

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: P964726

Luminaire Tested: **NAV-SB3C-830-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964726
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-830-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20972.5 lumens
Efficiency: N/A
Efficacy: 140.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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

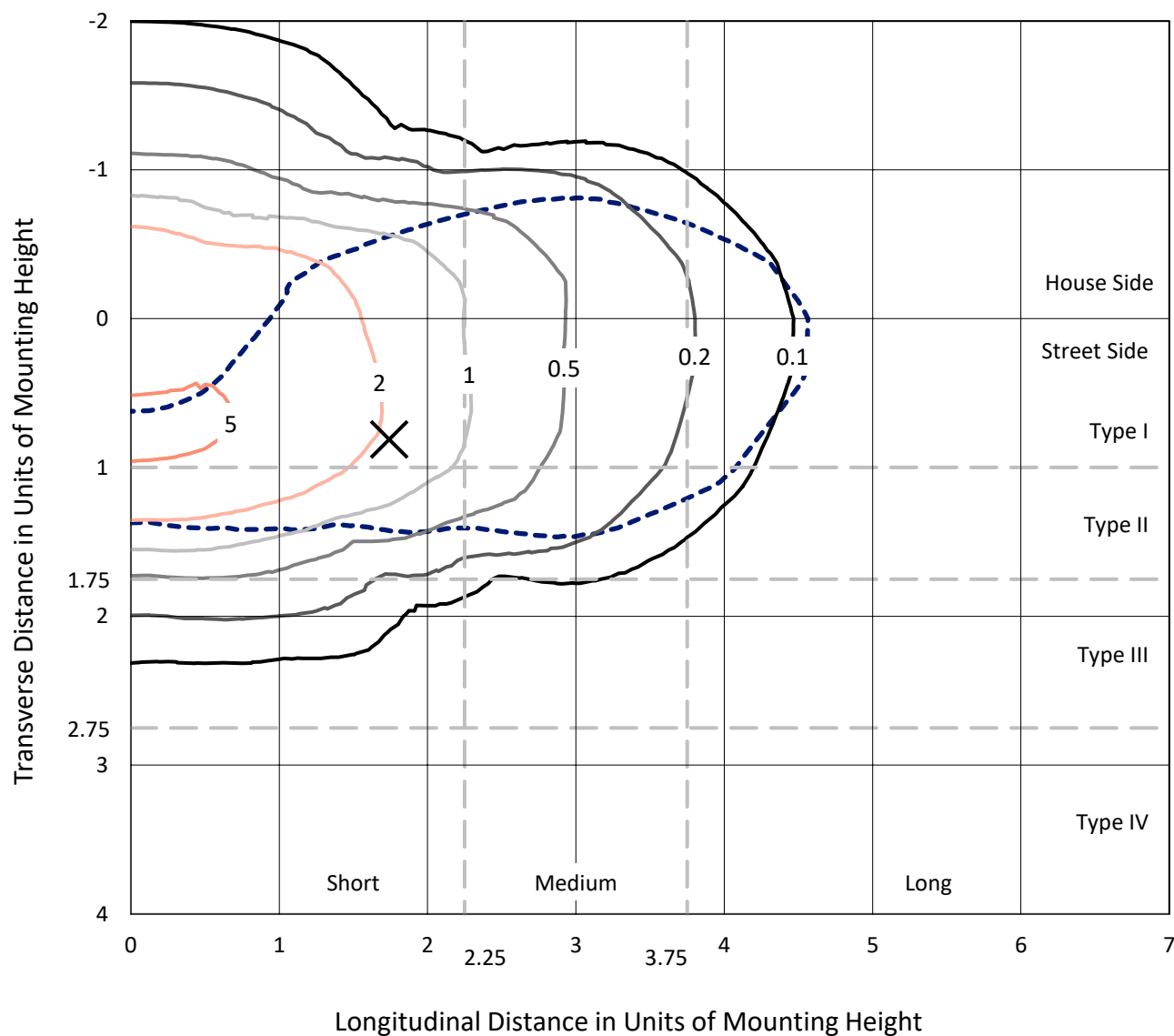


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Iso-Footcandle Lines of Horizontal Illumination

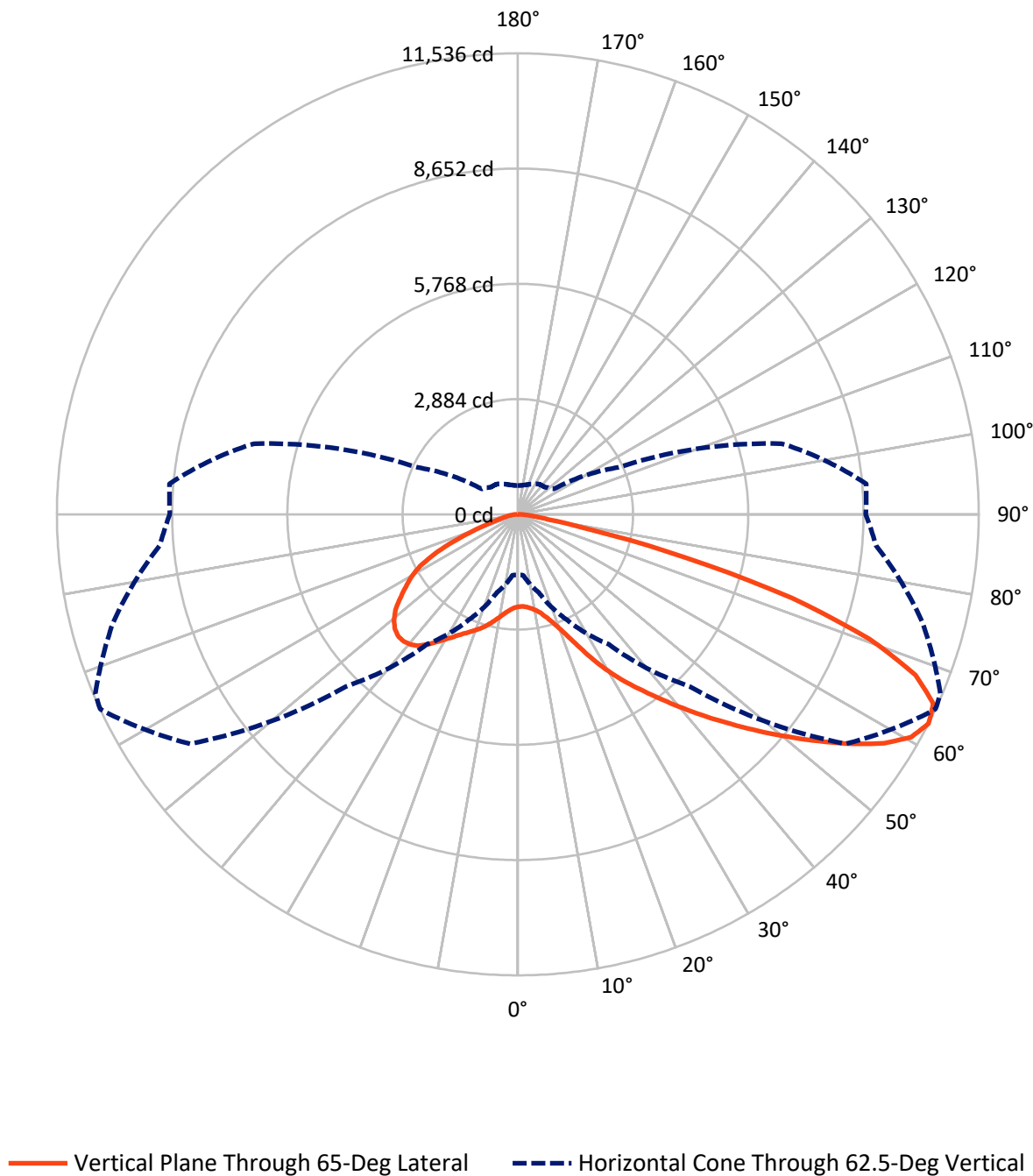
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6618.0	0.0	6618.0
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	14354.5	0.0	14354.5
	% Fixture	68.4	0.0	68.4
Total	Lumens	20972.5	0.0	20972.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.4	1.1
10°-20°	781.3	3.7
20°-30°	1584.3	7.6
30°-40°	2741.5	13.1
40°-50°	4148.8	19.8
50°-60°	4864.2	23.2
60°-70°	4078.1	19.4
70°-80°	2251.4	10.7
80°-90°	292.4	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°	20972.5	100.0
0°-180°	20972.5	100.0

Coefficient of Utilization



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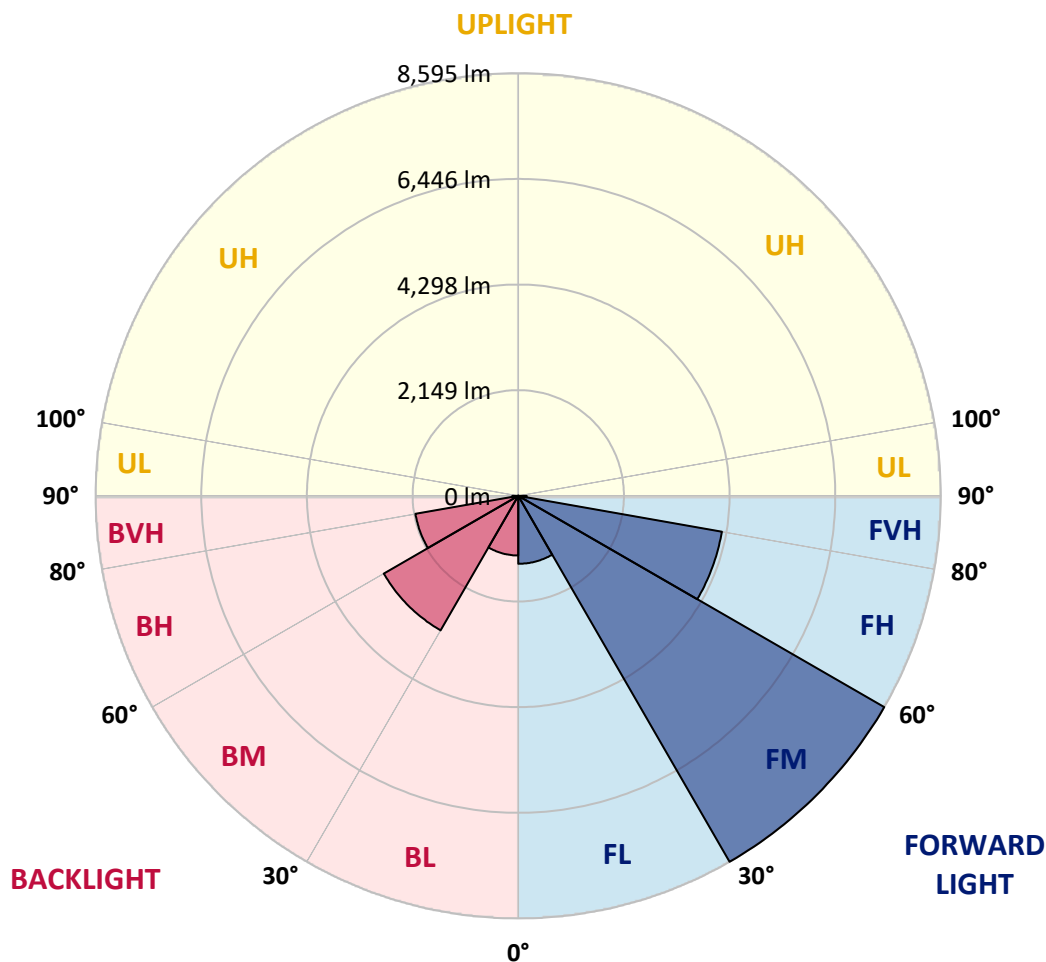
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1382.4	6.6			
FM	(30°-60°)	8595.2	41.0			
FH	(60°-80°)	4206.5	20.1			G2/5000
FVH	(80°-90°)	170.4	0.8			G2/225
BL	(0°-30°)	1213.7	5.8	B3/2500		
BM	(30°-60°)	3159.3	15.1	B3/5000		
BH	(60°-80°)	2123.0	10.1	B3/2500		G3/2500
BVH	(80°-90°)	122.0	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2311.1	2311.1	2311.1	2311.1	2311.1	2311.1	2311.1	2311.1	2311.1	2311.1	2311.1
2.5°	2295.9	2289.3	2294.8	2294.8	2296.9	2295.9	2303.5	2305.6	2308.9	2315.5	2315.5
5°	2273.0	2271.9	2281.8	2290.4	2299.1	2306.8	2316.5	2330.6	2332.8	2340.5	2350.2
7.5°	2265.4	2258.9	2274.1	2284.9	2305.6	2324.2	2350.2	2374.2	2383.9	2387.2	2405.8
10°	2324.2	2313.2	2327.4	2333.9	2351.4	2369.8	2400.3	2438.4	2449.2	2462.4	2483.0
12.5°	2424.2	2412.2	2432.9	2442.8	2459.1	2475.4	2496.1	2533.1	2538.5	2562.4	2582.0
15°	2561.4	2547.2	2560.2	2572.2	2599.4	2614.7	2635.4	2671.3	2671.3	2689.7	2703.8
17.5°	2747.4	2728.9	2738.7	2743.0	2760.4	2783.3	2818.1	2849.7	2866.0	2859.4	2839.9
20°	3024.9	3002.0	3002.0	2980.3	2973.7	2992.2	3037.9	3081.5	3098.9	3065.2	3017.3
22.5°	3441.6	3408.9	3390.5	3316.5	3287.1	3289.2	3334.9	3388.2	3402.4	3342.6	3234.9
25°	3971.5	3920.3	3895.3	3786.6	3720.1	3662.4	3698.4	3767.0	3786.6	3712.6	3538.4
27.5°	4501.4	4504.7	4480.7	4350.1	4240.2	4134.7	4116.2	4188.0	4208.6	4124.9	3909.5
30°	5244.5	5167.3	5121.6	4964.9	4808.3	4660.3	4584.1	4613.4	4618.9	4518.8	4268.5
32.5°	5885.4	5865.9	5767.9	5630.8	5429.5	5197.8	5070.5	5023.6	5014.9	4872.4	4575.4
35°	6615.6	6604.7	6501.3	6338.1	6120.5	5798.4	5568.8	5435.0	5424.1	5223.9	4879.0
37.5°	7357.6	7357.6	7256.4	7077.9	6852.7	6450.1	6100.9	5888.7	5853.9	5592.7	5187.9
40°	7949.5	7913.6	7932.1	7857.0	7599.1	7171.5	6691.7	6383.8	6337.0	6023.6	5516.5
42.5°	8285.7	8273.8	8384.7	8468.6	8363.0	8021.3	7342.4	6920.2	6854.9	6498.0	5895.2
45°	8360.8	8347.7	8545.7	8852.6	9000.6	8860.2	8049.6	7484.9	7405.4	6994.2	6301.1
47.5°	8187.8	8161.7	8452.3	8936.4	9410.8	9657.8	8815.6	8097.5	7982.2	7477.3	6717.8
50°	7667.7	7642.7	8082.2	8725.3	9549.0	10199.7	9646.9	8747.0	8570.8	7995.2	7138.9
52.5°	6537.1	6549.1	7237.9	8121.4	9367.3	10537.0	10362.9	9431.4	9219.3	8525.1	7533.9
55°	5092.2	5118.3	5964.9	6937.6	8640.4	10485.9	10851.5	10136.5	9925.5	9023.5	7941.9
57.5°	3646.1	3761.4	4554.7	5517.7	7244.4	9675.2	10958.1	10806.8	10602.3	9567.5	8341.2
60°	2363.3	2383.9	3200.0	4170.6	5516.5	8234.5	10741.5	11315.0	11155.0	10122.4	8675.3
62.5°	1514.6	1528.8	2026.0	2917.1	3970.4	6092.2	10012.5	11535.9	11486.9	10489.1	8996.2
65°	1113.1	1102.2	1361.2	1928.1	2674.5	3757.1	8596.9	11429.2	11526.0	10718.6	9261.7
67.5°	929.3	914.0	1041.3	1335.1	1970.6	2133.7	6360.9	10736.1	11090.8	10692.6	9456.5
70°	846.5	833.4	910.7	991.3	1537.5	1428.6	3206.6	9333.5	9879.8	10395.6	9425.0
72.5°	717.1	694.2	799.7	880.3	1195.8	1095.7	1325.3	7169.4	7835.3	9443.4	8981.0
75°	556.0	540.8	631.1	774.7	898.7	855.3	837.8	4353.4	5080.2	7303.2	7857.0
77.5°	440.6	420.0	502.7	603.9	808.4	645.2	610.4	1874.7	2595.1	4662.4	5878.9
80°	331.9	313.3	381.9	477.6	621.3	486.4	394.9	765.0	978.2	2362.2	2956.3
82.5°	236.2	219.8	266.6	350.3	417.8	436.3	242.6	428.7	482.1	910.7	660.5
85°	151.3	141.4	178.5	219.8	265.5	280.7	148.0	224.2	245.9	375.4	275.3
87.5°	82.7	67.4	95.7	102.3	123.0	112.0	70.7	81.6	88.1	136.0	116.4
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°	2311.1	2311.1	2311.1	2311.1	2311.1	2311.1	2311.1	2311.1	2311.1	2311.1	2311.1
2.5°	2319.8	2323.1	2333.9	2337.2	2344.8	2354.6	2361.1	2367.6	2367.6	2374.2	2374.2
5°	2351.4	2358.9	2381.8	2393.8	2413.4	2432.9	2444.9	2459.1	2467.8	2472.1	2474.2
7.5°	2412.2	2424.2	2456.9	2477.5	2511.2	2538.5	2557.0	2576.5	2581.0	2592.9	2588.5
10°	2495.0	2509.1	2546.1	2585.3	2625.5	2659.3	2676.7	2690.8	2696.3	2698.4	2693.0
12.5°	2589.7	2610.3	2658.1	2706.1	2748.5	2777.9	2782.3	2779.0	2763.7	2750.7	2750.7
15°	2706.1	2724.6	2777.9	2830.1	2871.4	2876.9	2849.7	2832.3	2813.7	2810.5	2810.5
17.5°	2845.3	2855.1	2904.1	2955.2	2958.5	2940.0	2899.7	2883.4	2866.0	2854.0	2855.1
20°	3007.5	3004.2	3039.0	3060.8	3037.9	2981.3	2920.4	2893.2	2875.8	2861.7	2862.7
22.5°	3201.2	3176.1	3171.8	3166.3	3105.3	2986.7	2904.1	2869.3	2842.0	2822.4	2829.0
25°	3483.0	3387.2	3320.8	3283.8	3146.7	2957.4	2851.9	2774.6	2723.4	2689.7	2702.8
27.5°	3835.4	3674.4	3506.8	3416.5	3146.7	2897.6	2725.7	2600.5	2516.7	2481.9	2499.4
30°	4171.6	4003.0	3756.0	3576.5	3139.1	2799.6	2522.2	2348.1	2250.2	2215.3	2236.0
32.5°	4459.0	4275.1	4020.5	3751.7	3120.6	2640.8	2269.8	2077.2	1982.5	1941.1	1961.8
35°	4725.6	4529.7	4285.9	3944.3	3071.6	2407.9	1992.3	1845.4	1739.8	1673.5	1695.2
37.5°	4998.6	4765.8	4537.3	4118.3	2983.5	2135.9	1779.0	1653.8	1529.8	1440.6	1464.5
40°	5295.7	5017.2	4806.0	4221.8	2838.8	1877.0	1613.7	1499.4	1367.8	1273.0	1291.5
42.5°	5642.8	5318.5	5105.3	4275.1	2640.8	1693.1	1505.9	1393.8	1269.8	1192.5	1207.8
45°	6005.1	5650.4	5378.4	4273.9	2419.9	1607.1	1471.1	1360.1	1223.0	1142.5	1155.6
47.5°	6384.8	5997.5	5614.5	4204.3	2228.4	1619.1	1451.5	1287.2	1135.9	1057.6	1068.5
50°	6765.7	6377.2	5843.0	4073.8	2146.8	1593.0	1378.6	1184.9	1006.4	935.7	940.1
52.5°	7143.2	6780.9	6039.9	3887.7	2064.0	1496.1	1285.0	1052.2	953.1	904.2	904.2
55°	7523.0	7180.2	6254.2	3616.8	1857.4	1382.9	1128.3	1002.1	910.7	866.1	861.7
57.5°	7903.8	7641.6	6457.7	3345.8	1597.3	1243.6	1042.4	941.2	868.3	830.2	823.7
60°	8299.8	8169.4	6667.7	3096.6	1340.5	1065.2	979.3	892.3	818.3	775.8	772.5
62.5°	8707.9	8750.3	6832.0	2775.7	1104.4	956.4	922.7	833.4	761.7	721.4	720.3
65°	9119.2	9310.7	6939.8	2330.6	895.4	853.0	861.7	769.3	696.4	661.5	660.5
67.5°	9429.3	9714.3	6909.3	1763.8	734.4	755.1	785.6	701.8	633.2	606.1	607.1
70°	9464.1	9666.5	6609.0	1207.8	614.8	659.4	700.7	635.4	564.7	545.1	546.2
72.5°	9000.6	9013.6	5772.3	788.8	520.1	578.8	611.5	568.0	499.4	479.8	478.8
75°	7785.2	7454.4	4238.1	520.1	435.2	497.2	527.7	497.2	430.9	435.2	420.0
77.5°	5898.5	5279.4	2573.3	369.9	363.5	417.8	459.2	437.4	380.8	427.6	376.5
80°	3039.0	2856.2	1147.9	276.3	287.2	334.0	377.6	349.3	301.3	287.2	262.2
82.5°	696.4	809.5	452.6	198.0	207.9	240.5	288.3	262.2	216.5	182.8	180.6
85°	243.7	266.6	200.2	124.0	121.9	150.2	195.9	175.2	146.9	117.5	124.0
87.5°	77.3	101.2	75.0	50.0	52.3	67.4	90.3	82.7	68.6	44.6	46.7
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)