

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: P964514

Luminaire Tested: **NAV-SB3C-727-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964514
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-SB3C-727-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21377.4 lumens
Efficiency: N/A
Efficacy: 143.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

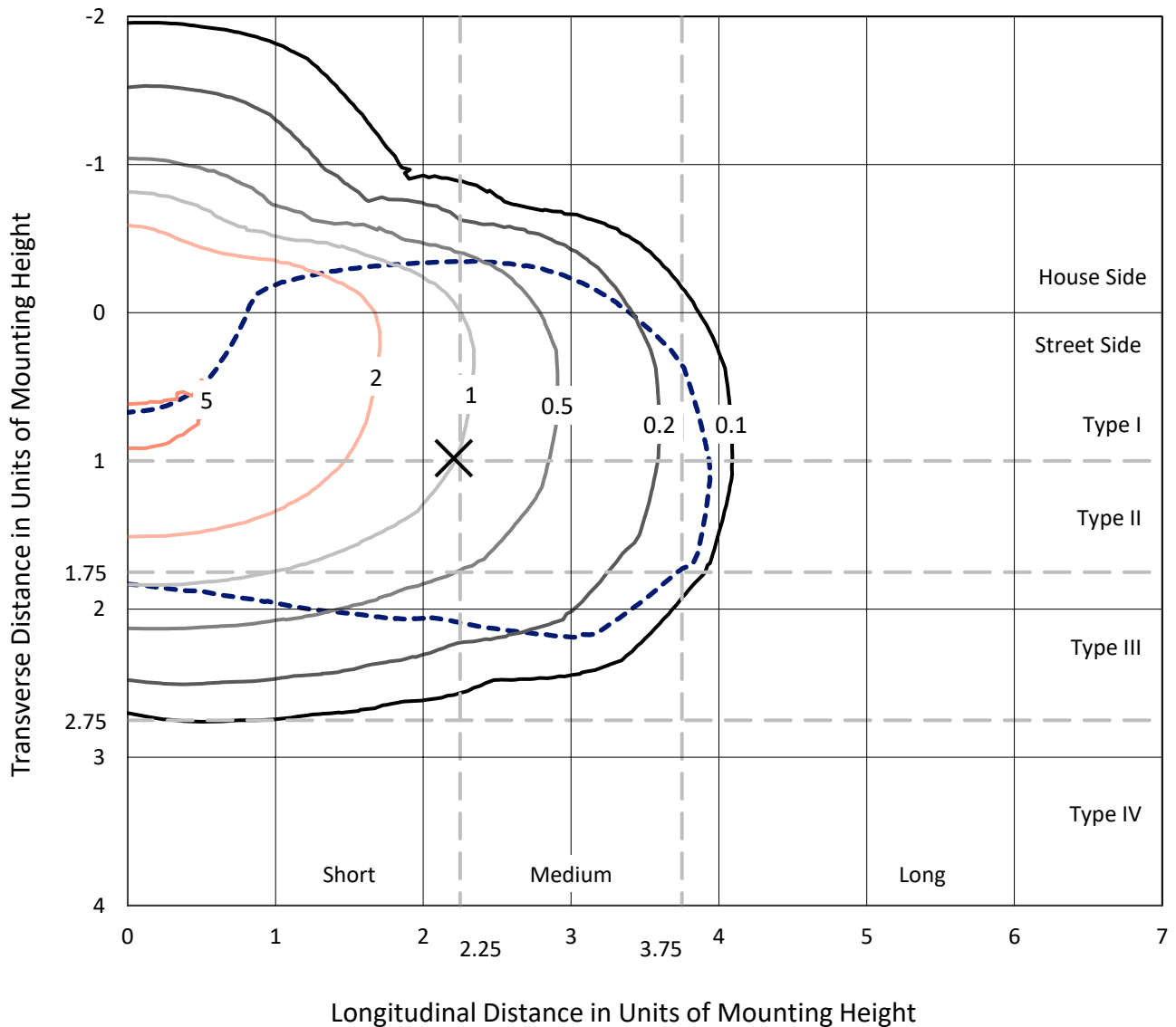
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

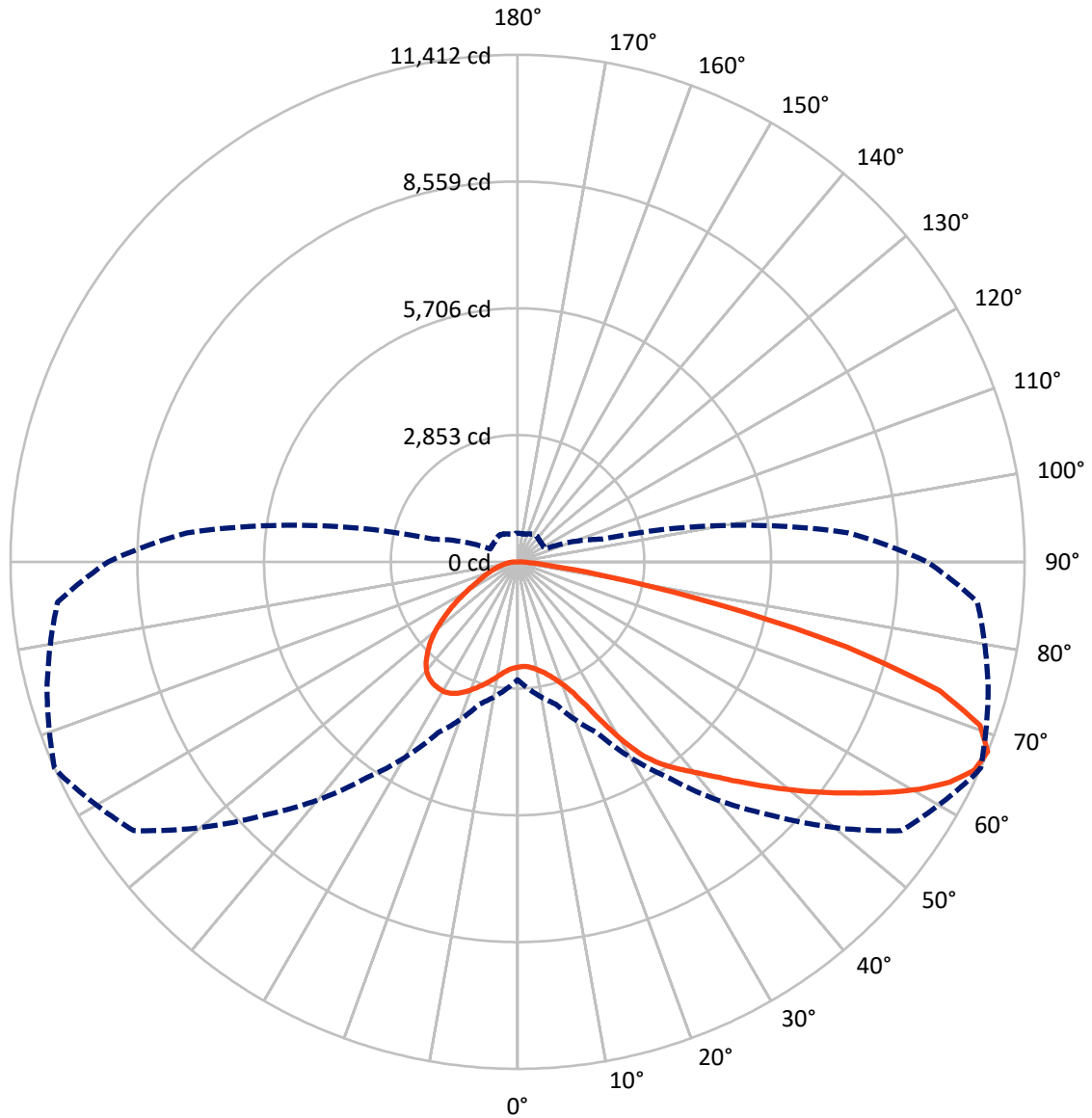
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	5315.4	0.0	5315.4
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	16062.0	0.0	16062.0
	% Fixture	75.1	0.0	75.1
Total	Lumens	21377.4	0.0	21377.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.1	1.1
10°-20°	776.7	3.6
20°-30°	1497.0	7.0
30°-40°	2624.8	12.3
40°-50°	3902.2	18.3
50°-60°	4946.4	23.1
60°-70°	4839.9	22.6
70°-80°	2308.7	10.8
80°-90°	246.7	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°	21377.4	100.0
0°-180°	21377.4	100.0

Coefficient of Utilization

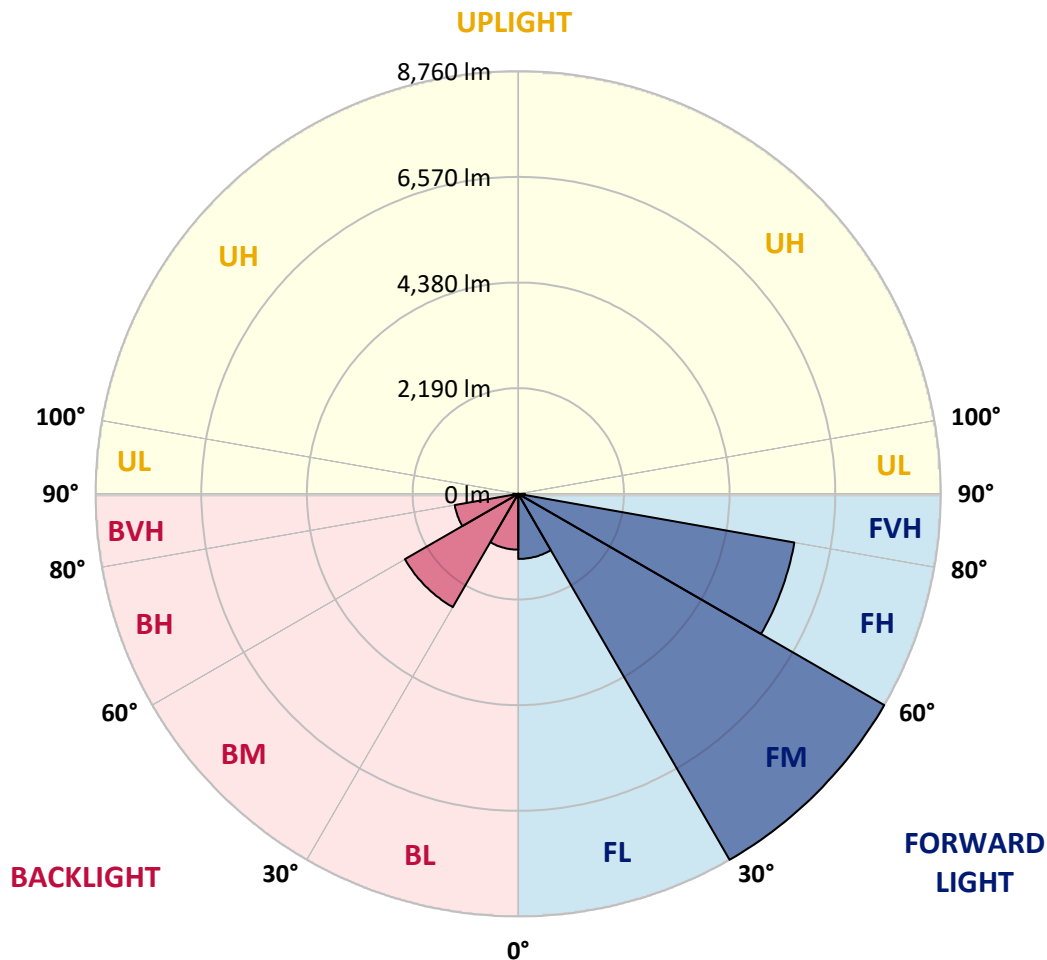


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1350.8	6.3			
FM (30°-60°)	8760.3	41.0			
FH (60°-80°)	5811.0	27.2			G3/7500
FVH (80°-90°)	139.9	0.7			G2/225
BL (0°-30°)	1157.9	5.4	B3/2500		
BM (30°-60°)	2713.0	12.7	B3/5000		
BH (60°-80°)	1337.6	6.3	B3/2500		G3/2500
BVH (80°-90°)	106.9	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°	2371.0	2371.0	2371.0	2371.0	2371.0	2371.0	2371.0	2371.0	2371.0	2371.0	2371.0
2.5°	2346.3	2359.8	2356.5	2350.8	2349.7	2352.0	2355.3	2358.7	2357.6	2363.1	2372.2
5°	2339.6	2353.1	2352.0	2352.0	2356.5	2365.4	2371.0	2376.7	2371.0	2377.8	2390.1
7.5°	2344.1	2354.2	2358.7	2363.1	2374.4	2391.2	2404.8	2417.1	2410.4	2418.2	2434.0
10°	2401.4	2409.3	2413.7	2413.7	2421.6	2440.6	2454.2	2476.6	2471.0	2483.4	2503.6
12.5°	2505.8	2513.7	2513.7	2509.2	2514.8	2527.1	2531.6	2556.4	2546.2	2566.5	2586.7
15°	2633.8	2649.6	2637.2	2629.3	2631.6	2644.0	2642.9	2661.9	2651.9	2668.7	2686.6
17.5°	2775.4	2795.6	2775.4	2774.3	2769.8	2783.3	2784.4	2801.2	2783.3	2795.6	2808.0
20°	2942.8	2970.9	2953.9	2959.6	2949.4	2955.1	2960.7	2985.4	2957.3	2966.4	2963.0
22.5°	3178.6	3212.4	3194.3	3215.6	3209.0	3204.5	3203.3	3247.1	3203.3	3206.7	3174.1
25°	3522.3	3562.7	3531.3	3560.4	3560.4	3575.1	3591.9	3648.1	3575.1	3553.8	3469.5
27.5°	4030.0	4070.4	4008.7	4026.6	4021.0	4057.0	4038.9	4178.2	4099.6	4064.8	3895.2
30°	4641.0	4712.8	4596.1	4591.6	4586.0	4643.2	4669.1	4761.1	4681.4	4646.6	4442.1
32.5°	5301.4	5376.6	5237.4	5197.0	5175.6	5210.5	5189.1	5263.3	5208.2	5154.3	4901.5
35°	6000.0	6074.2	5941.6	5863.0	5777.6	5704.6	5628.3	5647.3	5595.7	5513.7	5252.0
37.5°	6660.4	6796.4	6655.9	6571.7	6414.4	6271.9	6058.5	5969.7	5921.4	5846.2	5582.3
40°	7333.3	7410.7	7304.0	7232.2	7061.4	6838.0	6496.4	6308.9	6243.8	6170.8	5947.3
42.5°	7828.5	7902.7	7845.5	7796.0	7662.4	7402.9	6961.5	6726.8	6632.4	6550.4	6360.5
45°	8221.7	8276.8	8240.8	8258.7	8201.4	7949.9	7443.3	7174.9	7077.2	6977.2	6827.8
47.5°	8380.1	8438.4	8495.7	8602.4	8700.2	8514.9	7961.1	7660.1	7556.8	7454.5	7307.4
50°	8362.1	8421.6	8587.9	8814.7	9118.0	9056.2	8507.0	8176.7	8081.3	7964.5	7828.5
52.5°	8218.3	8285.7	8499.1	8876.5	9359.5	9461.7	9062.9	8710.2	8620.5	8481.2	8345.2
55°	7840.9	7881.3	8201.4	8736.1	9416.8	9744.7	9607.7	9278.6	9188.7	8994.5	8846.2
57.5°	7141.2	7199.6	7665.7	8357.5	9273.0	9936.8	10086.2	9876.2	9789.7	9509.9	9355.0
60°	6228.0	6321.3	6854.8	7721.8	8906.8	9935.6	10520.8	10463.6	10391.7	10017.6	9855.9
62.5°	5194.7	5302.5	5815.8	6823.3	8266.6	9653.8	10792.6	10955.5	10918.4	10486.1	10279.3
65°	3989.5	4063.7	4574.7	5660.9	7270.3	9048.4	10824.1	11291.3	11298.1	10842.0	10500.6
67.5°	2656.3	2869.7	3313.4	4247.9	5936.0	8058.9	10547.8	11346.3	11411.5	10964.5	10389.4
70°	1296.1	1577.0	2011.7	2760.7	4247.9	6541.4	9825.5	10894.8	11039.8	10607.3	9726.7
72.5°	538.0	628.9	866.0	1362.4	2438.5	4414.1	8374.5	9670.6	9939.0	9398.7	8177.9
75°	362.7	393.1	495.3	698.6	1110.8	2176.7	6039.3	7210.9	7643.2	7098.5	5802.3
77.5°	279.7	298.8	360.5	488.6	660.4	823.3	3232.5	4345.6	4569.1	4229.9	3019.1
80°	220.2	234.7	269.6	356.1	468.3	440.2	1101.9	1968.9	2098.1	1760.0	970.5
82.5°	191.0	196.6	193.2	241.5	311.1	257.2	361.6	726.7	802.0	581.8	316.7
85°	138.2	153.9	160.6	149.3	165.1	130.3	148.2	257.2	283.0	252.8	178.6
87.5°	56.2	83.1	102.2	96.6	60.7	37.1	46.0	75.2	86.5	94.3	58.4
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°	2371.0	2371.0	2371.0	2371.0	2371.0	2371.0	2371.0	2371.0	2371.0	2371.0	2371.0
2.5°	2373.3	2381.2	2386.7	2393.5	2398.0	2404.8	2418.2	2426.1	2427.2	2432.8	2431.7
5°	2394.6	2405.9	2418.2	2436.2	2456.4	2473.2	2499.1	2517.1	2523.8	2529.4	2528.3
7.5°	2440.6	2456.4	2478.9	2510.3	2539.5	2562.0	2593.5	2614.8	2636.1	2644.0	2645.1
10°	2509.2	2531.6	2564.2	2606.9	2638.4	2667.6	2700.2	2718.1	2739.4	2748.4	2752.9
12.5°	2594.6	2618.2	2660.8	2720.4	2749.6	2769.8	2781.0	2776.5	2781.0	2788.8	2791.1
15°	2692.3	2718.1	2766.4	2830.4	2850.6	2832.7	2808.0	2785.5	2782.2	2784.4	2792.2
17.5°	2808.0	2827.1	2883.2	2937.1	2922.5	2848.4	2794.5	2758.6	2740.5	2734.9	2742.8
20°	2969.7	2969.7	3015.8	3049.5	2951.7	2825.9	2741.7	2683.2	2646.2	2630.5	2627.1
22.5°	3166.2	3148.3	3177.5	3153.9	2946.1	2763.0	2646.2	2545.2	2489.0	2466.5	2463.2
25°	3415.6	3394.3	3386.4	3240.3	2905.7	2663.1	2473.2	2350.8	2301.4	2289.0	2291.3
27.5°	3791.9	3738.0	3635.8	3287.6	2831.6	2505.8	2271.1	2157.6	2129.5	2130.7	2134.0
30°	4292.8	4185.0	3934.5	3295.4	2710.2	2283.4	2064.5	1983.6	1970.0	1975.7	1994.8
32.5°	4756.7	4654.4	4240.0	3259.5	2523.8	2065.6	1879.1	1825.2	1804.9	1811.7	1820.7
35°	5120.6	5092.5	4523.0	3209.0	2294.7	1861.1	1712.9	1666.8	1627.5	1618.5	1625.2
37.5°	5464.3	5453.0	4735.3	3138.1	2067.7	1716.3	1579.2	1518.5	1461.2	1429.8	1430.9
40°	5841.7	5830.4	4874.6	3029.2	1866.7	1590.4	1459.0	1379.2	1308.5	1251.2	1256.9
42.5°	6266.2	6199.9	4940.9	2873.1	1696.0	1483.7	1361.3	1253.5	1160.2	1107.4	1110.8
45°	6730.2	6580.7	4939.8	2674.3	1552.3	1386.0	1256.9	1104.1	1017.6	968.2	966.0
47.5°	7222.0	6944.7	4879.1	2454.2	1413.0	1278.2	1095.1	978.3	921.0	890.7	884.0
50°	7729.7	7285.0	4775.8	2201.4	1270.3	1155.8	994.0	914.3	870.4	842.3	832.3
52.5°	8207.1	7593.8	4651.1	1915.0	1125.4	1036.7	949.0	887.3	841.2	809.9	796.3
55°	8650.8	7860.0	4474.7	1621.9	1007.5	956.9	927.7	876.1	823.3	786.3	771.6
57.5°	9045.0	8033.0	4170.4	1346.6	923.2	901.9	905.3	857.0	796.3	764.9	744.7
60°	9372.9	8159.9	3719.9	1091.7	854.7	848.0	870.4	821.0	750.3	714.3	698.6
62.5°	9569.5	8157.7	3167.4	894.0	796.3	798.6	824.4	776.1	704.3	670.6	660.4
65°	9552.7	7957.7	2560.9	764.9	740.2	742.4	776.1	726.7	666.0	645.9	644.7
67.5°	9214.5	7470.3	1964.4	680.6	678.4	688.5	727.9	693.0	642.5	640.2	643.6
70°	8299.2	6458.3	1415.2	613.3	614.4	628.9	680.6	671.7	630.1	634.6	633.4
72.5°	6654.8	4924.0	950.2	542.5	543.7	567.2	635.7	654.8	617.8	677.3	686.2
75°	4432.1	3070.8	611.0	467.2	468.3	498.7	596.4	622.3	584.0	675.1	680.6
77.5°	2129.5	1380.4	442.5	393.1	393.1	421.2	515.6	557.1	497.5	524.5	480.7
80°	735.6	519.0	348.2	316.7	310.0	329.1	434.7	483.0	429.1	395.3	370.6
82.5°	289.8	269.6	279.7	246.0	223.6	235.9	338.0	398.7	315.6	285.3	284.1
85°	166.3	175.2	197.7	162.9	129.1	144.9	248.3	286.4	238.1	210.0	214.5
87.5°	44.9	61.8	91.0	84.3	58.4	61.8	118.0	158.4	137.0	105.6	109.0
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)