

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: P883271

Luminaire Tested: **NAV-SB3C-740-U-T4FT**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883271  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB3C-740-U-T4FT  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

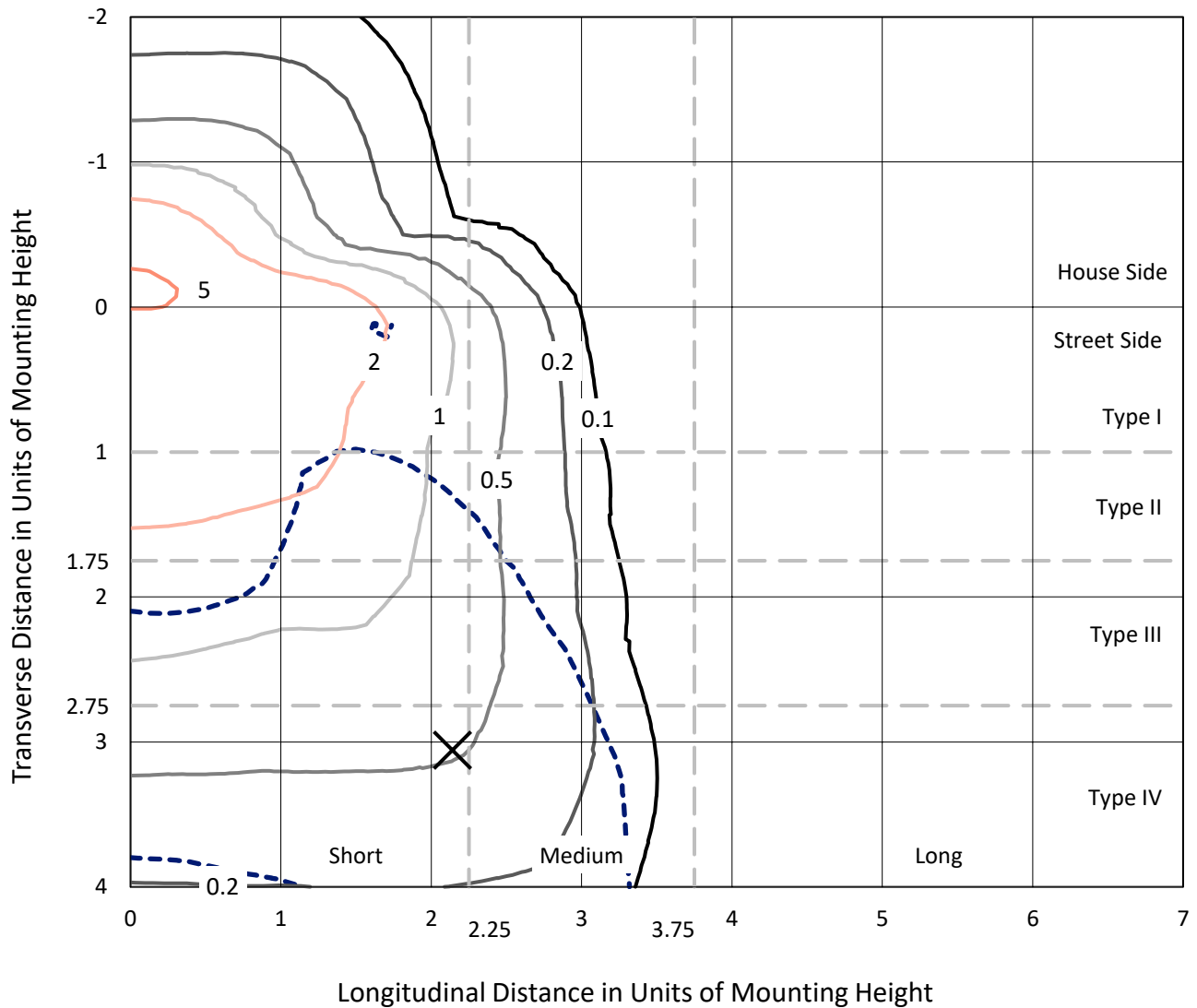
Lumens per Lamp: N/A  
Luminaire Lumens: 23937 lumens  
Efficiency: N/A  
Efficacy: 160.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 149.1  
Input Voltage (V): 120.0  
Input Current (Ain): 1.259  
Voltage Rise (V): NR  
Power Factor: 0.997  
Total Harmonic Distortion (THDi): 6.297  
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

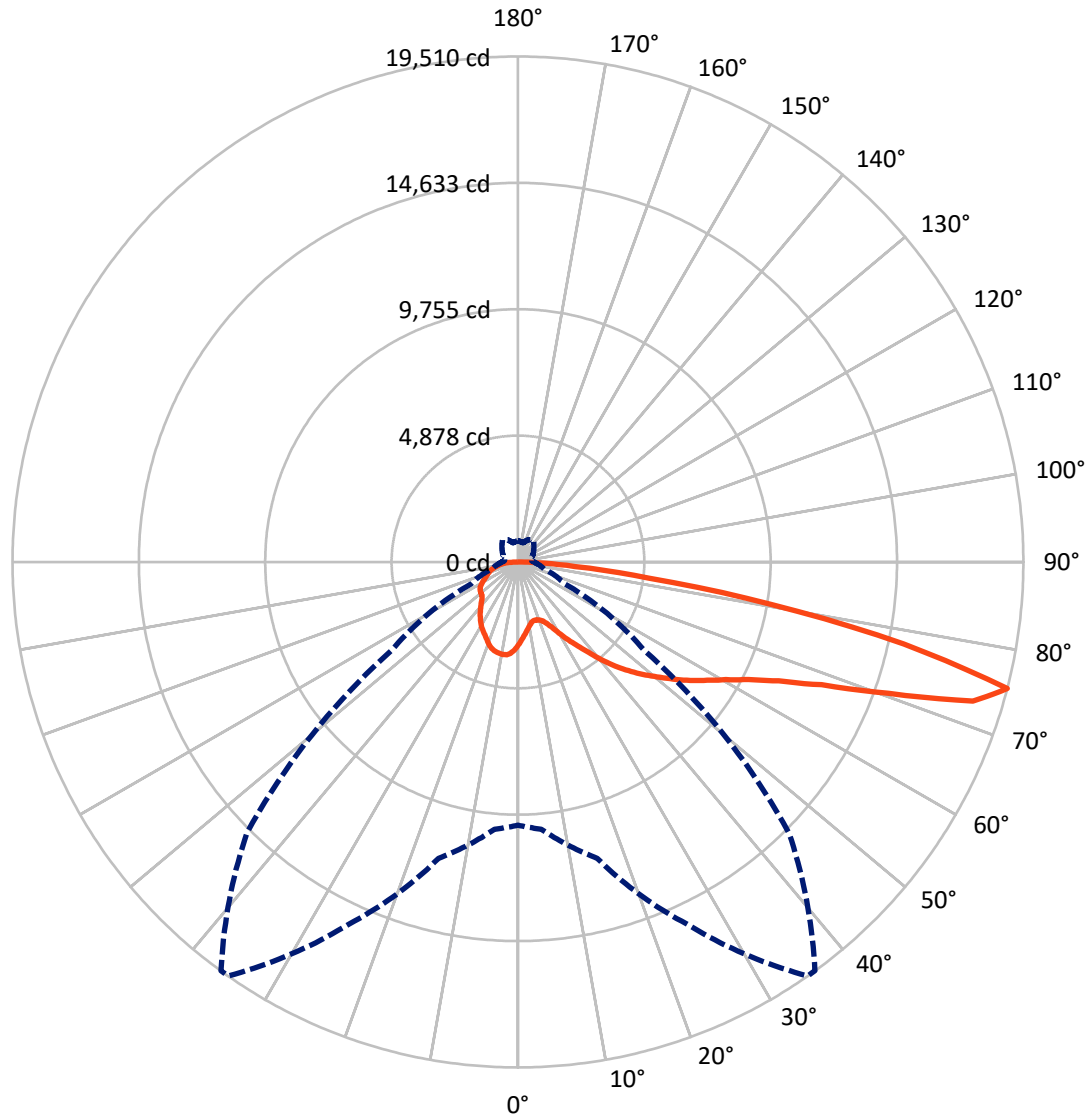
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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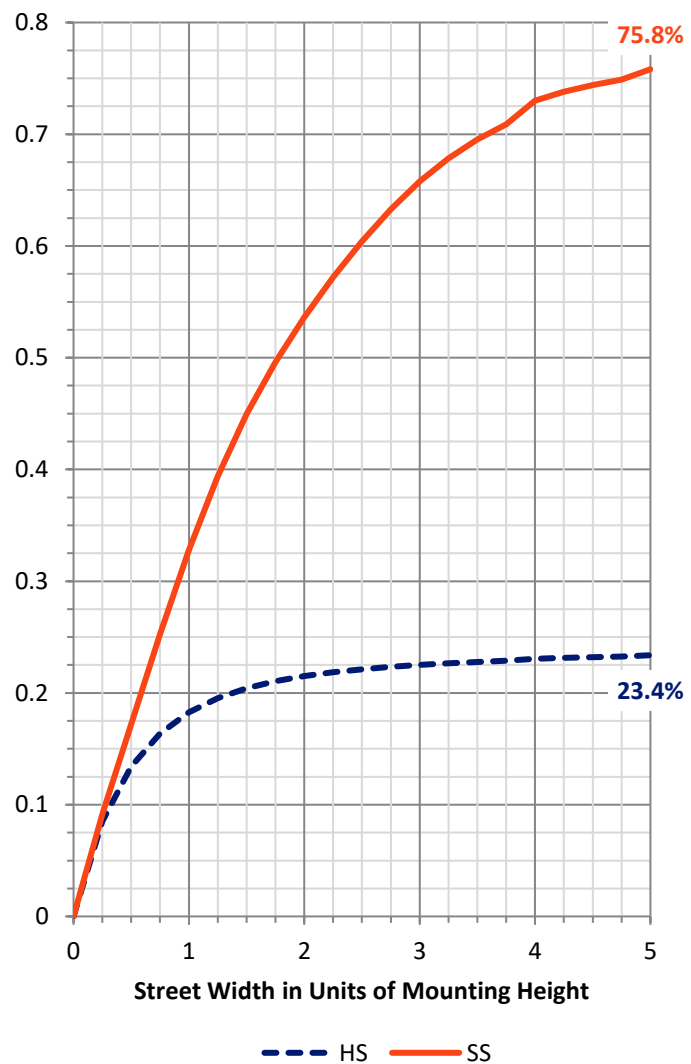
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5696.4	0.0	5696.4
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	18240.6	0.0	18240.6
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	23937.0	0.0	23937.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	302.0	1.3
10°-20°	871.1	3.6
20°-30°	1462.8	6.1
30°-40°	2273.5	9.5
40°-50°	3374.4	14.1
50°-60°	4658.6	19.5
60°-70°	5651.9	23.6
70°-80°	4670.9	19.5
80°-90°	671.8	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°	23937.0	100.0
0°-180°	23937.0	100.0

**Coefficient of Utilization**



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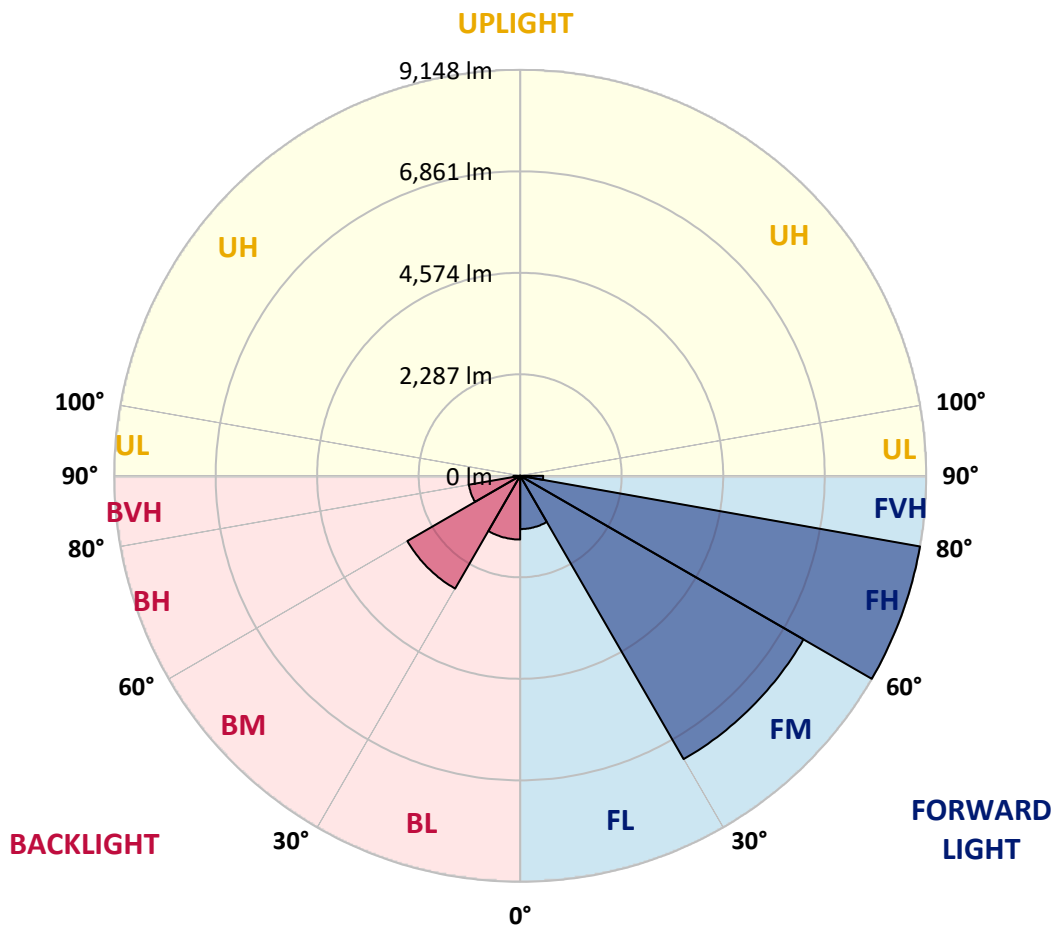
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1200.4	5.0			
FM (30°-60°)	7371.3	30.8			
FH (60°-80°)	9148.4	38.2			G4/12000
FVH (80°-90°)	520.5	2.2			G4/750
BL (0°-30°)	1435.6	6.0	B3/2500		
BM (30°-60°)	2935.1	12.3	B3/5000		
BH (60°-80°)	1174.4	4.9	B3/2500		G3/2500
BVH (80°-90°)	151.3	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°	3189.8	3189.8	3189.8	3189.8	3189.8	3189.8	3189.8	3189.8	3189.8	3189.8	3189.8
2.5°	2941.3	2959.4	2967.2	2963.3	2982.7	2980.1	3007.3	3041.0	3087.5	3132.8	3198.8
5°	2714.9	2734.3	2751.1	2766.6	2804.1	2815.8	2858.5	2923.2	3008.6	3095.3	3204.0
7.5°	2503.9	2520.8	2546.6	2575.1	2638.5	2650.2	2721.3	2822.3	2941.3	3068.1	3218.2
10°	2331.8	2348.7	2375.8	2408.2	2487.1	2501.3	2591.9	2726.5	2881.8	3042.2	3233.8
12.5°	2258.1	2263.2	2278.8	2311.1	2379.7	2388.8	2488.4	2642.4	2823.6	3022.8	3257.1
15°	2254.2	2264.5	2265.8	2282.7	2339.6	2343.5	2435.4	2588.0	2787.3	3019.0	3292.0
17.5°	2293.0	2300.8	2289.1	2299.5	2347.4	2353.8	2426.3	2562.2	2775.7	3035.8	3351.5
20°	2396.5	2403.0	2368.1	2353.8	2388.8	2393.9	2465.1	2579.0	2787.3	3070.7	3433.0
22.5°	2616.5	2620.4	2535.0	2476.8	2479.3	2481.9	2544.0	2647.6	2832.6	3134.1	3536.6
25°	2959.4	2956.8	2821.0	2708.4	2643.7	2629.5	2670.9	2758.9	2909.0	3218.2	3669.8
27.5°	3360.6	3341.2	3205.3	3037.1	2896.0	2875.3	2866.3	2903.8	3017.7	3329.5	3832.9
30°	3813.5	3795.4	3649.1	3429.2	3233.8	3200.1	3114.7	3095.3	3179.4	3480.9	4059.4
32.5°	4310.4	4298.7	4124.1	3857.5	3596.1	3557.3	3413.6	3361.9	3427.9	3710.0	4375.1
35°	4727.1	4716.7	4571.8	4297.5	3977.8	3929.9	3783.7	3725.5	3759.1	4003.7	4787.9
37.5°	5103.6	5098.5	4974.2	4758.1	4428.1	4369.9	4205.6	4186.2	4179.7	4390.6	5288.7
40°	5453.0	5440.1	5310.7	5196.8	4952.2	4899.2	4754.2	4737.4	4688.2	4866.8	5855.5
42.5°	5839.9	5806.3	5618.6	5565.6	5499.6	5455.6	5368.9	5371.5	5262.8	5403.8	6455.9
45°	6155.7	6136.3	5943.4	5912.4	5983.6	5965.4	6040.5	6059.9	5849.0	5966.7	7079.6
47.5°	6494.7	6476.6	6313.5	6291.5	6484.4	6489.5	6754.8	6761.3	6420.9	6551.6	7704.6
50°	6912.7	6886.8	6725.0	6752.2	6968.3	6987.7	7473.0	7429.0	6947.6	7145.6	8324.5
52.5°	7188.3	7203.8	7168.9	7212.9	7507.9	7526.0	8179.5	8066.9	7469.1	7731.8	8932.6
55°	7391.5	7422.5	7531.2	7632.1	8077.3	8095.4	8845.9	8673.8	7901.3	8275.3	9504.6
57.5°	7652.9	7608.9	7812.0	8008.7	8618.2	8666.1	9494.2	9258.7	8284.3	8743.7	9896.7
60°	8028.1	7997.1	8154.9	8446.1	9223.8	9300.1	10180.1	9785.4	8565.1	9115.1	9973.0
62.5°	8789.0	8711.4	8736.0	8993.5	9987.3	10088.2	10953.9	10244.8	8704.9	9260.0	9564.1
65°	9926.5	9793.2	9668.9	9847.5	11062.6	11162.2	11827.4	10605.8	8653.1	8979.2	8478.4
67.5°	11358.9	11226.9	11074.3	11242.5	12646.5	12725.4	12905.3	10809.0	8245.5	7897.4	6559.4
70°	12540.4	12491.2	12673.7	13366.0	15176.3	15178.9	14287.3	10640.8	7128.8	5599.2	3795.4
72.5°	12383.8	12354.0	13315.5	15455.8	18364.8	18296.2	15595.6	9367.4	4802.1	2525.9	1422.1
75°	10159.4	10352.2	11841.6	15418.3	19510.0	19500.9	14794.6	5955.1	1986.3	1046.9	735.0
77.5°	5447.8	5753.2	7687.8	11383.5	15230.7	15459.7	10401.4	2083.4	852.8	670.3	508.6
80°	1776.7	2043.3	3064.2	5795.9	9896.7	9854.0	4457.9	817.8	583.6	474.9	352.0
82.5°	754.4	785.5	1369.1	2736.9	5079.0	5000.1	1419.5	469.7	410.2	324.8	217.4
85°	295.0	330.0	604.3	1265.6	2199.8	2152.0	512.4	232.9	262.7	212.2	129.4
87.5°	97.1	117.8	216.1	433.5	684.5	660.0	125.5	80.2	113.9	97.1	46.6
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°	3189.8	3189.8	3189.8	3189.8	3189.8	3189.8	3189.8	3189.8	3189.8	3189.8	3189.8
2.5°	3216.9	3237.6	3262.2	3298.5	3329.5	3355.4	3382.6	3399.4	3405.9	3425.3	3424.0
5°	3240.2	3285.5	3346.3	3405.9	3464.1	3499.0	3530.1	3545.6	3559.9	3570.2	3572.8
7.5°	3279.1	3337.3	3433.0	3510.7	3559.9	3588.3	3609.0	3603.9	3609.0	3611.6	3615.5
10°	3312.7	3394.2	3508.1	3581.9	3619.4	3620.7	3615.5	3597.4	3588.3	3589.6	3592.2
12.5°	3352.8	3443.4	3566.3	3628.4	3638.8	3610.3	3588.3	3557.3	3545.6	3540.4	3537.9
15°	3407.2	3510.7	3629.7	3653.0	3627.1	3590.9	3553.4	3502.9	3477.0	3456.3	3462.8
17.5°	3473.2	3587.0	3678.9	3662.1	3606.4	3546.9	3486.1	3409.8	3356.7	3334.7	3336.0
20°	3565.0	3667.3	3716.4	3642.7	3558.6	3468.0	3364.5	3271.3	3222.1	3200.1	3197.5
22.5°	3676.3	3774.7	3752.7	3609.0	3490.0	3345.0	3215.6	3147.1	3122.5	3106.9	3109.5
25°	3809.6	3893.7	3778.5	3559.9	3377.4	3182.0	3082.4	3060.4	3048.7	3037.1	3037.1
27.5°	3983.0	4028.3	3798.0	3487.4	3201.4	3008.6	2972.4	2976.3	2972.4	2953.0	2956.8
30°	4212.0	4203.0	3816.1	3369.6	2999.5	2852.0	2854.6	2871.4	2874.0	2861.1	2867.6
32.5°	4513.6	4421.7	3825.1	3216.9	2806.7	2714.9	2717.4	2735.6	2748.5	2726.5	2736.9
35°	4878.5	4676.6	3810.9	3025.4	2657.9	2584.2	2564.8	2569.9	2573.8	2553.1	2567.3
37.5°	5304.2	4962.6	3747.5	2813.2	2535.0	2456.1	2414.6	2379.7	2359.0	2339.6	2352.5
40°	5771.3	5274.4	3631.0	2606.2	2397.8	2320.2	2258.1	2192.1	2122.2	2096.3	2108.0
42.5°	6260.5	5595.4	3490.0	2408.2	2240.0	2176.5	2110.6	2014.8	1910.0	1856.9	1863.4
45°	6767.7	5924.0	3351.5	2212.8	2078.2	2051.0	1974.7	1859.5	1745.6	1678.3	1673.2
47.5°	7264.6	6234.6	3148.4	2016.1	1926.8	1956.6	1897.0	1790.9	1664.1	1558.0	1546.4
50°	7739.6	6525.8	2815.8	1816.8	1803.9	1928.1	1871.2	1718.5	1573.5	1437.7	1426.0
52.5°	8210.6	6761.3	2390.1	1635.6	1737.9	1920.3	1837.5	1669.3	1492.0	1349.7	1334.1
55°	8610.4	6882.9	1979.9	1480.4	1642.1	1854.3	1797.4	1611.1	1376.8	1225.4	1212.5
57.5°	8838.2	6784.6	1638.2	1327.7	1510.1	1745.6	1728.8	1486.8	1239.7	1123.2	1107.7
60°	8739.8	6386.0	1358.7	1194.4	1384.6	1627.9	1609.8	1363.9	1134.9	1024.9	1009.3
62.5°	8197.6	5626.4	1137.4	1077.9	1270.7	1507.5	1490.7	1269.4	1054.6	948.5	931.7
65°	7105.5	4577.0	965.3	980.9	1155.6	1362.6	1387.2	1190.5	991.2	887.7	870.9
67.5°	5419.4	3315.3	830.8	896.8	1043.0	1220.3	1291.4	1133.6	938.2	839.8	824.3
70°	3088.8	1882.8	716.9	815.2	943.3	1088.3	1217.7	1088.3	881.2	799.7	789.4
72.5°	1171.1	864.4	619.8	733.7	847.6	977.0	1136.2	1017.1	815.2	754.4	744.1
75°	625.0	526.7	521.5	638.0	737.6	868.3	1033.9	947.2	766.1	797.1	823.0
77.5°	425.7	372.7	436.1	546.1	617.2	747.9	925.2	841.1	663.8	661.2	609.5
80°	295.0	264.0	354.6	440.0	477.5	628.9	807.5	722.1	540.9	504.7	482.7
82.5°	177.3	172.1	265.3	328.7	337.7	485.3	669.0	605.6	442.6	385.6	388.2
85°	97.1	102.2	169.5	192.8	196.7	339.0	524.1	468.4	340.3	286.0	288.6
87.5°	27.2	34.9	62.1	76.3	94.5	176.0	311.9	278.2	170.8	119.1	119.1
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)