

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: P970281

Luminaire Tested: **NAV-SB6B-722-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970281
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-722-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21891.9 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

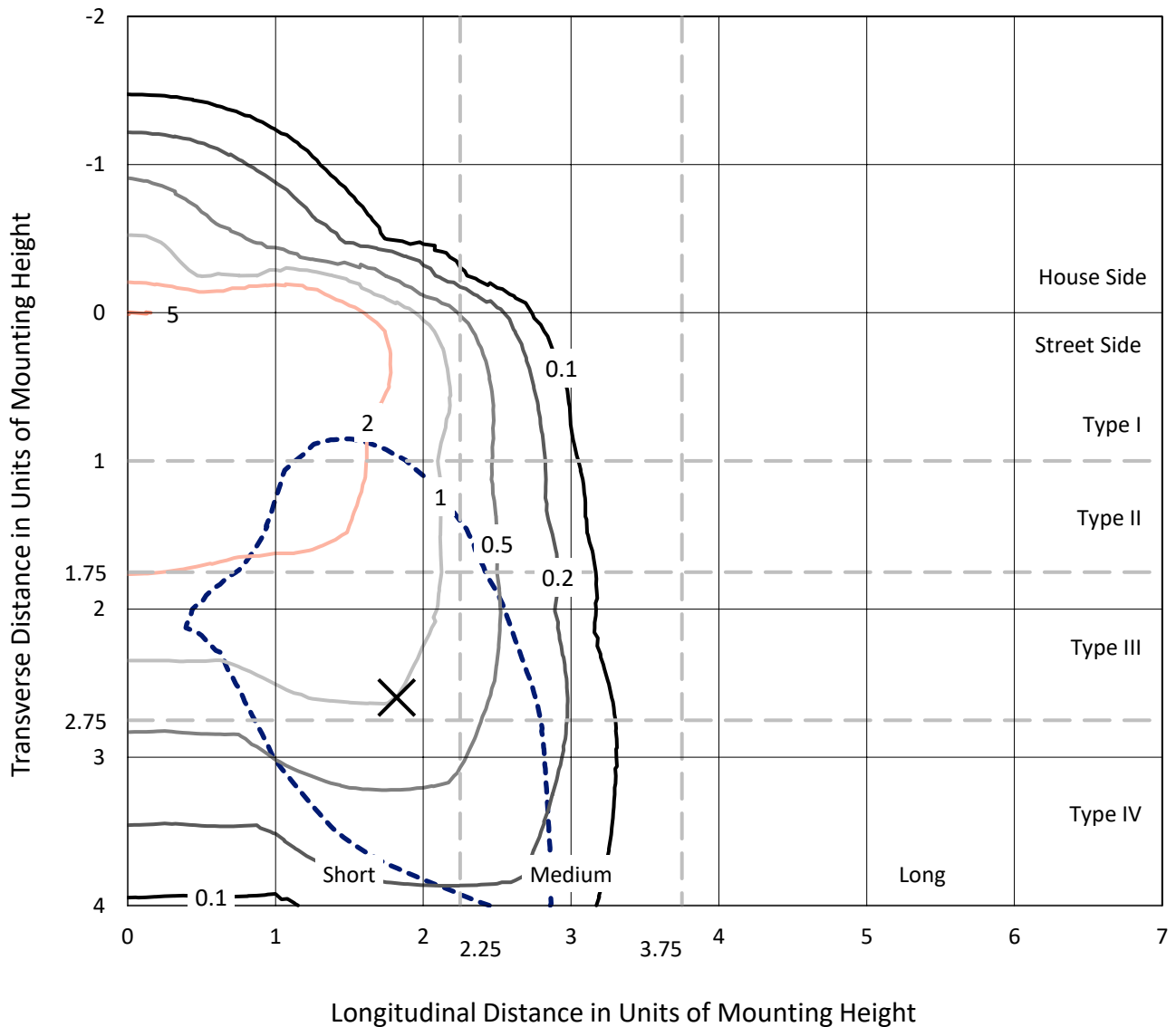
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

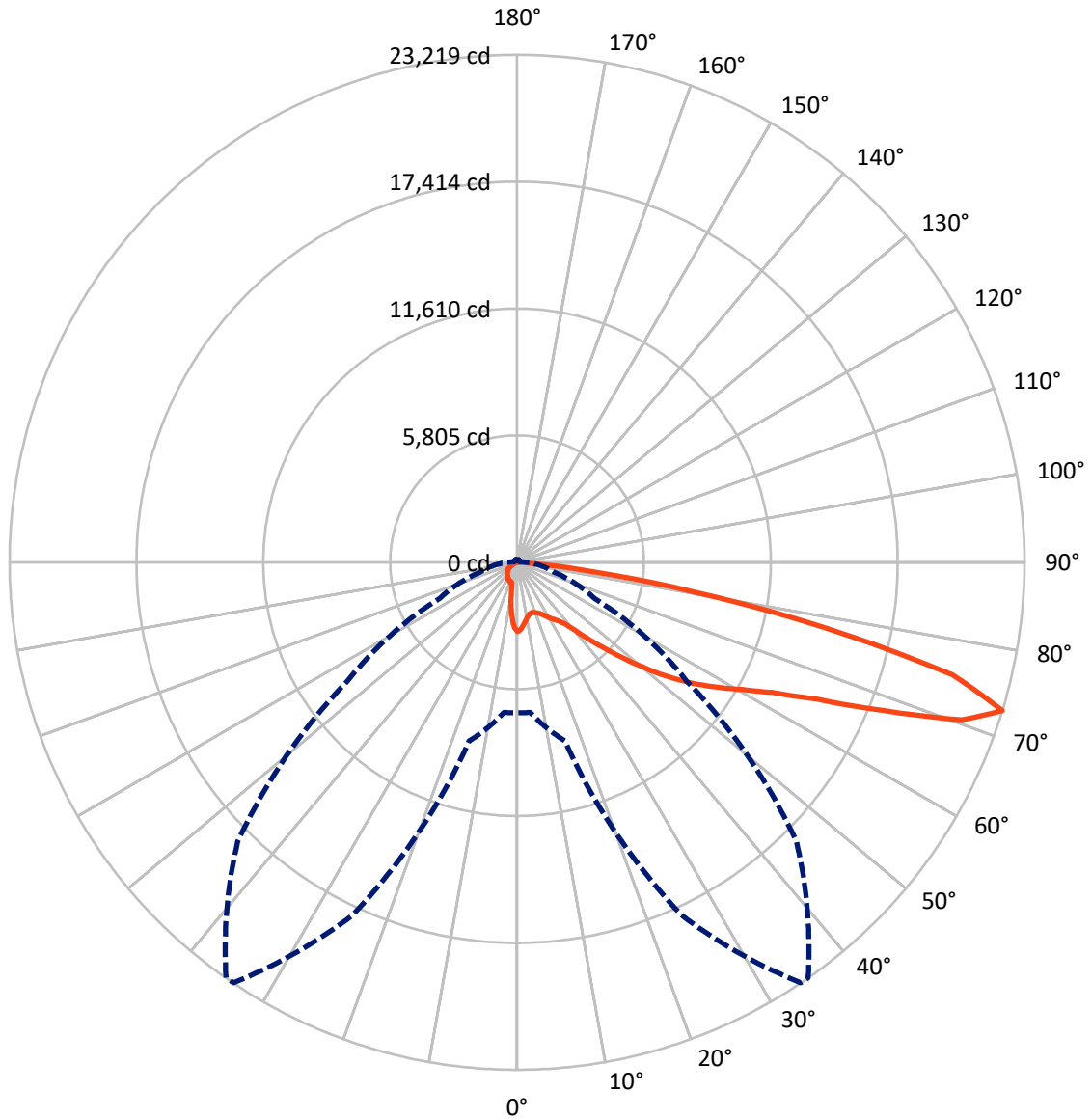
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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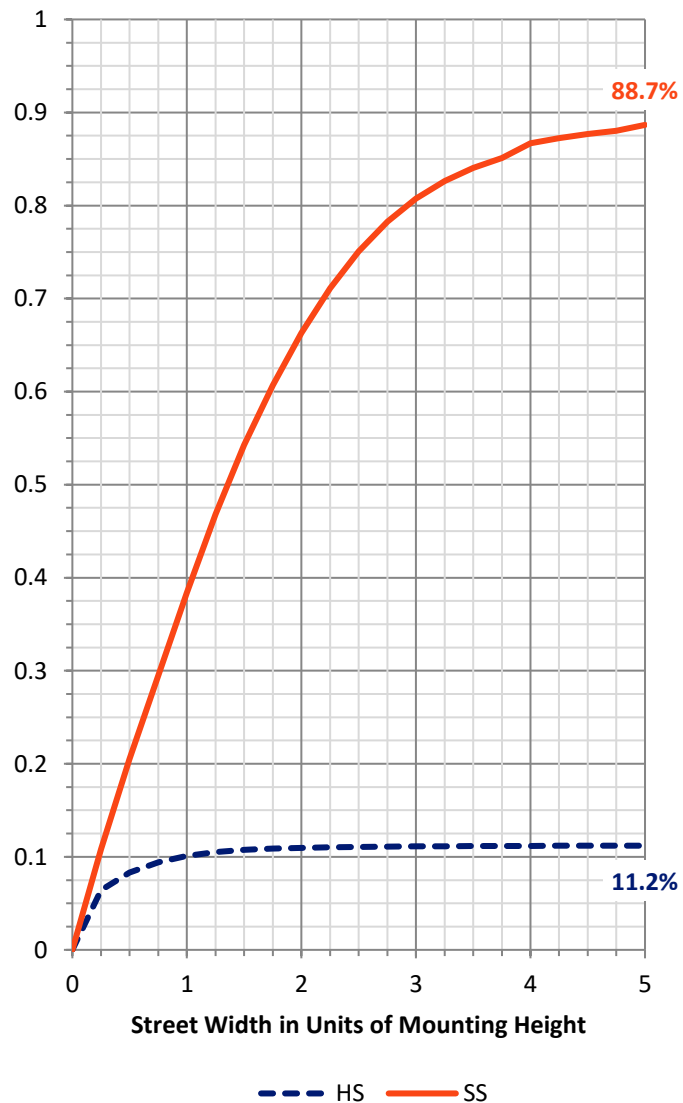
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2463.8	0.0	2463.8
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	19428.1	0.0	19428.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	21891.9	0.0	21891.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.7	1.2
10°-20°	609.9	2.8
20°-30°	990.8	4.5
30°-40°	1653.2	7.6
40°-50°	3127.9	14.3
50°-60°	4970.2	22.7
60°-70°	6148.4	28.1
70°-80°	3821.9	17.5
80°-90°	308.9	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°	21891.9	100.0
0°-180°	21891.9	100.0

Coefficient of Utilization

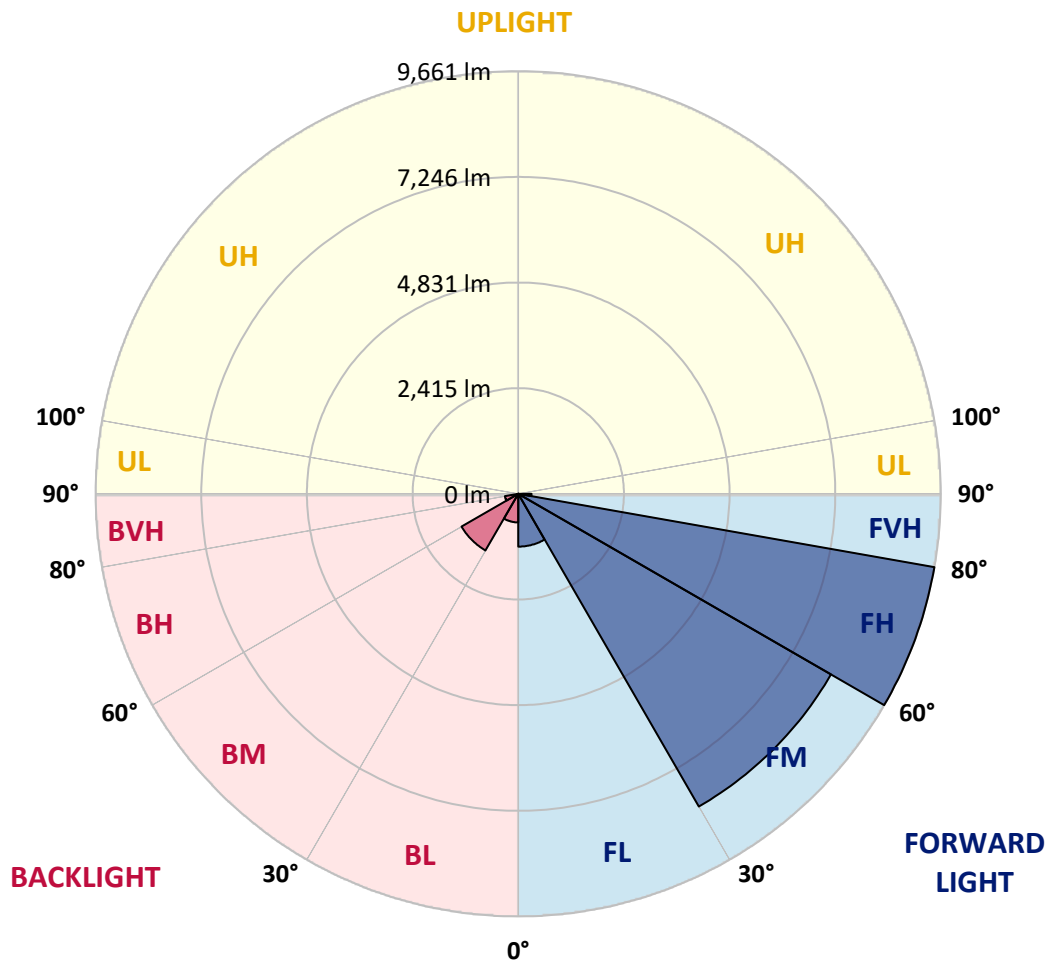


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1206.8	5.5			
FM (30°-60°)	8255.5	37.7			
FH (60°-80°)	9661.2	44.1			G4/12000
FVH (80°-90°)	304.7	1.4			G3/500
BL (0°-30°)	654.7	3.0	B2/1000		
BM (30°-60°)	1495.8	6.8	B2/2500		
BH (60°-80°)	309.2	1.4	B1/500		G1/500
BVH (80°-90°)	4.2	0.0			G0/10
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9
2.5°	3031.7	3057.4	3062.2	3070.2	3070.2	3079.8	3095.9	3118.4	3155.3	3174.5	3187.3
5°	2794.4	2813.5	2837.6	2856.9	2893.8	2898.6	2961.1	3022.1	3107.1	3171.2	3216.1
7.5°	2555.3	2577.8	2609.9	2656.4	2704.5	2718.9	2813.5	2916.2	3051.0	3171.2	3246.7
10°	2386.9	2388.5	2417.4	2463.9	2540.9	2558.5	2674.0	2820.0	2988.4	3152.0	3275.5
12.5°	2292.2	2303.5	2316.3	2351.6	2425.4	2436.6	2560.1	2731.7	2925.9	3140.8	3309.2
15°	2292.2	2300.3	2308.3	2325.9	2385.3	2394.9	2504.0	2675.7	2893.8	3145.6	3363.7
17.5°	2316.3	2329.1	2322.8	2343.6	2406.1	2412.5	2508.8	2659.6	2892.1	3176.1	3447.2
20°	2374.0	2383.6	2370.8	2383.6	2446.3	2459.1	2558.5	2690.0	2919.4	3229.1	3551.4
22.5°	2465.4	2470.2	2439.8	2449.4	2513.6	2529.6	2645.1	2776.6	2985.2	3314.0	3691.0
25°	2581.0	2590.6	2544.0	2555.3	2616.2	2635.5	2768.6	2906.6	3089.5	3431.1	3869.1
27.5°	2714.1	2718.9	2678.8	2677.2	2755.8	2783.1	2917.9	3067.0	3229.1	3578.7	4093.6
30°	2866.5	2881.0	2842.4	2836.0	2935.5	2957.9	3091.1	3264.3	3434.4	3800.1	4412.8
32.5°	2986.8	2998.0	2975.6	2991.6	3092.6	3110.4	3301.2	3543.4	3756.7	4114.5	4847.5
35°	3160.1	3166.4	3115.2	3144.0	3259.5	3304.4	3588.3	3934.8	4162.6	4509.1	5415.4
37.5°	3787.3	3787.3	3569.0	3426.4	3537.0	3577.1	3981.3	4427.3	4663.0	5038.4	6130.8
40°	4655.0	4640.6	4321.4	4029.5	4015.0	4093.6	4541.2	5048.0	5309.5	5673.7	6936.1
42.5°	5580.6	5558.2	5123.5	4834.7	4786.5	4813.8	5187.6	5813.2	6079.5	6448.4	7802.3
45°	6401.9	6395.5	5997.7	5609.5	5522.9	5609.5	5994.5	6708.3	6899.2	7287.3	8666.9
47.5°	7090.0	7090.0	6799.7	6546.3	6501.4	6552.7	7086.8	7701.2	7683.6	8180.8	9509.0
50°	7882.5	7876.1	7600.2	7491.1	7537.5	7609.8	8344.4	8747.0	8495.2	9058.2	10261.3
52.5°	8437.5	8475.9	8381.3	8363.7	8601.1	8726.2	9621.3	9770.5	9221.9	9890.7	10824.3
55°	8877.0	8921.9	9031.0	9154.5	9611.6	9775.3	10858.0	10741.0	9829.9	10612.6	11148.4
57.5°	9499.4	9435.2	9603.6	9847.5	10586.9	10784.2	12056.3	11656.9	10319.1	11198.1	11183.7
60°	10254.9	10264.6	10293.4	10601.4	11560.7	11814.0	13236.8	12523.0	10633.5	11557.4	10792.2
62.5°	11162.9	11177.2	11236.6	11709.8	12868.0	13107.0	14494.5	13232.1	10777.9	11456.3	9781.7
65°	11100.2	11161.2	11823.7	13442.3	14855.4	15091.2	15962.2	13729.4	10559.7	10532.4	7964.2
67.5°	10112.1	10211.6	11320.0	15511.5	17851.8	18114.9	17736.4	13827.2	9618.1	8190.5	5195.6
70°	8816.0	8851.3	10184.3	17372.2	21321.4	21587.7	19324.4	12750.9	7298.6	4568.4	2327.6
72.5°	6884.7	6892.7	8456.8	17803.7	23204.7	23219.1	18078.0	9465.7	3925.2	1754.9	808.4
75°	4918.2	4870.0	5664.0	14438.4	20415.1	20578.8	13552.9	4440.1	1499.8	829.3	402.6
77.5°	2637.1	2690.0	3205.0	8562.6	14103.1	14382.2	7394.9	1280.0	763.5	564.7	266.3
80°	814.9	859.8	1313.7	3920.4	7988.3	8156.7	2741.4	569.5	532.6	402.6	174.9
82.5°	256.7	266.3	612.7	1647.4	3315.7	3392.6	794.1	322.5	364.1	266.3	102.7
85°	73.8	75.4	272.6	614.4	819.7	835.7	222.9	125.2	208.5	165.2	52.9
87.5°	8.0	25.6	102.7	102.7	72.2	70.6	24.1	27.3	59.3	20.8	9.6
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°	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9
2.5°	3179.3	3180.9	3160.1	3124.7	3086.3	3054.2	3014.1	2982.0	2959.6	2953.1	2964.3
5°	3201.8	3190.5	3131.2	3023.6	2895.4	2784.7	2661.2	2563.3	2499.2	2471.9	2481.5
7.5°	3235.4	3203.3	3073.5	2861.7	2616.2	2398.1	2176.8	2005.1	1896.0	1841.5	1849.5
10°	3264.3	3200.2	2977.2	2627.5	2252.1	1921.7	1623.3	1416.4	1300.9	1246.4	1247.9
12.5°	3291.6	3198.5	2852.1	2350.0	1841.5	1437.3	1159.8	1057.1	1025.0	1013.8	1010.5
15°	3342.9	3203.3	2694.8	2032.4	1432.4	1086.0	984.9	983.3	989.7	986.6	984.9
17.5°	3413.5	3208.1	2516.8	1695.6	1105.3	957.7	952.8	967.3	976.9	972.1	970.5
20°	3504.9	3227.4	2327.6	1361.9	949.7	925.6	936.7	949.7	957.7	949.7	948.0
22.5°	3633.2	3261.1	2120.6	1094.0	899.8	906.3	915.9	930.4	938.4	927.1	925.6
25°	3790.4	3314.0	1916.9	951.2	875.9	883.9	898.3	914.3	923.9	912.8	911.1
27.5°	3994.1	3399.0	1729.2	919.1	851.8	856.6	877.4	901.5	914.3	899.8	899.8
30°	4289.3	3538.6	1567.2	933.6	837.3	826.2	855.0	888.7	903.1	890.3	888.7
32.5°	4680.8	3735.9	1467.7	956.0	830.9	790.8	818.1	861.4	885.5	877.4	877.4
35°	5194.0	4035.8	1429.3	981.7	826.2	753.9	773.2	819.7	861.4	869.4	869.4
37.5°	5816.4	4452.9	1440.4	992.9	811.7	723.4	733.1	773.2	827.7	853.4	859.8
40°	6523.8	4939.0	1504.6	981.7	795.6	697.8	699.4	729.9	778.0	816.5	829.3
42.5°	7253.6	5506.8	1623.3	940.0	781.2	675.3	670.6	691.4	723.4	750.7	762.0
45°	7948.3	6090.8	1740.4	882.2	763.5	652.8	641.6	649.6	656.1	667.3	673.7
47.5°	8554.5	6501.4	1706.7	829.3	739.4	627.2	607.9	604.8	585.5	583.8	582.3
50°	8973.3	6591.2	1515.9	776.3	704.2	598.3	567.8	548.6	515.0	498.9	500.5
52.5°	9106.4	6236.7	1238.3	723.4	646.5	559.9	516.5	486.1	444.3	429.9	428.2
55°	8929.9	5542.1	989.7	659.3	566.2	508.5	460.3	420.2	386.6	368.9	368.9
57.5°	8498.5	4658.2	782.8	583.8	481.2	450.8	402.6	362.5	333.6	316.0	312.8
60°	7783.0	3699.0	619.2	494.0	410.6	388.2	338.5	312.8	287.1	266.3	261.5
62.5°	6697.0	2640.3	486.1	391.4	343.3	317.6	288.7	269.5	239.0	210.1	205.3
65°	5226.1	1615.3	375.4	287.1	275.9	263.1	245.4	227.8	190.9	162.1	157.2
67.5°	3296.4	765.2	267.8	216.6	218.1	211.8	203.7	189.3	162.1	136.3	133.1
70°	1451.7	370.5	176.4	165.2	162.1	162.1	168.4	163.6	138.0	113.9	109.1
72.5°	494.0	199.0	131.5	125.2	117.1	115.5	141.1	136.3	110.7	88.3	83.4
75°	258.3	133.1	96.2	89.8	70.6	85.0	112.2	105.9	78.6	57.7	52.9
77.5°	168.4	94.6	65.8	57.7	40.1	56.2	83.4	73.8	46.5	28.9	25.6
80°	105.9	62.5	38.5	27.3	19.3	30.4	44.9	32.1	17.6	6.5	4.8
82.5°	56.2	32.1	14.5	9.6	8.0	9.6	11.3	8.0	3.2	0.0	0.0
85°	22.4	11.3	4.8	3.2	1.6	0.0	3.2	1.6	0.0	0.0	0.0
87.5°	8.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)