

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: P969755

Luminaire Tested: **NAV-SB6A-722-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P969755  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6A-722-U-T4FT  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22765.2 lumens  
Efficiency: N/A  
Efficacy: 133.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

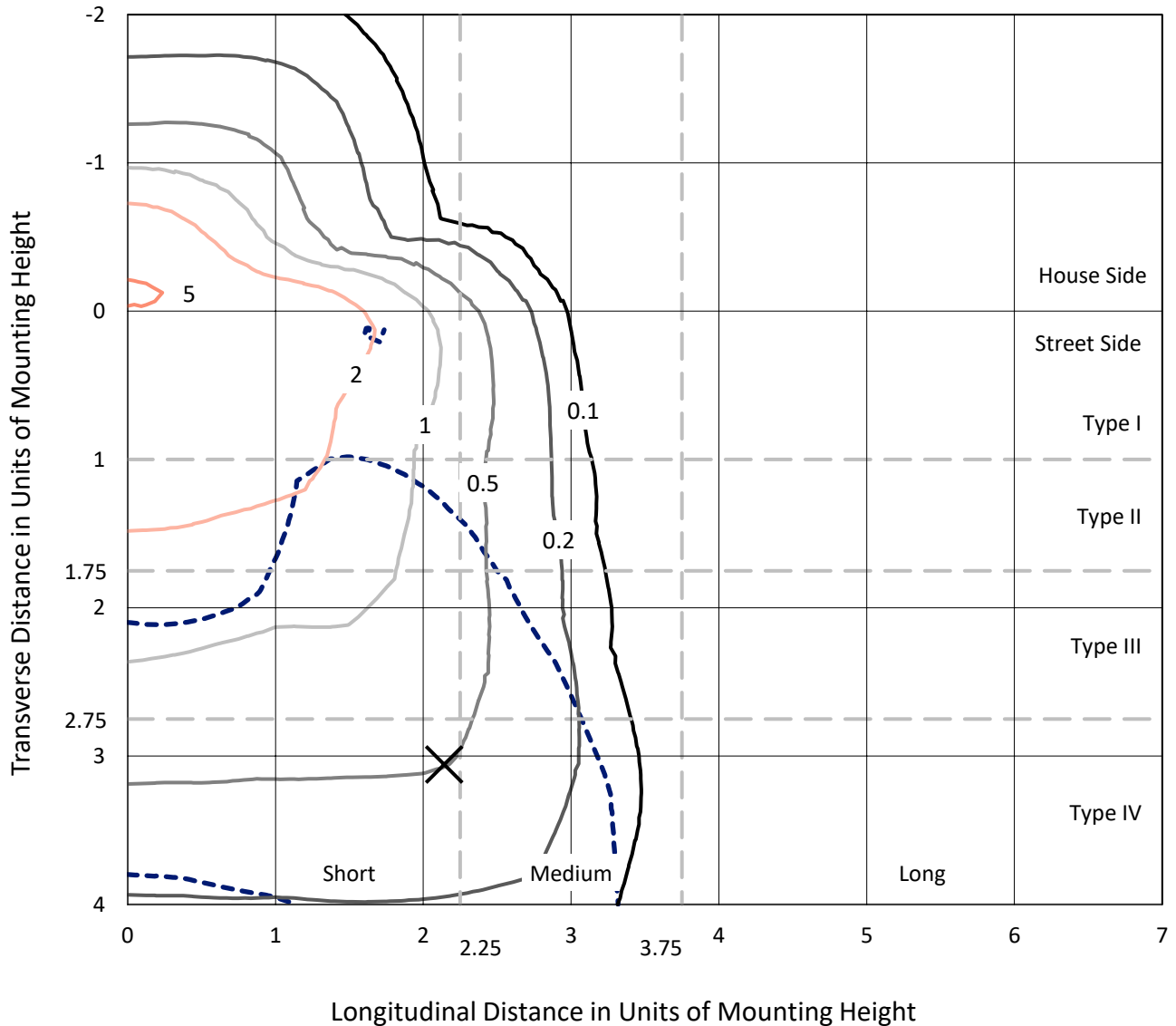
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

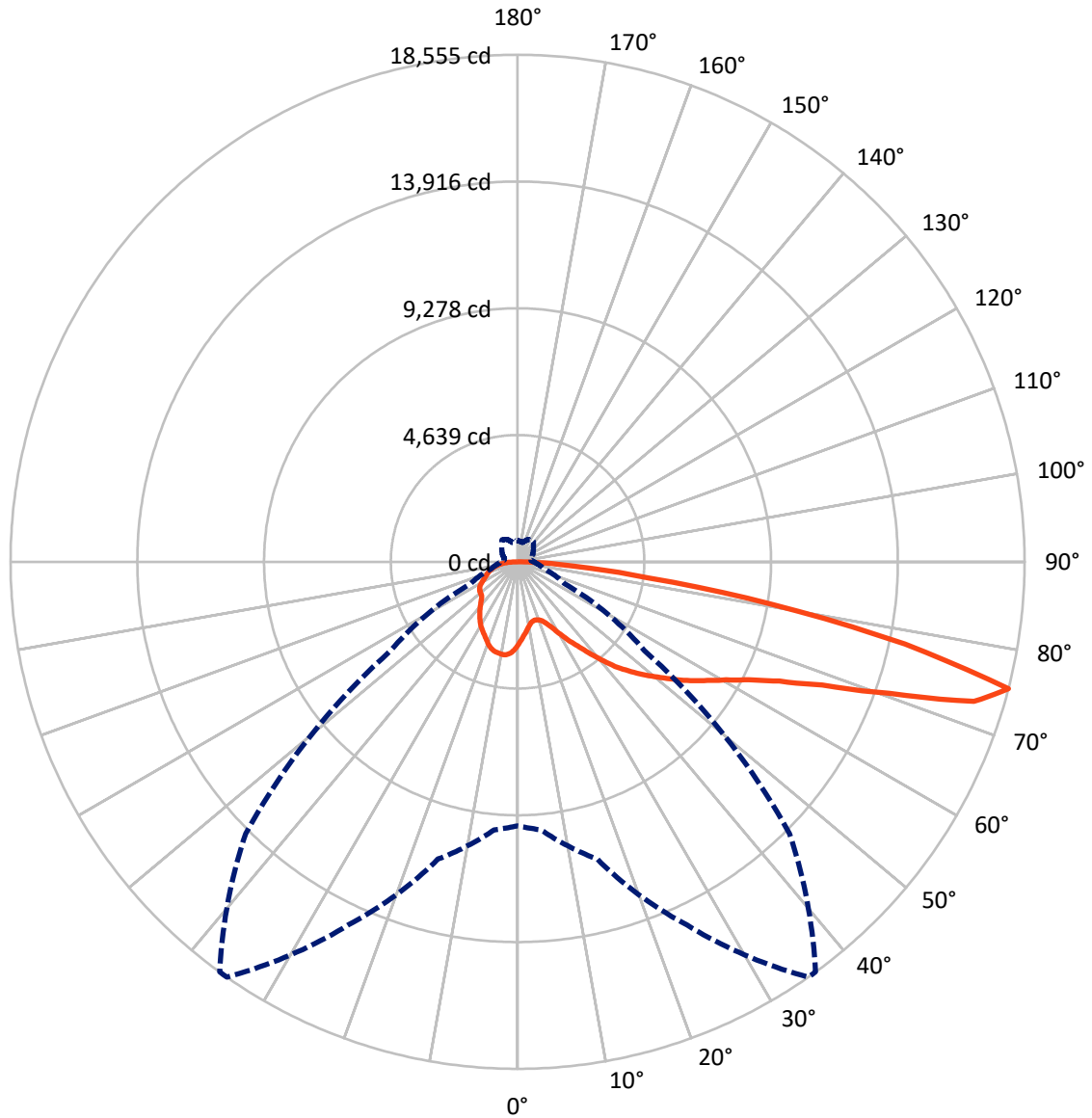
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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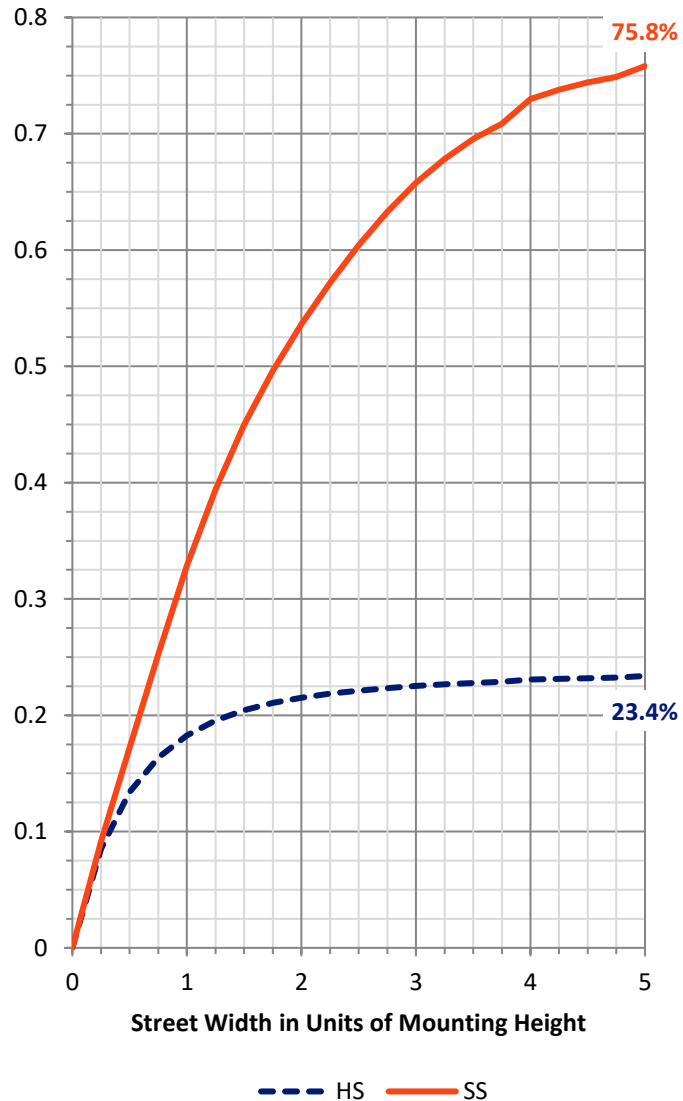
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5417.5	0.0	5417.5
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	17347.7	0.0	17347.7
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	22765.2	0.0	22765.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	287.2	1.3
10°-20°	828.5	3.6
20°-30°	1391.2	6.1
30°-40°	2162.2	9.5
40°-50°	3209.2	14.1
50°-60°	4430.5	19.5
60°-70°	5375.2	23.6
70°-80°	4442.2	19.5
80°-90°	638.9	2.8
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°	22765.2	100.0
0°-180°	22765.2	100.0

**Coefficient of Utilization**



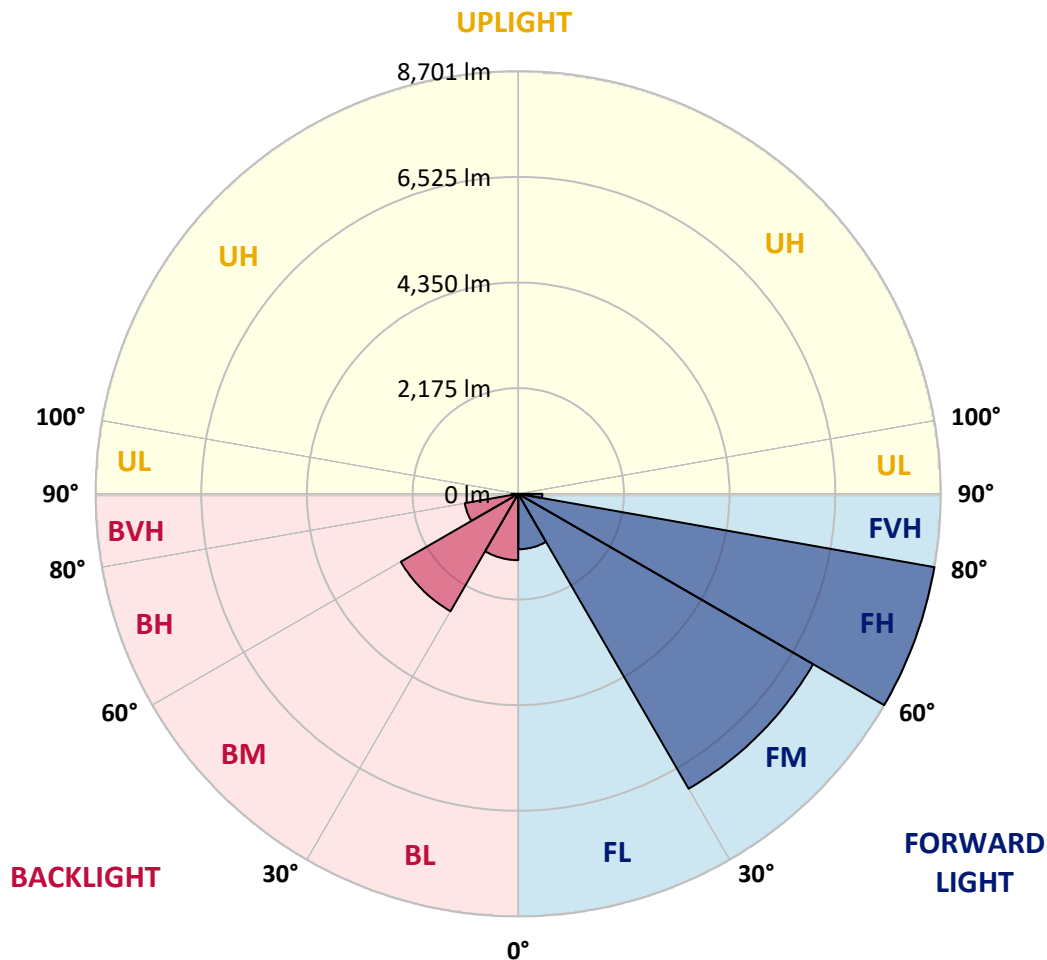
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1141.6	5.0			
FM (30°-60°)	7010.5	30.8			
FH (60°-80°)	8700.5	38.2			G4/12000
FVH (80°-90°)	495.1	2.2			G3/500
BL (0°-30°)	1365.3	6.0	B3/2500		
BM (30°-60°)	2791.4	12.3	B3/5000		
BH (60°-80°)	1116.9	4.9	B3/2500		G3/2500
BVH (80°-90°)	143.9	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-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3033.6	3033.6	3033.6	3033.6	3033.6	3033.6	3033.6	3033.6	3033.6	3033.6	3033.6
2.5°	2797.3	2814.5	2821.9	2818.2	2836.7	2834.2	2860.1	2892.1	2936.4	2979.5	3042.2
5°	2582.0	2600.4	2616.4	2631.2	2666.8	2677.9	2718.6	2780.1	2861.3	2943.8	3047.1
7.5°	2381.4	2397.4	2422.0	2449.0	2509.4	2520.5	2588.1	2684.1	2797.3	2918.0	3060.6
10°	2217.7	2233.7	2259.5	2290.3	2365.4	2378.9	2465.0	2593.0	2740.7	2893.4	3075.5
12.5°	2147.6	2152.5	2167.3	2198.0	2263.2	2271.8	2366.6	2513.1	2685.3	2874.8	3097.7
15°	2143.9	2153.7	2155.0	2171.0	2225.1	2228.8	2316.1	2461.3	2650.9	2871.1	3130.9
17.5°	2180.8	2188.2	2177.1	2186.9	2232.4	2238.6	2307.5	2436.7	2639.8	2887.2	3187.4
20°	2279.2	2285.3	2252.1	2238.6	2271.8	2276.7	2344.5	2452.7	2650.9	2920.4	3265.0
22.5°	2488.4	2492.1	2410.9	2355.6	2358.0	2360.5	2419.5	2518.0	2693.9	2980.7	3363.4
25°	2814.5	2812.1	2682.8	2575.8	2514.3	2500.7	2540.2	2623.8	2766.6	3060.6	3490.2
27.5°	3196.1	3177.6	3048.4	2888.4	2754.3	2734.6	2726.0	2761.7	2869.9	3166.5	3645.3
30°	3626.9	3609.5	3470.5	3261.3	3075.5	3043.4	2962.2	2943.8	3023.7	3310.5	3860.7
32.5°	4099.4	4088.3	3922.2	3668.7	3420.0	3383.1	3246.5	3197.3	3260.1	3528.4	4160.9
35°	4495.6	4485.8	4347.9	4087.1	3783.1	3737.6	3598.5	3543.1	3575.1	3807.7	4553.6
37.5°	4853.8	4848.9	4730.7	4525.2	4211.4	4156.0	3999.8	3981.2	3975.1	4175.6	5029.8
40°	5186.1	5173.8	5050.7	4942.4	4709.8	4659.3	4521.5	4505.5	4458.8	4628.6	5568.8
42.5°	5554.1	5522.1	5343.6	5293.1	5230.4	5188.5	5106.0	5108.5	5005.2	5139.3	6139.9
45°	5854.4	5835.8	5652.5	5622.9	5690.7	5673.5	5744.8	5763.3	5562.7	5674.7	6733.0
47.5°	6176.8	6159.5	6004.4	5983.5	6166.9	6171.8	6424.2	6430.3	6106.6	6231.0	7327.4
50°	6574.2	6549.6	6395.8	6421.7	6627.2	6645.7	7107.1	7065.3	6607.6	6795.9	7917.0
52.5°	6836.4	6851.2	6818.0	6859.8	7140.4	7157.7	7779.1	7672.0	7103.5	7353.4	8495.4
55°	7029.7	7059.2	7162.6	7258.5	7681.9	7699.1	8412.9	8249.2	7514.5	7870.2	9039.4
57.5°	7278.2	7236.4	7429.6	7616.7	8196.3	8241.8	9029.5	8805.5	7878.8	8315.7	9412.3
60°	7635.1	7605.6	7755.8	8032.6	8772.3	8844.9	9681.7	9306.4	8145.9	8668.9	9484.8
62.5°	8358.8	8285.0	8308.3	8553.2	9498.4	9594.4	10417.7	9743.2	8278.8	8806.7	9096.0
65°	9440.6	9313.8	9195.6	9365.4	10521.1	10615.8	11248.5	10086.6	8229.5	8539.7	8063.4
67.5°	10802.9	10677.3	10532.2	10692.2	12027.5	12102.5	12273.6	10279.8	7841.9	7510.8	6238.4
70°	11926.5	11879.7	12053.3	12711.6	14433.4	14435.9	13587.9	10119.8	6779.8	5325.2	3609.5
72.5°	11777.6	11749.3	12663.7	14699.2	17465.8	17400.6	14832.2	8908.9	4567.1	2402.3	1352.5
75°	9662.1	9845.4	11262.0	14663.5	18555.0	18546.4	14070.4	5663.5	1889.1	995.6	699.0
77.5°	5181.2	5471.6	7311.4	10826.3	14485.1	14702.9	9892.2	1981.4	811.0	637.4	483.7
80°	1689.7	1943.2	2914.3	5512.2	9412.3	9371.6	4239.7	777.8	555.0	451.6	334.8
82.5°	717.5	747.0	1302.1	2602.9	4830.4	4755.4	1350.0	446.7	390.1	308.9	206.7
85°	280.6	313.9	574.7	1203.6	2092.1	2046.6	487.4	221.5	249.8	201.8	123.1
87.5°	92.2	112.0	205.5	412.3	651.1	627.6	119.4	76.3	108.3	92.2	44.3
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°	3033.6	3033.6	3033.6	3033.6	3033.6	3033.6	3033.6	3033.6	3033.6	3033.6	3033.6
2.5°	3059.4	3079.2	3102.6	3137.0	3166.5	3191.1	3217.0	3233.0	3239.1	3257.7	3256.4
5°	3081.7	3124.7	3182.5	3239.1	3294.6	3327.8	3357.3	3372.0	3385.6	3395.4	3397.9
7.5°	3118.6	3173.9	3265.0	3338.8	3385.6	3412.6	3432.3	3427.4	3432.3	3434.8	3438.6
10°	3150.5	3228.0	3336.4	3406.5	3442.3	3443.5	3438.6	3421.2	3412.6	3413.9	3416.3
12.5°	3188.7	3274.9	3391.7	3450.9	3460.7	3433.5	3412.6	3383.1	3372.0	3367.1	3364.7
15°	3240.3	3338.8	3452.1	3474.2	3449.6	3415.1	3379.4	3331.5	3306.9	3287.2	3293.3
17.5°	3303.2	3411.4	3498.8	3482.8	3429.9	3373.3	3315.5	3242.8	3192.4	3171.5	3172.7
20°	3390.5	3487.8	3534.5	3464.4	3384.3	3298.2	3199.7	3111.2	3064.3	3043.4	3041.0
22.5°	3496.4	3589.9	3568.9	3432.3	3319.2	3181.3	3058.2	2993.0	2969.6	2954.9	2957.3
25°	3623.2	3703.1	3593.5	3385.6	3212.0	3026.2	2931.5	2910.6	2899.5	2888.4	2888.4
27.5°	3788.0	3831.1	3612.0	3316.7	3044.7	2861.3	2826.8	2830.5	2826.8	2808.4	2812.1
30°	4005.9	3997.3	3629.3	3204.7	2852.7	2712.5	2714.9	2730.9	2733.4	2721.1	2727.2
32.5°	4292.6	4205.3	3637.9	3059.4	2669.3	2582.0	2584.4	2601.7	2614.0	2593.0	2602.9
35°	4639.7	4447.7	3624.4	2877.3	2527.9	2457.6	2439.2	2444.1	2447.8	2428.1	2441.7
37.5°	5044.5	4719.6	3564.0	2675.5	2410.9	2335.9	2296.4	2263.2	2243.5	2225.1	2237.4
40°	5488.9	5016.2	3453.3	2478.6	2280.4	2206.6	2147.6	2084.7	2018.3	1993.7	2004.8
42.5°	5954.0	5321.5	3319.2	2290.3	2130.3	2070.0	2007.3	1916.1	1816.5	1766.1	1772.2
45°	6436.5	5634.0	3187.4	2104.4	1976.5	1950.6	1878.0	1768.5	1660.2	1596.2	1591.3
47.5°	6909.0	5929.4	2994.2	1917.4	1832.5	1860.8	1804.2	1703.2	1582.7	1481.7	1470.7
50°	7360.7	6206.3	2677.9	1727.8	1715.5	1833.7	1779.6	1634.4	1496.5	1367.2	1356.2
52.5°	7808.7	6430.3	2273.0	1555.5	1652.8	1826.3	1747.5	1587.6	1419.0	1283.6	1268.8
55°	8188.9	6546.0	1882.9	1407.9	1561.7	1763.5	1709.4	1532.2	1309.4	1165.4	1153.1
57.5°	8405.5	6452.5	1558.0	1262.7	1436.2	1660.2	1644.2	1414.1	1179.0	1068.3	1053.5
60°	8312.0	6073.4	1292.2	1135.9	1316.8	1548.2	1530.9	1297.1	1079.3	974.7	959.9
62.5°	7796.4	5351.0	1081.8	1025.2	1208.6	1433.8	1417.8	1207.2	1003.0	902.1	886.1
65°	6757.6	4352.9	918.1	932.9	1099.0	1295.9	1319.3	1132.2	942.7	844.3	828.2
67.5°	5154.1	3153.0	790.1	852.9	991.9	1160.5	1228.3	1078.1	892.3	798.7	783.9
70°	2937.6	1790.7	681.8	775.3	897.2	1035.0	1158.0	1035.0	838.1	760.6	750.7
72.5°	1113.8	822.0	589.5	697.8	806.1	929.2	1080.6	967.3	775.3	717.5	707.7
75°	594.4	500.9	496.0	606.7	701.5	825.7	983.3	900.9	728.6	758.1	782.7
77.5°	404.9	354.4	414.7	519.4	587.0	711.3	880.0	799.9	631.3	628.8	579.6
80°	280.6	251.0	337.2	418.4	454.1	598.1	767.9	686.7	514.4	480.0	459.0
82.5°	168.6	163.7	252.3	312.6	321.2	461.5	636.2	575.9	420.9	366.7	369.2
85°	92.2	97.3	161.2	183.4	187.1	322.5	498.5	445.5	323.7	271.9	274.4
87.5°	25.8	33.2	59.0	72.6	89.8	167.4	296.6	264.6	162.5	113.3	113.3
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)