

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: P964509

Luminaire Tested: **NAV-SB3C-727-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964509
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-727-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21649 lumens
Efficiency: N/A
Efficacy: 145.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

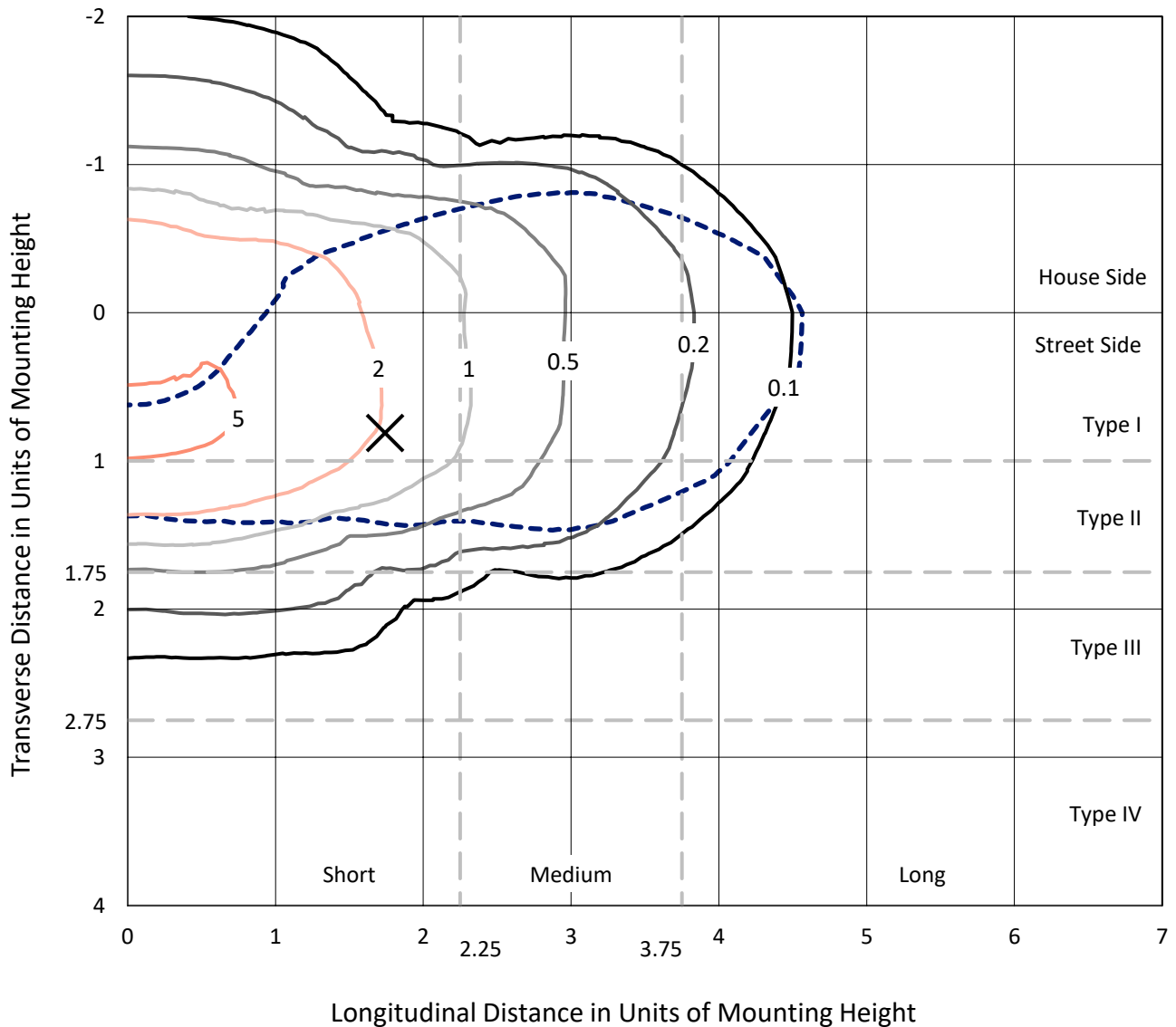
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

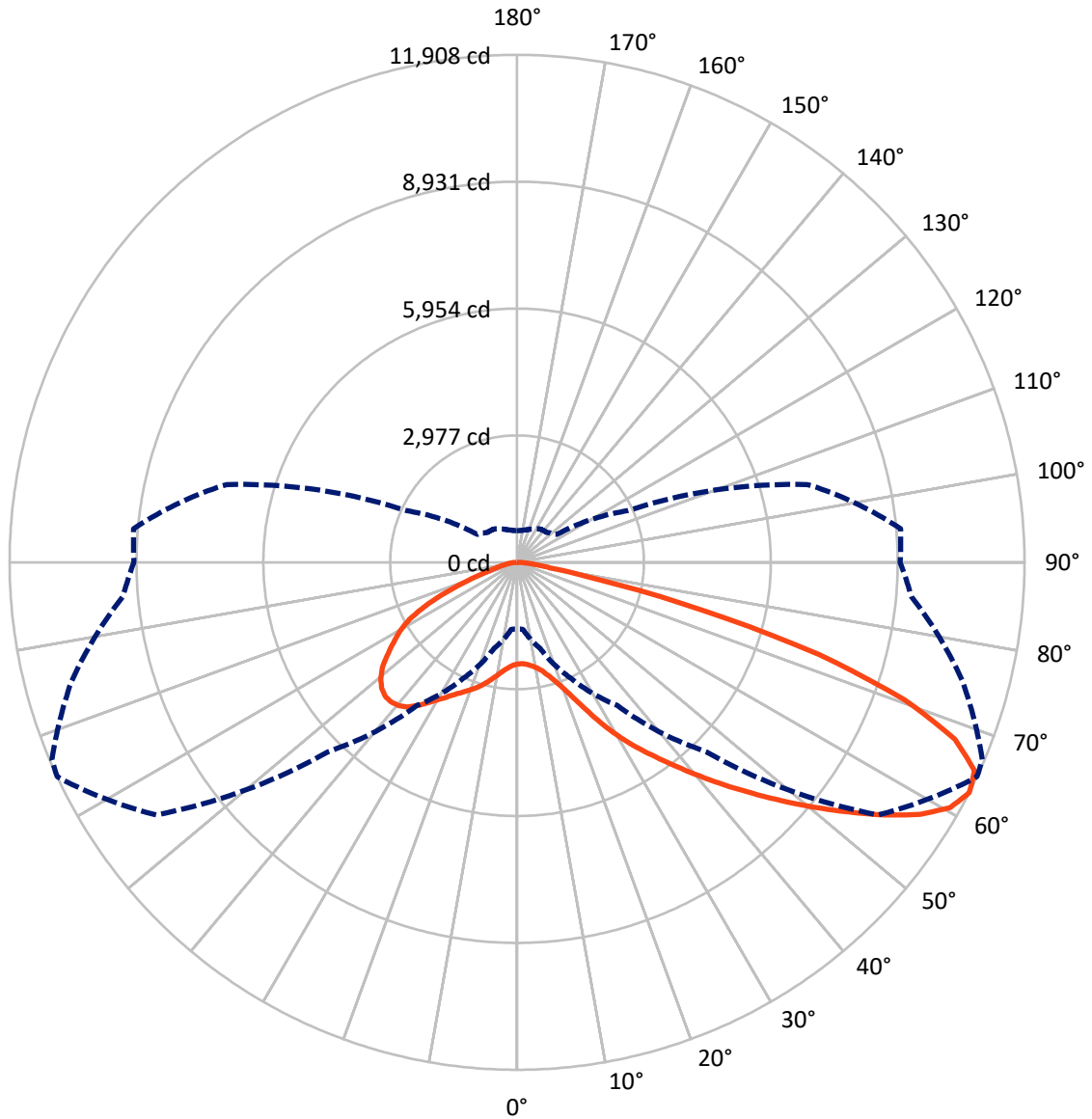
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6831.5	0.0	6831.5
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	14817.5	0.0	14817.5
	% Fixture	68.4	0.0	68.4
Total	Lumens	21649.0	0.0	21649.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.8	1.1
10°-20°	806.6	3.7
20°-30°	1635.4	7.6
30°-40°	2830.0	13.1
40°-50°	4282.6	19.8
50°-60°	5021.1	23.2
60°-70°	4209.6	19.4
70°-80°	2324.0	10.7
80°-90°	301.9	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°	21649.0	100.0
0°-180°	21649.0	100.0

Coefficient of Utilization



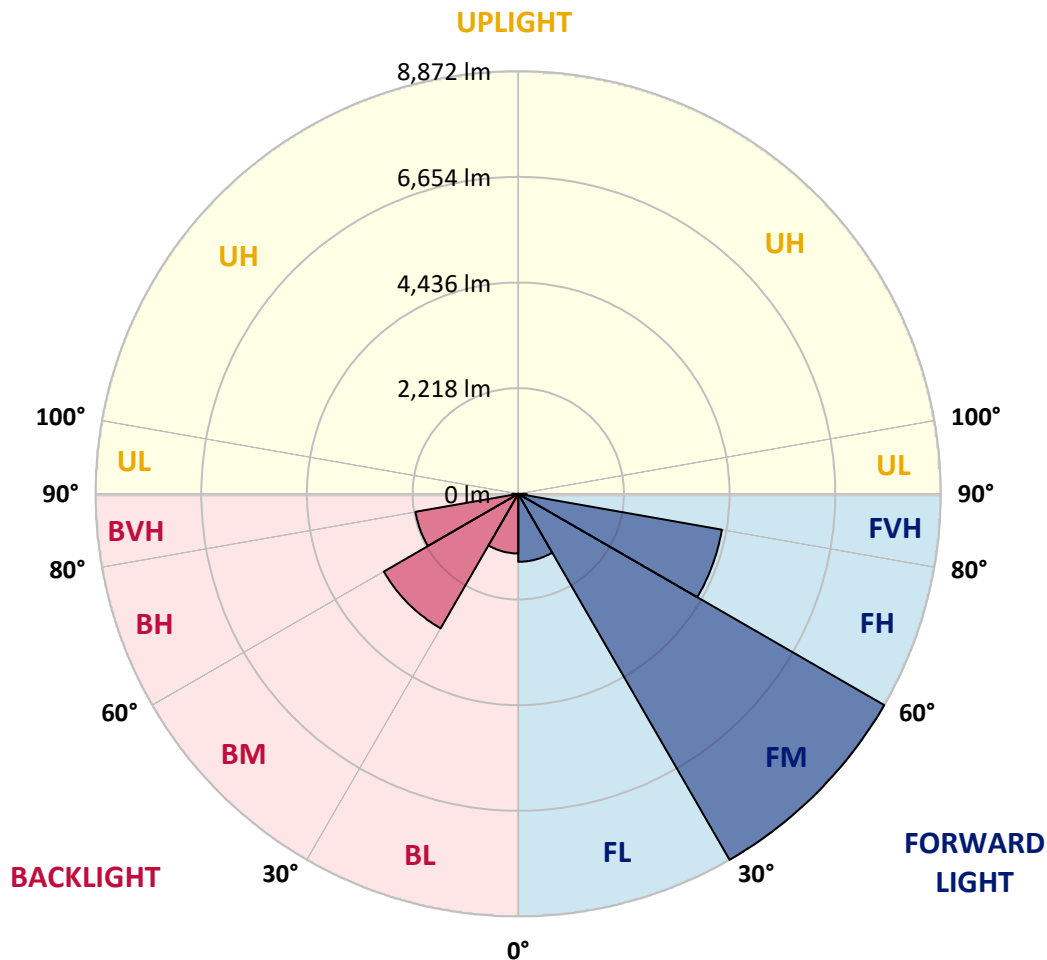
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1427.0	6.6			
FM (30°-60°)	8872.5	41.0			
FH (60°-80°)	4342.2	20.1			G2/5000
FVH (80°-90°)	175.9	0.8			G2/225
BL (0°-30°)	1252.8	5.8	B3/2500		
BM (30°-60°)	3261.3	15.1	B3/5000		
BH (60°-80°)	2191.5	10.1	B3/2500		G3/2500
BVH (80°-90°)	125.9	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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CATALOG NUMBER: NAV-SB3C-727-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2385.6	2385.6	2385.6	2385.6	2385.6	2385.6	2385.6	2385.6	2385.6	2385.6	2385.6
2.5°	2369.9	2363.1	2368.8	2368.8	2371.0	2369.9	2377.8	2380.0	2383.4	2390.1	2390.1
5°	2346.3	2345.2	2355.3	2364.3	2373.3	2381.2	2391.2	2405.9	2408.1	2415.9	2426.1
7.5°	2338.4	2331.7	2347.5	2358.6	2380.0	2399.1	2426.1	2450.8	2460.9	2464.2	2483.4
10°	2399.1	2387.8	2402.5	2409.3	2427.2	2446.3	2477.7	2517.0	2528.3	2541.8	2563.1
12.5°	2502.4	2490.1	2511.5	2521.5	2538.4	2555.2	2576.5	2614.8	2620.4	2645.1	2665.3
15°	2644.0	2629.3	2642.9	2655.2	2683.2	2699.0	2720.4	2757.4	2757.4	2776.5	2791.1
17.5°	2836.1	2816.9	2827.1	2831.6	2849.5	2873.1	2909.1	2941.6	2958.5	2951.7	2931.5
20°	3122.5	3098.9	3098.9	3076.3	3069.7	3088.7	3135.9	3180.9	3198.8	3164.0	3114.6
22.5°	3552.6	3518.9	3499.9	3423.4	3393.2	3395.4	3442.6	3497.6	3512.2	3450.4	3339.2
25°	4099.6	4046.8	4021.0	3908.6	3840.2	3780.6	3817.7	3888.4	3908.6	3832.3	3652.6
27.5°	4646.6	4649.9	4625.2	4490.4	4377.1	4268.1	4248.9	4323.1	4344.5	4258.0	4035.5
30°	5413.7	5334.0	5286.7	5125.1	4963.4	4810.5	4731.9	4762.3	4767.9	4664.6	4406.3
32.5°	6075.3	6055.1	5953.9	5812.5	5604.7	5365.5	5234.0	5185.7	5176.8	5029.6	4723.0
35°	6829.0	6817.7	6711.0	6542.5	6317.9	5985.4	5748.4	5610.2	5599.1	5392.4	5036.3
37.5°	7594.9	7594.9	7490.5	7306.3	7073.7	6658.2	6297.7	6078.7	6042.7	5773.1	5355.3
40°	8205.9	8168.8	8188.0	8110.4	7844.2	7402.9	6907.6	6589.7	6541.3	6218.0	5694.5
42.5°	8553.0	8540.6	8655.2	8741.7	8632.8	8280.1	7579.2	7143.4	7076.0	6707.6	6085.4
45°	8630.5	8617.0	8821.5	9138.2	9290.9	9146.1	8309.3	7726.3	7644.3	7219.8	6504.3
47.5°	8451.9	8425.0	8724.8	9224.7	9714.3	9969.4	9099.9	8358.7	8239.7	7718.5	6934.5
50°	7915.0	7889.2	8343.0	9006.8	9857.0	10528.7	9958.1	9029.2	8847.3	8253.1	7369.1
52.5°	6748.1	6760.4	7471.3	8383.4	9669.4	10876.9	10697.1	9735.7	9516.7	8800.1	7776.9
55°	5256.5	5283.5	6157.3	7161.4	8919.1	10824.1	11201.4	10463.5	10245.6	9314.5	8198.1
57.5°	3763.8	3882.8	4701.6	5695.6	7478.1	9987.3	11311.5	11155.4	10944.2	9876.1	8610.3
60°	2439.5	2460.9	3303.3	4305.1	5694.5	8500.2	11088.0	11679.9	11514.8	10449.0	8955.1
62.5°	1563.4	1578.1	2091.3	3011.2	4098.5	6288.7	10335.5	11907.9	11857.4	10827.4	9286.4
65°	1149.0	1137.8	1405.1	1990.2	2760.7	3878.3	8874.2	11797.9	11897.8	11064.5	9560.5
67.5°	959.2	943.5	1074.9	1378.1	2034.1	2202.5	6566.0	11082.4	11448.5	11037.5	9761.5
70°	873.8	860.4	940.1	1023.3	1587.0	1474.8	3310.0	9634.6	10198.4	10730.8	9729.0
72.5°	740.2	716.6	825.5	908.7	1234.4	1131.1	1368.1	7400.6	8088.0	9748.1	9270.7
75°	573.9	558.2	651.5	799.7	927.7	882.8	864.9	4493.8	5244.1	7538.8	8110.4
77.5°	454.9	433.6	519.0	623.4	834.6	666.0	630.1	1935.2	2678.7	4812.8	6068.5
80°	342.6	323.5	394.2	493.0	641.3	502.0	407.7	789.6	1009.7	2438.4	3051.6
82.5°	243.7	226.8	275.2	361.6	431.3	450.4	250.5	442.5	497.5	940.1	681.7
85°	156.1	146.1	184.2	226.8	274.1	289.8	152.7	231.3	253.8	387.4	284.1
87.5°	85.4	69.6	98.8	105.6	126.9	115.7	73.0	84.3	91.0	140.4	120.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P964509
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2385.6	2385.6	2385.6	2385.6	2385.6	2385.6	2385.6	2385.6	2385.6	2385.6	2385.6
2.5°	2394.6	2398.0	2409.3	2412.5	2420.4	2430.6	2437.2	2444.0	2444.0	2450.8	2450.8
5°	2427.2	2435.1	2458.7	2471.0	2491.2	2511.5	2523.8	2538.4	2547.3	2551.8	2554.1
7.5°	2490.1	2502.4	2536.2	2557.5	2592.3	2620.4	2639.5	2659.7	2664.2	2676.6	2672.1
10°	2575.4	2590.1	2628.2	2668.7	2710.2	2745.1	2763.0	2777.6	2783.2	2785.4	2779.9
12.5°	2673.2	2694.5	2743.9	2793.3	2837.1	2867.4	2871.9	2868.6	2852.9	2839.4	2839.4
15°	2793.3	2812.4	2867.4	2921.4	2964.1	2969.6	2941.6	2923.6	2904.5	2901.2	2901.2
17.5°	2937.1	2947.2	2997.7	3050.5	3053.9	3034.8	2993.3	2976.4	2958.5	2946.1	2947.2
20°	3104.4	3101.1	3137.0	3159.5	3135.9	3077.5	3014.6	2986.5	2968.6	2953.9	2955.1
22.5°	3304.4	3278.6	3274.1	3268.4	3205.6	3083.1	2997.7	2961.8	2933.8	2913.6	2920.2
25°	3595.3	3496.5	3427.9	3389.8	3248.2	3052.8	2943.8	2864.1	2811.3	2776.5	2789.9
27.5°	3959.2	3793.0	3620.0	3526.8	3248.2	2991.1	2813.5	2684.4	2597.9	2562.0	2579.9
30°	4306.2	4132.2	3877.2	3691.8	3240.3	2889.9	2603.5	2423.8	2322.8	2286.8	2308.1
32.5°	4602.8	4412.9	4150.1	3872.8	3221.3	2726.0	2342.9	2144.1	2046.4	2003.8	2025.1
35°	4878.0	4675.7	4424.2	4071.5	3170.7	2485.6	2056.6	1904.9	1796.0	1727.4	1749.9
37.5°	5159.8	4919.5	4683.6	4251.2	3079.7	2204.8	1836.4	1707.2	1579.2	1487.1	1511.8
40°	5466.5	5179.0	4961.1	4357.9	2930.4	1937.5	1665.6	1547.7	1411.8	1314.2	1333.2
42.5°	5824.8	5490.1	5269.9	4412.9	2726.0	1747.6	1554.5	1438.8	1310.8	1231.0	1246.7
45°	6198.8	5832.7	5551.9	4411.8	2497.9	1659.0	1518.5	1403.9	1262.5	1179.4	1192.8
47.5°	6590.9	6191.0	5795.6	4340.0	2300.3	1671.3	1498.3	1328.7	1172.6	1091.7	1103.0
50°	6983.9	6583.0	6031.5	4205.2	2216.0	1644.3	1423.1	1223.1	1038.9	966.0	970.5
52.5°	7373.6	6999.6	6234.8	4013.1	2130.7	1544.4	1326.5	1086.1	983.9	933.4	933.4
55°	7765.6	7411.9	6456.1	3733.5	1917.3	1427.5	1164.7	1034.4	940.1	894.0	889.6
57.5°	8158.8	7888.1	6666.1	3453.7	1648.8	1283.8	1076.0	971.6	896.3	857.0	850.2
60°	8567.6	8432.8	6882.9	3196.6	1383.7	1099.6	1010.9	921.0	844.6	800.8	797.4
62.5°	8988.7	9032.6	7052.4	2865.2	1140.0	987.3	952.4	860.4	786.2	744.7	743.5
65°	9413.4	9611.0	7163.6	2405.9	924.3	880.6	889.6	794.1	718.8	682.9	681.7
67.5°	9733.5	10027.7	7132.2	1820.7	758.2	779.5	811.0	724.5	653.6	625.7	626.7
70°	9769.4	9978.3	6822.2	1246.7	634.6	680.6	723.3	655.9	582.9	562.7	563.9
72.5°	9290.9	9304.4	5958.4	814.3	536.9	597.6	631.2	586.3	515.6	495.3	494.2
75°	8036.3	7694.9	4374.8	536.9	449.3	513.3	544.8	513.3	444.7	449.3	433.6
77.5°	6088.7	5449.6	2656.3	381.9	375.2	431.3	474.0	451.5	393.1	441.4	388.6
80°	3137.0	2948.3	1185.0	285.3	296.5	344.8	389.7	360.5	311.1	296.5	270.7
82.5°	718.8	835.7	467.2	204.4	214.5	248.3	297.7	270.7	223.6	188.7	186.4
85°	251.6	275.2	206.6	128.0	125.8	155.0	202.1	180.8	151.6	121.3	128.0
87.5°	79.7	104.4	77.5	51.7	53.9	69.6	93.2	85.4	70.7	46.0	48.3
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)