

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: P967628

Luminaire Tested: **NAV-SB5A-722-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967628
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5A-722-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18751.4 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

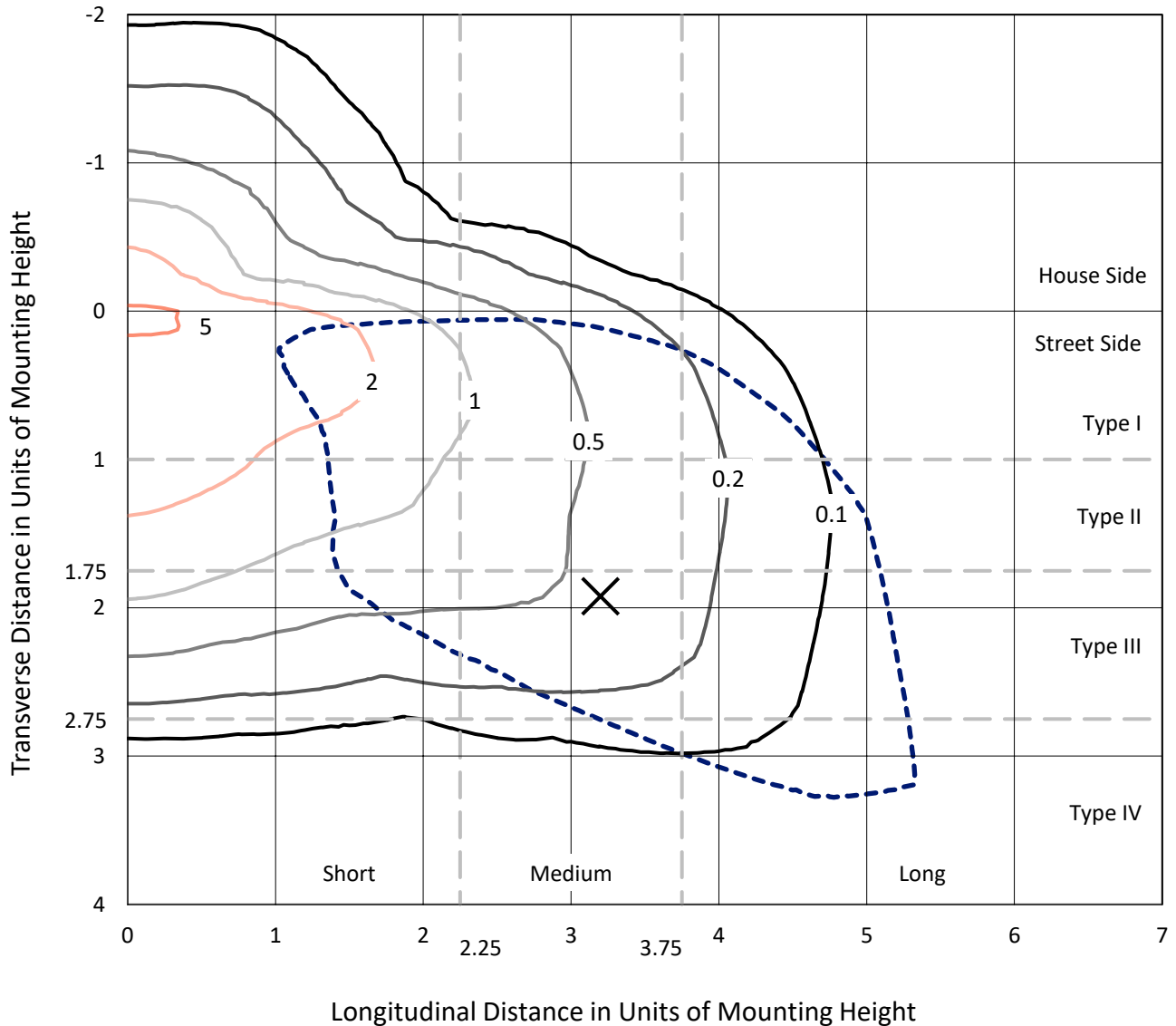
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

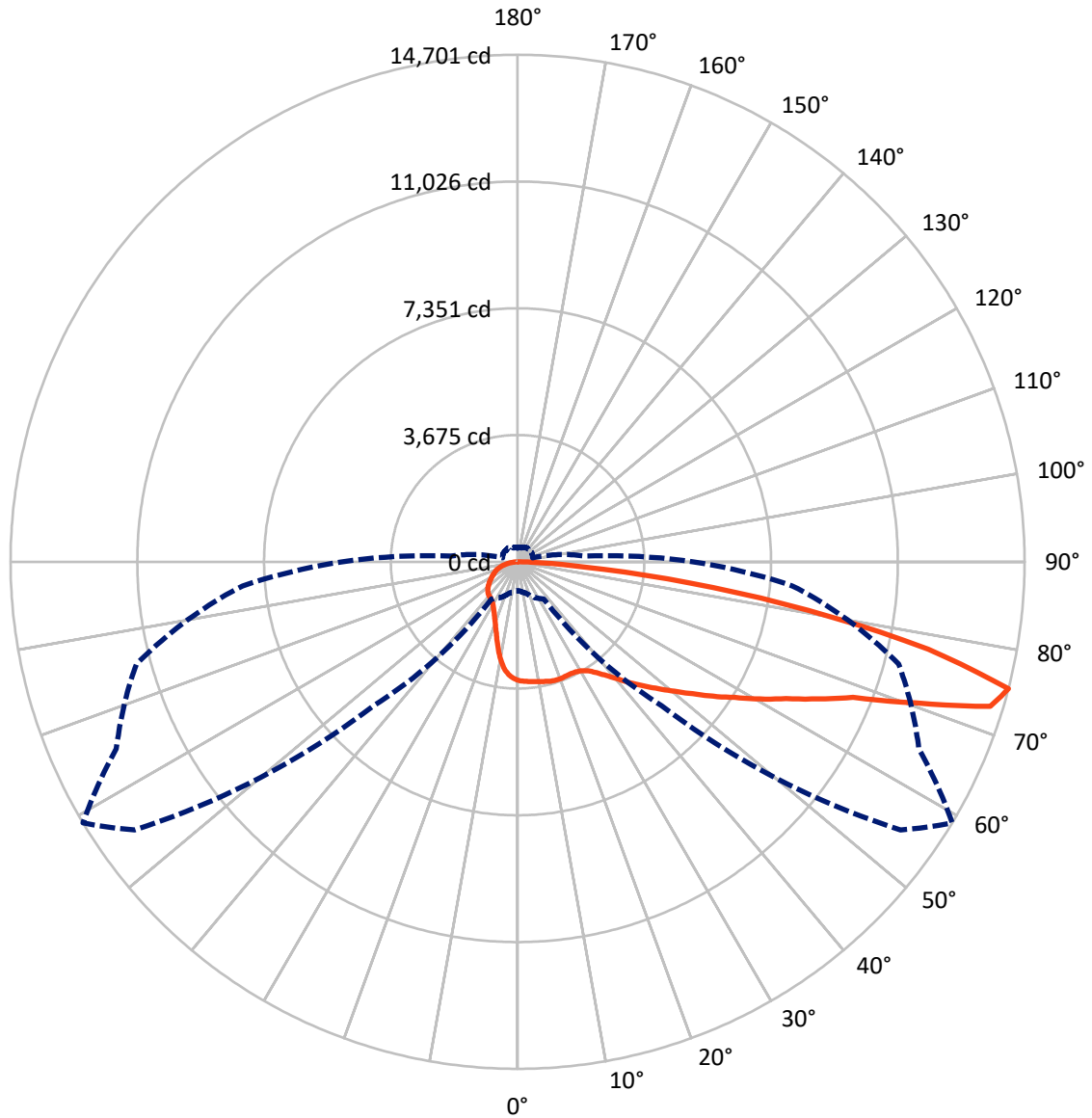
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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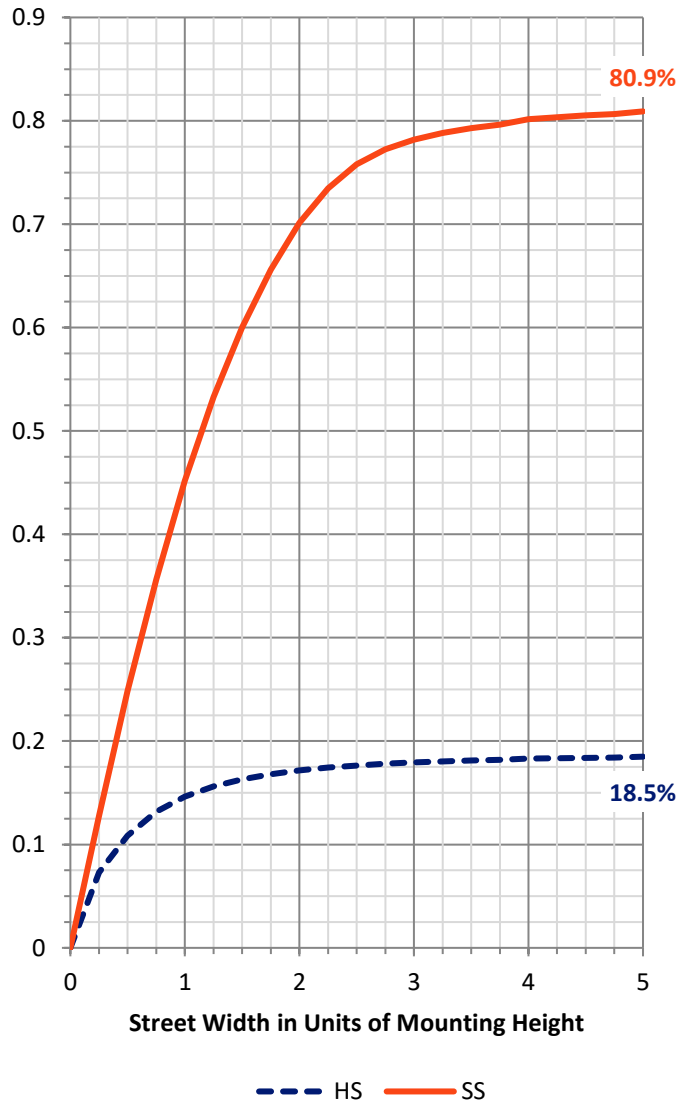
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3517.0	0.0	3517.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	15234.4	0.0	15234.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	18751.4	0.0	18751.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.6	1.6
10°-20°	788.8	4.2
20°-30°	1198.2	6.4
30°-40°	1781.0	9.5
40°-50°	2648.7	14.1
50°-60°	3595.3	19.2
60°-70°	4389.3	23.4
70°-80°	3444.7	18.4
80°-90°	596.7	3.2
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°	18751.4	100.0
0°-180°	18751.4	100.0

Coefficient of Utilization

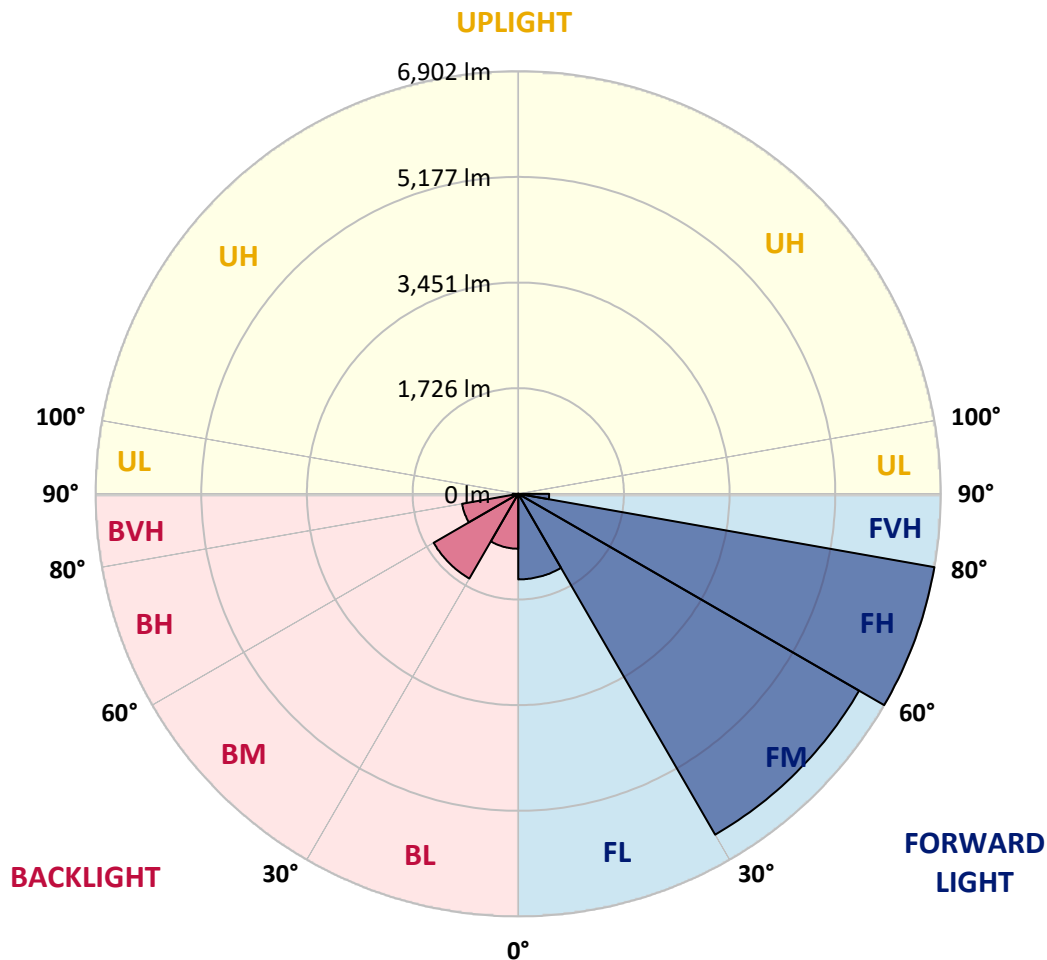


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1398.1	7.5			
FM (30°-60°)	6428.8	34.3			
FH (60°-80°)	6902.2	36.8			G3/7500
FVH (80°-90°)	505.4	2.7			G4/750
BL (0°-30°)	897.5	4.8	B2/1000		
BM (30°-60°)	1596.3	8.5	B2/2500		
BH (60°-80°)	931.8	5.0	B2/1000		G2/1000
BVH (80°-90°)	91.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3441.7	3441.7	3441.7	3441.7	3441.7	3441.7	3441.7	3441.7	3441.7	3441.7	3441.7
2.5°	3471.1	3459.0	3471.1	3465.9	3464.0	3459.9	3460.9	3468.0	3464.0	3469.0	3451.9
5°	3447.8	3440.7	3452.8	3449.8	3463.0	3465.0	3478.1	3486.1	3491.2	3492.2	3479.1
7.5°	3409.5	3402.4	3419.6	3433.6	3461.9	3470.0	3497.2	3510.3	3517.4	3529.5	3510.3
10°	3269.2	3266.3	3308.6	3362.1	3428.6	3470.0	3511.3	3533.6	3544.7	3576.9	3554.7
12.5°	3021.1	3025.2	3080.6	3183.5	3316.7	3449.8	3527.5	3559.8	3576.9	3617.3	3607.2
15°	2784.1	2783.1	2843.6	2953.5	3140.2	3361.1	3535.5	3591.1	3620.3	3679.9	3671.8
17.5°	2646.9	2642.9	2685.2	2768.9	2942.5	3224.9	3515.4	3608.2	3670.7	3745.3	3738.4
20°	2621.6	2613.6	2635.8	2677.2	2800.2	3075.6	3463.0	3608.2	3711.1	3808.0	3803.9
22.5°	2713.5	2700.4	2691.2	2686.2	2740.7	2952.5	3403.4	3596.1	3770.6	3897.7	3890.7
25°	2898.1	2877.9	2831.5	2786.1	2770.0	2897.1	3351.0	3593.0	3859.3	4018.7	3992.6
27.5°	3196.7	3171.5	3077.7	2968.7	2870.8	2925.4	3327.8	3611.3	3957.2	4146.8	4094.4
30°	3566.9	3539.6	3421.6	3254.2	3078.6	3030.2	3357.1	3664.7	4082.3	4317.3	4214.5
32.5°	3898.7	3868.5	3767.6	3597.1	3360.1	3211.7	3449.8	3766.6	4279.0	4554.4	4395.0
35°	4193.3	4157.9	4067.2	3909.9	3705.1	3467.0	3617.3	3947.2	4558.4	4939.7	4640.2
37.5°	4481.8	4440.4	4341.6	4175.1	4031.8	3807.0	3848.3	4179.1	4929.6	5407.8	4964.9
40°	4804.6	4745.0	4625.0	4460.6	4321.4	4205.4	4151.9	4463.6	5306.9	5930.3	5370.5
42.5°	5117.2	5060.7	4917.5	4777.3	4602.8	4569.6	4504.0	4796.5	5719.5	6504.2	5782.0
45°	5454.1	5386.6	5213.0	5035.5	4925.6	4811.7	4844.9	5129.4	6124.0	7089.3	6213.8
47.5°	5769.9	5694.3	5489.5	5291.8	5231.3	5015.4	5157.6	5495.5	6544.6	7682.5	6641.5
50°	5940.4	5865.8	5695.3	5516.8	5469.3	5266.6	5496.6	5898.1	6985.4	8273.6	7052.0
52.5°	6082.7	6001.9	5779.0	5680.1	5666.0	5539.9	5914.1	6358.0	7426.2	8796.0	7448.5
55°	6233.9	6144.2	5859.7	5771.0	5835.4	5846.6	6409.4	6879.5	7892.3	9305.5	7822.7
57.5°	6408.4	6294.4	5937.3	5847.6	6000.9	6205.7	6978.4	7420.2	8350.3	9777.6	8155.5
60°	6572.8	6457.8	6086.7	5969.6	6179.4	6622.3	7631.0	8074.8	8868.7	10198.2	8470.3
62.5°	6605.1	6510.3	6205.7	6204.6	6421.5	7108.5	8403.7	8735.6	9321.7	10613.8	8752.7
65°	6046.3	5986.8	5806.2	6195.6	6768.6	7808.6	9264.2	9580.9	9897.6	10976.9	9000.8
67.5°	4601.8	4609.8	4596.7	5348.2	6488.1	8814.3	10509.9	10485.6	10608.7	11384.5	9286.3
70°	2104.2	2151.6	2460.3	3691.9	5198.0	8930.2	12569.7	12256.0	11501.5	11912.0	9533.4
72.5°	1136.8	1173.1	1299.2	1788.4	3125.0	7939.6	14109.0	14332.0	12688.8	12267.1	9262.1
75°	834.2	854.4	942.2	1136.8	1312.3	5901.0	13557.3	14701.2	12837.0	11438.9	7998.2
77.5°	624.4	633.4	705.1	900.8	671.8	3110.9	10832.7	12175.3	10989.0	9398.3	5908.1
80°	452.9	463.0	516.5	675.9	471.1	1137.9	7438.3	8545.9	7526.1	5990.8	2944.5
82.5°	312.7	316.7	339.9	460.0	328.8	441.8	4220.5	5011.3	4201.4	2102.2	794.9
85°	188.6	193.7	203.8	268.3	186.7	209.8	1821.7	1884.3	1255.8	502.4	247.1
87.5°	77.7	82.7	90.8	113.0	73.6	58.5	300.6	377.3	235.0	147.3	76.7
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°	3441.7	3441.7	3441.7	3441.7	3441.7	3441.7	3441.7	3441.7	3441.7	3441.7	3441.7
2.5°	3446.8	3439.8	3420.6	3394.4	3370.2	3339.9	3326.7	3315.7	3305.6	3286.5	3277.3
5°	3468.0	3448.8	3397.4	3330.8	3255.2	3172.5	3091.7	3036.3	2988.9	2953.5	2924.3
7.5°	3500.3	3464.0	3370.2	3234.0	3060.4	2882.9	2722.5	2608.5	2522.8	2491.6	2437.0
10°	3533.6	3490.2	3326.7	3086.7	2787.1	2513.7	2300.9	2183.9	2115.3	2093.2	2058.8
12.5°	3572.9	3509.4	3259.2	2881.9	2481.4	2181.9	1996.3	1927.7	1892.4	1880.3	1883.3
15°	3630.4	3525.5	3157.3	2625.7	2189.9	1939.8	1819.8	1772.3	1754.2	1753.2	1757.2
17.5°	3673.8	3528.6	2998.9	2351.4	1966.1	1793.5	1694.6	1676.5	1688.6	1706.7	1713.8
20°	3722.2	3501.3	2791.2	2101.1	1808.6	1665.4	1624.0	1636.1	1665.4	1691.7	1700.7
22.5°	3756.5	3451.9	2540.0	1906.5	1672.5	1591.7	1589.8	1615.0	1631.1	1644.2	1651.3
25°	3786.8	3368.2	2273.7	1743.1	1560.5	1547.3	1569.6	1561.5	1550.4	1561.5	1568.6
27.5°	3808.9	3236.0	2035.6	1599.8	1481.8	1517.1	1504.0	1485.8	1484.8	1490.9	1501.0
30°	3801.9	3059.4	1839.9	1463.7	1426.3	1460.6	1429.4	1426.3	1423.3	1426.3	1437.5
32.5°	3801.9	2858.7	1689.6	1369.8	1391.0	1377.9	1374.9	1367.9	1355.8	1354.7	1367.9
35°	3823.0	2658.0	1560.5	1319.4	1361.8	1330.6	1332.5	1315.4	1290.2	1278.1	1290.2
37.5°	3866.4	2496.6	1432.4	1295.2	1310.4	1309.3	1301.2	1272.0	1227.6	1189.3	1202.4
40°	3971.4	2449.1	1344.6	1284.1	1286.2	1298.3	1277.0	1220.6	1119.7	1057.2	1065.2
42.5°	4135.8	2528.9	1325.4	1256.9	1270.0	1282.1	1240.8	1109.6	1038.0	1000.6	1000.6
45°	4344.6	2668.1	1366.8	1217.5	1231.6	1252.9	1129.8	1067.2	1034.9	1036.0	1041.0
47.5°	4608.9	2814.3	1443.5	1183.3	1176.2	1188.3	1056.2	1017.8	973.4	984.5	1012.8
50°	4914.5	2962.7	1516.1	1136.8	1114.7	1075.3	1008.7	972.4	915.9	889.7	896.8
52.5°	5245.3	3105.9	1545.4	1080.4	1048.1	1002.7	976.4	932.0	863.5	820.1	819.1
55°	5559.1	3236.0	1513.1	1012.8	981.5	946.2	942.2	914.9	841.3	780.7	780.7
57.5°	5855.6	3344.9	1432.4	944.1	913.9	892.7	919.9	906.8	814.1	736.4	732.4
60°	6106.8	3419.6	1315.4	874.5	853.4	842.2	883.7	879.7	775.7	689.0	685.9
62.5°	6306.5	3448.8	1186.2	808.0	803.0	782.8	833.2	833.2	727.3	642.6	639.5
65°	6462.9	3420.6	1055.1	742.4	752.6	722.2	771.7	765.6	675.9	601.2	597.2
67.5°	6601.1	3327.8	909.9	677.8	701.1	662.8	707.1	693.0	619.4	559.9	555.9
70°	6662.6	3111.9	744.5	613.3	641.5	604.2	642.6	616.3	555.9	515.5	507.4
72.5°	6168.3	2586.4	586.1	545.7	569.9	539.7	573.0	542.7	487.2	469.0	454.0
75°	5103.2	1940.7	450.9	472.1	490.3	467.0	489.2	467.0	416.6	429.7	392.4
77.5°	3706.1	1310.4	345.0	394.4	402.5	390.4	409.6	384.4	339.0	335.9	320.8
80°	1843.0	767.6	270.3	311.7	308.6	300.6	322.8	310.7	272.3	288.5	285.5
82.5°	533.6	328.8	196.7	218.9	212.8	214.8	231.0	237.1	355.1	352.1	360.1
85°	167.5	129.1	118.0	122.1	116.0	119.0	136.2	270.3	250.2	146.3	158.4
87.5°	43.4	44.4	29.2	31.3	32.3	38.3	43.4	164.4	78.7	51.5	54.4
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)