

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: P969748

Luminaire Tested: **NAV-SB6A-722-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969748
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: LUMARK
Catalog Number: NAV-SB6A-722-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23341.3 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

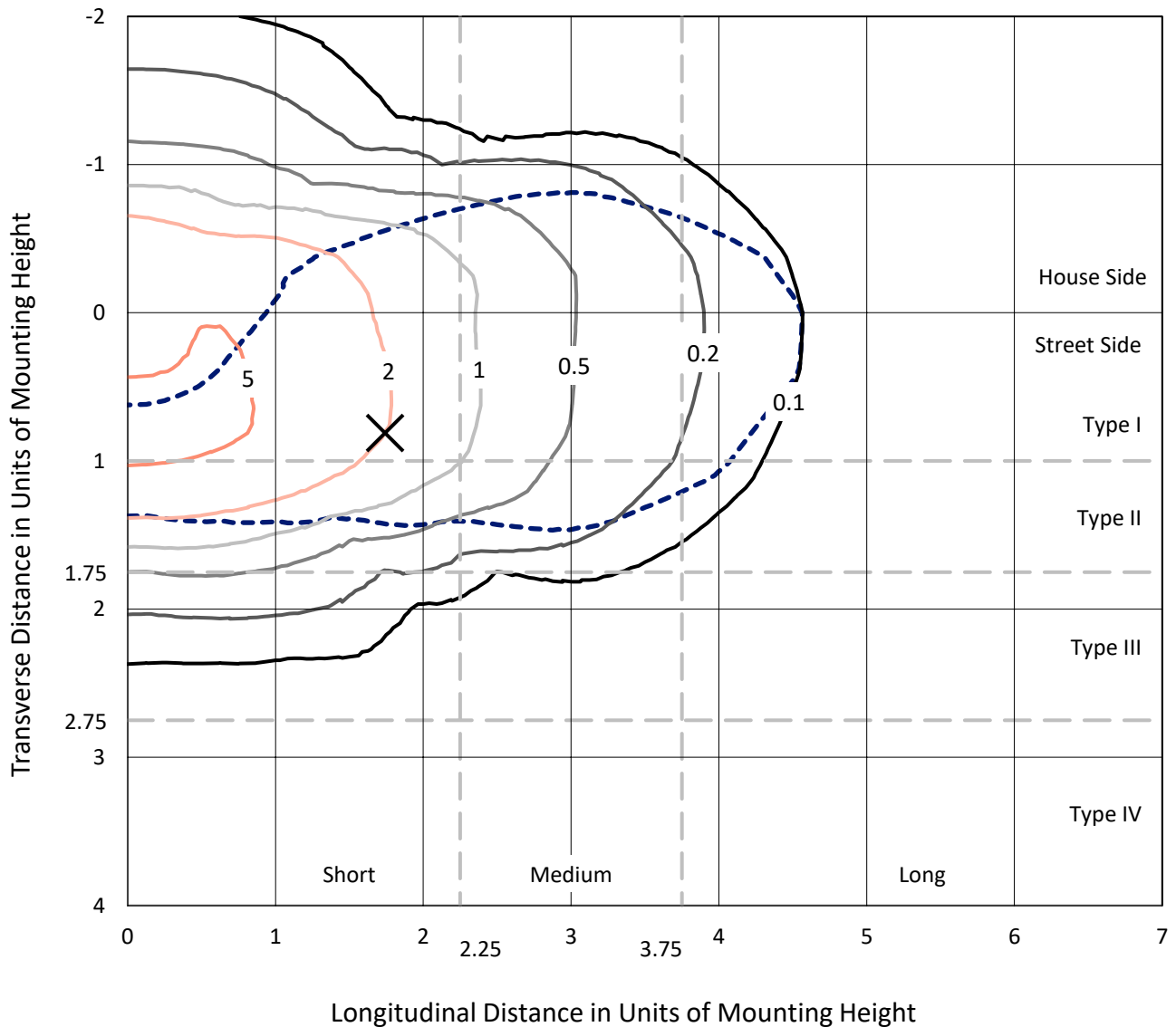
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

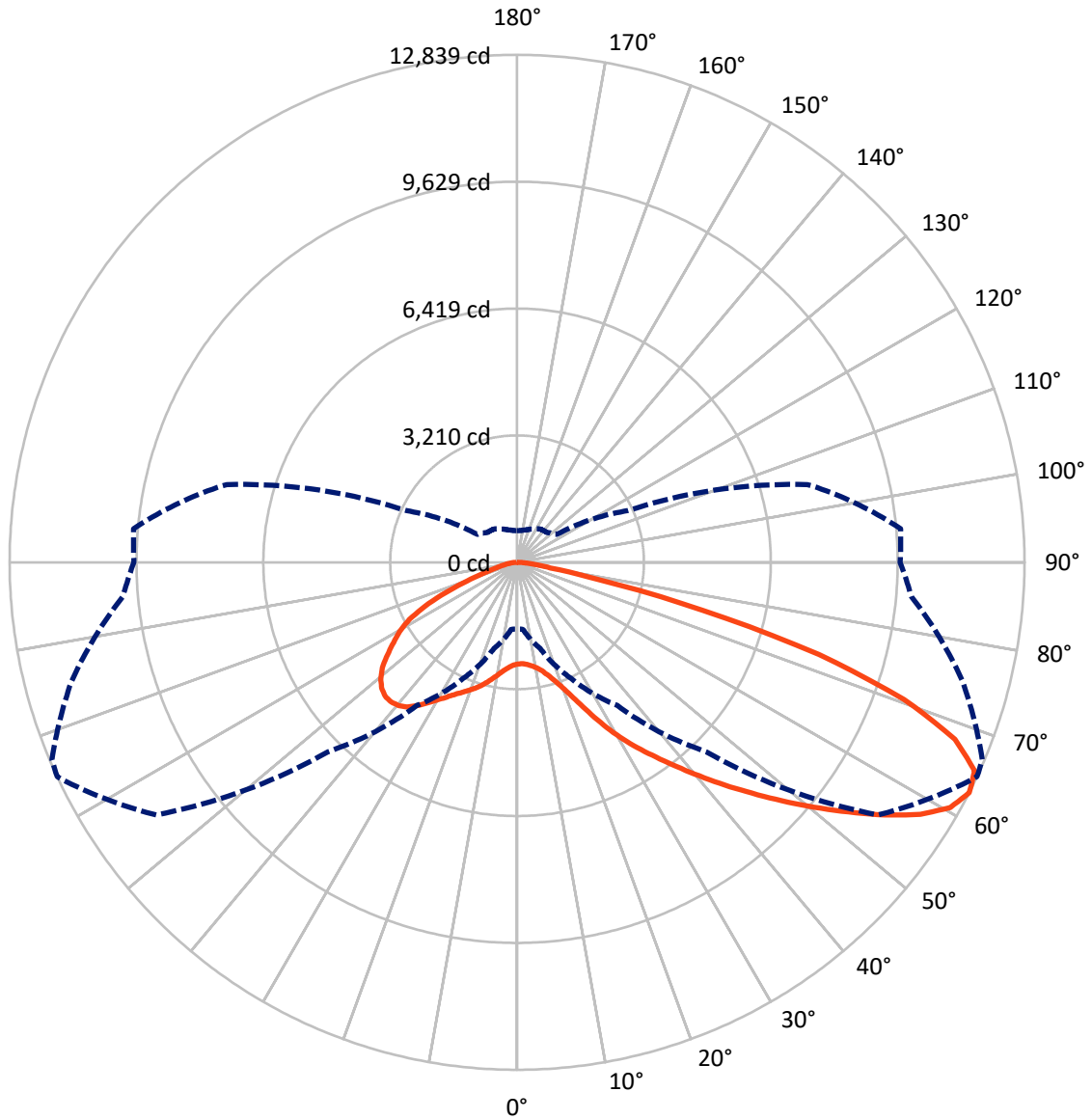
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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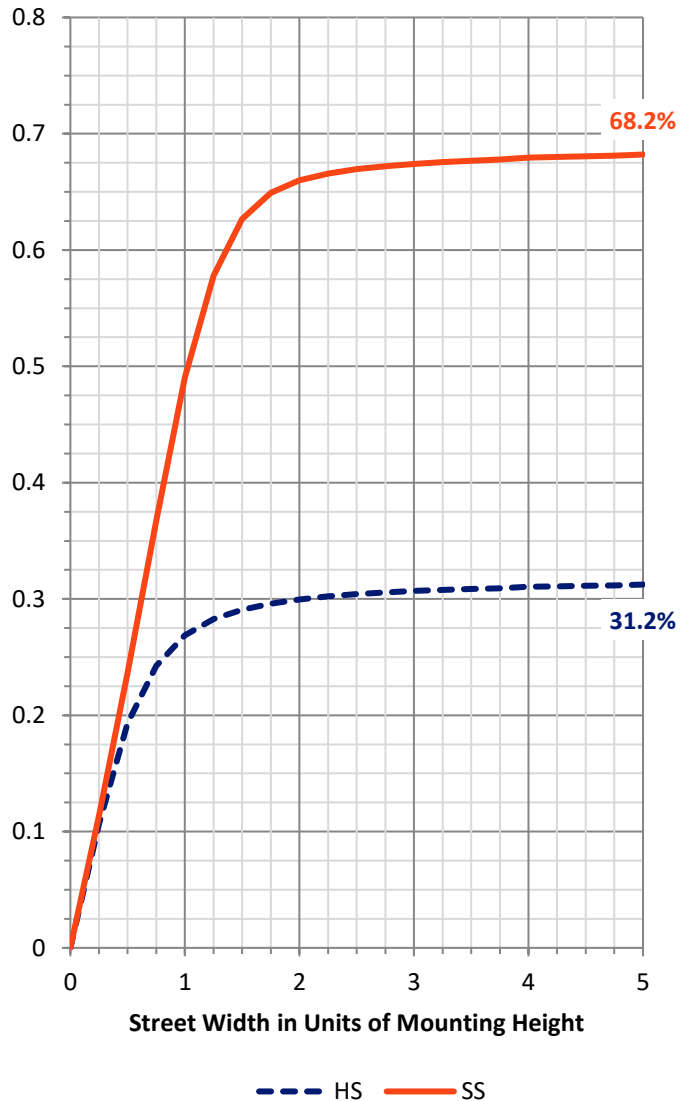
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7365.5	0.0	7365.5
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	15975.8	0.0	15975.8
	% Fixture	68.4	0.0	68.4
Total	Lumens	23341.3	0.0	23341.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.4	1.1
10°-20°	869.6	3.7
20°-30°	1763.2	7.6
30°-40°	3051.2	13.1
40°-50°	4617.4	19.8
50°-60°	5413.6	23.2
60°-70°	4538.7	19.4
70°-80°	2505.7	10.7
80°-90°	325.5	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°	23341.3	100.0
0°-180°	23341.3	100.0

Coefficient of Utilization



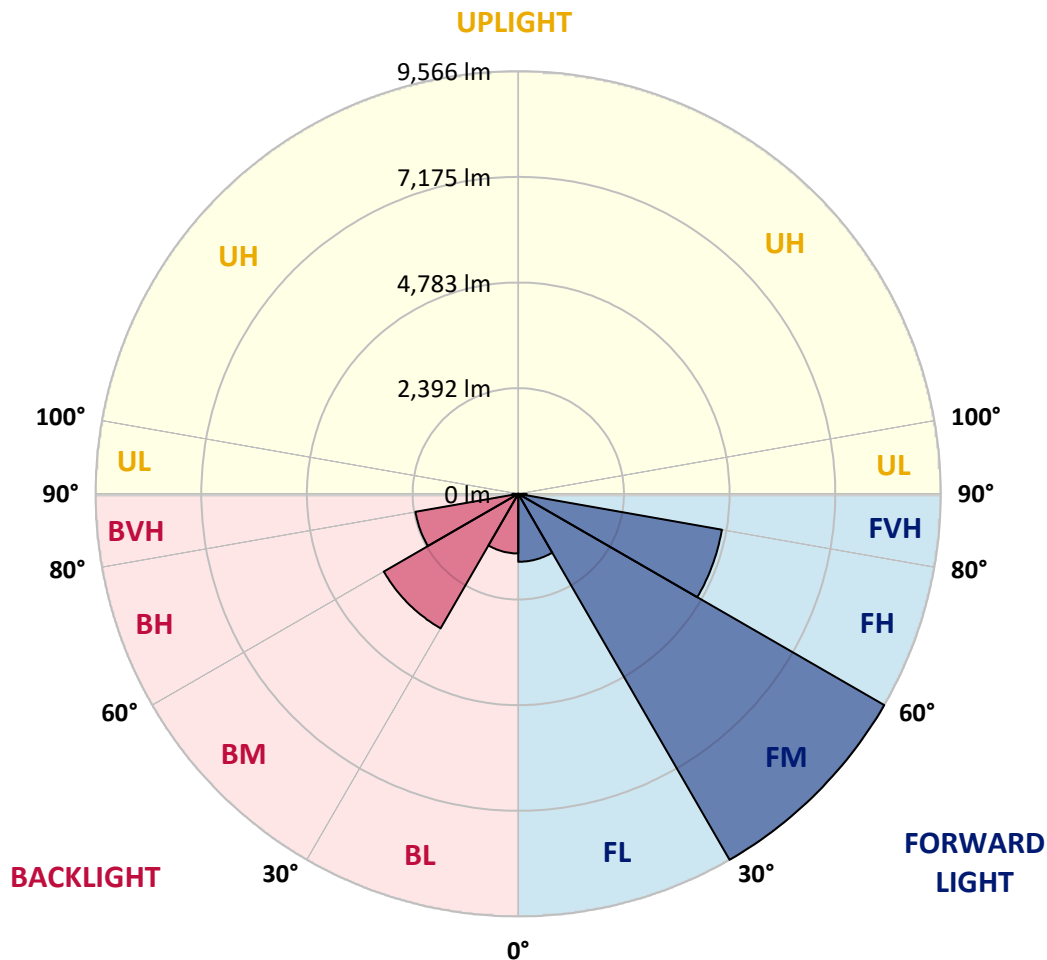
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1538.5	6.6			
FM (30°-60°)	9566.0	41.0			
FH (60°-80°)	4681.6	20.1			G2/5000
FVH (80°-90°)	189.7	0.8			G2/225
BL (0°-30°)	1350.7	5.8	B3/2500		
BM (30°-60°)	3516.2	15.1	B3/5000		
BH (60°-80°)	2362.8	10.1	B3/2500		G3/2500
BVH (80°-90°)	135.8	0.6			G2/225
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2572.1	2572.1	2572.1	2572.1	2572.1	2572.1	2572.1	2572.1	2572.1	2572.1	2572.1
2.5°	2555.1	2547.8	2554.0	2554.0	2556.4	2555.1	2563.6	2566.1	2569.7	2577.0	2577.0
5°	2529.7	2528.5	2539.4	2549.1	2558.8	2567.2	2578.2	2593.9	2596.3	2604.8	2615.7
7.5°	2521.3	2514.0	2530.9	2543.0	2566.1	2586.7	2615.7	2642.3	2653.2	2656.9	2677.5
10°	2586.7	2574.5	2590.3	2597.6	2616.9	2637.5	2671.5	2713.8	2725.9	2740.4	2763.4
12.5°	2698.0	2684.7	2707.7	2718.6	2736.9	2755.0	2778.0	2819.2	2825.2	2851.9	2873.7
15°	2850.6	2834.8	2849.4	2862.7	2893.1	2910.0	2932.9	2972.9	2972.9	2993.5	3009.3
17.5°	3057.7	3037.1	3048.0	3052.9	3072.2	3097.7	3136.4	3171.6	3189.7	3182.4	3160.7
20°	3366.5	3341.1	3341.1	3316.9	3309.6	3330.2	3381.1	3429.4	3448.8	3411.3	3358.0
22.5°	3830.3	3793.9	3773.4	3691.0	3658.3	3660.8	3711.6	3771.0	3786.8	3720.1	3600.2
25°	4420.1	4363.1	4335.3	4214.2	4140.3	4076.1	4116.1	4192.4	4214.2	4131.9	3938.0
27.5°	5009.8	5013.5	4986.8	4841.5	4719.2	4601.7	4581.1	4661.1	4684.0	4590.8	4351.0
30°	5836.9	5751.0	5700.0	5525.7	5351.3	5186.6	5101.8	5134.5	5140.6	5029.2	4750.7
32.5°	6550.2	6528.3	6419.4	6266.7	6042.8	5784.8	5643.1	5591.1	5581.4	5422.8	5092.1
35°	7362.7	7350.6	7235.6	7053.9	6811.7	6453.3	6197.8	6048.8	6036.7	5813.9	5430.0
37.5°	8188.6	8188.6	8076.0	7877.4	7626.7	7178.7	6789.9	6553.7	6515.0	6224.4	5773.9
40°	8847.4	8807.4	8828.0	8744.5	8457.5	7981.6	7447.4	7104.8	7052.7	6703.9	6139.6
42.5°	9221.6	9208.3	9331.8	9425.0	9307.5	8927.3	8171.6	7701.7	7629.2	7232.0	6561.0
45°	9305.2	9290.6	9511.0	9852.5	10017.2	9861.0	8958.8	8330.3	8241.9	7784.2	7012.7
47.5°	9112.6	9083.6	9406.8	9945.8	10473.8	10748.6	9811.3	9012.1	8883.7	8321.8	7476.6
50°	8533.7	8505.9	8995.1	9710.8	10627.5	11351.7	10736.5	9735.0	9538.9	8898.2	7945.2
52.5°	7275.6	7288.9	8055.4	9038.8	10425.3	11727.1	11533.3	10496.7	10260.6	9488.0	8384.8
55°	5667.3	5696.4	6638.5	7721.2	9616.3	11670.1	12077.1	11281.5	11046.5	10042.6	8838.9
57.5°	4058.0	4186.3	5069.1	6140.9	8062.6	10768.0	12195.8	12027.3	11799.7	10648.1	9283.3
60°	2630.3	2653.2	3561.5	4641.7	6139.6	9164.6	11954.8	12592.9	12414.9	11265.7	9655.1
62.5°	1685.7	1701.4	2254.8	3246.6	4418.9	6780.3	11143.4	12838.7	12784.2	11673.8	10012.3
65°	1238.8	1226.7	1514.9	2145.8	2976.6	4181.5	9567.9	12720.0	12827.9	11929.4	10307.8
67.5°	1034.1	1017.2	1158.9	1485.8	2193.1	2374.7	7079.4	11948.7	12343.5	11900.2	10524.6
70°	942.2	927.6	1013.6	1103.2	1711.1	1590.0	3568.7	10387.8	10995.7	11569.7	10489.4
72.5°	798.1	772.6	890.1	979.7	1330.9	1219.4	1475.0	7979.1	8720.2	10510.0	9995.4
75°	618.8	601.9	702.3	862.2	1000.3	951.8	932.4	4845.1	5654.0	8128.0	8744.5
77.5°	490.5	467.4	559.4	672.1	899.7	718.1	679.4	2086.5	2888.1	5189.1	6542.9
80°	369.3	348.8	425.1	531.7	691.5	541.3	439.6	851.4	1088.7	2629.0	3290.2
82.5°	262.8	244.7	296.7	389.9	465.0	485.6	270.1	477.1	536.5	1013.6	735.0
85°	168.3	157.4	198.6	244.7	295.5	312.4	164.7	249.5	273.7	417.8	306.4
87.5°	92.0	75.0	106.6	113.9	136.8	124.7	78.7	90.8	98.1	151.4	129.6
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°	2572.1	2572.1	2572.1	2572.1	2572.1	2572.1	2572.1	2572.1	2572.1	2572.1	2572.1
2.5°	2581.8	2585.5	2597.6	2601.1	2609.6	2620.5	2627.8	2635.1	2635.1	2642.3	2642.3
5°	2616.9	2625.4	2650.9	2664.2	2685.9	2707.7	2721.1	2736.9	2746.5	2751.3	2753.8
7.5°	2684.7	2698.0	2734.4	2757.4	2795.0	2825.2	2845.8	2867.5	2872.5	2885.8	2880.9
10°	2776.7	2792.5	2833.7	2877.3	2922.1	2959.6	2979.0	2994.7	3000.8	3003.2	2997.2
12.5°	2882.1	2905.2	2958.5	3011.7	3058.9	3091.6	3096.4	3092.8	3075.9	3061.4	3061.4
15°	3011.7	3032.3	3091.6	3149.7	3195.7	3201.8	3171.6	3152.2	3131.6	3128.0	3128.0
17.5°	3166.7	3177.6	3232.1	3289.0	3292.6	3272.0	3227.2	3209.1	3189.7	3176.4	3177.6
20°	3347.1	3343.6	3382.3	3406.5	3381.1	3318.0	3250.3	3219.9	3200.6	3184.9	3186.1
22.5°	3562.7	3534.8	3530.0	3524.0	3456.1	3324.1	3232.1	3193.4	3163.0	3141.3	3148.5
25°	3876.3	3769.7	3695.9	3654.7	3502.1	3291.5	3174.0	3088.0	3031.0	2993.5	3008.1
27.5°	4268.7	4089.4	3903.0	3802.4	3502.1	3224.9	3033.5	2894.2	2801.0	2762.3	2781.6
30°	4642.8	4455.2	4180.3	3980.5	3493.7	3115.8	2807.1	2613.2	2504.3	2465.5	2488.6
32.5°	4962.5	4757.9	4474.5	4175.4	3473.1	2939.1	2526.1	2311.8	2206.4	2160.4	2183.4
35°	5259.3	5041.3	4770.0	4389.8	3418.6	2679.9	2217.3	2053.8	1936.3	1862.5	1886.7
37.5°	5563.2	5304.1	5049.8	4583.5	3320.5	2377.2	1980.0	1840.7	1702.6	1603.3	1630.0
40°	5893.9	5583.8	5348.9	4698.6	3159.5	2089.0	1795.9	1668.7	1522.2	1416.9	1437.5
42.5°	6280.1	5919.3	5681.9	4757.9	2939.1	1884.3	1676.0	1551.2	1413.2	1327.3	1344.2
45°	6683.4	6288.6	5985.9	4756.7	2693.2	1788.6	1637.2	1513.7	1361.1	1271.5	1286.1
47.5°	7106.0	6674.9	6248.6	4679.2	2480.1	1802.0	1615.4	1432.5	1264.2	1177.1	1189.2
50°	7529.9	7097.5	6502.9	4533.9	2389.3	1772.8	1534.3	1318.8	1120.1	1041.4	1046.3
52.5°	7950.0	7546.8	6722.2	4326.8	2297.2	1665.1	1430.2	1171.1	1060.8	1006.3	1006.3
55°	8372.7	7991.2	6960.7	4025.3	2067.1	1539.1	1255.8	1115.3	1013.6	963.9	959.1
57.5°	8796.6	8504.6	7187.1	3723.7	1777.8	1384.2	1160.1	1047.4	966.4	923.9	916.7
60°	9237.3	9092.0	7420.9	3446.5	1491.9	1185.5	1089.9	993.0	910.6	863.5	859.8
62.5°	9691.5	9738.6	7603.8	3089.1	1229.2	1064.5	1026.9	927.6	847.7	802.9	801.7
65°	10149.1	10362.3	7723.6	2593.9	996.6	949.4	959.1	856.2	775.0	736.3	735.0
67.5°	10494.3	10811.6	7689.7	1963.0	817.4	840.4	874.3	781.0	704.8	674.6	675.7
70°	10533.1	10758.3	7355.5	1344.2	684.2	733.9	779.8	707.2	628.5	606.7	607.9
72.5°	10017.2	10031.7	6424.2	877.9	578.8	644.2	680.6	632.1	555.9	534.0	532.8
75°	8664.5	8296.3	4716.7	578.8	484.4	553.4	587.3	553.4	479.5	484.4	467.4
77.5°	6564.7	5875.6	2864.0	411.7	404.5	465.0	511.1	486.8	423.8	475.9	419.0
80°	3382.3	3178.8	1277.6	307.6	319.7	371.8	420.2	388.7	335.5	319.7	291.8
82.5°	775.0	901.0	503.8	220.4	231.3	267.6	320.9	291.8	241.0	203.5	201.0
85°	271.2	296.7	222.8	138.1	135.6	167.1	218.0	195.0	163.5	130.8	138.1
87.5°	86.0	112.6	83.5	55.7	58.1	75.0	100.6	92.0	76.3	49.6	52.1
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)