

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: P884970

Luminaire Tested: **NAV-SB6A-740-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884970
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-740-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22225 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

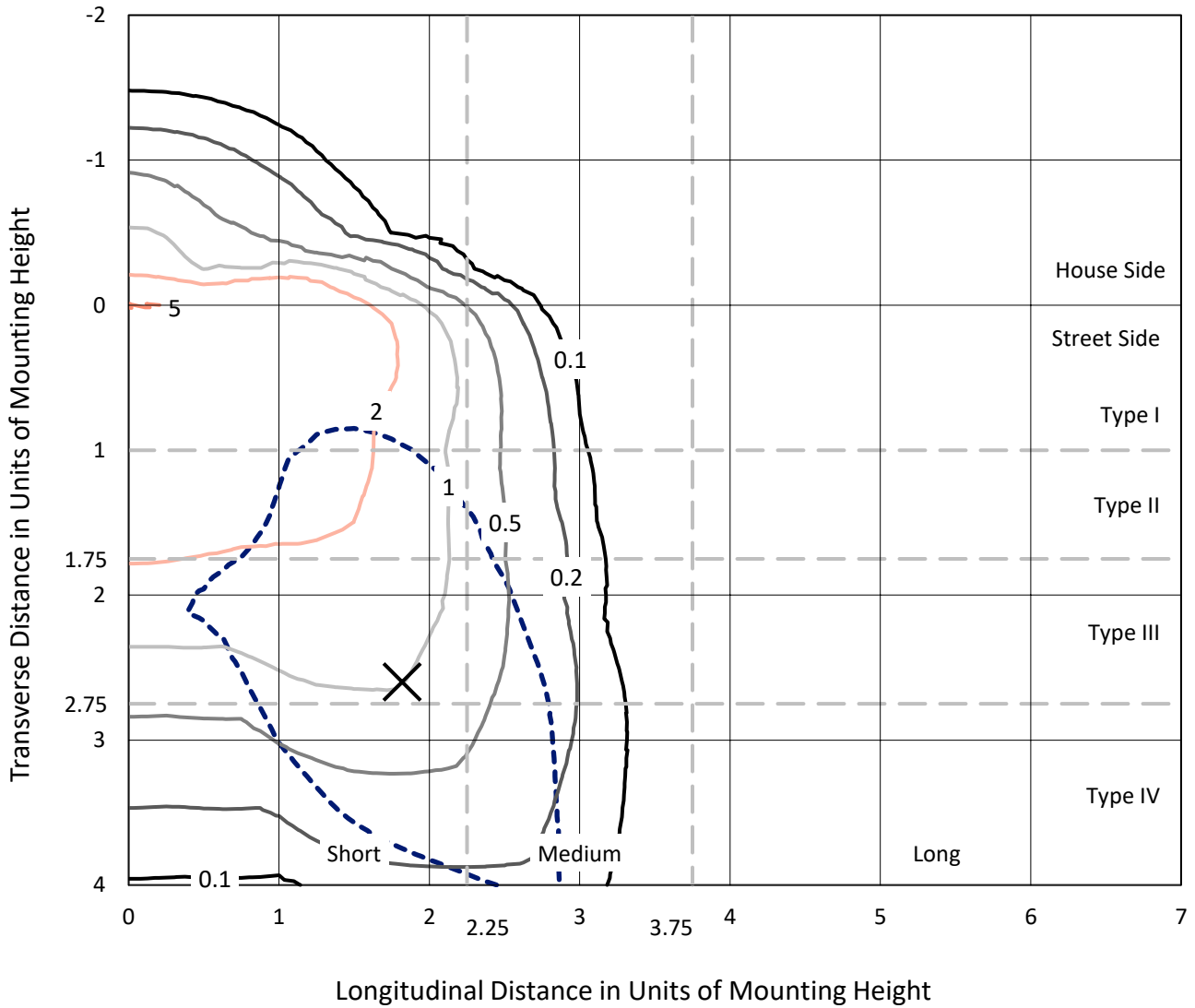
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

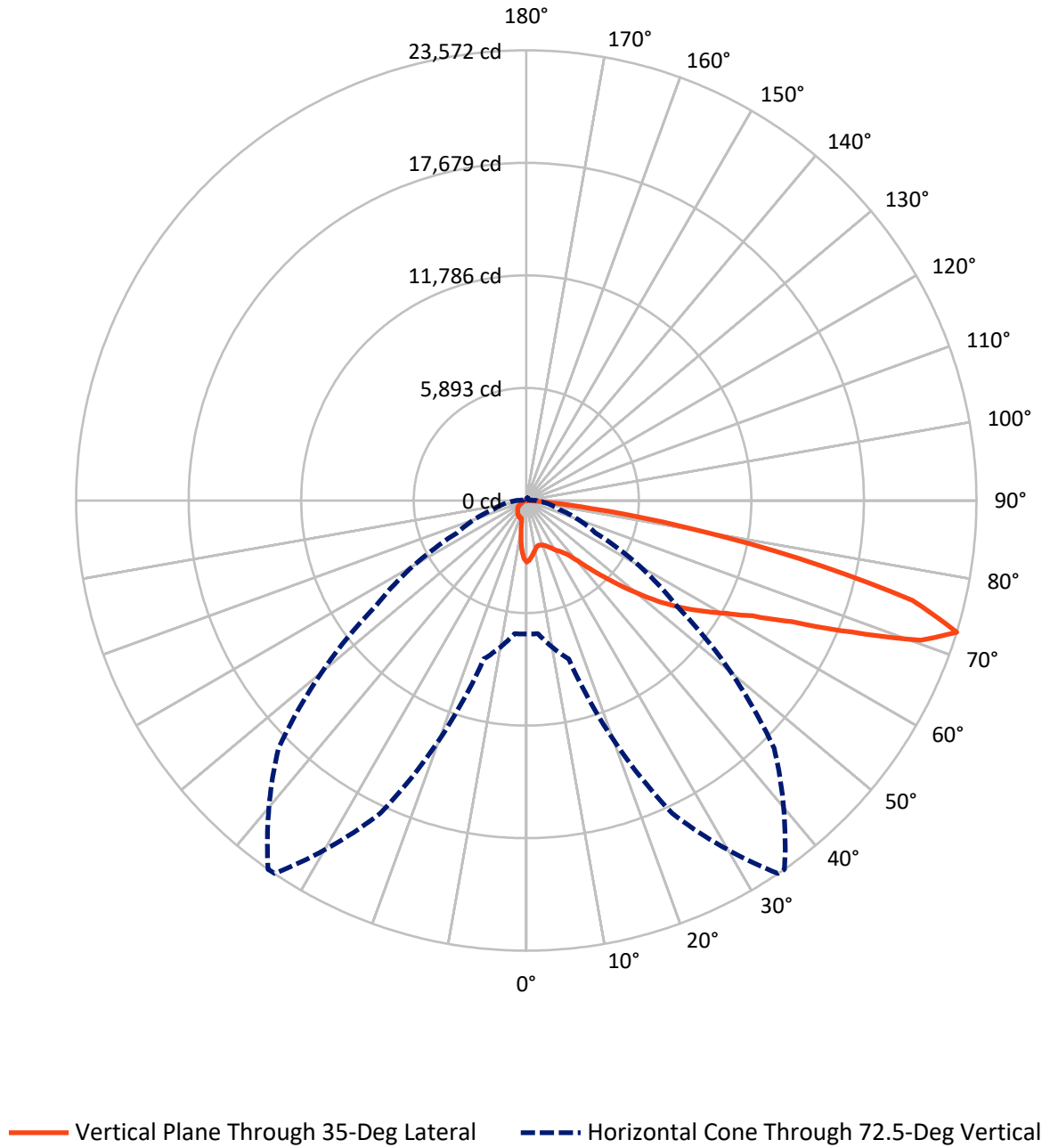
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	2501.3	0.0	2501.3
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	19723.7	0.0	19723.7
	% Fixture	88.7	0.0	88.7
Total	Lumens	22225.0	0.0	22225.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.7	1.2
10°-20°	619.2	2.8
20°-30°	1005.9	4.5
30°-40°	1678.3	7.6
40°-50°	3175.5	14.3
50°-60°	5045.8	22.7
60°-70°	6242.0	28.1
70°-80°	3880.1	17.5
80°-90°	313.6	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°	22225.0	100.0
0°-180°	22225.0	100.0



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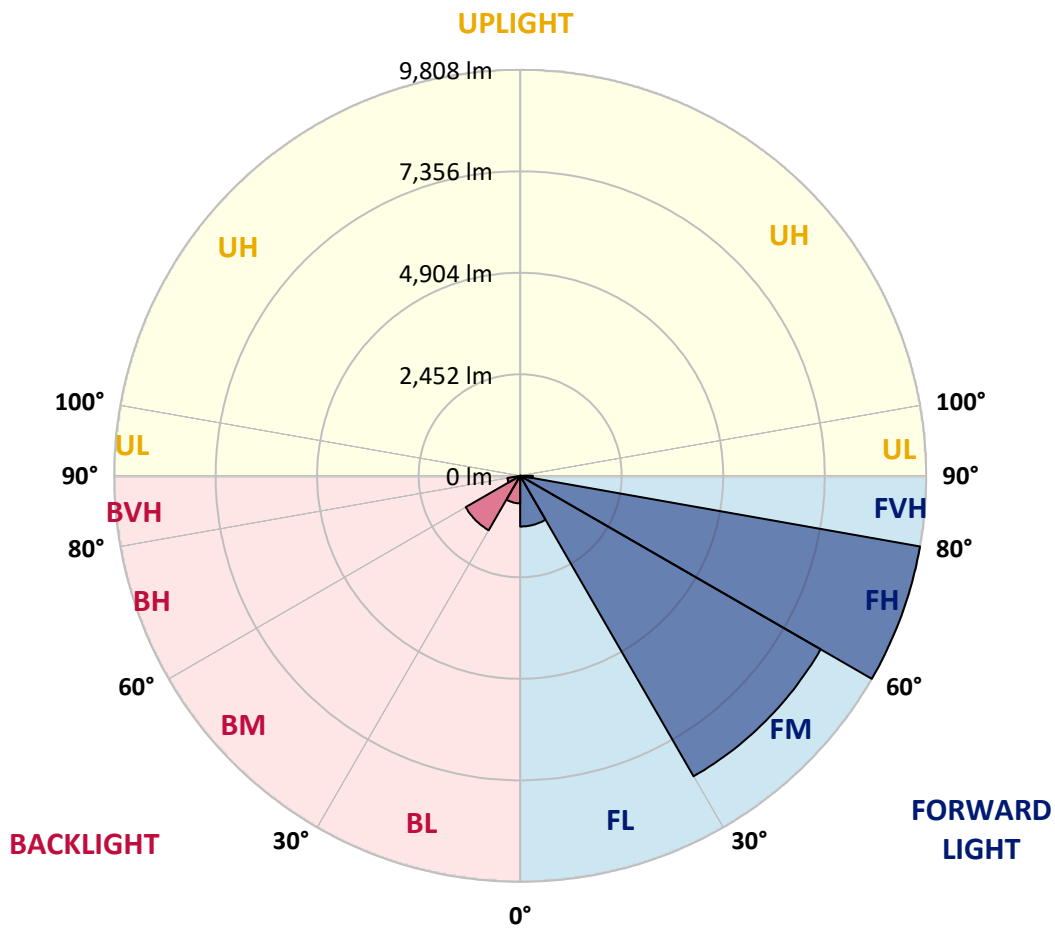
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1225.2	5.5			
FM (30°-60°)	8381.1	37.7			
FH (60°-80°)	9808.2	44.1			G4/12000
FVH (80°-90°)	309.3	1.4			G3/500
BL (0°-30°)	664.6	3.0	B2/1000		
BM (30°-60°)	1518.5	6.8	B2/2500		
BH (60°-80°)	313.9	1.4	B1/500		G1/500
BVH (80°-90°)	4.3	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°	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1
2.5°	3077.8	3103.9	3108.8	3116.9	3116.9	3126.7	3143.0	3165.8	3203.2	3222.8	3235.8
5°	2836.8	2856.4	2880.8	2900.3	2937.8	2942.7	3006.2	3068.1	3154.4	3219.5	3265.1
7.5°	2594.2	2617.0	2649.5	2696.8	2745.6	2760.3	2856.4	2960.6	3097.4	3219.5	3296.1
10°	2423.2	2424.8	2454.1	2501.4	2579.5	2597.4	2714.7	2862.9	3033.9	3200.0	3325.4
12.5°	2327.1	2338.5	2351.5	2387.4	2462.3	2473.7	2599.1	2773.3	2970.4	3188.6	3359.6
15°	2327.1	2335.3	2343.4	2361.3	2421.6	2431.3	2542.1	2716.3	2937.8	3193.5	3414.9
17.5°	2351.5	2364.6	2358.0	2379.2	2442.7	2449.2	2547.0	2700.0	2936.2	3224.4	3499.6
20°	2410.2	2419.9	2406.9	2419.9	2483.4	2496.5	2597.4	2731.0	2963.8	3278.1	3605.5
22.5°	2503.0	2507.9	2476.9	2486.7	2551.8	2568.1	2685.4	2818.9	3030.6	3364.5	3747.1
25°	2620.2	2630.0	2582.8	2594.2	2656.1	2675.6	2810.8	2950.8	3136.5	3483.3	3927.9
27.5°	2755.4	2760.3	2719.6	2717.9	2797.7	2825.4	2962.2	3113.7	3278.1	3633.2	4155.9
30°	2910.1	2924.8	2885.7	2879.2	2980.1	3002.9	3138.1	3314.0	3486.6	3857.9	4480.0
32.5°	3032.2	3043.6	3020.8	3037.1	3139.7	3157.6	3351.4	3597.3	3813.9	4177.1	4921.3
35°	3208.1	3214.6	3162.5	3191.8	3309.1	3354.7	3642.9	3994.7	4225.9	4577.7	5497.8
37.5°	3844.9	3844.9	3623.4	3478.4	3590.8	3631.5	4041.9	4494.6	4734.0	5115.1	6224.1
40°	4725.9	4711.2	4387.1	4090.8	4076.1	4155.9	4610.2	5124.8	5390.3	5760.0	7041.6
42.5°	5665.5	5642.7	5201.4	4908.3	4859.4	4887.1	5266.5	5901.6	6172.0	6546.5	7921.0
45°	6499.3	6492.8	6088.9	5694.8	5606.9	5694.8	6085.7	6810.3	7004.1	7398.2	8798.7
47.5°	7197.9	7197.9	6903.2	6645.9	6600.3	6652.4	7194.7	7818.4	7800.5	8305.3	9653.7
50°	8002.4	7995.9	7715.8	7605.0	7652.3	7725.5	8471.4	8880.1	8624.5	9196.1	10417.4
52.5°	8565.8	8604.9	8508.8	8490.9	8731.9	8859.0	9767.7	9919.1	9362.2	10041.3	10989.0
55°	9012.0	9057.6	9168.4	9293.8	9757.9	9924.0	11023.2	10904.4	9979.4	10774.1	11318.0
57.5°	9643.9	9578.8	9749.8	9997.3	10748.0	10948.3	12239.7	11834.2	10476.1	11368.5	11353.8
60°	10410.9	10420.7	10450.0	10762.7	11736.5	11993.8	13438.3	12713.6	10795.2	11733.3	10956.5
62.5°	11332.6	11347.3	11407.6	11888.0	13063.7	13306.4	14715.0	13433.4	10941.8	11630.7	9930.5
65°	11269.1	11331.0	12003.6	13646.7	15081.4	15320.8	16205.1	13938.2	10720.3	10692.6	8085.4
67.5°	10266.0	10366.9	11492.2	15747.5	18123.4	18390.5	18006.2	14037.6	9764.4	8315.1	5274.7
70°	8950.2	8986.0	10339.3	17636.5	21645.9	21916.2	19618.4	12944.8	7409.6	4637.9	2362.9
72.5°	6989.5	6997.6	8585.4	18074.6	23557.7	23572.4	18353.1	9609.7	3984.9	1781.6	820.8
75°	4992.9	4944.1	5750.2	14658.0	20725.8	20891.9	13759.1	4507.7	1522.6	841.9	408.8
77.5°	2677.2	2731.0	3253.7	8692.9	14317.7	14601.0	7507.3	1299.5	775.2	573.2	270.3
80°	827.3	872.9	1333.7	3980.0	8109.9	8280.9	2783.1	578.1	540.7	408.8	177.5
82.5°	260.6	270.3	622.1	1672.5	3366.1	3444.3	806.1	327.3	369.7	270.3	104.2
85°	74.9	76.5	276.8	623.7	832.2	848.4	226.4	127.0	211.7	167.7	53.7
87.5°	8.1	26.1	104.2	104.2	73.3	71.7	24.4	27.7	60.3	21.2	9.8
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°	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1
2.5°	3227.7	3229.3	3208.1	3172.3	3133.2	3100.6	3059.9	3027.4	3004.6	2998.0	3009.4
5°	3250.5	3239.1	3178.8	3069.7	2939.4	2827.1	2701.7	2602.3	2537.2	2509.5	2519.3
7.5°	3284.7	3252.1	3120.2	2905.2	2656.1	2434.6	2209.9	2035.6	1924.9	1869.5	1877.6
10°	3314.0	3248.8	3022.5	2667.5	2286.4	1950.9	1648.0	1438.0	1320.7	1265.3	1267.0
12.5°	3341.7	3247.2	2895.5	2385.7	1869.5	1459.1	1177.4	1073.2	1040.6	1029.2	1025.9
15°	3393.8	3252.1	2735.9	2063.3	1454.2	1102.5	999.9	998.3	1004.8	1001.5	999.9
17.5°	3465.4	3257.0	2555.1	1721.3	1122.0	972.2	967.3	982.0	991.7	986.9	985.2
20°	3558.2	3276.5	2362.9	1382.6	964.1	939.6	951.0	964.1	972.2	964.1	962.4
22.5°	3688.5	3310.7	2152.9	1110.6	913.6	920.1	929.9	944.5	952.7	941.3	939.6
25°	3848.1	3364.5	1946.0	965.7	889.2	897.3	912.0	928.2	938.0	926.6	925.0
27.5°	4054.9	3450.8	1755.5	933.1	864.7	869.6	890.8	915.2	928.2	913.6	913.6
30°	4354.6	3592.4	1591.0	947.8	850.1	838.7	868.0	902.2	916.8	903.8	902.2
32.5°	4751.9	3792.7	1490.1	970.6	843.6	802.8	830.5	874.5	898.9	890.8	890.8
35°	5273.0	4097.3	1451.0	996.6	838.7	765.4	784.9	832.2	874.5	882.6	882.6
37.5°	5904.9	4520.7	1462.4	1008.0	824.0	734.4	744.2	784.9	840.3	866.4	872.9
40°	6623.1	5014.1	1527.5	996.6	807.7	708.4	710.0	741.0	789.8	828.9	841.9
42.5°	7364.0	5590.6	1648.0	954.3	793.1	685.6	680.7	701.9	734.4	762.1	773.5
45°	8069.2	6183.4	1766.9	895.7	775.2	662.8	651.4	659.5	666.1	677.5	684.0
47.5°	8684.7	6600.3	1732.7	841.9	750.7	636.7	617.2	613.9	594.4	592.8	591.1
50°	9109.8	6691.5	1538.9	788.2	714.9	607.4	576.5	556.9	522.7	506.5	508.1
52.5°	9244.9	6331.6	1257.2	734.4	656.3	568.3	524.4	493.4	451.1	436.4	434.8
55°	9065.8	5626.4	1004.8	669.3	574.9	516.2	467.4	426.7	392.5	374.6	374.6
57.5°	8627.7	4729.1	794.7	592.8	488.5	457.6	408.8	368.0	338.7	320.8	317.6
60°	7901.4	3755.3	628.6	501.6	416.9	394.1	343.6	317.6	291.5	270.3	265.4
62.5°	6798.9	2680.5	493.4	397.4	348.5	322.4	293.1	273.6	242.6	213.3	208.4
65°	5305.6	1639.9	381.1	291.5	280.1	267.1	249.2	231.2	193.8	164.5	159.6
67.5°	3346.5	776.8	272.0	219.8	221.5	215.0	206.8	192.2	164.5	138.4	135.2
70°	1473.8	376.2	179.1	167.7	164.5	164.5	171.0	166.1	140.0	115.6	110.7
72.5°	501.6	201.9	133.5	127.0	118.9	117.3	143.3	138.4	112.4	89.6	84.7
75°	262.2	135.2	97.7	91.2	71.7	86.3	114.0	107.5	79.8	58.6	53.7
77.5°	171.0	96.1	66.8	58.6	40.7	57.0	84.7	74.9	47.2	29.3	26.1
80°	107.5	63.5	39.1	27.7	19.5	30.9	45.6	32.6	17.9	6.5	4.9
82.5°	57.0	32.6	14.7	9.8	8.1	9.8	11.4	8.1	3.3	0.0	0.0
85°	22.8	11.4	4.9	3.3	1.6	0.0	3.3	1.6	0.0	0.0	0.0
87.5°	8.1	1.6	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)