

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: P883930

Luminaire Tested: **NAV-SB4C-730-U-T4FT-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883930  
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-SB4C-730-U-T4FT-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

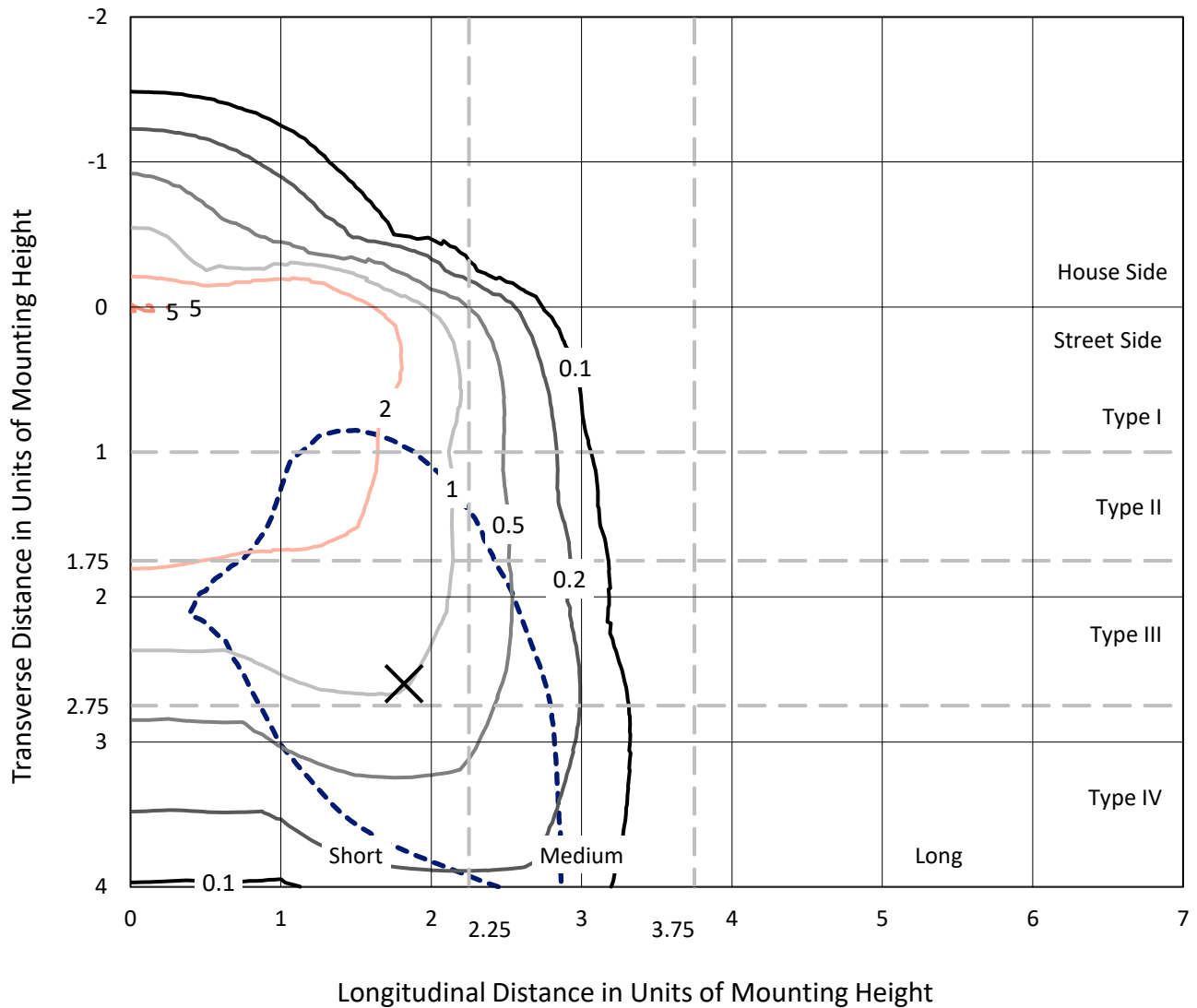
Lumens per Lamp: N/A  
Luminaire Lumens: 22621 lumens  
Efficiency: N/A  
Efficacy: 112.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 200.7  
Input Voltage (V): 120.0  
Input Current (Ain): 1.714  
Voltage Rise (V): NR  
Power Factor: 0.994  
Total Harmonic Distortion (THDi): 9.472  
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

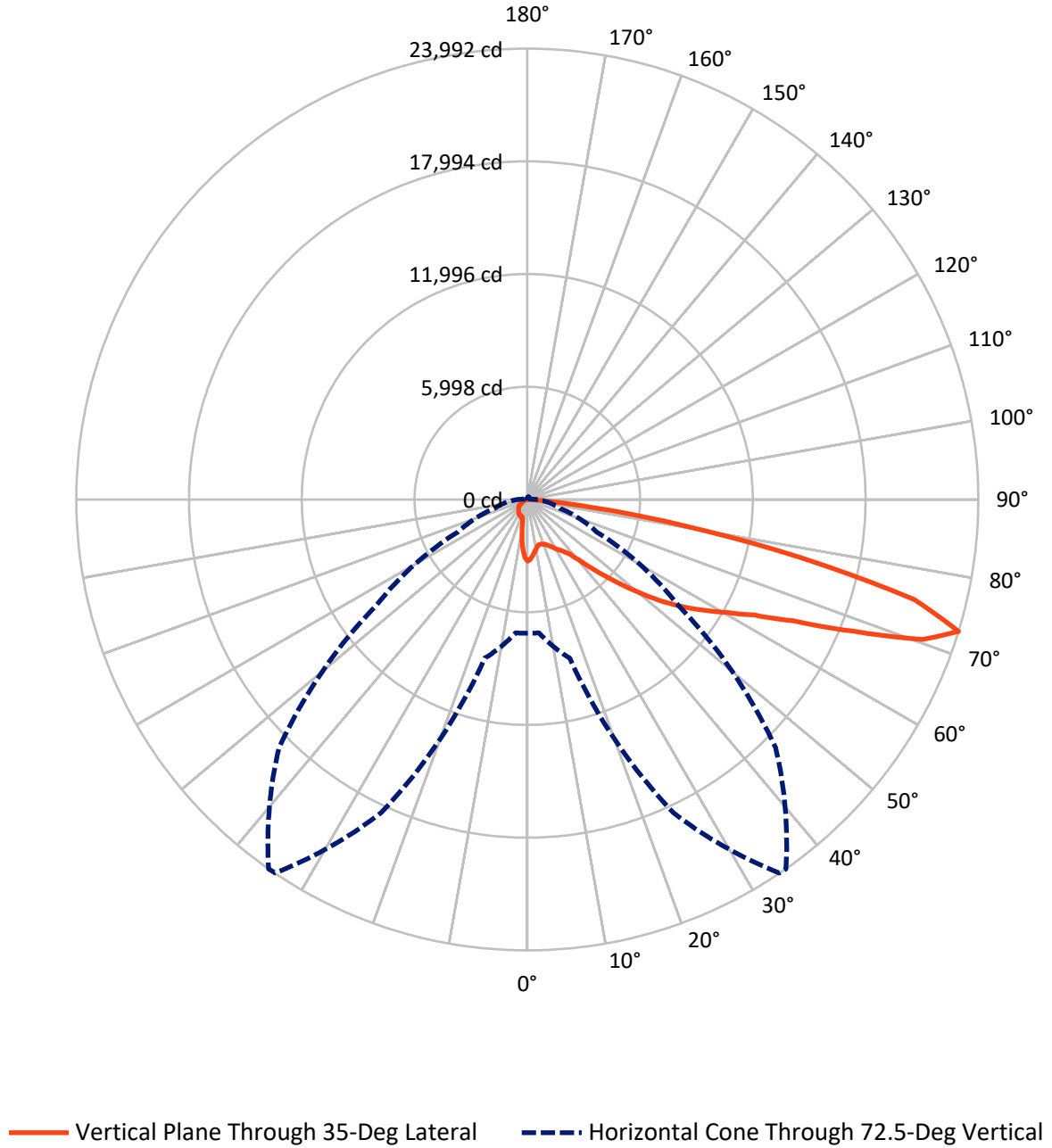
✕ Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	2545.9	0.0	2545.9
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	20075.1	0.0	20075.1
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	22621.0	0.0	22621.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	269.4	1.2
10°-20°	630.2	2.8
20°-30°	1023.8	4.5
30°-40°	1708.2	7.6
40°-50°	3232.0	14.3
50°-60°	5135.7	22.7
60°-70°	6353.2	28.1
70°-80°	3949.2	17.5
80°-90°	319.2	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°	22621.0	100.0
0°-180°	22621.0	100.0

**Coefficient of Utilization**



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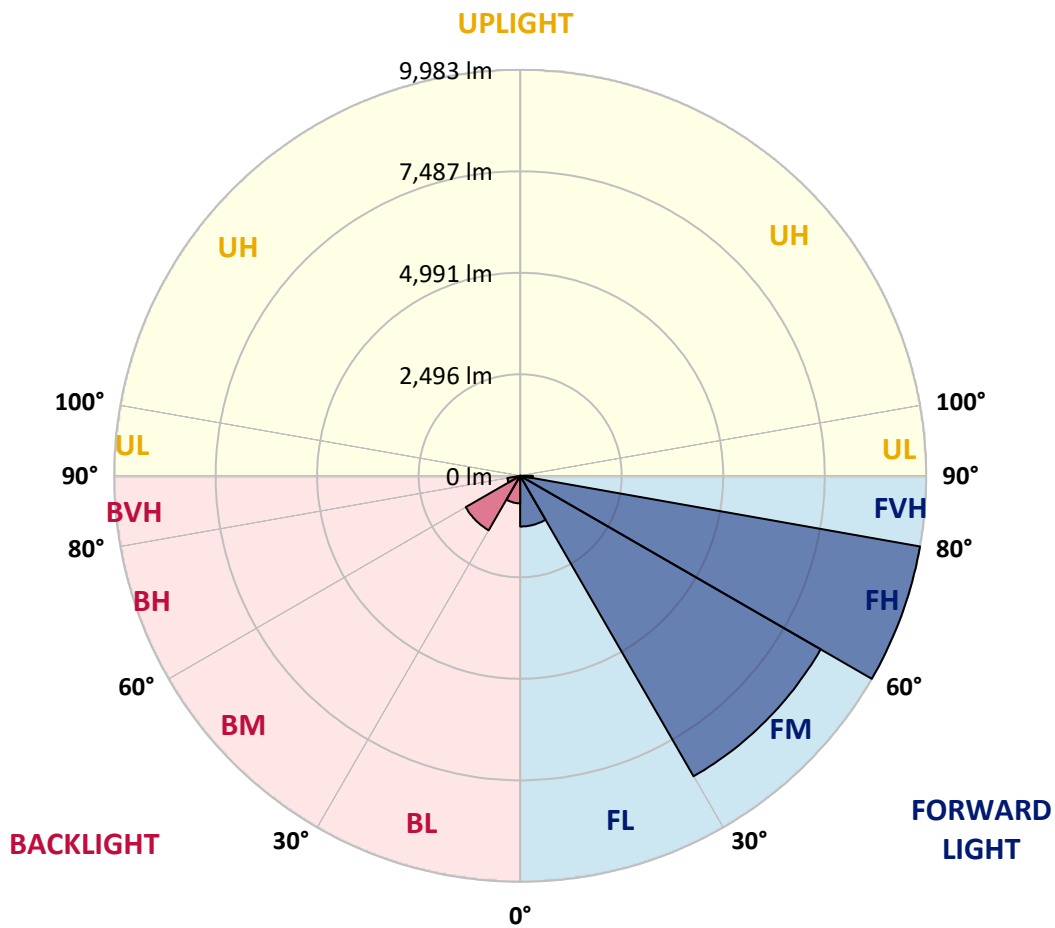
CATALOG NUMBER: NAV-SB4C-730-U-T4FT-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1247.0	5.5			
FM (30°-60°)	8530.4	37.7			
FH (60°-80°)	9982.9	44.1			G4/12000
FVH (80°-90°)	314.8	1.4			G3/500
BL (0°-30°)	676.5	3.0	B2/1000		
BM (30°-60°)	1545.6	6.8	B2/2500		
BH (60°-80°)	319.5	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°	3278.5	3278.5	3278.5	3278.5	3278.5	3278.5	3278.5	3278.5	3278.5	3278.5	3278.5
2.5°	3132.7	3159.2	3164.2	3172.5	3172.5	3182.4	3199.0	3222.2	3260.3	3280.2	3293.5
5°	2887.4	2907.3	2932.1	2952.0	2990.1	2995.1	3059.8	3122.7	3210.6	3276.9	3323.3
7.5°	2640.4	2663.6	2696.8	2744.8	2794.6	2809.5	2907.3	3013.3	3152.6	3276.9	3354.8
10°	2466.4	2468.0	2497.9	2545.9	2625.5	2643.7	2763.1	2913.9	3087.9	3257.0	3384.6
12.5°	2368.6	2380.2	2393.4	2429.9	2506.1	2517.7	2645.4	2822.7	3023.3	3245.4	3419.4
15°	2368.6	2376.9	2385.1	2403.4	2464.7	2474.7	2587.4	2764.7	2990.1	3250.4	3475.8
17.5°	2393.4	2406.7	2400.1	2421.6	2486.3	2492.9	2592.3	2748.1	2988.5	3281.9	3562.0
20°	2453.1	2463.0	2449.8	2463.0	2527.7	2541.0	2643.7	2779.6	3016.7	3336.6	3669.7
22.5°	2547.6	2552.6	2521.1	2531.0	2597.3	2613.9	2733.2	2869.1	3084.6	3424.4	3813.9
25°	2666.9	2676.9	2628.8	2640.4	2703.4	2723.3	2860.9	3003.4	3192.4	3545.4	3997.9
27.5°	2804.5	2809.5	2768.0	2766.4	2847.6	2875.8	3015.0	3169.1	3336.6	3697.9	4229.9
30°	2962.0	2976.9	2937.1	2930.5	3033.2	3056.4	3194.0	3373.0	3548.7	3926.6	4559.8
32.5°	3086.3	3097.9	3074.7	3091.2	3195.7	3213.9	3411.1	3661.4	3881.9	4251.5	5009.0
35°	3265.3	3271.9	3218.9	3248.7	3368.0	3414.5	3707.8	4065.9	4301.2	4659.2	5595.7
37.5°	3913.4	3913.4	3687.9	3540.4	3654.8	3696.2	4113.9	4574.7	4818.4	5206.2	6335.0
40°	4810.1	4795.2	4465.3	4163.6	4148.7	4229.9	4692.4	5216.2	5486.3	5862.6	7167.0
42.5°	5766.5	5743.2	5294.1	4995.7	4946.0	4974.2	5360.4	6006.8	6281.9	6663.2	8062.1
45°	6615.1	6608.5	6197.4	5796.3	5706.8	5796.3	6194.1	6931.7	7128.9	7530.0	8955.5
47.5°	7326.2	7326.2	7026.2	6764.3	6717.9	6770.9	7322.8	7957.7	7939.4	8453.3	9825.7
50°	8145.0	8138.3	7853.3	7740.5	7788.6	7863.2	8622.3	9038.4	8778.1	9359.9	10603.0
52.5°	8718.5	8758.2	8660.5	8642.2	8887.5	9016.8	9941.7	10095.9	9529.0	10220.2	11184.8
55°	9172.6	9219.0	9331.7	9459.4	9931.8	10100.8	11219.6	11098.6	10157.2	10966.0	11519.6
57.5°	9815.7	9749.4	9923.5	10175.4	10939.5	11143.4	12457.8	12045.1	10662.7	11571.0	11556.1
60°	10596.4	10606.4	10636.2	10954.4	11945.6	12207.5	13677.7	12940.1	10987.6	11942.3	11151.7
62.5°	11534.6	11549.5	11610.8	12099.8	13296.5	13543.5	14977.2	13672.7	11136.8	11837.9	10107.5
65°	11469.9	11532.9	12217.5	13889.9	15350.1	15593.8	16493.8	14186.6	10911.3	10883.2	8229.5
67.5°	10448.9	10551.7	11697.0	16028.1	18446.4	18718.2	18327.0	14287.7	9938.4	8463.2	5368.7
70°	9109.6	9146.1	10523.5	17950.8	22031.5	22306.7	19967.9	13175.5	7541.6	4720.6	2405.0
72.5°	7114.0	7122.3	8738.4	18396.6	23977.4	23992.4	18680.1	9780.9	4055.9	1813.3	835.4
75°	5081.9	5032.2	5852.6	14919.2	21095.0	21264.1	14004.2	4588.0	1549.8	856.9	416.0
77.5°	2724.9	2779.6	3311.7	8847.8	14572.8	14861.2	7641.1	1322.7	789.0	583.4	275.1
80°	842.0	888.4	1357.5	4050.9	8254.4	8428.4	2832.7	588.4	550.3	416.0	180.7
82.5°	265.2	275.1	633.2	1702.3	3426.1	3505.6	820.5	333.2	376.3	275.1	106.1
85°	76.2	77.9	281.8	634.8	847.0	863.6	230.4	129.3	215.5	170.7	54.7
87.5°	8.3	26.5	106.1	106.1	74.6	72.9	24.9	28.2	61.3	21.5	9.9
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°	3278.5	3278.5	3278.5	3278.5	3278.5	3278.5	3278.5	3278.5	3278.5	3278.5	3278.5
2.5°	3285.2	3286.8	3265.3	3228.8	3189.0	3155.9	3114.4	3081.3	3058.1	3051.5	3063.1
5°	3308.4	3296.8	3235.4	3124.4	2991.8	2877.4	2749.8	2648.7	2582.4	2554.2	2564.2
7.5°	3343.2	3310.0	3175.8	2957.0	2703.4	2478.0	2249.2	2071.9	1959.2	1902.8	1911.1
10°	3373.0	3306.7	3076.3	2715.0	2327.1	1985.7	1677.4	1463.6	1344.2	1287.9	1289.5
12.5°	3401.2	3305.1	2947.0	2428.2	1902.8	1485.1	1198.4	1092.3	1059.1	1047.5	1044.2
15°	3454.2	3310.0	2784.6	2100.1	1480.2	1122.1	1017.7	1016.0	1022.7	1019.4	1017.7
17.5°	3527.2	3315.0	2600.6	1752.0	1142.0	989.5	984.6	999.5	1009.4	1004.4	1002.8
20°	3621.6	3334.9	2405.0	1407.2	981.2	956.4	968.0	981.2	989.5	981.2	979.6
22.5°	3754.2	3369.7	2191.2	1130.4	929.9	936.5	946.4	961.4	969.6	958.0	956.4
25°	3916.7	3424.4	1980.7	982.9	905.0	913.3	928.2	944.8	954.7	943.1	941.5
27.5°	4127.2	3512.2	1786.8	949.7	880.1	885.1	906.7	931.5	944.8	929.9	929.9
30°	4432.2	3656.5	1619.4	964.7	865.2	853.6	883.4	918.3	933.2	919.9	918.3
32.5°	4836.6	3860.3	1516.6	987.9	858.6	817.1	845.3	890.1	914.9	906.7	906.7
35°	5367.0	4170.3	1476.8	1014.4	853.6	779.0	798.9	847.0	890.1	898.4	898.4
37.5°	6010.1	4601.2	1488.4	1026.0	838.7	747.5	757.5	798.9	855.3	881.8	888.4
40°	6741.1	5103.5	1554.7	1014.4	822.1	721.0	722.7	754.2	803.9	843.7	856.9
42.5°	7495.2	5690.2	1677.4	971.3	807.2	697.8	692.8	714.4	747.5	775.7	787.3
45°	8212.9	6293.5	1798.4	911.6	789.0	674.6	663.0	671.3	677.9	689.5	696.2
47.5°	8839.5	6717.9	1763.6	856.9	764.1	648.1	628.2	624.9	605.0	603.3	601.7
50°	9272.1	6810.7	1566.3	802.2	727.6	618.2	586.8	566.9	532.1	515.5	517.1
52.5°	9409.6	6444.4	1279.6	747.5	668.0	578.5	533.7	502.2	459.1	444.2	442.6
55°	9227.3	5726.7	1022.7	681.2	585.1	525.4	475.7	434.3	399.5	381.2	381.2
57.5°	8781.5	4813.4	808.9	603.3	497.3	465.8	416.0	374.6	344.8	326.5	323.2
60°	8042.2	3822.2	639.8	510.5	424.3	401.1	349.7	323.2	296.7	275.1	270.2
62.5°	6920.1	2728.3	502.2	404.4	354.7	328.2	298.4	278.5	247.0	217.1	212.2
65°	5400.1	1669.1	387.9	296.7	285.1	271.8	253.6	235.4	197.2	167.4	162.4
67.5°	3406.2	790.6	276.8	223.8	225.4	218.8	210.5	195.6	167.4	140.9	137.6
70°	1500.0	382.9	182.3	170.7	167.4	167.4	174.0	169.1	142.5	117.7	112.7
72.5°	510.5	205.5	135.9	129.3	121.0	119.3	145.9	140.9	114.4	91.2	86.2
75°	266.9	137.6	99.5	92.8	72.9	87.8	116.0	109.4	81.2	59.7	54.7
77.5°	174.0	97.8	68.0	59.7	41.4	58.0	86.2	76.2	48.1	29.8	26.5
80°	109.4	64.6	39.8	28.2	19.9	31.5	46.4	33.2	18.2	6.6	5.0
82.5°	58.0	33.2	14.9	9.9	8.3	9.9	11.6	8.3	3.3	0.0	0.0
85°	23.2	11.6	5.0	3.3	1.7	0.0	3.3	1.7	0.0	0.0	0.0
87.5°	8.3	1.7	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)