5°	4731.6	3932.3	2023.7	1319.5	1291.4	1281.5	1290.5	1300.4	1304.4	1317.4	1328.4
35°	4929.6	3894.3	1817.6	1235.4	1235.4	1222.4	1227.4	1225.4	1216.4	1210.4	1224.4
37.5°	5191.7	3892.3	1647.6	1196.4	1188.4	1186.4	1187.4	1174.3	1139.4	1097.4	1098.4
40°	5506.8	3946.4	1516.5	1169.4	1163.4	1175.4	1169.4	1134.4	1038.3	965.3	963.3
42.5°	5929.9	4100.3	1432.4	1136.4	1154.4	1169.4	1145.3	1024.4	959.3	910.3	908.3
45°	6428.1	4350.4	1389.5	1101.4	1137.3	1155.4	1039.4	986.4	934.3	875.2	871.2
47.5°	6992.3	4665.5	1379.4	1068.4	1099.3	1110.4	994.4	970.4	911.3	847.3	842.2
50°	7606.5	5038.7	1406.5	1029.3	1044.4	1006.3	979.3	957.4	896.3	833.3	826.3
52.5°	8241.7	5449.8	1460.5	976.3	989.3	947.3	973.3	954.3	887.3	802.3	796.2
55°	8865.9	5863.9	1512.5	914.3	933.3	894.3	956.3	942.3	846.2	750.2	745.3
57.5°	9500.1	6276.1	1563.5	859.3	879.2	843.3	929.3	910.3	800.2	702.2	700.3
60°	10159.4	6676.2	1587.5	806.3	820.3	796.2	888.3	855.3	748.2	653.2	650.3
62.5°	10776.5	7009.4	1548.5	753.3	762.3	752.2	834.2	790.3	696.2	598.2	597.2
65°	11395.7	7207.4	1428.4	701.2	703.3	698.2	758.3	720.3	635.2	550.2	544.2
67.5°	11956.9	7318.4	1237.4	645.2	640.2	638.2	687.3	644.2	576.2	502.1	496.2
70°	12076.0	7036.3	945.4	579.2	579.2	574.2	609.2	565.2	511.2	451.1	449.2
72.5°	11029.6	5919.0	671.3	504.2	512.2	502.1	531.2	494.2	445.2	405.2	393.1
75°	8893.9	4340.5	488.2	427.1	441.2	424.1	451.1	425.2	383.1	382.1	344.1
77.5°	6111.0	2683.9	354.1	352.1	362.1	340.1	371.2	357.1	319.1	302.1	283.1
80°	2607.9	1070.3	258.1	272.1	272.1	252.0	288.1	292.1	259.1	251.1	251.1
82.5°	519.2	304.1	181.0	187.1	176.1	170.0	204.1	226.1	312.1	347.1	348.1
85°	156.0	112.0	109.1	102.0	90.0	91.0	120.0	227.0	280.1	160.0	138.1
87.5°	43.0	28.0	29.0	23.0	19.0	25.0	41.0	172.1	94.0	40.0	34.0
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)