

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: P964547

Luminaire Tested: **NAV-SB3C-730-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964547
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-SB3C-730-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22764.2 lumens
Efficiency: N/A
Efficacy: 152.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

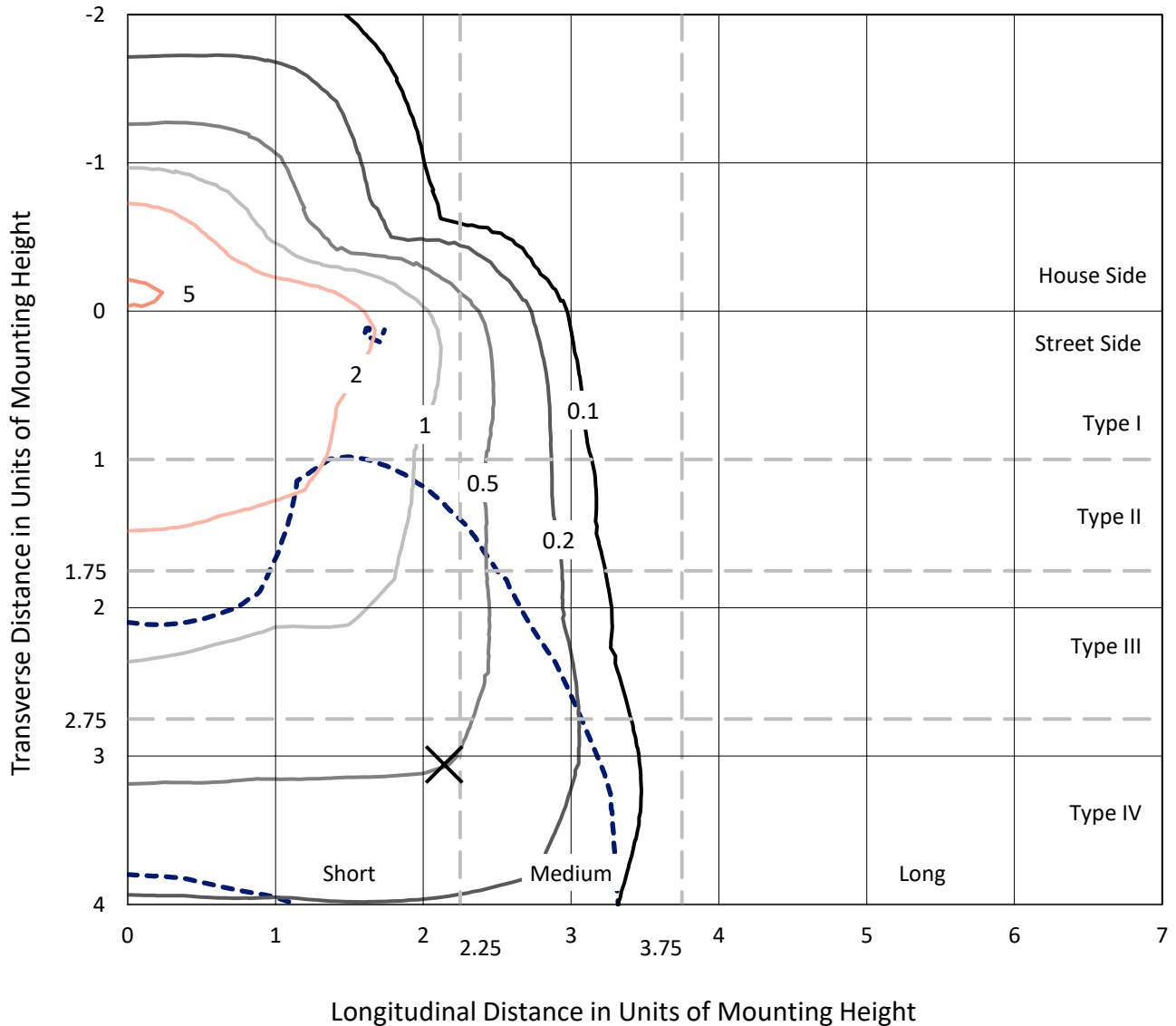
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P964547
 CATALOG NUMBER: NAV-SB3C-730-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

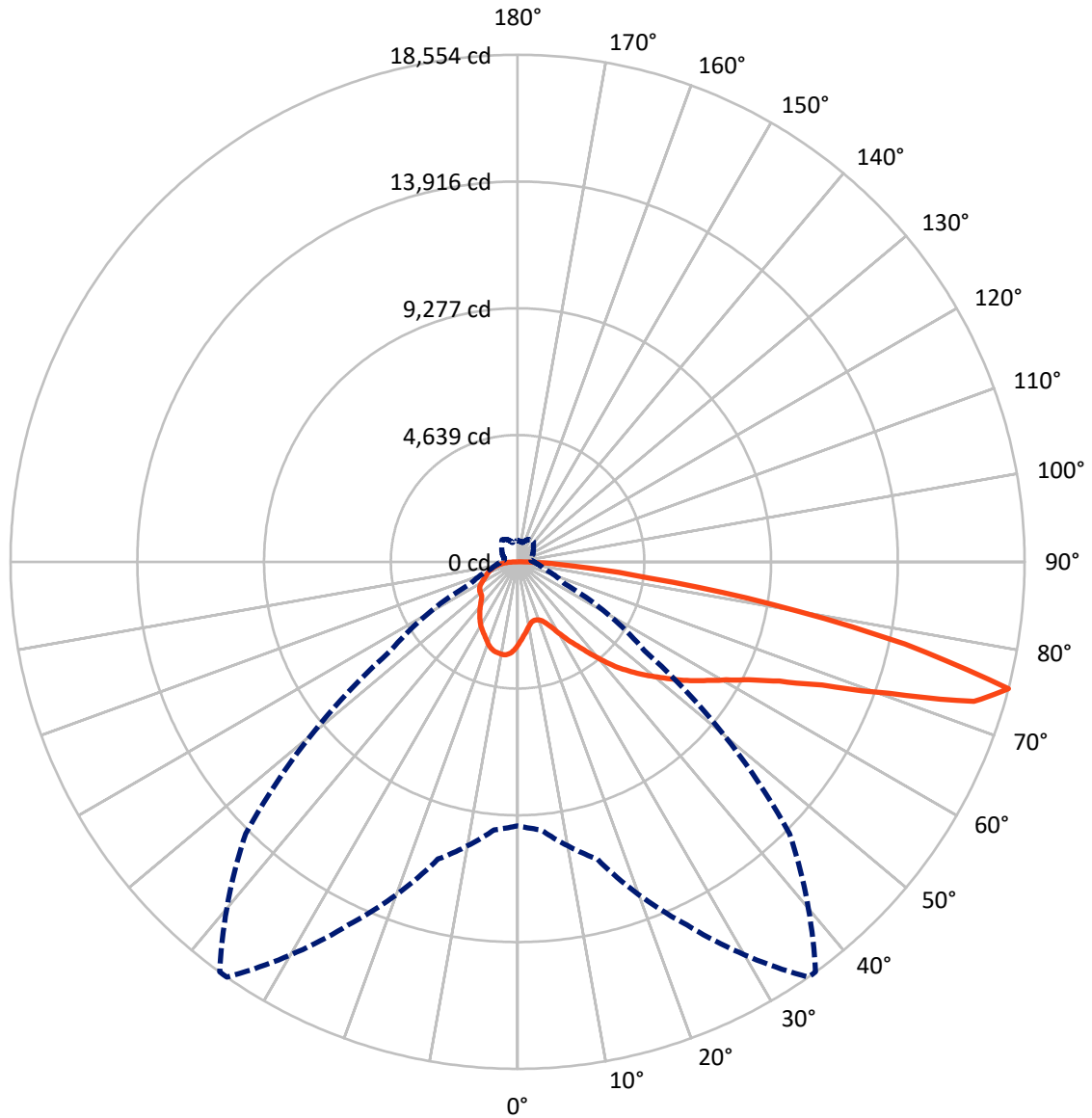
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P964547
CATALOG NUMBER: NAV-SB3C-730-U-T4FT

Luminous Intensity Polar Plot



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

REPORT NUMBER: P964547
 CATALOG NUMBER: NAV-SB3C-730-U-T4FT

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5417.3	0.0	5417.3
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	17346.9	0.0	17346.9
	% Fixture	76.2	0.0	76.2
Total	Lumens	22764.2	0.0	22764.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.2	1.3
10°-20°	828.4	3.6
20°-30°	1391.2	6.1
30°-40°	2162.1	9.5
40°-50°	3209.1	14.1
50°-60°	4430.3	19.5
60°-70°	5375.0	23.6
70°-80°	4442.0	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°	22764.2	100.0
0°-180°	22764.2	100.0

Coefficient of Utilization

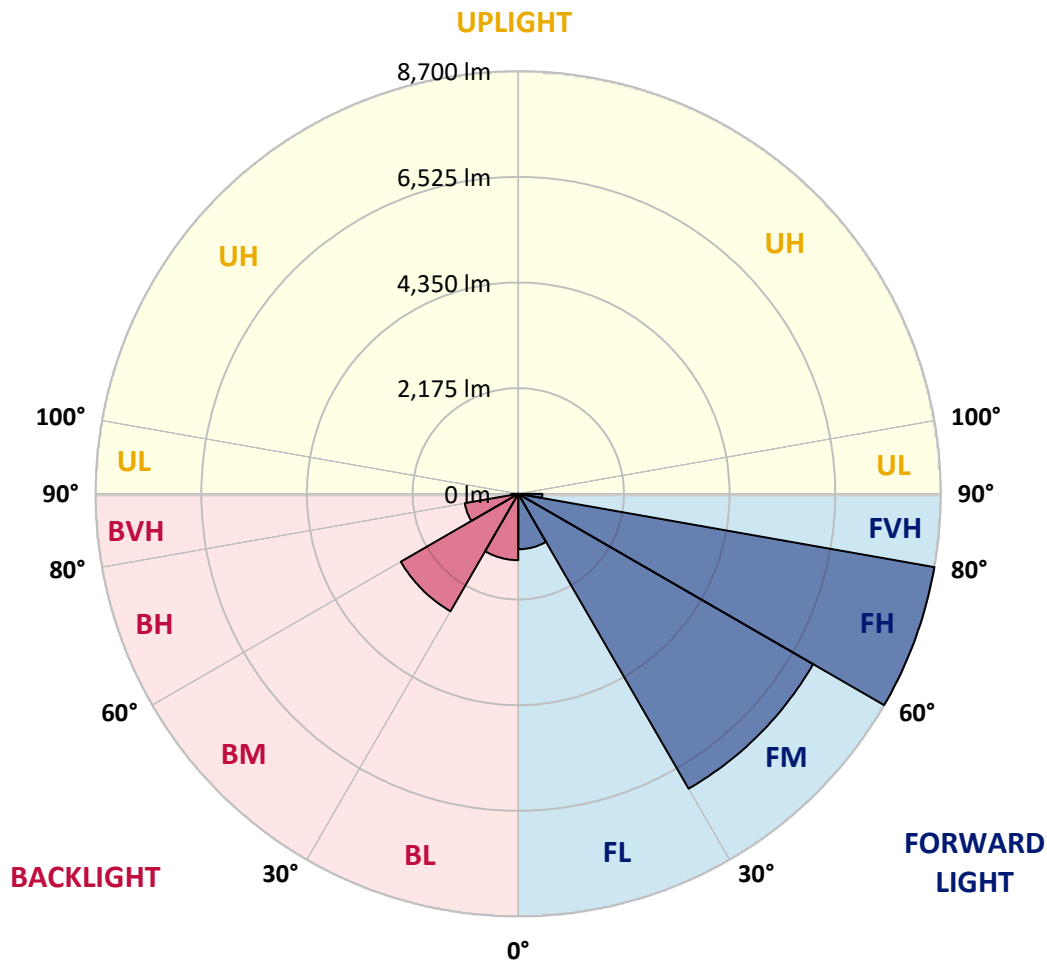


REPORT NUMBER: P964547
 CATALOG NUMBER: NAV-SB3C-730-U-T4FT

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°)	7010.2	30.8			
FH (60°-80°)	8700.2	38.2			G4/12000
FVH (80°-90°)	495.0	2.2			G3/500
BL (0°-30°)	1365.2	6.0	B3/2500		
BM (30°-60°)	2791.3	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



REPORT NUMBER: P964547
 CATALOG NUMBER: NAV-SB3C-730-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3033.5	3033.5	3033.5	3033.5	3033.5	3033.5	3033.5	3033.5	3033.5	3033.5	3033.5
2.5°	2797.2	2814.4	2821.8	2818.1	2836.6	2834.1	2860.0	2891.9	2936.3	2979.4	3042.1
5°	2581.9	2600.3	2616.3	2631.1	2666.7	2677.8	2718.4	2780.0	2861.2	2943.7	3047.0
7.5°	2381.3	2397.3	2421.9	2448.9	2509.2	2520.3	2588.0	2684.0	2797.2	2917.8	3060.5
10°	2217.6	2233.6	2259.4	2290.2	2365.3	2378.8	2464.9	2592.9	2740.6	2893.2	3075.3
12.5°	2147.5	2152.4	2167.2	2197.9	2263.1	2271.7	2366.5	2512.9	2685.2	2874.7	3097.4
15°	2143.8	2153.6	2154.9	2170.8	2225.0	2228.7	2316.0	2461.2	2650.8	2871.0	3130.7
17.5°	2180.7	2188.1	2177.0	2186.8	2232.3	2238.5	2307.4	2436.6	2639.7	2887.0	3187.3
20°	2279.1	2285.2	2252.0	2238.5	2271.7	2276.6	2344.4	2452.6	2650.8	2920.2	3264.8
22.5°	2488.3	2492.0	2410.8	2355.4	2357.9	2360.4	2419.4	2517.8	2693.8	2980.6	3363.3
25°	2814.4	2812.0	2682.7	2575.7	2514.1	2500.6	2540.1	2623.7	2766.5	3060.5	3490.0
27.5°	3196.0	3177.5	3048.2	2888.2	2754.2	2734.5	2725.8	2761.6	2869.8	3166.4	3645.1
30°	3626.7	3609.4	3470.3	3261.1	3075.3	3043.3	2962.1	2943.7	3023.6	3310.3	3860.5
32.5°	4099.2	4088.1	3922.0	3668.5	3419.9	3383.0	3246.4	3197.2	3259.9	3528.2	4160.8
35°	4495.4	4485.6	4347.7	4086.9	3783.0	3737.4	3598.4	3543.0	3575.0	3807.6	4553.4
37.5°	4853.6	4848.7	4730.5	4525.0	4211.2	4155.9	3999.6	3981.1	3975.0	4175.5	5029.6
40°	5185.9	5173.6	5050.5	4942.1	4709.6	4659.1	4521.3	4505.3	4458.5	4628.4	5568.6
42.5°	5553.8	5521.8	5343.3	5292.9	5230.2	5188.3	5105.8	5108.3	5005.0	5139.0	6139.5
45°	5854.1	5835.6	5652.3	5622.7	5690.4	5673.2	5744.5	5763.0	5562.4	5674.4	6732.7
47.5°	6176.5	6159.2	6004.2	5983.3	6166.6	6171.6	6423.9	6430.0	6106.3	6230.7	7327.1
50°	6573.9	6549.3	6395.6	6421.4	6626.9	6645.4	7106.8	7065.0	6607.3	6795.5	7916.6
52.5°	6836.1	6850.9	6817.7	6859.5	7140.0	7157.3	7778.7	7671.7	7103.1	7352.9	8495.0
55°	7029.3	7058.9	7162.2	7258.2	7681.6	7698.8	8412.6	8248.9	7514.2	7869.8	9039.0
57.5°	7277.9	7236.1	7429.3	7616.4	8196.0	8241.5	9029.1	8805.2	7878.5	8315.3	9411.9
60°	7634.8	7605.3	7755.4	8032.3	8771.8	8844.5	9681.3	9306.0	8145.5	8668.5	9484.4
62.5°	8358.4	8284.6	8307.9	8552.8	9498.0	9593.9	10417.2	9742.8	8278.4	8806.4	9095.5
65°	9440.1	9313.4	9195.2	9365.0	10520.6	10615.3	11247.9	10086.2	8229.2	8539.3	8063.1
67.5°	10802.4	10676.9	10531.7	10691.7	12026.8	12102.0	12273.0	10279.4	7841.6	7510.5	6238.0
70°	11926.0	11879.2	12052.8	12711.1	14432.7	14435.2	13587.3	10119.4	6779.6	5324.9	3609.4
72.5°	11777.0	11748.8	12663.2	14698.6	17465.0	17399.8	14831.4	8908.5	4566.9	2402.2	1352.5
75°	9661.6	9845.0	11261.5	14662.8	18554.1	18545.5	14069.8	5663.3	1889.0	995.6	698.9
77.5°	5181.0	5471.3	7311.1	10825.8	14484.5	14702.3	9891.8	1981.3	811.0	637.4	483.6
80°	1689.6	1943.2	2914.1	5511.9	9411.9	9371.2	4239.5	777.8	555.0	451.6	334.8
82.5°	717.5	747.0	1302.0	2602.8	4830.2	4755.2	1350.0	446.7	390.1	308.9	206.7
85°	280.5	313.9	574.7	1203.6	2092.0	2046.5	487.3	221.5	249.8	201.8	123.1
87.5°	92.2	112.0	205.5	412.3	651.0	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

REPORT NUMBER: P964547
 CATALOG NUMBER: NAV-SB3C-730-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3033.5	3033.5	3033.5	3033.5	3033.5	3033.5	3033.5	3033.5	3033.5	3033.5	3033.5
2.5°	3059.3	3079.0	3102.4	3136.9	3166.4	3191.0	3216.9	3232.8	3239.0	3257.4	3256.2
5°	3081.5	3124.5	3182.4	3239.0	3294.4	3327.6	3357.2	3371.9	3385.5	3395.3	3397.8
7.5°	3118.4	3173.8	3264.8	3338.7	3385.5	3412.5	3432.2	3427.3	3432.2	3434.7	3438.4
10°	3150.4	3227.9	3336.2	3406.4	3442.1	3443.3	3438.4	3421.1	3412.5	3413.8	3416.2
12.5°	3188.6	3274.7	3391.6	3450.7	3460.5	3433.4	3412.5	3383.0	3371.9	3367.0	3364.6
15°	3240.2	3338.7	3451.9	3474.0	3449.4	3415.0	3379.3	3331.2	3306.6	3287.0	3293.1
17.5°	3303.0	3411.3	3498.6	3482.6	3429.8	3373.2	3315.3	3242.7	3192.3	3171.4	3172.6
20°	3390.4	3487.6	3534.3	3464.2	3384.2	3298.0	3199.6	3111.0	3064.2	3043.3	3040.9
22.5°	3496.2	3589.8	3568.8	3432.2	3319.0	3181.2	3058.1	2992.9	2969.5	2954.8	2957.2
25°	3623.0	3702.9	3593.4	3385.5	3211.9	3026.1	2931.3	2910.4	2899.3	2888.2	2888.2
27.5°	3787.9	3830.9	3611.9	3316.5	3044.6	2861.2	2826.7	2830.4	2826.7	2808.3	2812.0
30°	4005.7	3997.1	3629.1	3204.6	2852.6	2712.3	2714.7	2730.7	2733.3	2720.9	2727.0
32.5°	4292.4	4205.1	3637.7	3059.3	2669.2	2581.9	2584.3	2601.6	2613.9	2592.9	2602.8
35°	4639.5	4447.5	3624.2	2877.2	2527.6	2457.5	2439.1	2444.0	2447.7	2428.0	2441.5
37.5°	5044.3	4719.4	3563.9	2675.4	2410.8	2335.8	2296.3	2263.1	2243.4	2225.0	2237.3
40°	5488.6	5016.0	3453.1	2478.4	2280.3	2206.5	2147.5	2084.6	2018.2	1993.6	2004.7
42.5°	5953.7	5321.2	3319.0	2290.2	2130.3	2069.9	2007.2	1916.0	1816.4	1766.0	1772.1
45°	6436.2	5633.8	3187.3	2104.3	1976.4	1950.6	1877.9	1768.4	1660.1	1596.1	1591.2
47.5°	6908.7	5929.1	2994.1	1917.3	1832.4	1860.7	1804.1	1703.1	1582.6	1481.6	1470.6
50°	7360.3	6206.1	2677.8	1727.8	1715.4	1833.6	1779.5	1634.3	1496.4	1367.2	1356.2
52.5°	7808.3	6430.0	2272.9	1555.5	1652.7	1826.2	1747.5	1587.5	1418.9	1283.5	1268.7
55°	8188.5	6545.6	1882.8	1407.8	1561.7	1763.5	1709.3	1532.2	1309.3	1165.4	1153.1
57.5°	8405.2	6452.2	1558.0	1262.6	1436.1	1660.1	1644.1	1414.0	1179.0	1068.2	1053.4
60°	8311.6	6073.1	1292.1	1135.9	1316.8	1548.2	1530.9	1297.0	1079.2	974.7	959.9
62.5°	7796.0	5350.7	1081.7	1025.1	1208.5	1433.7	1417.7	1207.2	1003.0	902.0	886.0
65°	6757.3	4352.8	918.1	932.9	1098.9	1295.8	1319.3	1132.2	942.7	844.2	828.2
67.5°	5153.8	3152.9	790.1	852.8	991.9	1160.5	1228.2	1078.0	892.2	798.7	783.9
70°	2937.5	1790.6	681.7	775.3	897.1	1034.9	1158.0	1034.9	838.0	760.6	750.7
72.5°	1113.8	822.0	589.5	697.7	806.1	929.2	1080.5	967.3	775.3	717.5	707.6
75°	594.4	500.8	495.9	606.7	701.4	825.7	983.3	900.8	728.6	758.1	782.7
77.5°	404.9	354.4	414.7	519.4	587.0	711.3	879.9	799.9	631.3	628.8	579.6
80°	280.5	251.0	337.2	418.4	454.1	598.1	767.9	686.6	514.4	479.9	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	97.2	161.2	183.4	187.1	322.5	498.4	445.5	323.7	271.9	274.4
87.5°	25.8	33.2	59.0	72.6	89.8	167.4	296.5	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)