

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: P969753

Luminaire Tested: **NAV-SB6A-722-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969753
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-722-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23048.1 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

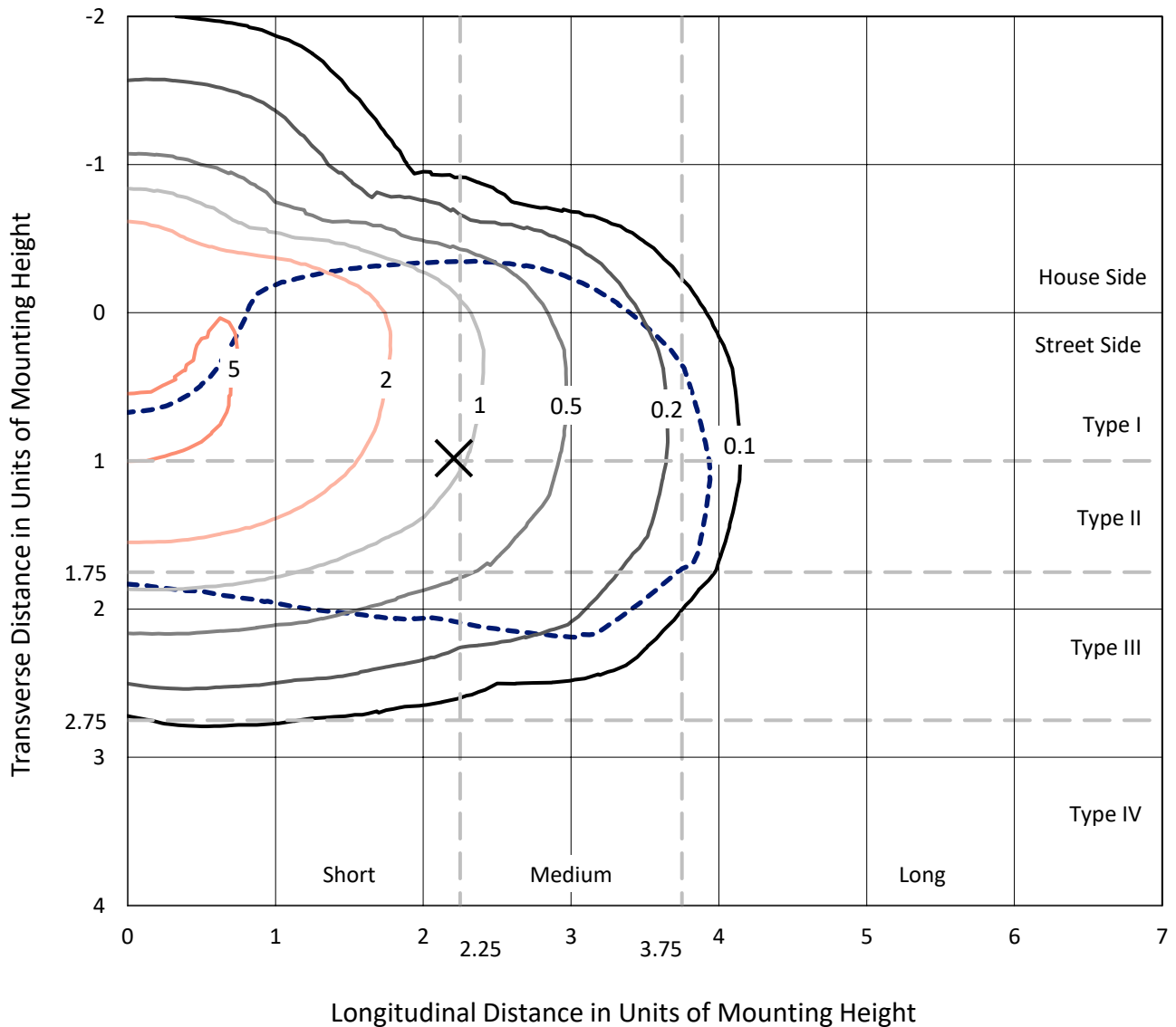
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

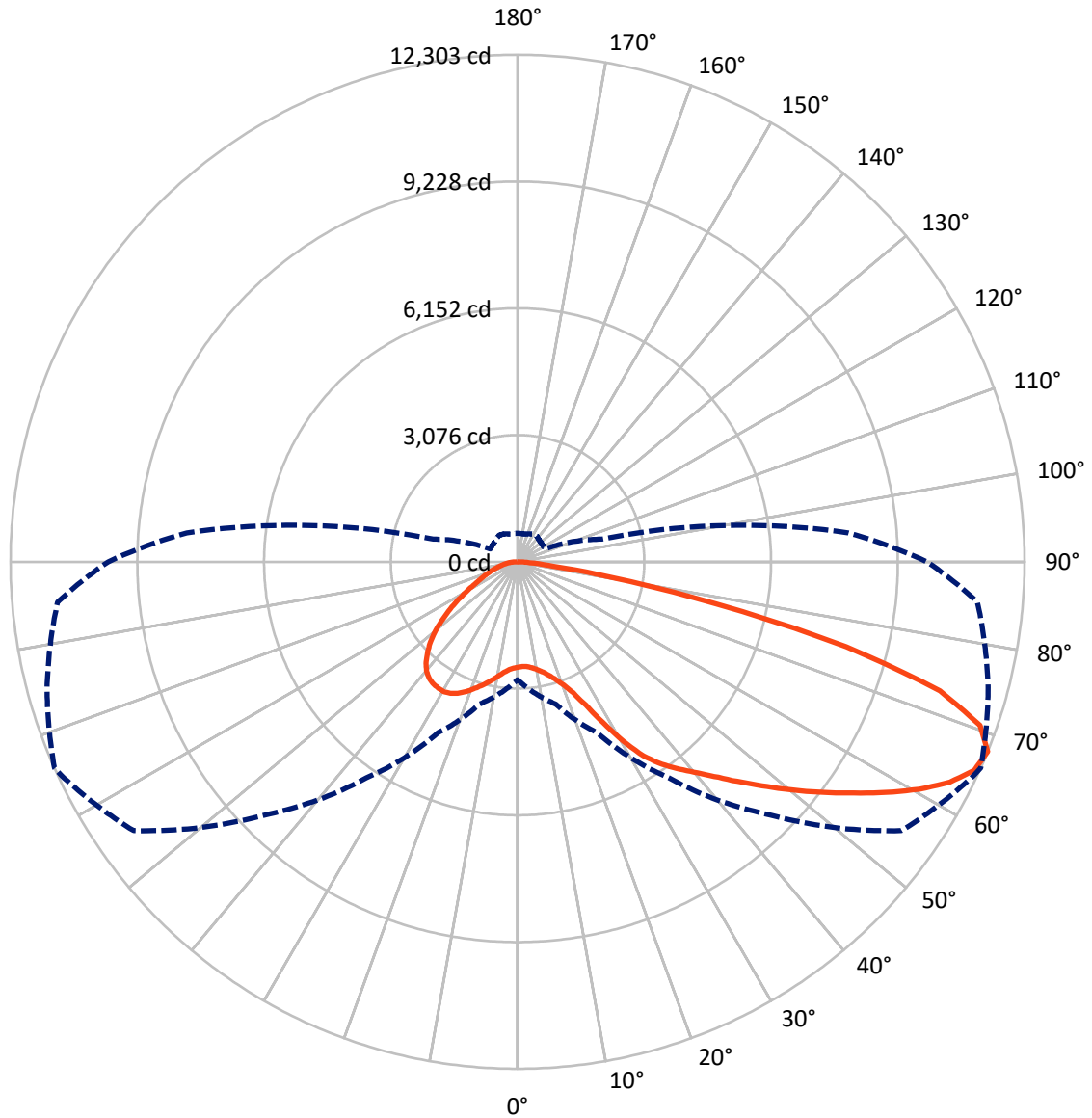
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5730.8	0.0	5730.8
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	17317.3	0.0	17317.3
	% Fixture	75.1	0.0	75.1
Total	Lumens	23048.1	0.0	23048.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.4	1.1
10°-20°	837.4	3.6
20°-30°	1614.0	7.0
30°-40°	2829.9	12.3
40°-50°	4207.1	18.3
50°-60°	5333.0	23.1
60°-70°	5218.2	22.6
70°-80°	2489.1	10.8
80°-90°	266.0	1.2
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°	23048.1	100.0
0°-180°	23048.1	100.0

Coefficient of Utilization



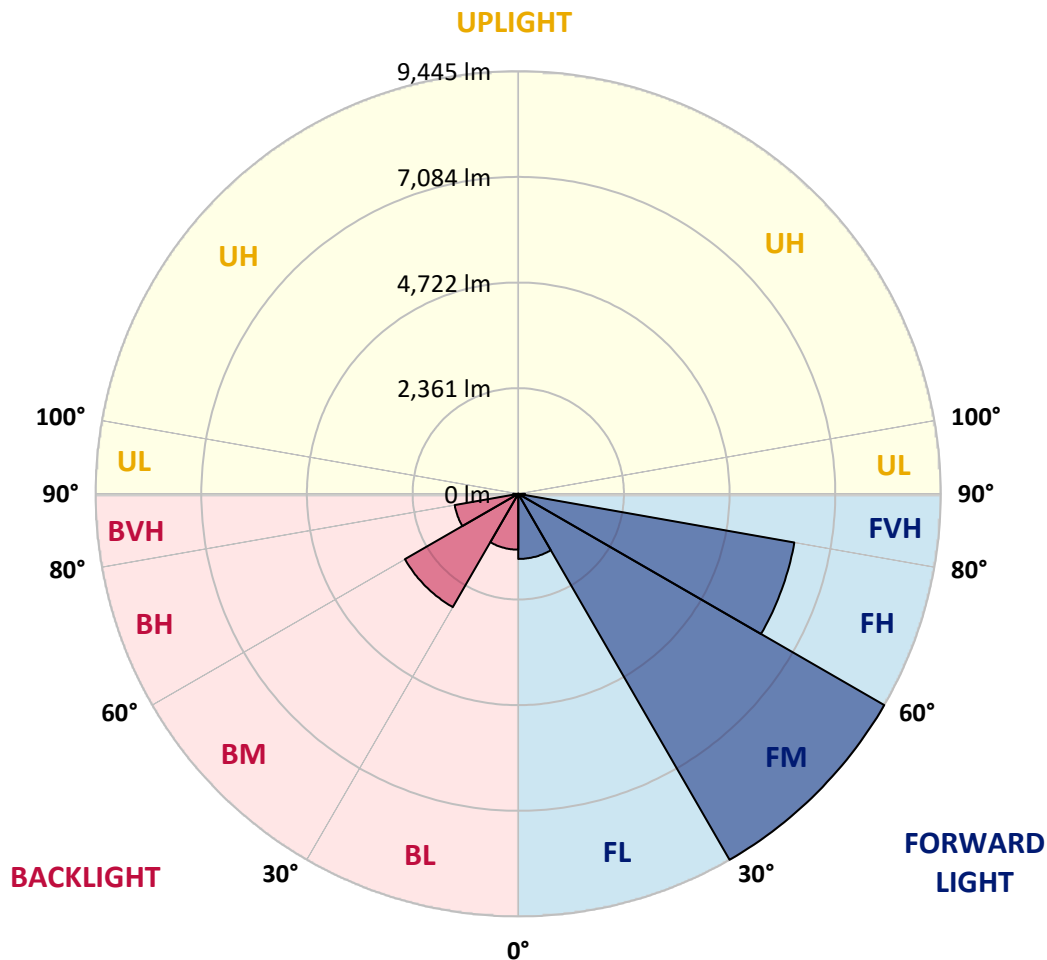
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1456.4	6.3			
FM (30°-60°)	9444.9	41.0			
FH (60°-80°)	6265.1	27.2			G3/7500
FVH (80°-90°)	150.8	0.7			G2/225
BL (0°-30°)	1248.4	5.4	B3/2500		
BM (30°-60°)	2925.1	12.7	B3/5000		
BH (60°-80°)	1442.2	6.3	B3/2500		G3/2500
BVH (80°-90°)	115.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2556.4	2556.4	2556.4	2556.4	2556.4	2556.4	2556.4	2556.4	2556.4	2556.4	2556.4
2.5°	2529.7	2544.3	2540.6	2534.5	2533.3	2535.7	2539.4	2543.0	2541.8	2547.8	2557.6
5°	2522.4	2537.0	2535.7	2535.7	2540.6	2550.3	2556.4	2562.4	2556.4	2563.6	2577.0
7.5°	2527.2	2538.2	2543.0	2547.8	2559.9	2578.2	2592.6	2606.0	2598.7	2607.2	2624.2
10°	2589.0	2597.6	2602.4	2602.4	2610.9	2631.4	2645.9	2670.1	2664.1	2677.4	2699.2
12.5°	2701.7	2710.1	2710.1	2705.3	2711.3	2724.7	2729.5	2756.1	2745.3	2767.1	2788.8
15°	2839.7	2856.7	2843.4	2834.8	2837.3	2850.6	2849.4	2870.0	2859.1	2877.3	2896.6
17.5°	2992.3	3014.1	2992.3	2991.1	2986.2	3000.8	3002.0	3020.2	3000.8	3014.1	3027.4
20°	3172.7	3203.0	3184.9	3190.9	3180.0	3186.0	3192.1	3218.7	3188.5	3198.2	3194.5
22.5°	3427.0	3463.4	3444.0	3467.0	3459.7	3454.9	3453.6	3500.9	3453.6	3457.3	3422.2
25°	3797.6	3841.2	3807.3	3838.7	3838.7	3854.5	3872.7	3933.2	3854.5	3831.4	3740.6
27.5°	4345.0	4388.5	4321.9	4341.3	4335.2	4374.0	4354.6	4504.8	4420.0	4382.5	4199.6
30°	5003.7	5081.2	4955.3	4950.4	4944.4	5006.1	5034.0	5133.3	5047.3	5009.8	4789.3
32.5°	5715.7	5796.9	5646.7	5603.2	5580.1	5617.6	5594.7	5674.6	5615.3	5557.1	5284.7
35°	6469.0	6548.9	6406.0	6321.3	6229.2	6150.5	6068.1	6088.7	6033.0	5944.6	5662.5
37.5°	7181.0	7327.5	7176.1	7085.3	6915.8	6762.0	6531.9	6436.3	6384.2	6303.0	6018.5
40°	7906.3	7990.0	7874.9	7797.4	7613.3	7372.3	7004.2	6802.0	6731.8	6653.1	6412.1
42.5°	8440.5	8520.3	8458.6	8405.3	8261.2	7981.5	7505.6	7252.5	7150.7	7062.4	6857.7
45°	8864.3	8923.5	8884.8	8904.2	8842.5	8571.2	8025.0	7735.7	7630.3	7522.5	7361.4
47.5°	9035.0	9098.0	9159.7	9274.8	9380.1	9180.3	8583.3	8258.7	8147.3	8037.1	7878.6
50°	9015.6	9079.8	9259.0	9503.6	9830.6	9764.0	9171.8	8815.8	8712.9	8586.9	8440.5
52.5°	8860.6	8933.3	9163.4	9570.2	10090.9	10201.1	9771.2	9391.0	9294.2	9144.0	8997.4
55°	8453.7	8497.4	8842.5	9418.8	10152.7	10506.4	10358.5	10003.8	9906.9	9697.4	9537.5
57.5°	7699.3	7762.3	8264.8	9010.8	9997.7	10713.4	10874.4	10648.0	10554.7	10253.3	10086.1
60°	6714.8	6815.3	7390.6	8325.4	9602.9	10712.2	11343.1	11281.4	11203.9	10800.6	10626.2
62.5°	5600.7	5716.9	6270.3	7356.6	8912.7	10408.3	11636.1	11811.7	11771.8	11305.5	11082.7
65°	4301.3	4381.3	4932.3	6103.3	7838.6	9755.5	11670.0	12173.8	12181.1	11689.4	11321.3
67.5°	2864.0	3094.0	3572.3	4579.9	6399.9	8688.6	11372.2	12233.2	12303.4	11821.4	11201.4
70°	1397.5	1700.2	2168.8	2976.6	4579.9	7052.6	10593.5	11746.4	11902.6	11436.3	10487.0
72.5°	580.0	678.1	933.7	1468.9	2629.0	4759.1	9028.9	10426.4	10715.9	10133.4	8817.0
75°	391.1	423.8	534.0	753.2	1197.6	2346.8	6511.3	7774.4	8240.6	7653.3	6255.9
77.5°	301.6	322.2	388.7	526.7	712.1	887.6	3485.1	4685.2	4926.2	4560.5	3255.1
80°	237.4	253.1	290.6	383.9	505.0	474.7	1188.0	2122.8	2262.1	1897.6	1046.3
82.5°	205.8	211.9	208.3	260.3	335.5	277.3	389.9	783.5	864.6	627.3	341.5
85°	148.9	165.9	173.1	161.0	178.0	140.4	159.8	277.3	305.1	272.4	192.5
87.5°	60.6	89.6	110.2	104.1	65.4	40.0	49.6	81.2	93.3	101.7	62.9
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°	2556.4	2556.4	2556.4	2556.4	2556.4	2556.4	2556.4	2556.4	2556.4	2556.4	2556.4
2.5°	2558.8	2567.2	2573.3	2580.5	2585.4	2592.6	2607.2	2615.7	2616.9	2623.0	2621.7
5°	2581.8	2593.9	2607.2	2626.6	2648.4	2666.5	2694.4	2713.8	2721.1	2727.1	2725.9
7.5°	2631.4	2648.4	2672.6	2706.5	2738.0	2762.2	2796.1	2819.2	2842.1	2850.6	2851.9
10°	2705.3	2729.5	2764.6	2810.7	2844.6	2876.0	2911.2	2930.6	2953.5	2963.3	2968.1
12.5°	2797.3	2822.7	2868.8	2932.9	2964.4	2986.2	2998.3	2993.5	2998.3	3006.8	3009.2
15°	2902.7	2930.6	2982.6	3051.6	3073.5	3054.1	3027.4	3003.1	2999.6	3002.0	3010.4
17.5°	3027.4	3048.0	3108.5	3166.6	3151.0	3071.0	3012.9	2974.1	2954.8	2948.7	2957.1
20°	3201.8	3201.8	3251.4	3287.8	3182.4	3046.8	2956.0	2893.0	2853.0	2836.1	2832.5
22.5°	3413.7	3394.3	3425.9	3400.3	3176.4	2979.0	2853.0	2744.0	2683.4	2659.3	2655.7
25°	3682.5	3659.6	3651.0	3493.6	3132.8	2871.2	2666.5	2534.5	2481.2	2468.0	2470.4
27.5°	4088.2	4030.1	3919.9	3544.4	3052.9	2701.7	2448.5	2326.2	2296.0	2297.2	2300.8
30°	4628.3	4512.0	4242.0	3553.0	2922.1	2461.8	2225.8	2138.6	2124.0	2130.1	2150.7
32.5°	5128.4	5018.2	4571.4	3514.2	2721.1	2226.9	2025.9	1967.8	1946.1	1953.2	1963.0
35°	5520.8	5490.5	4876.5	3459.7	2474.0	2006.5	1846.7	1797.0	1754.7	1745.0	1752.2
37.5°	5891.3	5879.2	5105.4	3383.4	2229.4	1850.3	1702.6	1637.2	1575.4	1541.6	1542.7
40°	6298.2	6286.1	5255.6	3266.0	2012.6	1714.7	1573.1	1487.1	1410.8	1349.0	1355.0
42.5°	6756.0	6684.5	5327.0	3097.7	1828.6	1599.7	1467.7	1351.5	1250.9	1194.0	1197.6
45°	7256.1	7095.0	5325.8	2883.3	1673.5	1494.3	1355.0	1190.3	1097.2	1043.9	1041.4
47.5°	7786.5	7487.4	5260.4	2645.9	1523.4	1378.1	1180.7	1054.7	993.0	960.3	953.0
50°	8333.9	7854.3	5149.0	2373.5	1369.6	1246.1	1071.7	985.7	938.5	908.3	897.3
52.5°	8848.5	8187.3	5014.6	2064.7	1213.4	1117.8	1023.3	956.6	907.0	873.1	858.5
55°	9326.9	8474.3	4824.5	1748.6	1086.2	1031.8	1000.3	944.5	887.6	847.7	831.9
57.5°	9751.8	8660.8	4496.3	1451.9	995.4	972.4	976.0	923.9	858.5	824.7	802.9
60°	10105.5	8797.7	4010.7	1177.0	921.6	914.3	938.5	885.2	808.9	770.2	753.2
62.5°	10317.4	8795.2	3414.9	963.9	858.5	861.0	888.9	836.8	759.3	722.9	712.1
65°	10299.2	8579.7	2761.0	824.7	798.1	800.4	836.8	783.5	718.1	696.3	695.1
67.5°	9934.7	8054.1	2118.0	733.8	731.4	742.3	784.7	747.1	692.7	690.2	693.9
70°	8947.8	6963.0	1525.8	661.2	662.4	678.1	733.8	724.2	679.4	684.2	683.0
72.5°	7175.0	5308.9	1024.5	584.9	586.1	611.5	685.4	706.0	666.0	730.2	739.9
75°	4778.4	3310.7	658.8	503.8	505.0	537.7	643.0	670.9	629.7	727.7	733.8
77.5°	2296.0	1488.3	477.1	423.8	423.8	454.1	555.9	600.6	536.5	565.5	518.3
80°	793.1	559.4	375.4	341.5	334.3	354.9	468.6	520.7	462.6	426.3	399.6
82.5°	312.4	290.6	301.6	265.2	241.0	254.3	364.5	429.9	340.3	307.6	306.4
85°	179.3	188.9	213.1	175.6	139.3	156.2	267.6	308.8	256.8	226.4	231.3
87.5°	48.5	66.6	98.1	90.8	62.9	66.6	127.1	170.8	147.7	113.9	117.5
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)