

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: P970312

Luminaire Tested: **NAV-SB6B-727-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970312
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-727-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 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: 24580.5 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

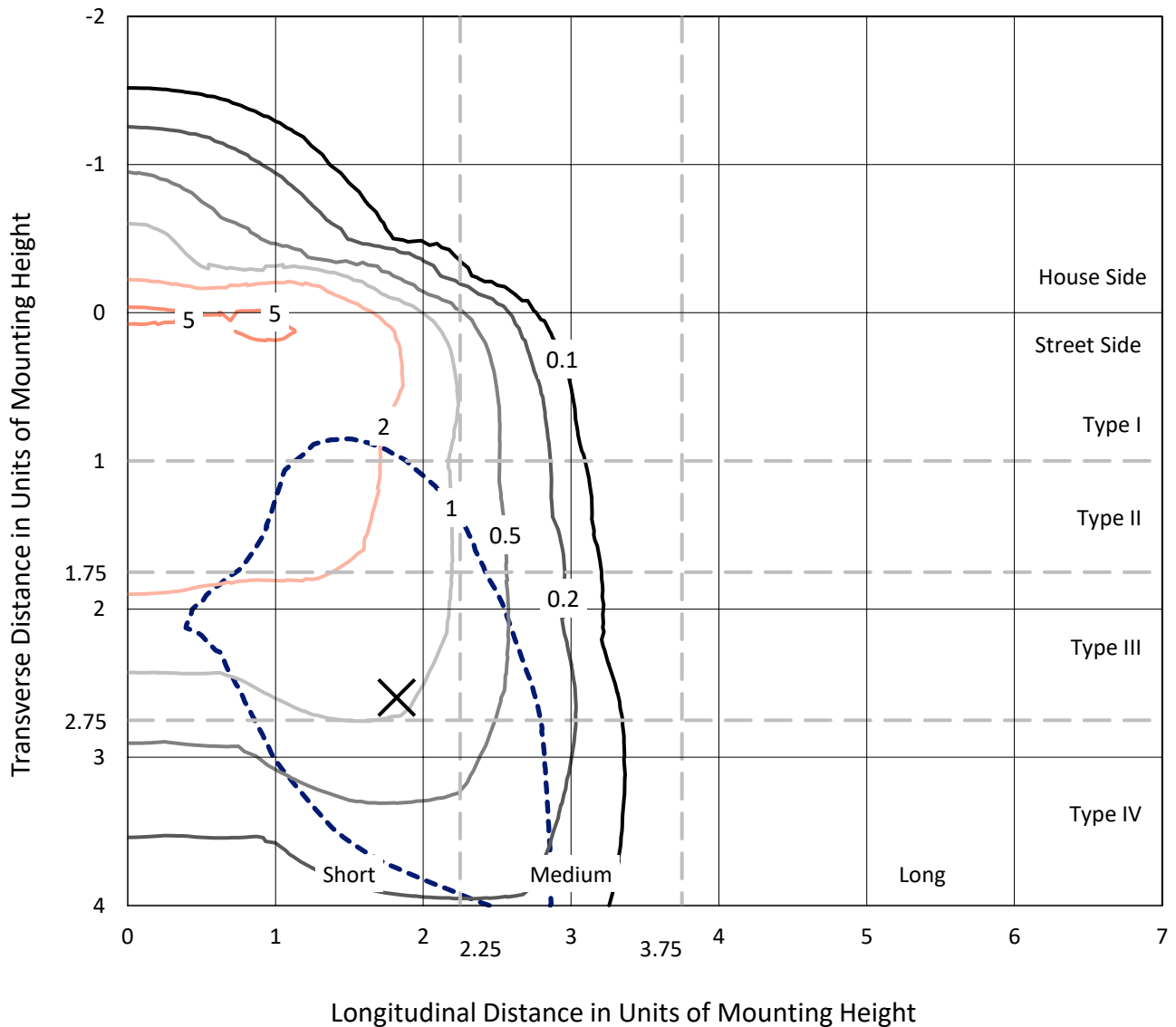
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

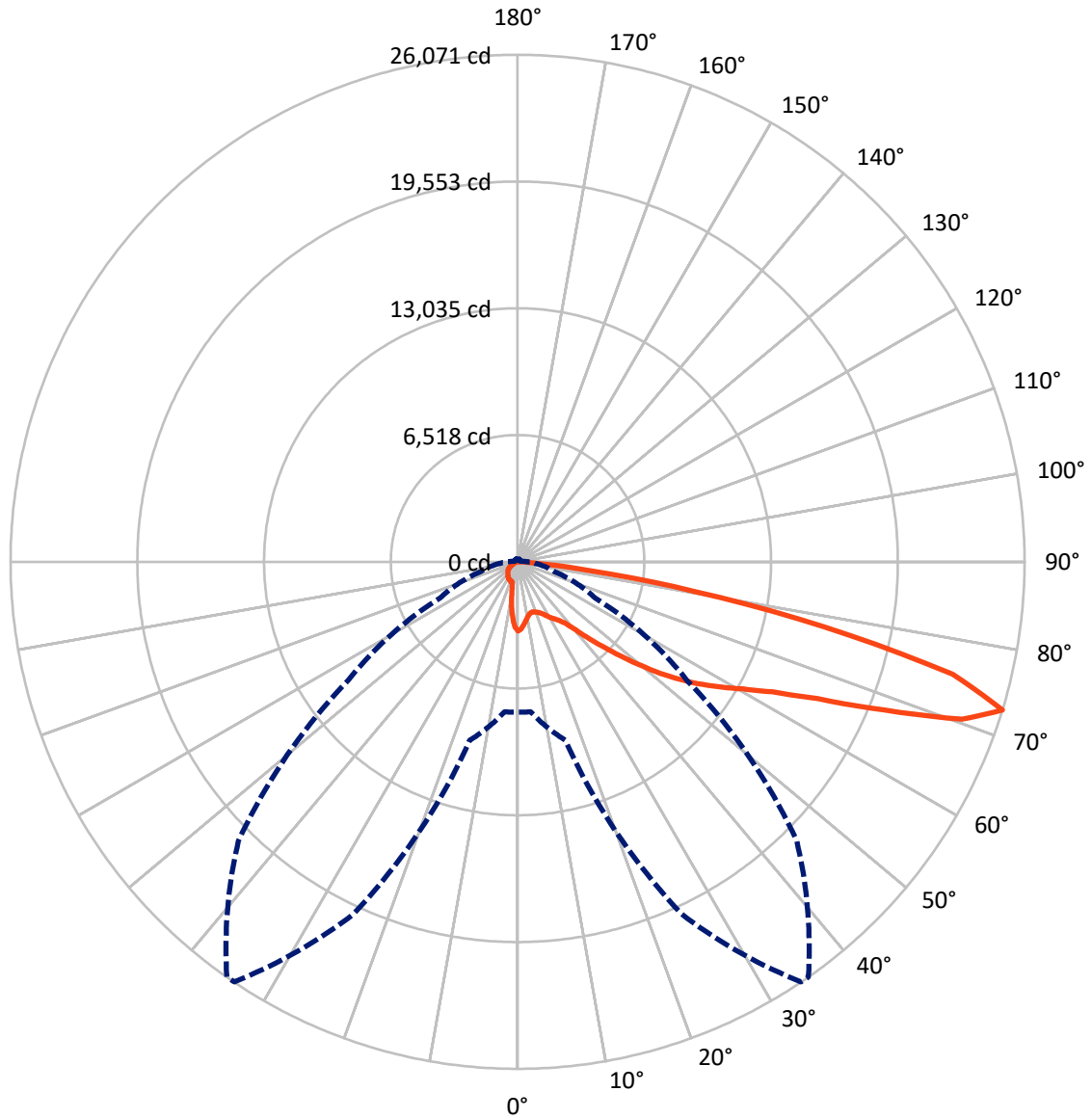
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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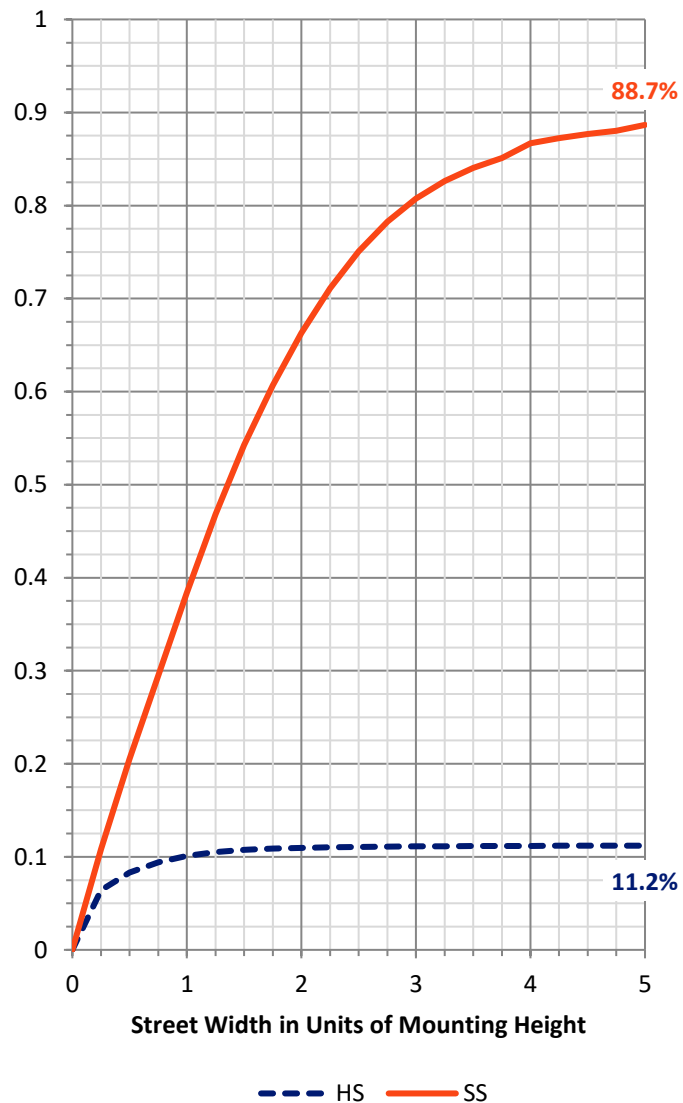
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2766.4	0.0	2766.4
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	21814.1	0.0	21814.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	24580.5	0.0	24580.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.7	1.2
10°-20°	684.8	2.8
20°-30°	1112.5	4.5
30°-40°	1856.2	7.6
40°-50°	3512.0	14.3
50°-60°	5580.6	22.7
60°-70°	6903.5	28.1
70°-80°	4291.3	17.5
80°-90°	346.8	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°	24580.5	100.0
0°-180°	24580.5	100.0

Coefficient of Utilization



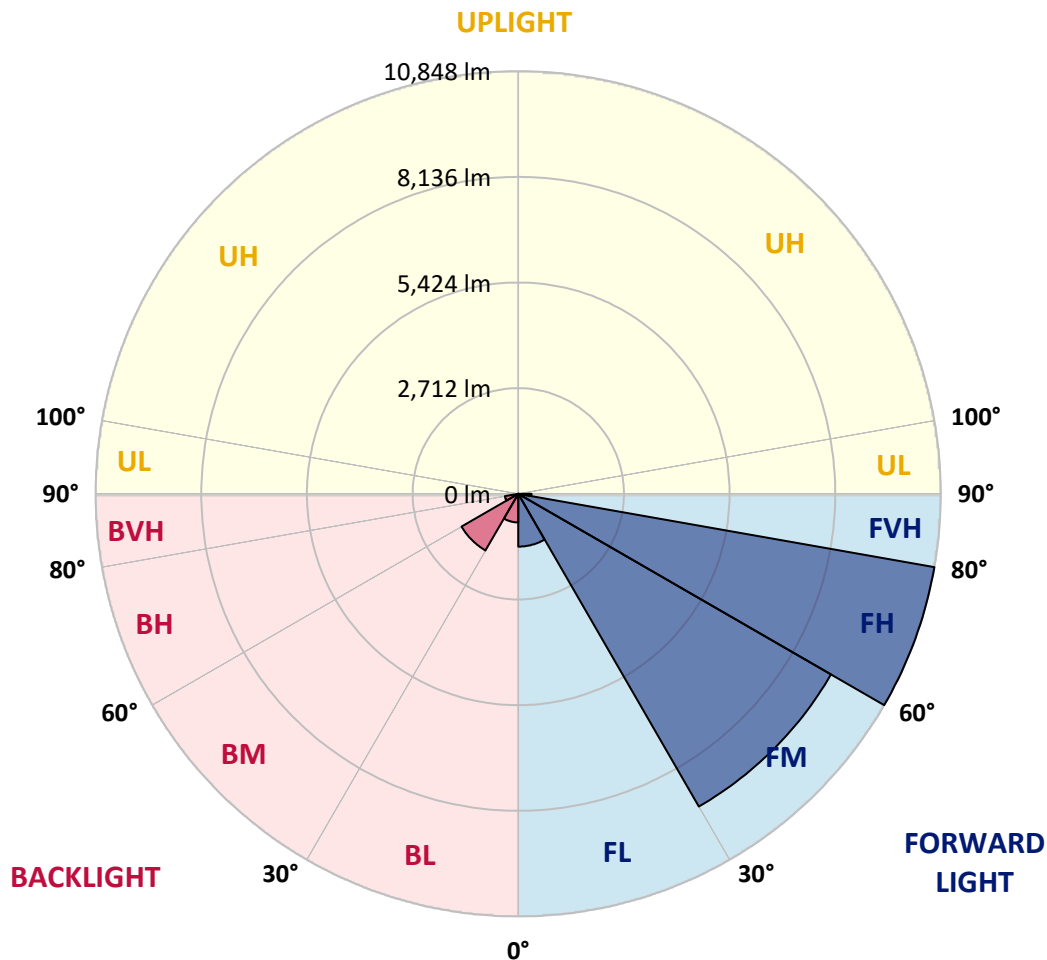
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1355.0	5.5			
FM (30°-60°)	9269.3	37.7			
FH (60°-80°)	10847.7	44.1			G4/12000
FVH (80°-90°)	342.1	1.4			G3/500
BL (0°-30°)	735.1	3.0	B2/1000		
BM (30°-60°)	1679.5	6.8	B2/2500		
BH (60°-80°)	347.1	1.4	B1/500		G1/500
BVH (80°-90°)	4.7	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°	3562.6	3562.6	3562.6	3562.6	3562.6	3562.6	3562.6	3562.6	3562.6	3562.6	3562.6
2.5°	3404.0	3432.8	3438.3	3447.3	3447.3	3458.0	3476.1	3501.3	3542.7	3564.3	3578.8
5°	3137.5	3159.0	3186.1	3207.7	3249.1	3254.6	3324.8	3393.3	3488.7	3560.7	3611.2
7.5°	2869.1	2894.3	2930.4	2982.5	3036.7	3052.9	3159.0	3274.4	3425.7	3560.7	3645.4
10°	2680.0	2681.8	2714.2	2766.5	2852.9	2872.8	3002.4	3166.3	3355.4	3539.1	3677.8
12.5°	2573.8	2586.4	2600.7	2640.4	2723.2	2735.8	2874.5	3067.2	3285.1	3526.5	3715.6
15°	2573.8	2582.8	2591.7	2611.6	2678.2	2689.0	2811.5	3004.2	3249.1	3531.9	3776.9
17.5°	2600.7	2615.2	2608.0	2631.4	2701.6	2708.9	2816.9	2986.2	3247.3	3566.2	3870.5
20°	2665.6	2676.4	2662.0	2676.4	2746.7	2761.0	2872.8	3020.4	3278.0	3625.6	3987.6
22.5°	2768.2	2773.6	2739.4	2750.3	2822.3	2840.3	2969.9	3117.6	3351.9	3721.1	4144.3
25°	2898.0	2908.7	2856.5	2869.1	2937.5	2959.2	3108.6	3263.6	3468.9	3852.6	4344.3
27.5°	3047.4	3052.9	3007.8	3006.0	3094.3	3124.9	3276.2	3443.7	3625.6	4018.2	4596.4
30°	3218.5	3234.7	3191.5	3184.3	3296.0	3321.2	3470.6	3665.2	3856.2	4266.8	4954.7
32.5°	3353.6	3366.2	3341.0	3359.0	3472.5	3492.3	3706.6	3978.6	4218.2	4619.8	5442.9
35°	3548.1	3555.3	3497.7	3530.1	3659.8	3710.2	4029.1	4418.1	4673.8	5062.9	6080.5
37.5°	4252.3	4252.3	4007.4	3847.1	3971.4	4016.5	4470.3	4970.9	5235.7	5657.2	6883.7
40°	5226.8	5210.5	4852.1	4524.3	4508.2	4596.4	5098.9	5668.0	5961.6	6370.5	7787.8
42.5°	6265.9	6240.7	5752.7	5428.5	5374.4	5405.0	5824.7	6527.1	6826.1	7240.4	8760.5
45°	7188.1	7180.9	6734.2	6298.4	6201.1	6298.4	6730.7	7532.1	7746.4	8182.4	9731.2
47.5°	7960.8	7960.8	7634.8	7350.2	7299.7	7357.4	7957.2	8647.0	8627.2	9185.5	10676.8
50°	8850.6	8843.3	8533.5	8411.0	8463.3	8544.3	9369.2	9821.3	9538.5	10170.7	11521.5
52.5°	9473.7	9516.9	9410.6	9390.8	9657.4	9797.9	10802.9	10970.4	10354.4	11105.5	12153.7
55°	9967.2	10017.6	10140.1	10278.8	10792.1	10975.8	12191.6	12060.0	11037.0	11915.9	12517.5
57.5°	10666.0	10594.0	10783.1	11056.9	11887.1	12108.6	13537.0	13088.4	11586.4	12573.4	12557.2
60°	11514.3	11525.1	11557.6	11903.3	12980.4	13264.9	14862.5	14061.1	11939.4	12976.8	12117.7
62.5°	12533.7	12550.0	12616.6	13147.9	14448.3	14716.6	16274.5	14857.2	12101.5	12863.3	10983.0
65°	12463.5	12532.0	13275.8	15093.1	16679.8	16944.6	17922.5	15415.5	11856.5	11825.9	8942.4
67.5°	11354.0	11465.6	12710.2	17416.5	20044.3	20339.6	19914.6	15525.4	10799.3	9196.3	5833.7
70°	9898.7	9938.4	11435.1	19505.8	23940.0	24239.0	21697.6	14316.8	8195.0	5129.5	2613.3
72.5°	7730.2	7739.3	9495.3	19990.3	26054.5	26070.7	20298.2	10628.2	4407.3	1970.4	907.7
75°	5522.1	5468.1	6359.6	16211.5	22922.4	23106.1	15217.4	4985.4	1684.0	931.1	452.0
77.5°	2961.0	3020.4	3598.6	9614.2	15835.1	16148.5	8303.0	1437.3	857.3	634.0	299.0
80°	914.9	965.3	1475.1	4401.9	8969.4	9158.5	3078.1	639.4	598.0	452.0	196.3
82.5°	288.1	299.0	688.0	1849.7	3722.8	3809.3	891.5	362.0	408.9	299.0	115.3
85°	82.8	84.7	306.2	689.8	920.3	938.4	250.3	140.5	234.1	185.5	59.4
87.5°	9.0	28.8	115.3	115.3	81.1	79.2	27.1	30.6	66.6	23.4	10.8
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°	3562.6	3562.6	3562.6	3562.6	3562.6	3562.6	3562.6	3562.6	3562.6	3562.6	3562.6
2.5°	3569.8	3571.5	3548.1	3508.5	3465.3	3429.2	3384.2	3348.2	3322.9	3315.8	3328.4
5°	3595.0	3582.4	3515.7	3395.0	3251.0	3126.7	2988.0	2878.1	2806.0	2775.5	2786.3
7.5°	3632.8	3596.7	3450.9	3213.2	2937.5	2692.6	2444.1	2251.3	2128.9	2067.6	2076.6
10°	3665.2	3593.1	3342.8	2950.2	2528.7	2157.7	1822.7	1590.4	1460.7	1399.4	1401.3
12.5°	3695.8	3591.4	3202.3	2638.6	2067.6	1613.8	1302.2	1186.9	1150.9	1138.3	1134.7
15°	3753.4	3596.7	3025.8	2282.0	1608.3	1219.3	1105.9	1104.0	1111.3	1107.6	1105.9
17.5°	3832.7	3602.2	2825.9	1903.7	1241.0	1075.2	1069.8	1086.1	1096.9	1091.4	1089.7
20°	3935.4	3623.8	2613.3	1529.1	1066.2	1039.2	1051.9	1066.2	1075.2	1066.2	1064.5
22.5°	4079.5	3661.6	2381.1	1228.4	1010.4	1017.6	1028.4	1044.6	1053.6	1041.0	1039.2
25°	4256.0	3721.1	2152.3	1068.0	983.4	992.4	1008.6	1026.6	1037.4	1024.8	1023.1
27.5°	4484.7	3816.5	1941.6	1032.0	956.3	961.8	985.2	1012.2	1026.6	1010.4	1010.4
30°	4816.1	3973.2	1759.6	1048.3	940.1	927.5	960.0	997.8	1014.0	999.6	997.8
32.5°	5255.6	4194.7	1648.0	1073.5	933.0	888.0	918.5	967.2	994.1	985.2	985.2
35°	5831.9	4531.5	1604.7	1102.3	927.5	846.5	868.1	920.3	967.2	976.2	976.2
37.5°	6530.7	4999.8	1617.3	1114.9	911.3	812.3	823.1	868.1	929.4	958.2	965.3
40°	7325.0	5545.6	1689.4	1102.3	893.3	783.5	785.3	819.5	873.5	916.8	931.1
42.5°	8144.5	6183.1	1822.7	1055.4	877.1	758.3	752.9	776.2	812.3	842.9	855.5
45°	8924.4	6838.7	1954.2	990.6	857.3	733.1	720.5	729.4	736.7	749.3	756.4
47.5°	9605.2	7299.7	1916.3	931.1	830.2	704.2	682.6	679.0	657.4	655.6	653.7
50°	10075.2	7400.6	1702.0	871.8	790.7	671.8	637.6	615.9	578.1	560.2	561.9
52.5°	10224.8	7002.6	1390.4	812.3	725.8	628.5	579.9	545.7	498.9	482.7	480.9
55°	10026.7	6222.8	1111.3	740.3	635.8	570.9	516.9	471.9	434.1	414.2	414.2
57.5°	9542.1	5230.4	878.9	655.6	540.3	506.1	452.0	407.0	374.6	354.9	351.2
60°	8738.8	4153.3	695.3	554.7	461.0	435.8	380.1	351.2	322.4	299.0	293.6
62.5°	7519.5	2964.6	545.7	439.4	385.4	356.6	324.2	302.6	268.3	236.0	230.5
65°	5867.9	1813.7	421.5	322.4	309.8	295.4	275.5	255.7	214.3	181.9	176.5
67.5°	3701.3	859.2	300.7	243.1	245.0	237.7	228.8	212.5	181.9	153.1	149.4
70°	1630.0	416.0	198.1	185.5	181.9	181.9	189.1	183.7	154.9	127.9	122.5
72.5°	554.7	223.3	147.7	140.5	131.5	129.7	158.5	153.1	124.2	99.0	93.7
75°	290.0	149.4	108.0	100.9	79.2	95.4	126.1	118.9	88.3	64.9	59.4
77.5°	189.1	106.3	73.8	64.9	45.0	63.0	93.7	82.8	52.3	32.4	28.8
80°	118.9	70.2	43.3	30.6	21.6	34.2	50.4	36.0	19.8	7.2	5.4
82.5°	63.0	36.0	16.2	10.8	9.0	10.8	12.6	9.0	3.6	0.0	0.0
85°	25.2	12.6	5.4	3.6	1.8	0.0	3.6	1.8	0.0	0.0	0.0
87.5°	9.0	1.8	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)