

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: P964611

Luminaire Tested: **NAV-SB3C-740-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964611
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-740-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24319.2 lumens
Efficiency: N/A
Efficacy: 163.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 149.1
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



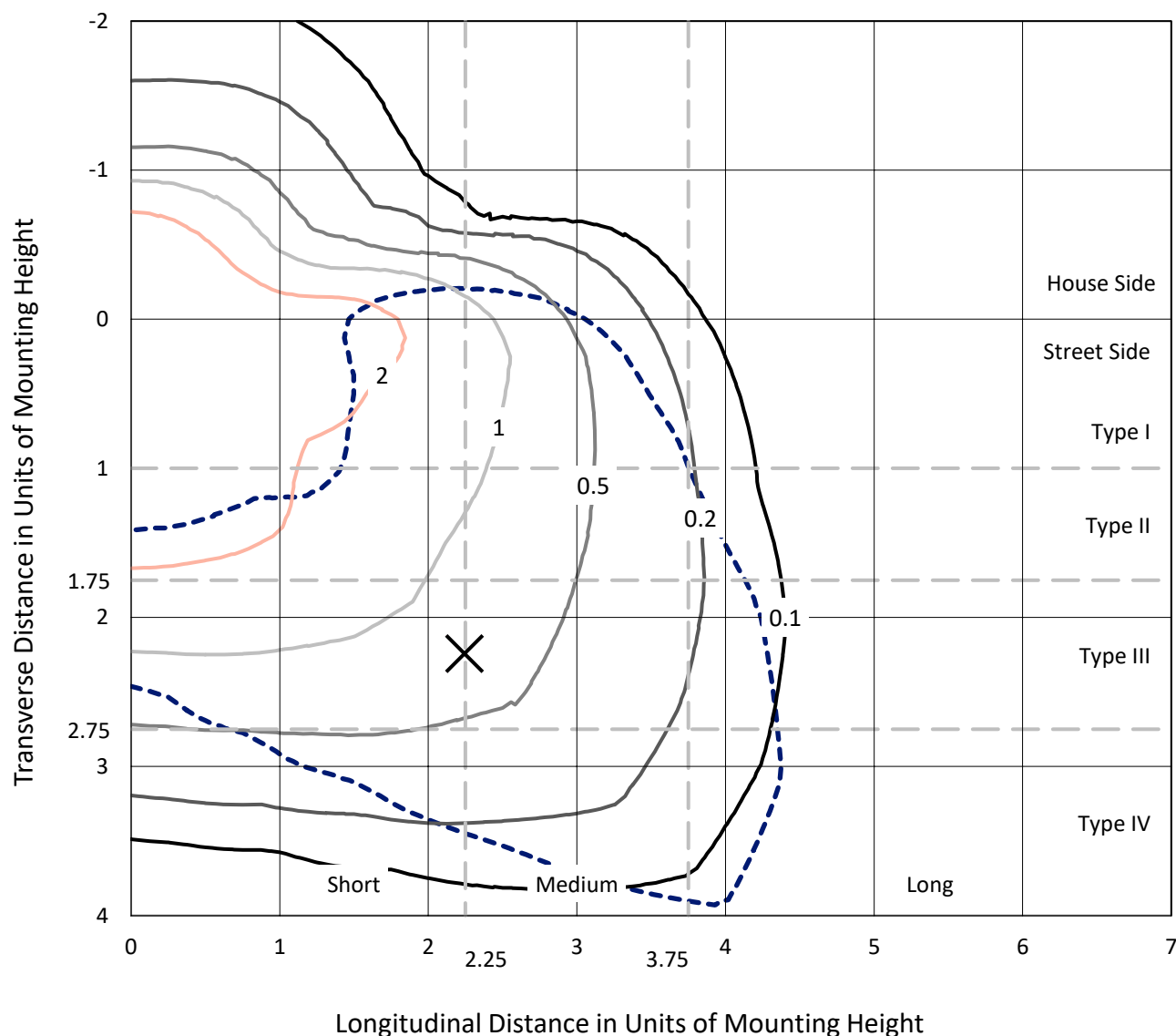
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

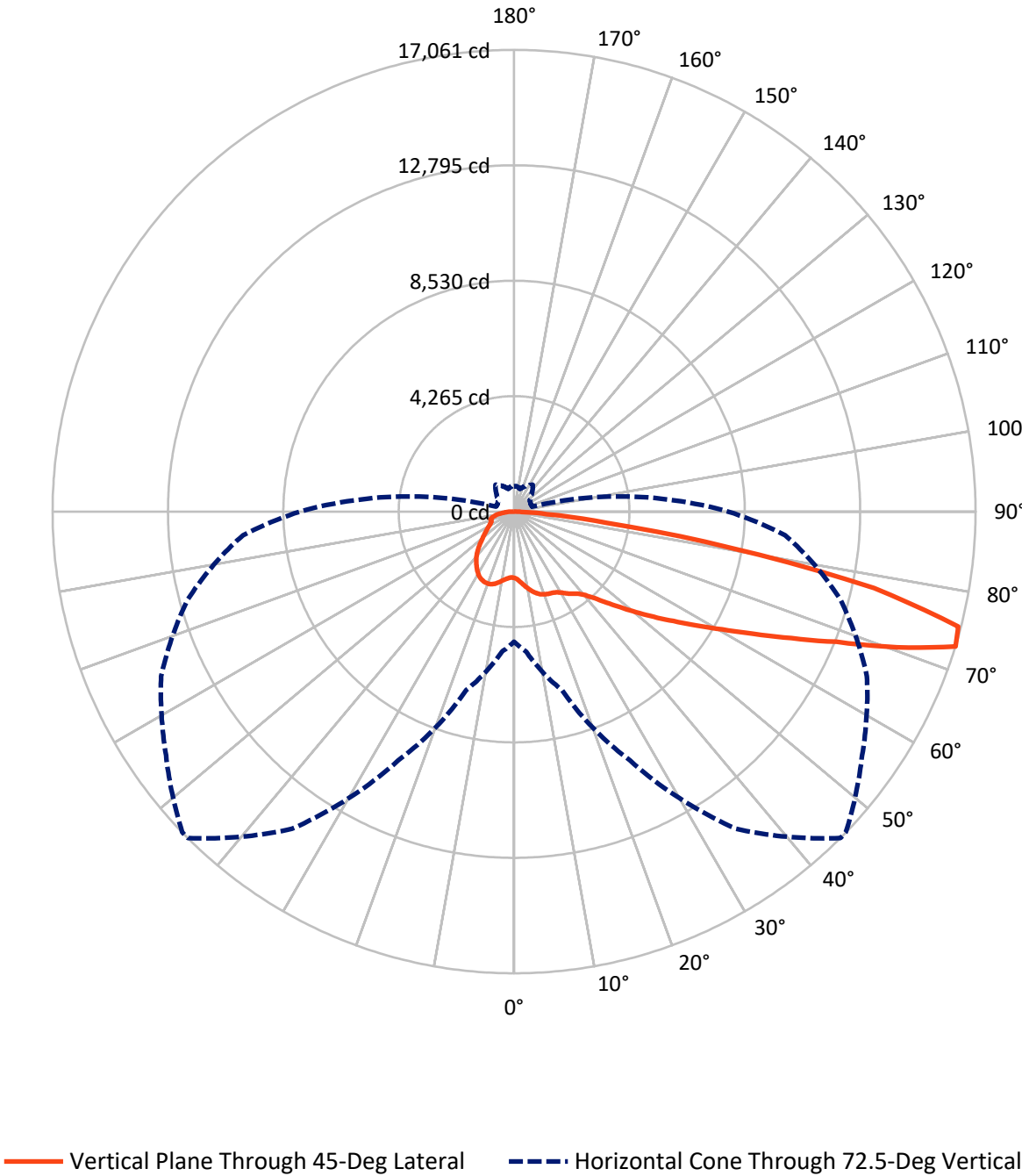


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5497.7	0.0	5497.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	18821.4	0.0	18821.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	24319.2	0.0	24319.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.7	1.0
10°-20°	832.5	3.4
20°-30°	1448.2	6.0
30°-40°	2076.1	8.5
40°-50°	2923.3	12.0
50°-60°	4477.7	18.4
60°-70°	6486.6	26.7
70°-80°	5179.9	21.3
80°-90°	645.1	2.7
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°	24319.2	100.0
0°-180°	24319.2	100.0

Coefficient of Utilization



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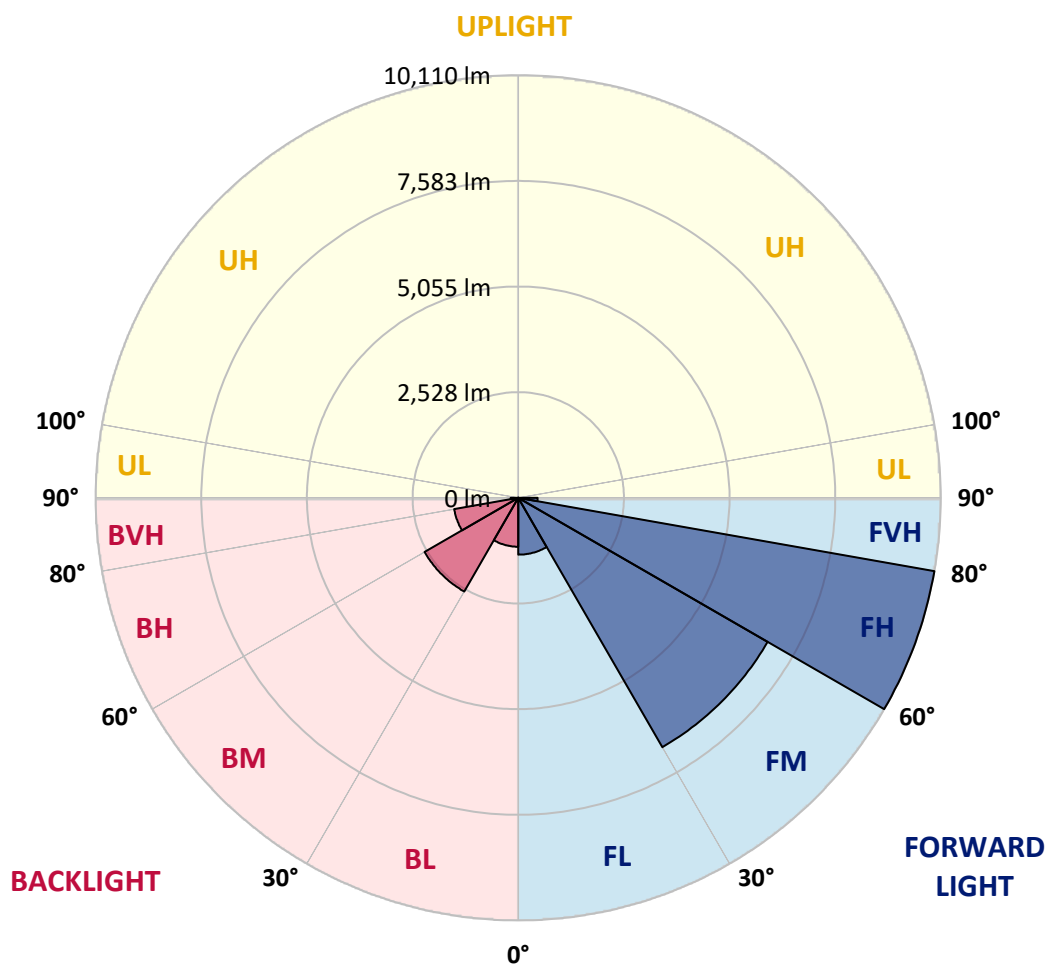
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1360.0	5.6			
FM	(30°-60°)	6888.5	28.3			
FH	(60°-80°)	10110.2	41.6			G4/12000
FVH	(80°-90°)	462.8	1.9			G3/500
BL	(0°-30°)	1170.5	4.8	B3/2500		
BM	(30°-60°)	2588.7	10.6	B3/5000		
BH	(60°-80°)	1556.3	6.4	B3/2500		G3/2500
BVH	(80°-90°)	182.3	0.7			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°	45°	46°	55°	65°	75°	85°
0°	2453.3	2453.3	2453.3	2453.3	2453.3	2453.3	2453.3	2453.3	2453.3	2453.3	2453.3
2.5°	2549.4	2566.1	2550.7	2536.6	2530.2	2513.5	2512.3	2502.0	2495.6	2477.6	2472.5
5°	2727.5	2749.3	2723.6	2695.4	2669.8	2628.8	2623.7	2594.3	2561.0	2522.5	2500.7
7.5°	2928.6	2947.8	2918.4	2876.0	2831.3	2763.4	2762.1	2708.3	2655.8	2590.4	2553.3
10°	3104.1	3129.7	3090.1	3032.4	2976.0	2899.1	2890.2	2828.7	2762.1	2677.5	2621.1
12.5°	3259.2	3277.1	3238.7	3168.2	3102.9	3026.0	3014.4	2946.6	2872.3	2776.2	2704.5
15°	3382.1	3405.2	3353.9	3278.4	3209.2	3133.6	3123.4	3061.9	2987.6	2886.3	2794.1
17.5°	3462.9	3482.0	3429.5	3345.0	3278.4	3215.6	3207.9	3156.7	3091.3	2988.8	2890.2
20°	3493.6	3514.1	3459.0	3373.2	3311.7	3263.0	3259.2	3222.0	3177.2	3083.6	2983.7
22.5°	3524.4	3543.5	3471.8	3382.1	3328.3	3297.6	3296.3	3272.0	3254.1	3177.2	3079.8
25°	3648.6	3653.7	3557.7	3428.2	3351.3	3324.5	3323.2	3321.9	3329.6	3269.4	3183.5
27.5°	3756.2	3755.0	3673.0	3551.2	3432.1	3375.7	3374.4	3387.2	3411.6	3361.6	3291.2
30°	3913.8	3899.7	3802.3	3675.5	3566.6	3479.5	3471.8	3460.3	3479.5	3439.8	3398.8
32.5°	4248.2	4203.3	4045.8	3820.3	3678.1	3611.5	3601.2	3529.5	3537.2	3512.8	3492.3
35°	4727.3	4668.4	4458.2	4094.5	3816.4	3721.7	3716.5	3625.5	3610.2	3588.4	3596.1
37.5°	5297.4	5224.3	4979.7	4491.5	4054.7	3849.7	3842.0	3760.1	3697.3	3674.2	3717.8
40°	5870.1	5777.8	5575.4	4975.9	4405.8	4063.7	4039.3	3915.1	3843.3	3804.9	3897.2
42.5°	6426.0	6349.2	6176.2	5519.0	4838.7	4376.2	4322.4	4109.8	4056.0	4020.2	4186.7
45°	6918.0	6848.8	6722.0	6099.4	5346.1	4801.6	4749.0	4401.9	4385.3	4385.3	4626.1
47.5°	7317.7	7302.3	7167.8	6691.2	5944.4	5285.8	5194.9	4808.0	4852.9	4922.0	5249.9
50°	7761.0	7718.7	7575.3	7274.1	6647.6	5840.6	5766.2	5306.3	5474.2	5663.8	6151.9
52.5°	8168.3	8191.4	8031.3	7881.4	7442.0	6459.3	6328.7	5894.4	6256.9	6570.9	7208.8
55°	8587.2	8588.6	8543.8	8523.3	8274.7	7143.4	7000.0	6601.6	7178.1	7567.6	8441.3
57.5°	8980.6	8983.2	9049.7	9230.4	9240.7	7932.7	7769.9	7470.2	8201.6	8598.8	9712.1
60°	9331.6	9349.5	9531.5	9954.3	10090.0	8837.1	8683.4	8496.3	9259.8	9659.6	11048.3
62.5°	9449.5	9514.8	9919.6	10520.5	10929.2	9946.6	9795.4	9683.9	10371.9	10743.4	12165.4
65°	9249.6	9399.6	10182.2	10988.1	11792.6	11264.9	11114.9	10993.2	11527.5	11877.2	13082.7
67.5°	8758.9	8952.5	10166.9	11478.8	12840.6	12850.8	12711.2	12425.5	12766.3	12900.8	13381.2
70°	7466.3	7755.9	9271.4	11661.9	14043.5	15019.7	14885.3	14149.9	14002.5	13351.8	12540.8
72.5°	4810.5	5200.0	6827.0	10154.1	14311.3	17060.6	17052.9	15706.4	14393.3	12475.5	10058.0
75°	1755.1	1993.4	3172.1	6373.6	12013.0	16956.8	17006.8	15440.0	13139.1	9636.5	6265.9
77.5°	639.3	699.5	1035.1	2449.4	7388.2	13605.4	13709.2	12343.5	9352.1	4836.2	2482.8
80°	335.7	369.0	530.3	950.6	3165.6	8080.0	8242.6	7335.6	4395.5	1456.6	744.4
82.5°	185.7	201.1	297.2	516.3	1425.9	3455.2	3552.5	2897.9	1546.3	617.5	307.5
85°	99.9	106.3	139.6	281.9	696.9	1197.8	1224.8	866.0	616.2	362.5	148.6
87.5°	29.4	35.9	46.1	89.7	272.9	269.1	275.4	171.7	243.4	183.2	48.7
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°	2453.3	2453.3	2453.3	2453.3	2453.3	2453.3	2453.3	2453.3	2453.3	2453.3	2453.3
2.5°	2464.8	2461.0	2446.9	2440.5	2432.8	2431.5	2438.0	2439.2	2440.5	2441.8	2446.9
5°	2487.9	2475.1	2462.3	2454.6	2457.1	2458.5	2471.3	2480.2	2486.6	2491.8	2494.3
7.5°	2532.8	2522.5	2500.7	2499.5	2503.3	2514.8	2531.4	2551.9	2563.5	2572.4	2575.0
10°	2599.4	2580.1	2554.5	2558.4	2566.1	2582.7	2617.3	2633.9	2653.2	2669.8	2666.0
12.5°	2667.3	2650.6	2621.1	2623.7	2636.5	2666.0	2699.3	2719.8	2732.6	2745.5	2750.6
15°	2755.7	2726.2	2694.2	2694.2	2717.3	2749.3	2764.6	2781.3	2789.0	2803.1	2808.2
17.5°	2846.6	2808.2	2766.0	2763.4	2791.6	2807.0	2815.9	2818.4	2821.0	2836.4	2841.5
20°	2937.5	2895.3	2835.1	2830.0	2836.4	2833.8	2832.6	2830.0	2833.8	2853.0	2860.7
22.5°	3027.2	2978.5	2895.3	2872.3	2854.3	2830.0	2828.7	2827.5	2830.0	2849.2	2862.0
25°	3132.3	3073.4	2961.9	2892.8	2832.6	2799.3	2803.1	2804.4	2807.0	2822.3	2842.8
27.5°	3246.4	3181.0	3023.4	2886.3	2777.4	2754.4	2748.0	2751.8	2760.8	2785.1	2809.5
30°	3360.4	3283.5	3079.8	2860.7	2708.3	2676.3	2655.8	2664.7	2692.9	2717.3	2744.1
32.5°	3464.1	3387.2	3124.6	2804.4	2619.9	2569.9	2543.0	2554.5	2582.7	2591.7	2623.7
35°	3585.9	3498.7	3143.9	2714.7	2523.8	2446.9	2411.0	2394.4	2408.4	2399.5	2427.7
37.5°	3721.7	3630.7	3141.3	2596.8	2411.0	2322.6	2272.7	2209.9	2180.5	2149.7	2168.9
40°	3922.8	3792.1	3110.6	2454.6	2271.4	2190.7	2101.0	1994.6	1928.0	1867.9	1871.8
42.5°	4197.0	4016.3	3054.2	2298.4	2113.9	2038.2	1916.5	1792.3	1687.3	1587.3	1578.3
45°	4605.6	4309.6	2983.7	2131.8	1943.4	1869.2	1737.2	1597.6	1478.4	1350.3	1335.0
47.5°	5194.9	4704.2	2917.0	1942.2	1764.1	1696.2	1577.1	1447.6	1306.8	1182.4	1168.4
50°	6004.6	5270.4	2855.5	1757.7	1587.3	1536.1	1441.3	1309.3	1167.1	1067.1	1060.8
52.5°	7034.6	6040.4	2830.0	1579.6	1422.1	1402.8	1327.3	1204.3	1069.7	985.1	978.8
55°	8217.0	6961.6	2830.0	1409.3	1277.3	1283.7	1231.1	1117.1	1000.5	925.0	917.3
57.5°	9423.8	7894.2	2778.8	1251.6	1154.3	1181.2	1147.9	1048.0	942.9	864.8	852.0
60°	10535.9	8675.7	2571.2	1108.1	1045.4	1087.6	1065.9	980.0	852.0	786.6	776.3
62.5°	11390.4	9116.3	2171.5	994.1	955.7	1004.4	992.8	890.4	835.3	808.4	799.4
65°	11818.2	9044.6	1660.3	893.0	880.2	955.7	931.4	927.5	884.0	853.2	843.0
67.5°	11555.6	8427.1	1204.3	818.7	836.6	910.9	1004.4	1019.8	939.1	878.8	868.6
70°	10404.0	7310.0	896.8	748.1	781.5	912.1	1145.3	1067.1	921.2	850.6	839.2
72.5°	7914.7	5451.2	695.7	673.8	709.7	918.6	1208.1	1045.4	869.9	940.3	932.6
75°	4526.2	2992.7	558.5	582.9	620.0	858.3	1176.1	989.0	830.1	863.5	863.5
77.5°	1725.7	1150.5	461.2	493.2	498.4	749.5	1124.8	985.1	790.5	771.2	703.4
80°	598.3	449.7	381.8	392.1	385.6	666.1	1078.7	857.1	647.0	579.0	559.9
82.5°	244.7	224.2	302.4	289.6	274.2	517.5	871.1	700.8	529.1	467.6	462.5
85°	106.3	142.2	199.9	175.5	158.9	358.7	698.2	593.2	447.1	385.6	384.4
87.5°	21.7	53.8	84.6	79.4	82.0	239.5	495.8	421.5	316.4	237.0	185.7
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)