

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: P884960

Luminaire Tested: **NAV-SB6A-735-U-T4FT-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P884960  
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-735-U-T4FT-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

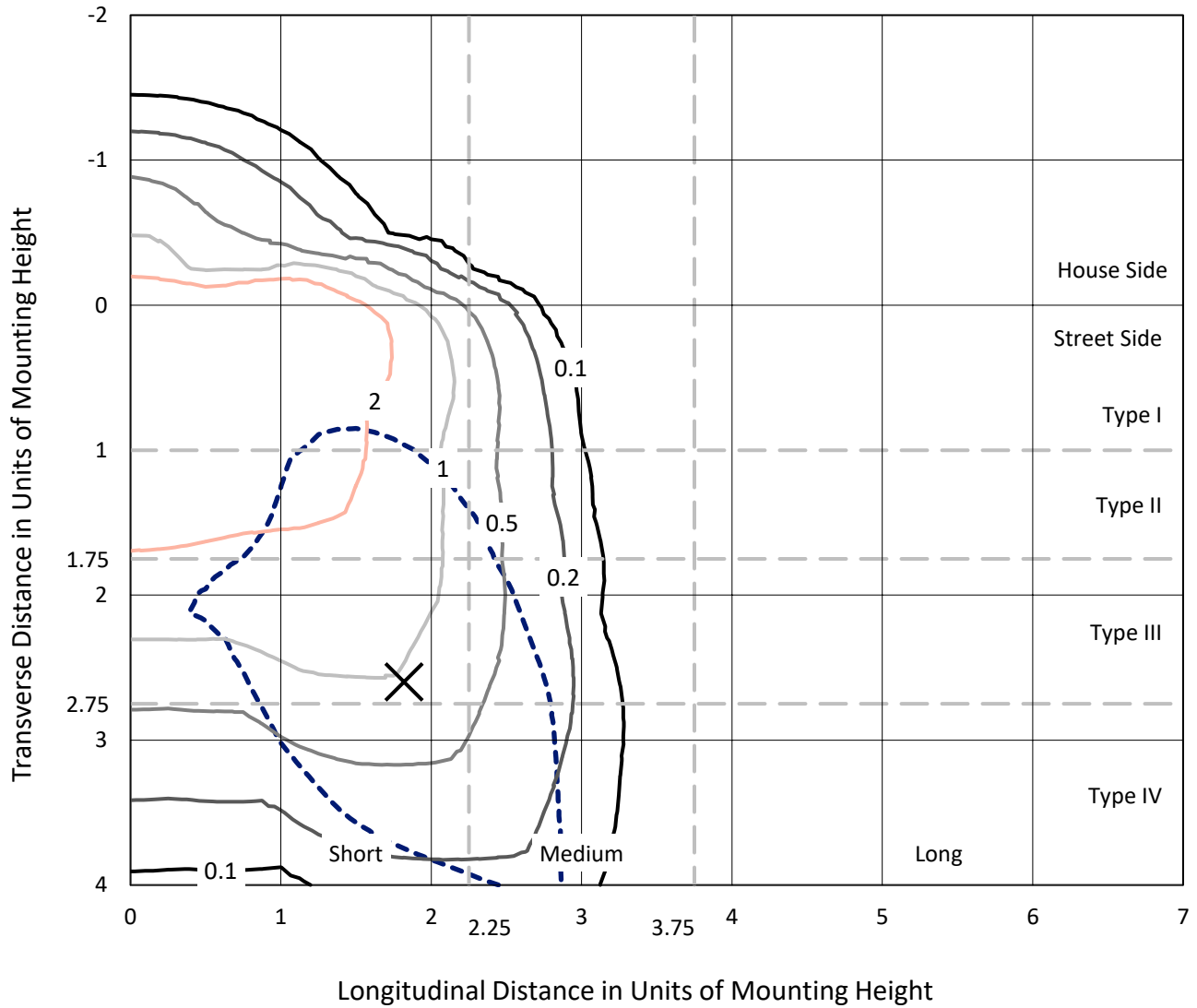
Lumens per Lamp: N/A  
Luminaire Lumens: 20615 lumens  
Efficiency: N/A  
Efficacy: 120.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 170.9  
Input Voltage (V): 120.0  
Input Current (Ain): 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

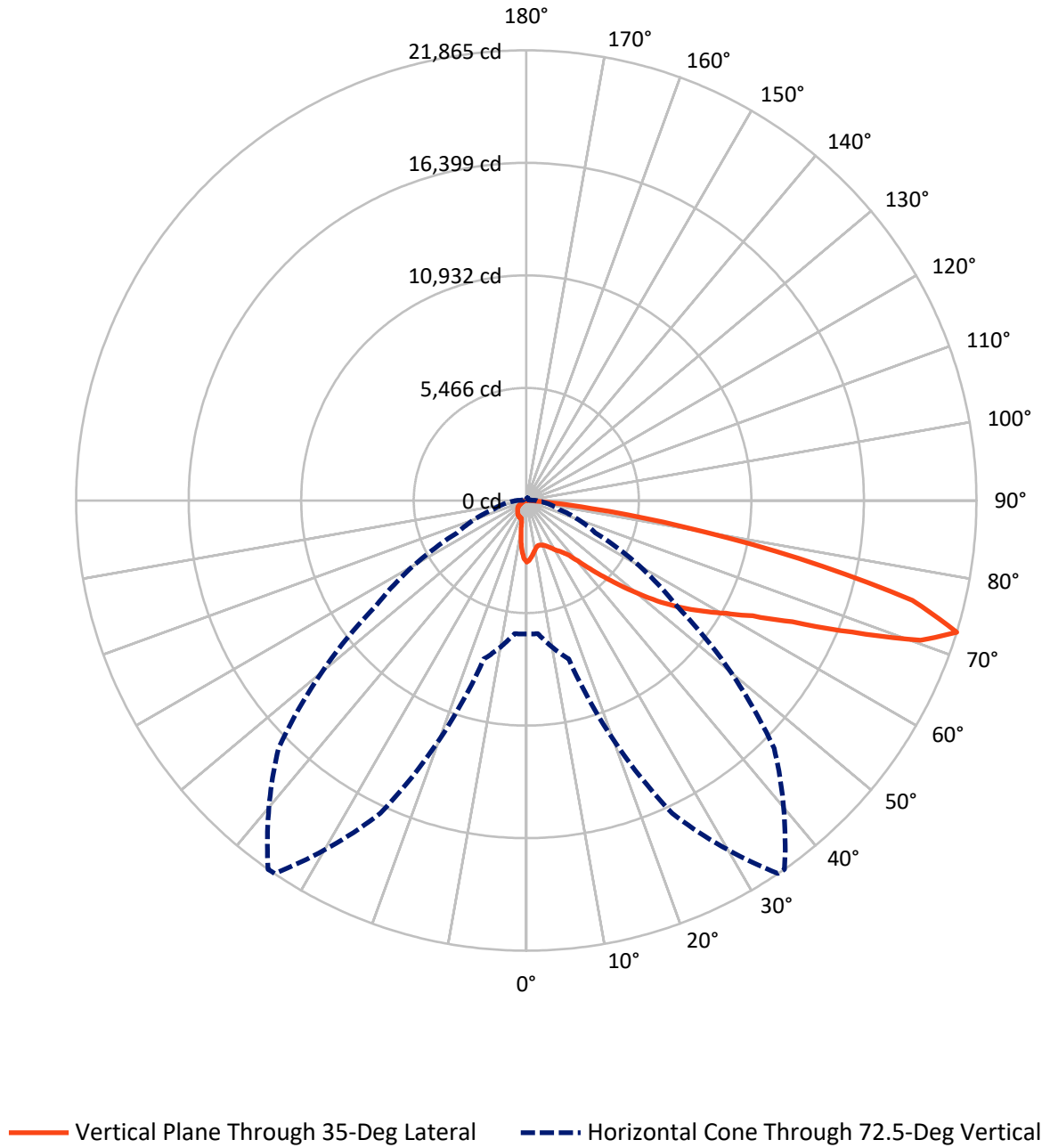
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	2320.1	0.0	2320.1
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	18294.9	0.0	18294.9
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	20615.0	0.0	20615.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	245.5	1.2
10°-20°	574.4	2.8
20°-30°	933.0	4.5
30°-40°	1556.8	7.6
40°-50°	2945.4	14.3
50°-60°	4680.3	22.7
60°-70°	5789.8	28.1
70°-80°	3599.0	17.5
80°-90°	290.9	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°	20615.0	100.0
0°-180°	20615.0	100.0

**Coefficient of Utilization**



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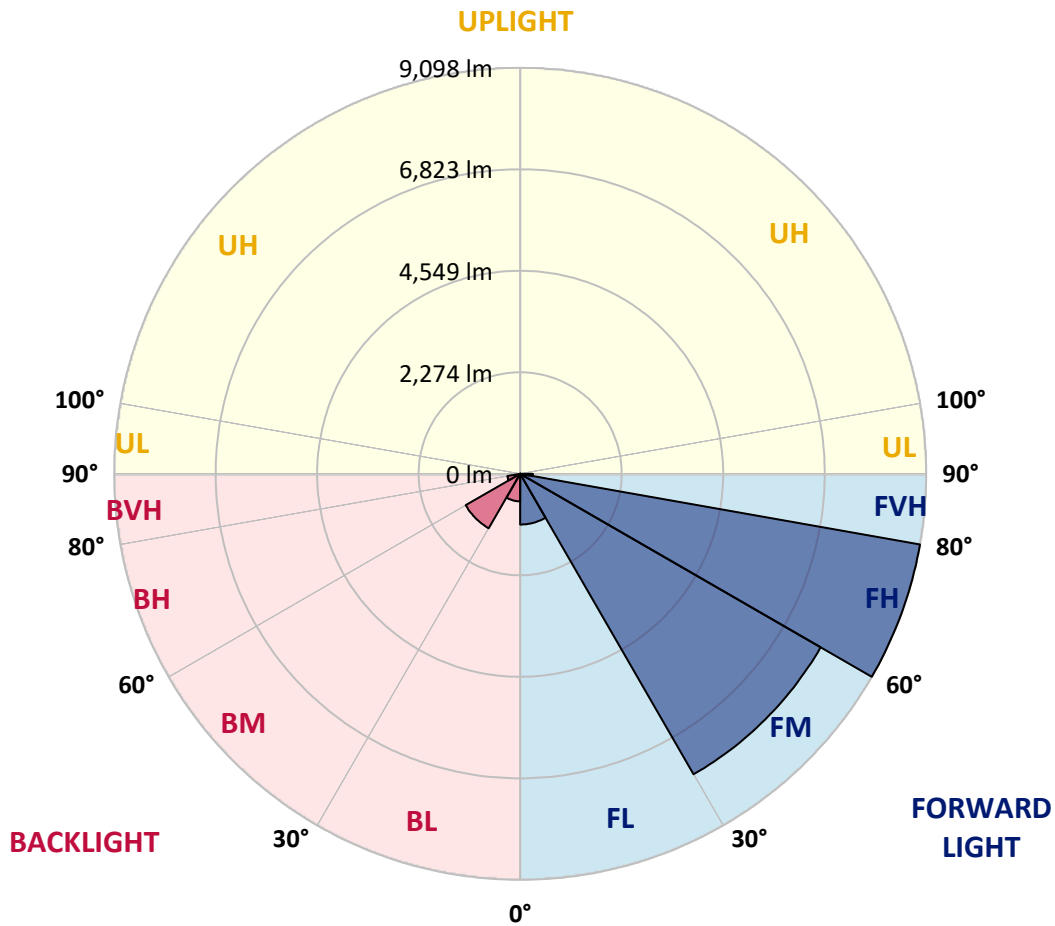
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1136.4	5.5			
FM (30°-60°)	7773.9	37.7			
FH (60°-80°)	9097.7	44.1			G4/12000
FVH (80°-90°)	286.9	1.4			G3/500
BL (0°-30°)	616.5	3.0	B2/1000		
BM (30°-60°)	1408.5	6.8	B2/2500		
BH (60°-80°)	291.1	1.4	B1/500		G1/500
BVH (80°-90°)	4.0	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°	2987.8	2987.8	2987.8	2987.8	2987.8	2987.8	2987.8	2987.8	2987.8	2987.8	2987.8
2.5°	2854.9	2879.0	2883.6	2891.1	2891.1	2900.2	2915.3	2936.4	2971.2	2989.3	3001.4
5°	2631.3	2649.4	2672.1	2690.2	2725.0	2729.5	2788.4	2845.8	2925.9	2986.3	3028.6
7.5°	2406.3	2427.4	2457.6	2501.4	2546.7	2560.3	2649.4	2746.1	2873.0	2986.3	3057.3
10°	2247.7	2249.2	2276.4	2320.2	2392.7	2409.3	2518.0	2655.5	2814.1	2968.2	3084.5
12.5°	2158.5	2169.1	2181.2	2214.4	2283.9	2294.5	2410.8	2572.4	2755.2	2957.6	3116.2
15°	2158.5	2166.1	2173.6	2190.3	2246.1	2255.2	2357.9	2519.5	2725.0	2962.1	3167.6
17.5°	2181.2	2193.3	2187.2	2206.9	2265.8	2271.8	2362.5	2504.4	2723.5	2990.8	3246.1
20°	2235.6	2244.6	2232.5	2244.6	2303.5	2315.6	2409.3	2533.1	2749.1	3040.7	3344.3
22.5°	2321.7	2326.2	2297.5	2306.6	2367.0	2382.1	2490.8	2614.7	2811.1	3120.7	3475.7
25°	2430.4	2439.5	2395.7	2406.3	2463.7	2481.8	2607.2	2737.1	2909.3	3231.0	3643.4
27.5°	2555.8	2560.3	2522.6	2521.1	2595.1	2620.7	2747.6	2888.1	3040.7	3370.0	3854.8
30°	2699.3	2712.9	2676.6	2670.6	2764.2	2785.4	2910.8	3073.9	3234.0	3578.4	4155.4
32.5°	2812.6	2823.2	2802.0	2817.1	2912.3	2928.9	3108.6	3336.7	3537.6	3874.5	4564.8
35°	2975.7	2981.8	2933.4	2960.6	3069.4	3111.7	3379.0	3705.3	3919.8	4246.1	5099.5
37.5°	3566.3	3566.3	3360.9	3226.5	3330.7	3368.5	3749.1	4169.0	4391.1	4744.5	5773.2
40°	4383.5	4369.9	4069.3	3794.4	3780.8	3854.8	4276.3	4753.6	4999.8	5342.7	6531.5
42.5°	5255.1	5233.9	4824.6	4552.7	4507.4	4533.1	4885.0	5474.1	5724.9	6072.3	7347.2
45°	6028.5	6022.4	5647.8	5282.3	5200.7	5282.3	5644.8	6317.0	6496.7	6862.3	8161.3
47.5°	6676.5	6676.5	6403.1	6164.4	6122.1	6170.5	6673.5	7252.0	7235.4	7703.6	8954.4
50°	7422.7	7416.6	7156.8	7054.1	7097.9	7165.9	7857.7	8236.9	7999.7	8529.9	9662.8
52.5°	7945.3	7981.6	7892.5	7875.8	8099.4	8217.2	9060.1	9200.6	8684.0	9313.9	10193.0
55°	8359.2	8401.5	8504.2	8620.5	9051.0	9205.1	10224.7	10114.4	9256.5	9993.6	10498.1
57.5°	8945.3	8884.9	9043.5	9273.1	9969.4	10155.2	11353.1	10976.9	9717.2	10544.9	10531.3
60°	9656.7	9665.8	9693.0	9983.0	10886.3	11125.0	12464.8	11792.6	10013.2	10883.3	10162.8
62.5°	10511.7	10525.3	10581.2	11026.8	12117.4	12342.4	13649.0	12460.3	10149.2	10788.1	9211.1
65°	10452.8	10510.2	11134.0	12658.1	13988.9	14211.0	15031.2	12928.5	9943.7	9918.1	7499.7
67.5°	9522.3	9616.0	10659.7	14606.7	16810.6	17058.3	16701.8	13020.7	9057.1	7712.7	4892.6
70°	8301.8	8335.0	9590.3	16358.9	20077.8	20328.6	18197.2	12007.1	6872.9	4302.0	2191.8
72.5°	6483.1	6490.7	7963.5	16765.2	21851.2	21864.7	17023.5	8913.6	3696.2	1652.5	761.3
75°	4631.2	4585.9	5333.6	13596.2	19224.4	19378.4	12762.4	4181.1	1412.3	780.9	379.1
77.5°	2483.3	2533.1	3018.0	8063.1	13280.5	13543.3	6963.5	1205.4	719.0	531.7	250.7
80°	767.3	809.6	1237.1	3691.7	7522.4	7681.0	2581.5	536.2	501.5	379.1	164.6
82.5°	241.7	250.7	577.0	1551.3	3122.2	3194.7	747.7	303.6	342.9	250.7	96.7
85°	69.5	71.0	256.8	578.5	771.9	787.0	210.0	117.8	196.4	155.6	49.8
87.5°	7.6	24.2	96.7	96.7	68.0	66.5	22.7	25.7	55.9	19.6	9.1
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°	2987.8	2987.8	2987.8	2987.8	2987.8	2987.8	2987.8	2987.8	2987.8	2987.8	2987.8
2.5°	2993.8	2995.4	2975.7	2942.5	2906.2	2876.0	2838.3	2808.1	2786.9	2780.9	2791.4
5°	3015.0	3004.4	2948.5	2847.3	2726.5	2622.3	2505.9	2413.8	2353.4	2327.7	2336.8
7.5°	3046.7	3016.5	2894.2	2694.8	2463.7	2258.2	2049.8	1888.1	1785.4	1734.1	1741.6
10°	3073.9	3013.5	2803.5	2474.2	2120.8	1809.6	1528.6	1333.8	1225.0	1173.7	1175.2
12.5°	3099.6	3012.0	2685.7	2212.9	1734.1	1353.4	1092.1	995.4	965.2	954.6	951.6
15°	3147.9	3016.5	2537.7	1913.8	1348.9	1022.6	927.5	925.9	932.0	929.0	927.5
17.5°	3214.4	3021.0	2370.0	1596.6	1040.7	901.8	897.2	910.8	919.9	915.4	913.9
20°	3300.5	3039.2	2191.8	1282.4	894.2	871.6	882.1	894.2	901.8	894.2	892.7
22.5°	3421.3	3070.9	1996.9	1030.2	847.4	853.4	862.5	876.1	883.7	873.1	871.6
25°	3569.4	3120.7	1805.1	895.7	824.7	832.3	845.9	861.0	870.1	859.5	858.0
27.5°	3761.2	3200.8	1628.3	865.5	802.1	806.6	826.3	848.9	861.0	847.4	847.4
30°	4039.1	3332.2	1475.8	879.1	788.5	777.9	805.1	836.8	850.4	838.3	836.8
32.5°	4407.7	3518.0	1382.1	900.3	782.4	744.7	770.4	811.1	833.8	826.3	826.3
35°	4891.1	3800.5	1345.9	924.4	777.9	709.9	728.1	771.9	811.1	818.7	818.7
37.5°	5477.1	4193.2	1356.4	935.0	764.3	681.2	690.3	728.1	779.4	803.6	809.6
40°	6143.3	4650.9	1416.9	924.4	749.2	657.1	658.6	687.3	732.6	768.9	780.9
42.5°	6830.6	5185.6	1528.6	885.2	735.6	635.9	631.4	651.0	681.2	706.9	717.5
45°	7484.6	5735.4	1638.9	830.8	719.0	614.8	604.2	611.8	617.8	628.4	634.4
47.5°	8055.6	6122.1	1607.2	780.9	696.3	590.6	572.5	569.5	551.3	549.8	548.3
50°	8449.8	6206.7	1427.4	731.1	663.1	563.4	534.7	516.6	484.9	469.8	471.3
52.5°	8575.2	5872.9	1166.1	681.2	608.7	527.2	486.4	457.7	418.4	404.8	403.3
55°	8409.1	5218.8	932.0	620.8	533.2	478.8	433.5	395.8	364.0	347.4	347.4
57.5°	8002.7	4386.5	737.1	549.8	453.2	424.5	379.1	341.4	314.2	297.6	294.6
60°	7329.0	3483.3	583.1	465.2	386.7	365.5	318.7	294.6	270.4	250.7	246.2
62.5°	6306.4	2486.3	457.7	368.6	323.3	299.1	271.9	253.8	225.1	197.9	193.3
65°	4921.3	1521.1	353.5	270.4	259.8	247.7	231.1	214.5	179.8	152.6	148.0
67.5°	3104.1	720.5	252.3	203.9	205.4	199.4	191.8	178.2	152.6	128.4	125.4
70°	1367.0	348.9	166.2	155.6	152.6	152.6	158.6	154.1	129.9	107.2	102.7
72.5°	465.2	187.3	123.9	117.8	110.3	108.8	132.9	128.4	104.2	83.1	78.5
75°	243.2	125.4	90.6	84.6	66.5	80.1	105.7	99.7	74.0	54.4	49.8
77.5°	158.6	89.1	61.9	54.4	37.8	52.9	78.5	69.5	43.8	27.2	24.2
80°	99.7	58.9	36.3	25.7	18.1	28.7	42.3	30.2	16.6	6.0	4.5
82.5°	52.9	30.2	13.6	9.1	7.6	9.1	10.6	7.6	3.0	0.0	0.0
85°	21.1	10.6	4.5	3.0	1.5	0.0	3.0	1.5	0.0	0.0	0.0
87.5°	7.6	1.5	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)