

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: P967647

Luminaire Tested: **NAV-SB5A-722-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P967647  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB5A-722-U-T4FT  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

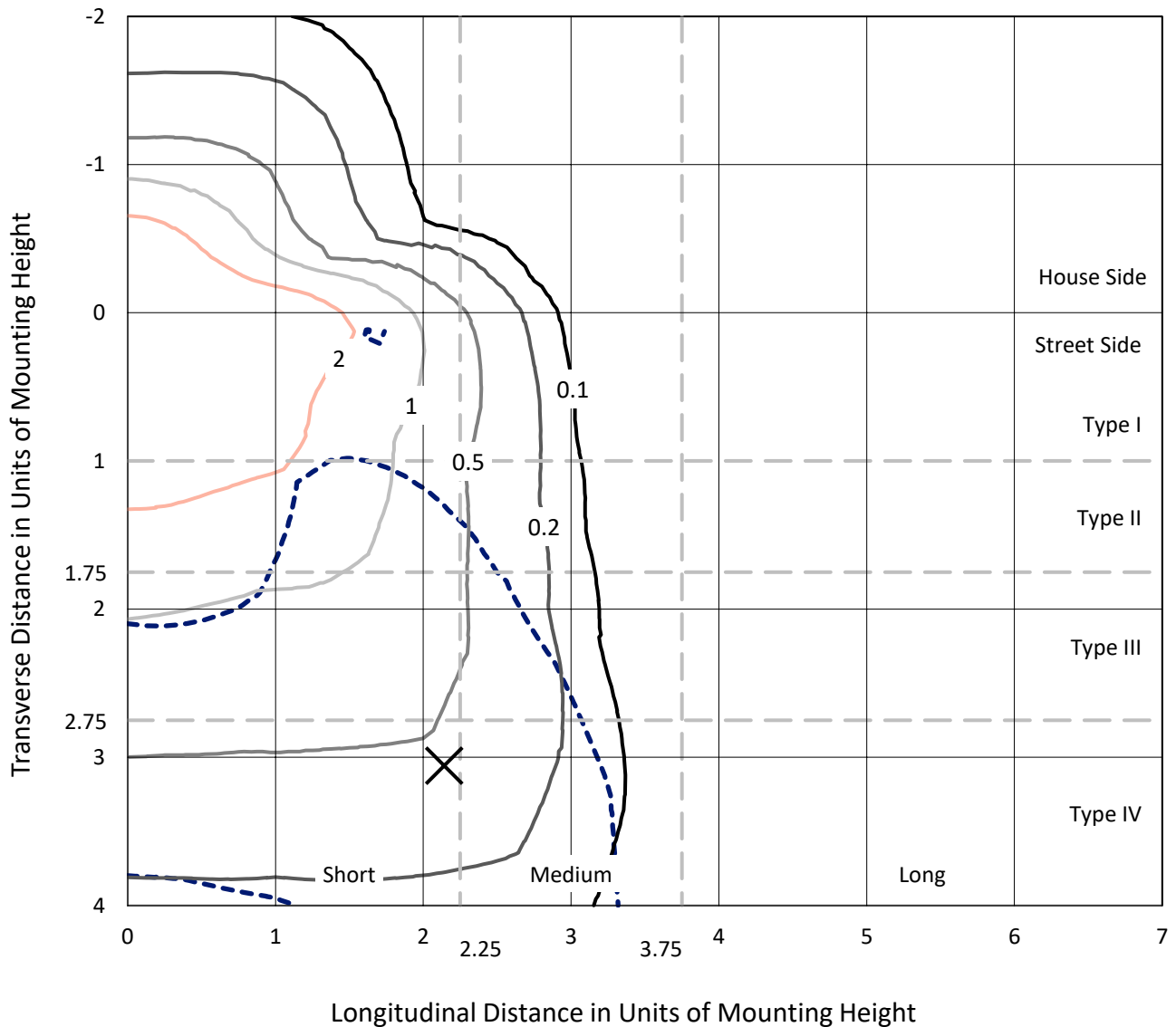
Lumens per Lamp: N/A  
Luminaire Lumens: 18963.5 lumens  
Efficiency: N/A  
Efficacy: 133.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): 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

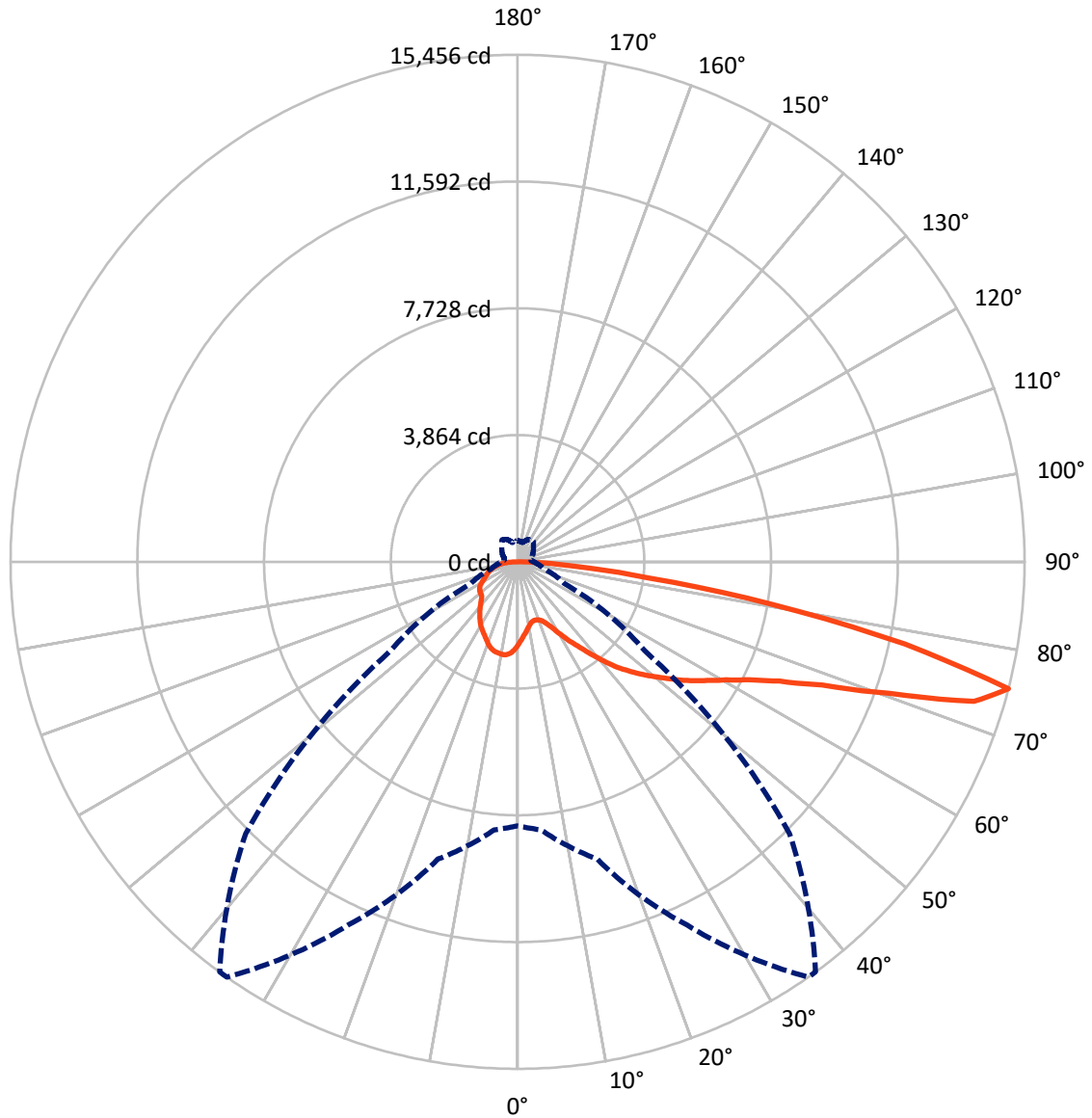
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4512.9	0.0	4512.9
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	14450.7	0.0	14450.7
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	18963.5	0.0	18963.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.3	1.3
10°-20°	690.1	3.6
20°-30°	1158.9	6.1
30°-40°	1801.1	9.5
40°-50°	2673.3	14.1
50°-60°	3690.6	19.5
60°-70°	4477.6	23.6
70°-80°	3700.4	19.5
80°-90°	532.2	2.8
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°	18963.5	100.0
0°-180°	18963.5	100.0

**Coefficient of Utilization**



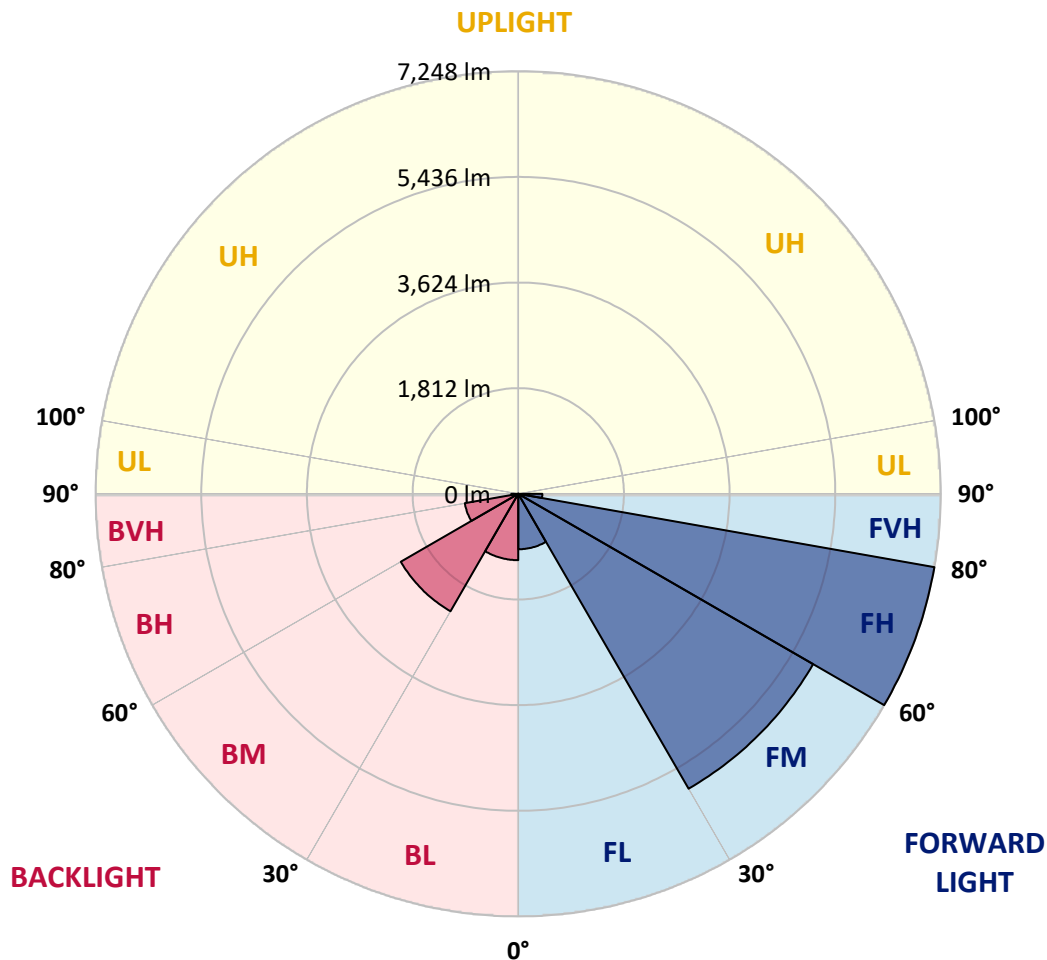
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	951.0	5.0			
FM (30°-60°)	5839.7	30.8			
FH (60°-80°)	7247.6	38.2			G3/7500
FVH (80°-90°)	412.4	2.2			G3/500
BL (0°-30°)	1137.3	6.0	B3/2500		
BM (30°-60°)	2325.3	12.3	B2/2500		
BH (60°-80°)	930.4	4.9	B2/1000		G2/1000
BVH (80°-90°)	119.8	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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	2527.0	2527.0	2527.0	2527.0	2527.0	2527.0	2527.0	2527.0	2527.0	2527.0	2527.0
2.5°	2330.2	2344.6	2350.7	2347.7	2363.0	2361.0	2382.5	2409.2	2446.1	2481.9	2534.2
5°	2150.8	2166.1	2179.5	2191.8	2221.5	2230.7	2264.5	2315.9	2383.5	2452.2	2538.3
7.5°	1983.7	1997.0	2017.5	2040.1	2090.3	2099.5	2155.9	2235.8	2330.2	2430.7	2549.6
10°	1847.4	1860.7	1882.2	1907.8	1970.4	1981.6	2053.4	2160.0	2283.0	2410.2	2561.9
12.5°	1788.9	1793.0	1805.3	1831.0	1885.3	1892.5	1971.4	2093.4	2236.9	2394.8	2580.3
15°	1785.9	1794.1	1795.1	1808.4	1853.5	1856.6	1929.4	2050.3	2208.2	2391.7	2608.0
17.5°	1816.6	1822.8	1813.5	1821.7	1859.7	1864.8	1922.2	2029.8	2198.9	2405.1	2655.2
20°	1898.6	1903.7	1876.1	1864.8	1892.5	1896.6	1952.9	2043.1	2208.2	2432.7	2719.7
22.5°	2072.9	2075.9	2008.3	1962.2	1964.2	1966.3	2015.5	2097.5	2244.0	2483.0	2801.7
25°	2344.6	2342.5	2234.8	2145.6	2094.4	2083.1	2115.9	2185.6	2304.5	2549.6	2907.3
27.5°	2662.3	2647.0	2539.3	2406.1	2294.3	2277.9	2270.7	2300.4	2390.7	2637.7	3036.6
30°	3021.2	3006.8	2890.9	2716.7	2561.9	2535.2	2467.6	2452.2	2518.8	2757.7	3215.9
32.5°	3414.8	3405.6	3267.2	3056.0	2848.9	2818.1	2704.4	2663.4	2715.6	2939.1	3466.0
35°	3744.9	3736.7	3621.8	3404.5	3151.4	3113.4	2997.6	2951.4	2978.1	3171.9	3793.1
37.5°	4043.2	4039.1	3940.7	3769.5	3508.1	3461.9	3331.8	3316.4	3311.3	3478.3	4189.8
40°	4320.1	4309.8	4207.2	4117.0	3923.3	3881.3	3766.5	3753.1	3714.2	3855.6	4638.8
42.5°	4626.5	4599.9	4451.3	4409.2	4357.0	4322.1	4253.3	4255.4	4169.3	4281.0	5114.5
45°	4876.6	4861.3	4708.5	4683.9	4740.3	4726.0	4785.4	4800.8	4633.7	4727.0	5608.7
47.5°	5145.3	5130.9	5001.8	4984.4	5137.1	5141.2	5351.3	5356.4	5086.9	5190.4	6103.8
50°	5476.4	5455.9	5327.7	5349.3	5520.4	5535.8	5920.3	5885.4	5504.0	5661.0	6594.8
52.5°	5694.8	5707.1	5679.4	5714.3	5948.0	5962.3	6480.0	6390.9	5917.2	6125.3	7076.7
55°	5855.7	5880.3	5966.4	6046.4	6399.1	6413.4	7008.0	6871.6	6259.6	6555.9	7529.8
57.5°	6062.8	6027.9	6188.8	6344.7	6827.5	6865.4	7521.6	7335.0	6563.1	6927.1	7840.4
60°	6360.1	6335.5	6460.6	6691.2	7307.3	7367.8	8064.9	7752.3	6785.5	7221.2	7900.9
62.5°	6962.9	6901.3	6920.9	7124.9	7912.2	7992.1	8678.0	8116.2	6896.2	7336.0	7576.9
65°	7864.0	7758.4	7660.0	7801.5	8764.1	8843.0	9369.9	8402.2	6855.2	7113.6	6716.8
67.5°	8998.9	8894.2	8773.3	8906.6	10018.9	10081.4	10224.0	8563.2	6532.3	6256.5	5196.5
70°	9934.8	9895.9	10040.4	10588.9	12023.0	12025.1	11318.8	8429.9	5647.6	4435.9	3006.8
72.5°	9810.8	9787.2	10548.9	12244.5	14549.1	14494.7	12355.2	7421.1	3804.4	2001.1	1126.7
75°	8048.5	8201.2	9381.2	12214.8	15456.3	15449.1	11720.7	4717.8	1573.6	829.3	582.3
77.5°	4316.0	4557.9	6090.4	9018.4	12066.1	12247.6	8240.3	1650.6	675.6	531.1	402.9
80°	1407.5	1618.7	2427.6	4591.7	7840.4	7806.6	3531.6	647.9	462.4	376.3	278.8
82.5°	597.7	622.3	1084.7	2168.2	4023.7	3961.2	1124.6	372.2	324.9	257.3	172.2
85°	233.7	261.4	478.8	1002.7	1742.8	1704.9	406.0	184.5	208.1	168.1	102.5
87.5°	76.9	93.3	171.2	343.5	542.3	522.9	99.4	63.6	90.2	76.9	36.9
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°	2527.0	2527.0	2527.0	2527.0	2527.0	2527.0	2527.0	2527.0	2527.0	2527.0	2527.0
2.5°	2548.6	2565.0	2584.4	2613.1	2637.7	2658.2	2679.8	2693.1	2698.2	2713.6	2712.6
5°	2567.0	2602.9	2651.1	2698.2	2744.3	2772.0	2796.6	2808.9	2820.2	2828.4	2830.4
7.5°	2597.8	2643.9	2719.7	2781.2	2820.2	2842.7	2859.1	2855.0	2859.1	2861.2	2864.3
10°	2624.4	2689.0	2779.2	2837.6	2867.3	2868.4	2864.3	2849.9	2842.7	2843.8	2845.8
12.5°	2656.2	2727.9	2825.3	2874.5	2882.7	2860.2	2842.7	2818.1	2808.9	2804.8	2802.8
15°	2699.2	2781.2	2875.5	2894.0	2873.5	2844.8	2815.1	2775.1	2754.6	2738.2	2743.3
17.5°	2751.5	2841.7	2914.5	2901.2	2857.1	2809.9	2761.8	2701.3	2659.3	2641.8	2642.9
20°	2824.3	2905.3	2944.2	2885.8	2819.2	2747.4	2665.4	2591.6	2552.7	2535.2	2533.2
22.5°	2912.4	2990.4	2973.0	2859.1	2764.8	2650.0	2547.5	2493.2	2473.7	2461.4	2463.5
25°	3018.1	3084.7	2993.5	2820.2	2675.7	2520.9	2442.0	2424.5	2415.3	2406.1	2406.1
27.5°	3155.5	3191.3	3008.9	2762.8	2536.3	2383.5	2354.8	2357.9	2354.8	2339.5	2342.5
30°	3336.9	3329.7	3023.2	2669.5	2376.4	2259.4	2261.5	2274.8	2276.8	2266.6	2271.7
32.5°	3575.7	3502.9	3030.4	2548.6	2223.5	2150.8	2152.8	2167.2	2177.4	2160.0	2168.2
35°	3864.9	3705.0	3019.1	2396.9	2105.7	2047.2	2031.9	2036.0	2039.0	2022.6	2033.9
37.5°	4202.1	3931.5	2968.9	2228.7	2008.3	1945.8	1913.0	1885.3	1868.9	1853.5	1863.8
40°	4572.2	4178.5	2876.6	2064.7	1899.6	1838.1	1788.9	1736.7	1681.3	1660.8	1670.0
42.5°	4959.8	4432.8	2764.8	1907.8	1774.6	1724.4	1672.1	1596.1	1513.1	1471.1	1476.2
45°	5361.6	4693.2	2655.2	1753.1	1646.4	1624.8	1564.4	1473.1	1382.9	1329.6	1325.5
47.5°	5755.3	4939.2	2494.2	1597.2	1526.4	1550.0	1502.9	1418.8	1318.4	1234.3	1225.1
50°	6131.4	5169.9	2230.7	1439.3	1429.1	1527.5	1482.4	1361.4	1246.6	1139.0	1129.8
52.5°	6504.6	5356.4	1893.5	1295.8	1376.8	1521.3	1455.7	1322.5	1182.0	1069.3	1057.0
55°	6821.4	5452.8	1568.5	1172.8	1300.9	1469.0	1423.9	1276.3	1090.8	970.8	960.5
57.5°	7001.9	5374.9	1297.9	1051.9	1196.4	1382.9	1369.6	1177.9	982.1	889.8	877.5
60°	6924.0	5059.2	1076.5	946.2	1097.0	1289.7	1275.3	1080.6	899.0	811.9	799.6
62.5°	6494.4	4457.4	901.1	853.9	1006.8	1194.3	1181.0	1005.7	835.5	751.4	738.1
65°	5629.2	3626.0	764.8	777.1	915.4	1079.5	1099.0	943.1	785.3	703.3	689.9
67.5°	4293.4	2626.5	658.2	710.4	826.3	966.7	1023.2	898.0	743.2	665.3	653.0
70°	2447.1	1491.6	568.0	645.9	747.3	862.1	964.6	862.1	698.1	633.6	625.4
72.5°	927.7	684.8	491.1	581.3	671.5	774.0	900.1	805.8	645.9	597.7	589.5
75°	495.2	417.3	413.2	505.4	584.4	687.9	819.1	750.4	606.9	631.5	652.0
77.5°	337.3	295.2	345.5	432.7	489.0	592.6	733.0	666.4	525.9	523.9	482.9
80°	233.7	209.1	280.8	348.6	378.3	498.3	639.7	572.1	428.6	399.9	382.4
82.5°	140.4	136.3	210.1	260.3	267.5	384.5	530.0	479.8	350.7	305.4	307.5
85°	76.9	81.0	134.3	152.7	155.8	268.5	415.2	371.2	269.6	226.5	228.6
87.5°	21.5	27.7	49.2	60.5	74.8	139.4	247.0	220.4	135.3	94.3	94.3
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)