

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: P969940

Luminaire Tested: **NAV-SB6A-760-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969940
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-760-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22334.7 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 170.9
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



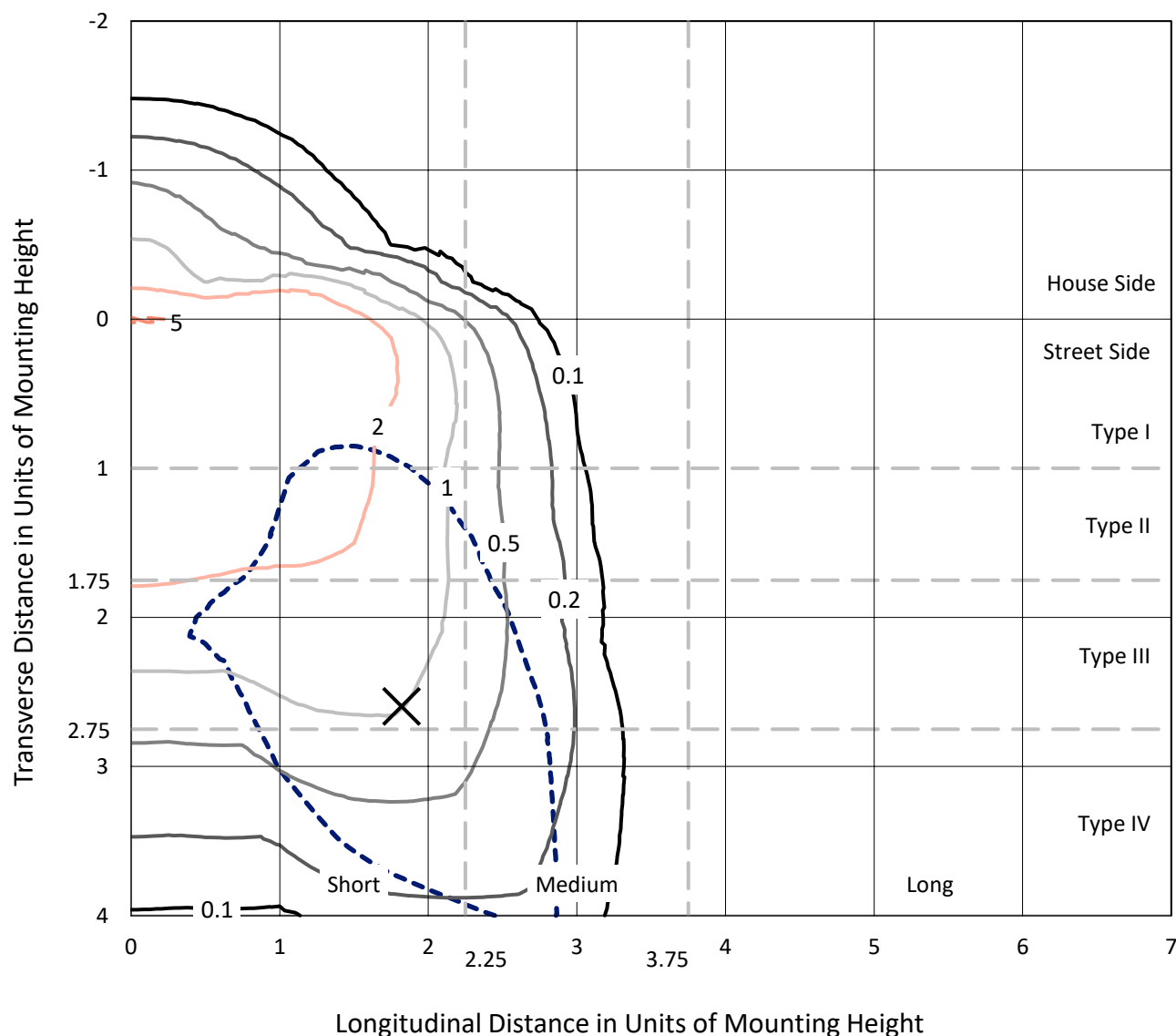
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

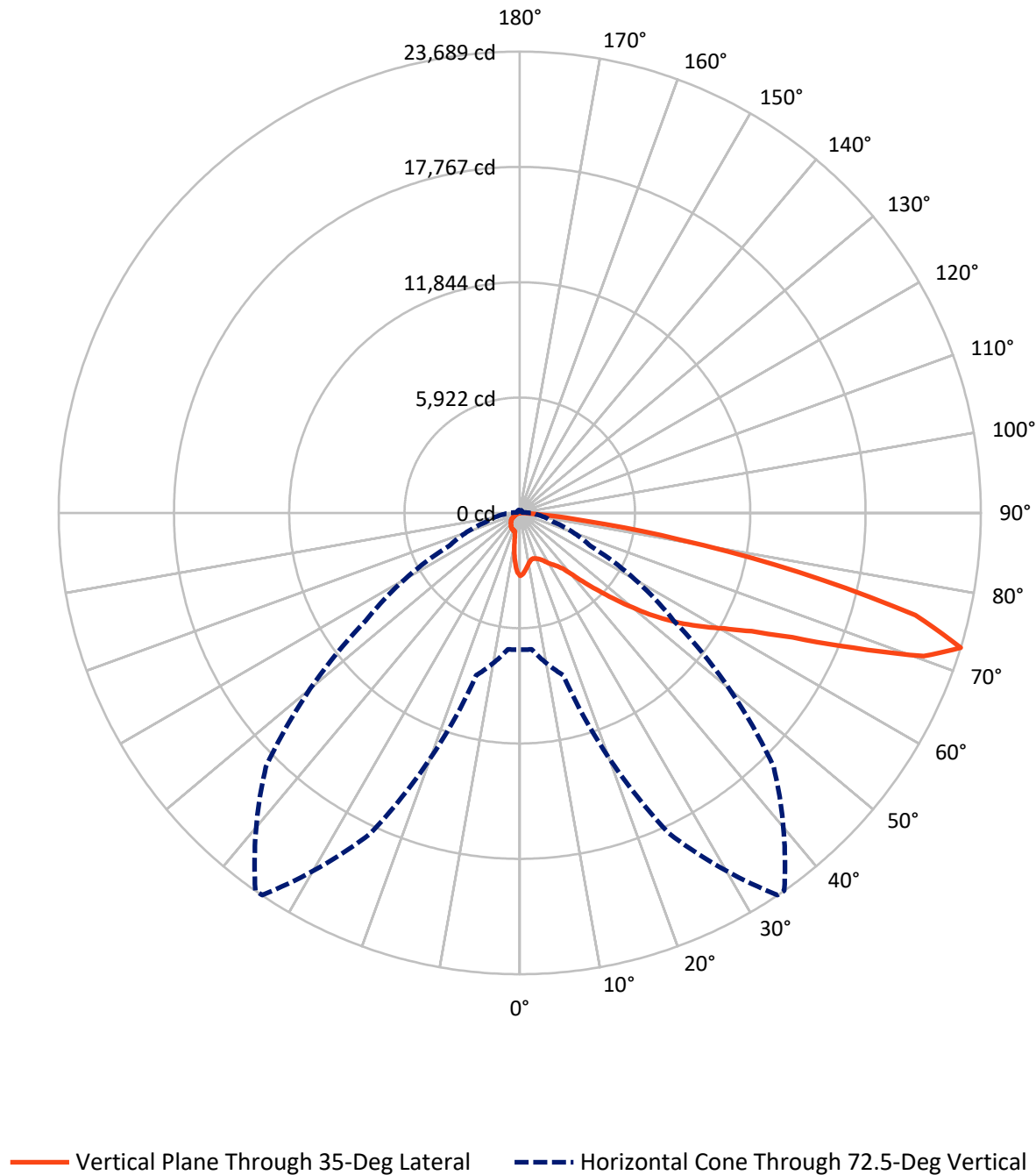


Based on 25 foot mounting height. Maximum calculated value = 5.2 fc

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	2513.7	0.0	2513.7
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	19821.1	0.0	19821.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	22334.7	0.0	22334.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.0	1.2
10°-20°	622.3	2.8
20°-30°	1010.9	4.5
30°-40°	1686.6	7.6
40°-50°	3191.1	14.3
50°-60°	5070.7	22.7
60°-70°	6272.8	28.1
70°-80°	3899.2	17.5
80°-90°	315.1	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°	22334.7	100.0
0°-180°	22334.7	100.0

Coefficient of Utilization



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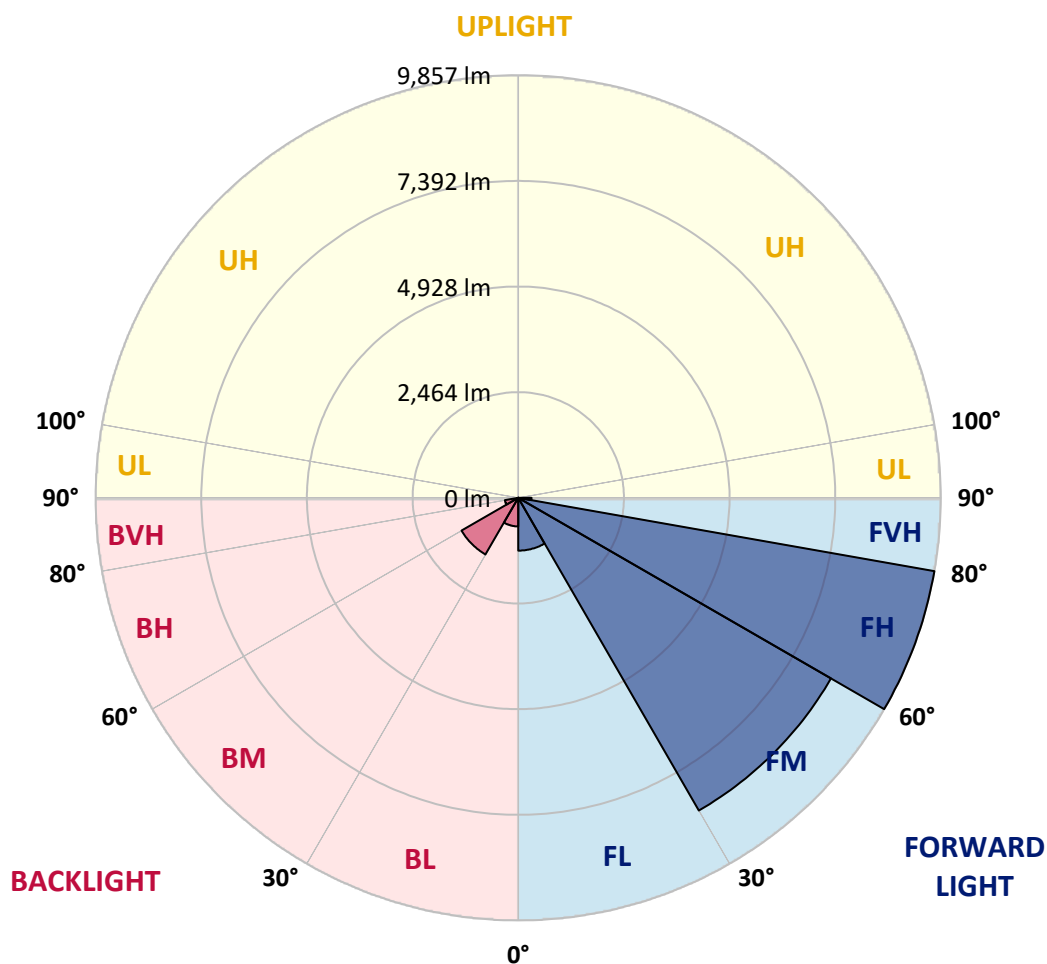
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1231.2	5.5			
FM	(30°-60°)	8422.4	37.7			
FH	(60°-80°)	9856.6	44.1			G4/12000
FVH	(80°-90°)	310.8	1.4			G3/500
BL	(0°-30°)	667.9	3.0	B2/1000		
BM	(30°-60°)	1526.0	6.8	B2/2500		
BH	(60°-80°)	315.4	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°	3237.1	3237.1	3237.1	3237.1	3237.1	3237.1	3237.1	3237.1	3237.1	3237.1	3237.1
2.5°	3093.0	3119.2	3124.1	3132.3	3132.3	3142.1	3158.5	3181.4	3219.0	3238.7	3251.8
5°	2850.8	2870.5	2895.0	2914.7	2952.3	2957.2	3021.0	3083.2	3169.9	3235.4	3281.2
7.5°	2607.0	2629.9	2662.6	2710.1	2759.2	2774.0	2870.5	2975.2	3112.7	3235.4	3312.3
10°	2435.2	2436.8	2466.3	2513.7	2592.2	2610.3	2728.1	2877.0	3048.9	3215.7	3341.8
12.5°	2338.6	2350.0	2363.1	2399.1	2474.5	2485.9	2611.9	2787.0	2985.0	3204.4	3376.1
15°	2338.6	2346.7	2354.9	2373.0	2433.6	2443.3	2554.6	2729.8	2952.3	3209.3	3431.8
17.5°	2363.1	2376.3	2369.7	2391.0	2454.8	2461.3	2559.5	2713.4	2950.7	3240.3	3516.9
20°	2422.1	2431.9	2418.8	2431.9	2495.7	2508.8	2610.3	2744.4	2978.4	3294.4	3623.3
22.5°	2515.4	2520.3	2489.1	2499.0	2564.4	2580.8	2698.6	2832.8	3045.6	3381.1	3765.6
25°	2633.2	2643.0	2595.5	2607.0	2669.2	2688.8	2824.7	2965.4	3152.0	3500.6	3947.3
27.5°	2769.0	2774.0	2733.0	2731.3	2811.6	2839.4	2976.8	3129.0	3294.4	3651.0	4176.5
30°	2924.4	2939.2	2899.9	2893.4	2994.8	3017.8	3153.6	3330.3	3503.8	3877.0	4502.1
32.5°	3047.2	3058.7	3035.7	3052.1	3155.3	3173.2	3367.9	3615.1	3832.8	4197.7	4945.6
35°	3223.9	3230.5	3178.1	3207.6	3325.4	3371.2	3660.9	4014.4	4246.8	4600.3	5525.0
37.5°	3863.8	3863.8	3641.3	3495.7	3608.5	3649.4	4061.9	4516.9	4757.4	5140.4	6254.9
40°	4749.2	4734.5	4408.8	4111.0	4096.2	4176.5	4633.0	5150.1	5416.9	5788.4	7076.4
42.5°	5693.5	5670.6	5227.1	4932.5	4883.4	4911.2	5292.5	5930.8	6202.5	6578.9	7960.0
45°	6531.4	6524.8	6118.9	5723.0	5634.5	5723.0	6115.7	6843.9	7038.7	7434.7	8842.2
47.5°	7233.4	7233.4	6937.2	6678.7	6632.9	6685.3	7230.1	7856.9	7839.0	8346.3	9701.3
50°	8041.9	8035.4	7753.9	7642.6	7690.1	7763.7	8513.2	8924.0	8667.1	9241.5	10468.8
52.5°	8608.2	8647.4	8550.9	8532.8	8775.0	8902.7	9815.9	9968.1	9408.4	10090.8	11043.2
55°	9056.6	9102.4	9213.6	9339.7	9806.1	9973.0	11077.7	10958.2	10028.6	10827.3	11373.9
57.5°	9691.5	9626.1	9797.9	10046.6	10801.0	11002.3	12300.1	11892.7	10527.8	11424.6	11409.9
60°	10462.4	10472.1	10501.6	10815.8	11794.5	12053.1	13504.7	12776.4	10848.6	11791.2	11010.6
62.5°	11388.6	11403.3	11463.9	11946.7	13128.2	13372.0	14787.7	13499.8	10995.8	11688.1	9979.5
65°	11324.8	11386.9	12062.8	13714.1	15155.9	15396.4	16285.1	14007.0	10773.3	10745.5	8125.4
67.5°	10316.7	10418.1	11549.0	15825.3	18212.9	18481.4	18095.1	14106.9	9812.6	8356.1	5300.7
70°	8994.4	9030.4	10390.3	17723.6	21752.8	22024.4	19715.3	13008.8	7446.2	4660.9	2374.6
72.5°	7024.0	7032.1	8627.7	18163.8	23674.0	23688.8	18443.6	9657.1	4004.6	1790.4	824.8
75°	5017.6	4968.5	5778.5	14730.4	20828.1	20995.1	13827.0	4529.9	1530.1	846.0	410.7
77.5°	2690.4	2744.4	3269.7	8735.8	14388.3	14673.1	7544.4	1306.0	779.0	576.0	271.6
80°	831.4	877.2	1340.3	3999.7	8149.9	8321.8	2796.8	581.0	543.4	410.7	178.4
82.5°	261.9	271.6	625.1	1680.7	3382.7	3461.2	810.1	328.9	371.5	271.6	104.8
85°	75.2	76.9	278.2	626.8	836.3	852.6	227.4	127.6	212.8	168.6	54.0
87.5°	8.2	26.1	104.8	104.8	73.6	72.1	24.5	27.8	60.6	21.3	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°	3237.1	3237.1	3237.1	3237.1	3237.1	3237.1	3237.1	3237.1	3237.1	3237.1	3237.1
2.5°	3243.6	3245.3	3223.9	3188.0	3148.7	3116.0	3075.0	3042.3	3019.4	3012.9	3024.3
5°	3266.5	3255.1	3194.5	3084.8	2953.9	2841.0	2715.0	2615.2	2549.7	2521.9	2531.8
7.5°	3300.9	3268.1	3135.6	2919.6	2669.2	2446.6	2220.8	2045.7	1934.4	1878.7	1886.9
10°	3330.3	3264.8	3037.4	2680.7	2297.6	1960.5	1656.2	1445.0	1327.3	1271.6	1273.3
12.5°	3358.2	3263.2	2909.8	2397.5	1878.7	1466.4	1183.3	1078.5	1045.7	1034.3	1031.0
15°	3410.5	3268.1	2749.4	2073.5	1461.4	1107.9	1004.8	1003.2	1009.7	1006.4	1004.8
17.5°	3482.5	3273.0	2567.7	1729.8	1127.6	977.0	972.1	986.9	996.6	991.7	990.1
20°	3575.8	3292.7	2374.6	1389.4	968.8	944.2	955.7	968.8	977.0	968.8	967.2
22.5°	3706.7	3327.0	2163.5	1116.1	918.1	924.7	934.5	949.1	957.4	945.9	944.2
25°	3867.1	3381.1	1955.7	970.5	893.6	901.7	916.5	932.9	942.6	931.2	929.6
27.5°	4075.0	3467.8	1764.1	937.8	869.0	873.9	895.1	919.7	932.9	918.1	918.1
30°	4376.0	3610.2	1598.9	952.4	854.2	842.9	872.3	906.6	921.4	908.3	906.6
32.5°	4775.4	3811.5	1497.4	975.4	847.7	806.8	834.7	878.8	903.3	895.1	895.1
35°	5299.0	4117.5	1458.2	1001.5	842.9	769.2	788.8	836.3	878.8	887.0	887.0
37.5°	5934.0	4543.0	1469.6	1013.0	828.1	738.1	747.9	788.8	844.5	870.6	877.2
40°	6655.7	5038.9	1535.0	1001.5	811.7	711.9	713.5	744.7	793.8	833.0	846.0
42.5°	7400.4	5618.2	1656.2	959.0	797.0	689.0	684.1	705.3	738.1	765.9	777.4
45°	8109.0	6213.9	1775.6	900.1	779.0	666.0	654.6	662.8	669.3	680.8	687.4
47.5°	8727.6	6632.9	1741.3	846.0	754.4	639.9	620.2	616.9	597.4	595.7	594.1
50°	9154.8	6724.5	1546.5	792.1	718.4	610.4	579.3	559.6	525.3	508.9	510.6
52.5°	9290.6	6362.8	1263.4	738.1	659.5	571.1	527.0	495.9	453.4	438.6	437.0
55°	9110.5	5654.2	1009.7	672.6	577.7	518.8	469.7	428.8	394.4	376.4	376.4
57.5°	8670.4	4752.5	798.6	595.7	491.0	459.8	410.7	369.8	340.4	322.4	319.1
60°	7940.5	3773.8	631.7	504.1	418.9	396.1	345.3	319.1	292.9	271.6	266.7
62.5°	6832.5	2693.7	495.9	399.3	350.2	324.0	294.6	274.9	243.8	214.4	209.5
65°	5331.8	1648.0	382.9	292.9	281.5	268.3	250.4	232.4	194.7	165.3	160.4
67.5°	3363.0	780.6	273.3	220.9	222.5	216.1	207.9	193.1	165.3	139.1	135.8
70°	1481.0	378.0	180.0	168.6	165.3	165.3	171.8	167.0	140.7	116.2	111.3
72.5°	504.1	203.0	134.2	127.6	119.5	117.9	144.0	139.1	113.0	90.0	85.1
75°	263.5	135.8	98.2	91.6	72.1	86.7	114.6	108.0	80.2	58.9	54.0
77.5°	171.8	96.6	67.1	58.9	40.9	57.3	85.1	75.2	47.5	29.4	26.1
80°	108.0	63.9	39.3	27.8	19.7	31.1	45.8	32.7	18.0	6.6	4.9
82.5°	57.3	32.7	14.8	9.8	8.2	9.8	11.5	8.2	3.3	0.0	0.0
85°	23.0	11.5	4.9	3.3	1.6	0.0	3.3	1.6	0.0	0.0	0.0
87.5°	8.2	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)