

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: P884931

Luminaire Tested: **NAV-SB6A-722-U-T4FT**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P884931  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6A-722-U-T4FT  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

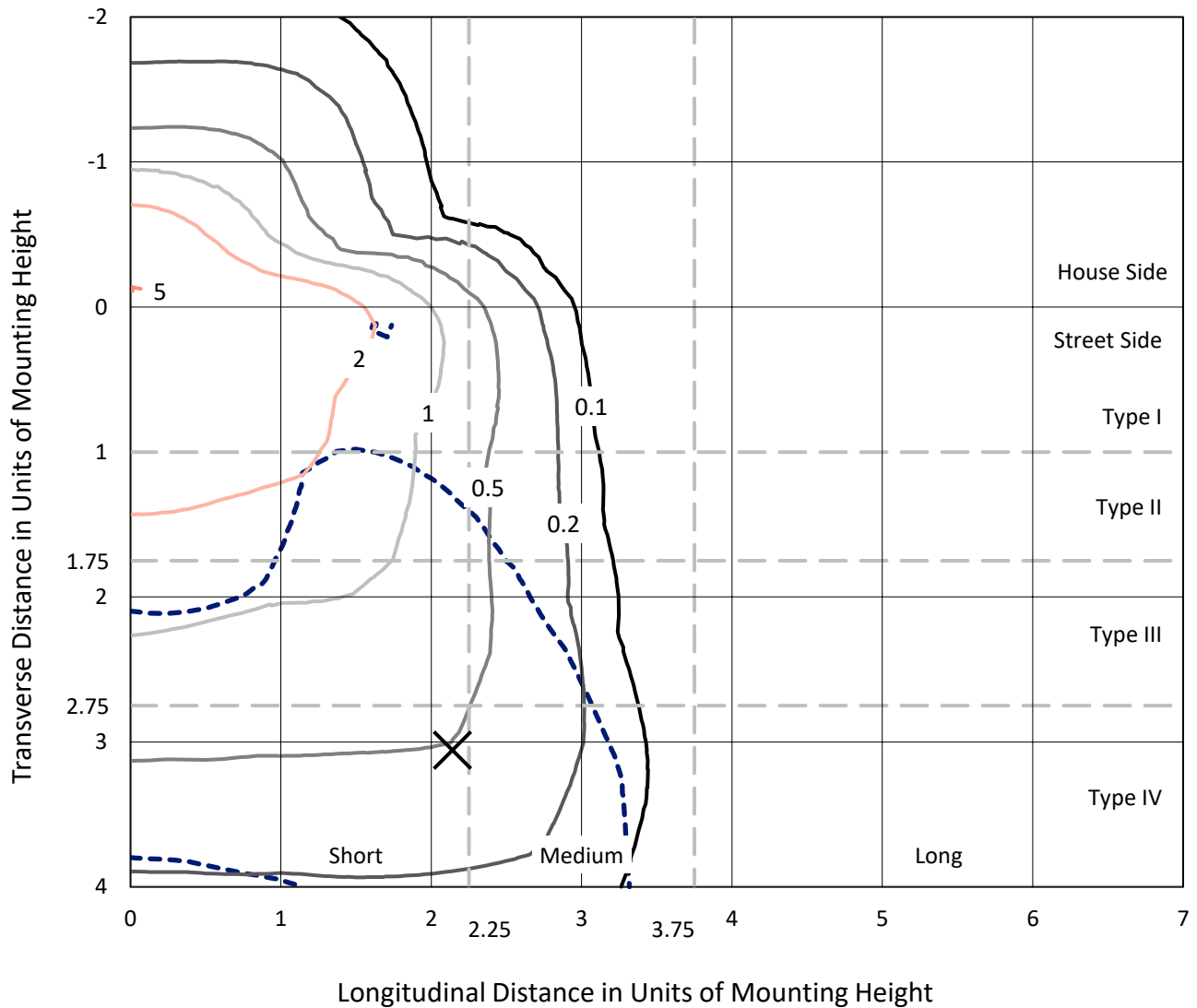
Lumens per Lamp: N/A  
Luminaire Lumens: 21444 lumens  
Efficiency: N/A  
Efficacy: 125.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 170.9  
Input Voltage (V): 120.0  
Input Current (Ain): 1.434  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 11.969  
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

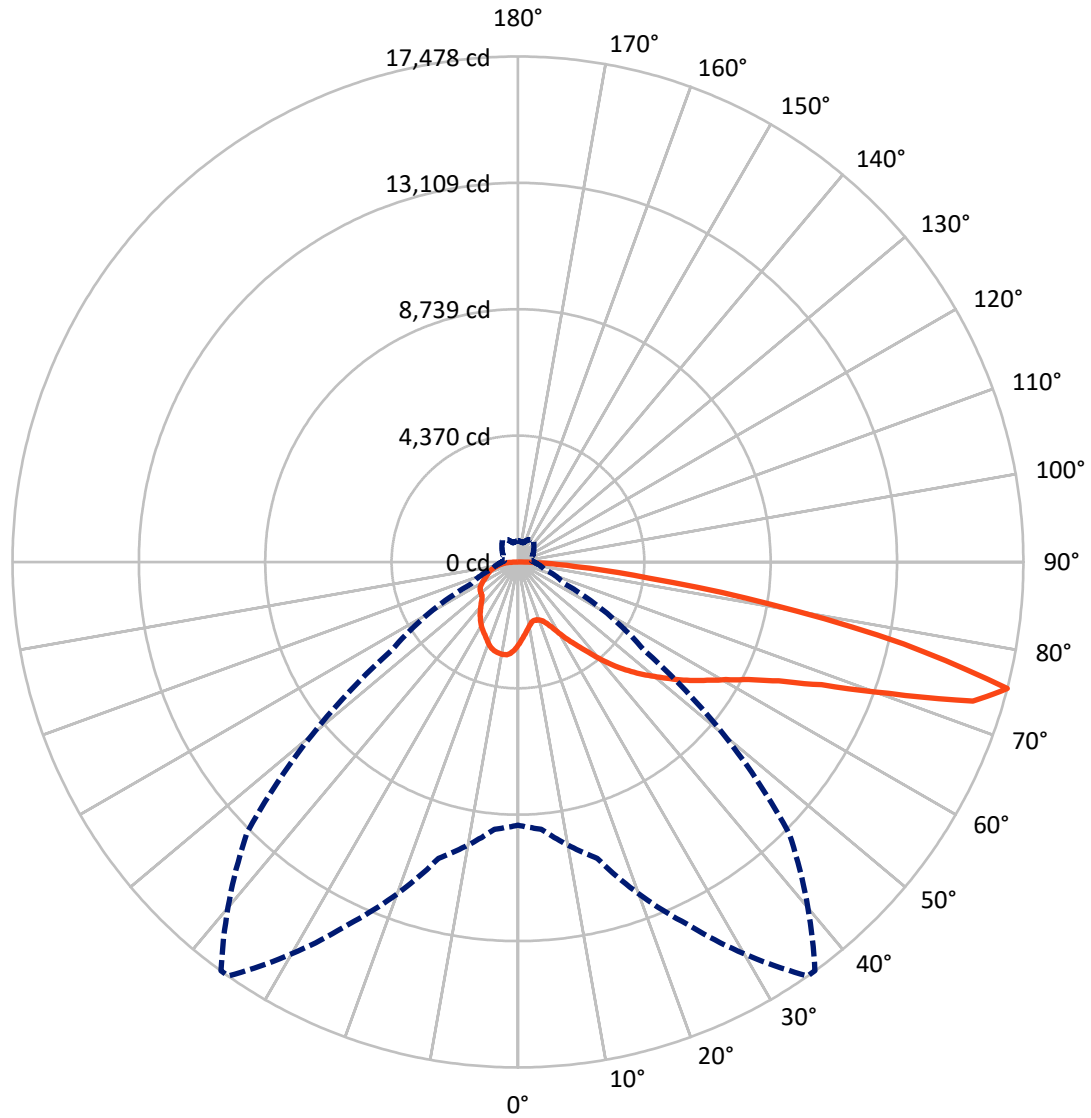
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type IV - Short - N/A

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CATALOG NUMBER: NAV-SB6A-722-U-T4FT

### 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	5103.1	0.0	5103.1
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	16340.9	0.0	16340.9
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	21444.0	0.0	21444.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	270.6	1.3
10°-20°	780.4	3.6
20°-30°	1310.5	6.1
30°-40°	2036.7	9.5
40°-50°	3023.0	14.1
50°-60°	4173.4	19.5
60°-70°	5063.3	23.6
70°-80°	4184.4	19.5
80°-90°	601.8	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°	21444.0	100.0
0°-180°	21444.0	100.0



REPORT NUMBER: P884931

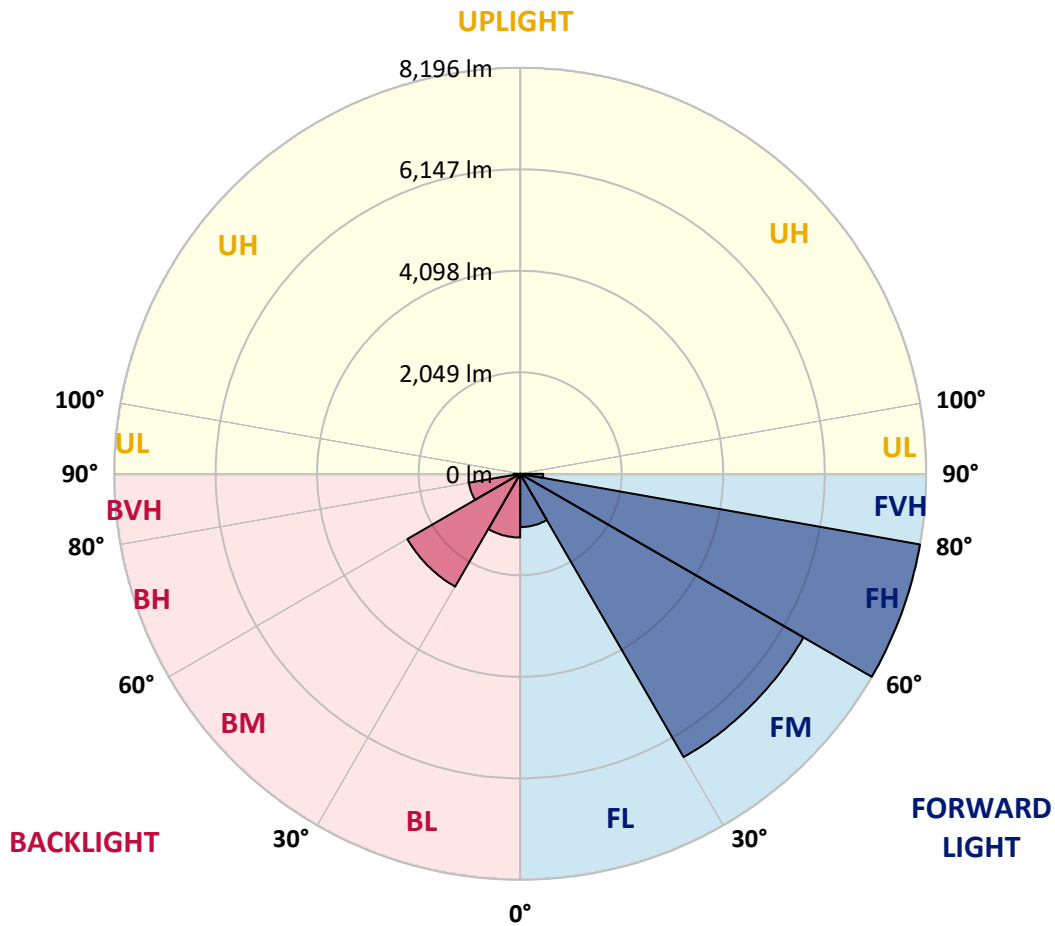
CATALOG NUMBER: NAV-SB6A-722-U-T4FT

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1075.4	5.0			
FM (30°-60°)	6603.6	30.8			
FH (60°-80°)	8195.6	38.2			G4/12000
FVH (80°-90°)	466.3	2.2			G3/500
BL (0°-30°)	1286.1	6.0	B3/2500		
BM (30°-60°)	2629.4	12.3	B3/5000		
BH (60°-80°)	1052.1	4.9	B3/2500		G3/2500
BVH (80°-90°)	135.5	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-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	2857.6	2857.6	2857.6	2857.6	2857.6	2857.6	2857.6	2857.6	2857.6	2857.6	2857.6
2.5°	2635.0	2651.2	2658.2	2654.7	2672.1	2669.8	2694.1	2724.2	2766.0	2806.6	2865.7
5°	2432.1	2449.5	2464.6	2478.5	2512.1	2522.5	2560.8	2618.8	2695.3	2772.9	2870.3
7.5°	2243.2	2258.2	2281.4	2306.9	2363.7	2374.1	2437.9	2528.3	2635.0	2748.6	2883.1
10°	2089.0	2104.0	2128.4	2157.4	2228.1	2240.8	2322.0	2442.5	2581.7	2725.4	2897.0
12.5°	2022.9	2027.5	2041.4	2070.4	2131.9	2140.0	2229.2	2367.2	2529.5	2708.0	2917.8
15°	2019.4	2028.7	2029.9	2044.9	2095.9	2099.4	2181.7	2318.5	2497.0	2704.5	2949.1
17.5°	2054.2	2061.2	2050.7	2060.0	2102.9	2108.7	2173.6	2295.3	2486.6	2719.6	3002.5
20°	2146.9	2152.7	2121.4	2108.7	2140.0	2144.6	2208.4	2310.4	2497.0	2750.9	3075.5
22.5°	2344.0	2347.5	2271.0	2218.8	2221.1	2223.4	2279.1	2371.8	2537.6	2807.7	3168.2
25°	2651.2	2648.9	2527.2	2426.3	2368.4	2355.6	2392.7	2471.5	2606.0	2883.1	3287.6
27.5°	3010.6	2993.2	2871.5	2720.8	2594.4	2575.9	2567.7	2601.4	2703.4	2982.8	3433.7
30°	3416.3	3400.1	3269.1	3072.0	2897.0	2866.8	2790.3	2772.9	2848.3	3118.4	3636.6
32.5°	3861.5	3851.0	3694.5	3455.7	3221.6	3186.8	3058.1	3011.7	3070.9	3323.6	3919.4
35°	4234.8	4225.5	4095.6	3849.9	3563.5	3520.7	3389.7	3337.5	3367.6	3586.7	4289.2
37.5°	4572.1	4567.5	4456.2	4262.6	3967.0	3914.8	3767.6	3750.2	3744.4	3933.3	4737.9
40°	4885.1	4873.5	4757.6	4655.6	4436.5	4388.9	4259.1	4244.0	4200.0	4359.9	5245.6
42.5°	5231.7	5201.6	5033.5	4985.9	4926.8	4887.4	4809.7	4812.1	4714.7	4841.0	5783.5
45°	5514.6	5497.2	5324.4	5296.6	5360.4	5344.2	5411.4	5428.8	5239.8	5345.3	6342.3
47.5°	5818.3	5802.1	5656.0	5636.3	5809.0	5813.7	6051.3	6057.1	5752.2	5869.3	6902.2
50°	6192.7	6169.5	6024.6	6049.0	6242.6	6260.0	6694.7	6655.3	6224.0	6401.4	7457.5
52.5°	6439.6	6453.6	6422.3	6461.7	6726.0	6742.2	7327.6	7226.8	6691.2	6926.5	8002.3
55°	6621.7	6649.5	6746.9	6837.3	7236.1	7252.3	7924.7	7770.5	7078.4	7413.4	8514.7
57.5°	6855.8	6816.4	6998.4	7174.6	7720.6	7763.5	8505.4	8294.5	7421.5	7833.1	8866.0
60°	7192.0	7164.2	7305.6	7566.4	8263.2	8331.5	9119.8	8766.3	7673.1	8165.8	8934.4
62.5°	7873.6	7804.1	7826.1	8056.8	8947.1	9037.5	9813.1	9177.8	7798.3	8295.6	8568.0
65°	8892.6	8773.2	8661.9	8821.9	9910.5	9999.7	10595.6	9501.2	7751.9	8044.1	7595.4
67.5°	10175.9	10057.7	9920.9	10071.6	11329.4	11400.1	11561.2	9683.2	7386.8	7074.9	5876.3
70°	11234.3	11190.3	11353.7	11973.9	13595.7	13598.0	12799.3	9532.5	6386.3	5016.1	3400.1
72.5°	11094.0	11067.4	11928.7	13846.1	16452.1	16390.7	13971.3	8391.8	4302.0	2262.9	1274.0
75°	9101.3	9274.0	10608.3	13812.5	17478.1	17469.9	13253.7	5334.9	1779.5	937.8	658.5
77.5°	4880.5	5154.0	6887.1	10197.9	13644.4	13849.6	9318.1	1866.4	763.9	600.5	455.6
80°	1591.7	1830.5	2745.1	5192.3	8866.0	8827.7	3993.6	732.6	522.8	425.4	315.3
82.5°	675.8	703.7	1226.5	2451.8	4550.1	4479.4	1271.7	420.8	367.5	291.0	194.8
85°	264.3	295.6	541.4	1133.7	1970.7	1927.8	459.1	208.7	235.3	190.1	115.9
87.5°	86.9	105.5	193.6	388.3	613.2	591.2	112.4	71.9	102.0	86.9	41.7
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°	2857.6	2857.6	2857.6	2857.6	2857.6	2857.6	2857.6	2857.6	2857.6	2857.6	2857.6
2.5°	2881.9	2900.5	2922.5	2954.9	2982.8	3005.9	3030.3	3045.4	3051.2	3068.5	3067.4
5°	2902.8	2943.3	2997.8	3051.2	3103.3	3134.6	3162.4	3176.4	3189.1	3198.4	3200.7
7.5°	2937.5	2989.7	3075.5	3145.1	3189.1	3214.6	3233.2	3228.5	3233.2	3235.5	3239.0
10°	2967.7	3040.7	3142.7	3208.8	3242.4	3243.6	3239.0	3222.7	3214.6	3215.8	3218.1
12.5°	3003.6	3084.8	3194.9	3250.5	3259.8	3234.3	3214.6	3186.8	3176.4	3171.7	3169.4
15°	3052.3	3145.1	3251.7	3272.6	3249.4	3216.9	3183.3	3138.1	3114.9	3096.4	3102.2
17.5°	3111.4	3213.4	3295.8	3280.7	3230.8	3177.5	3123.0	3054.6	3007.1	2987.4	2988.6
20°	3193.7	3285.3	3329.4	3263.3	3187.9	3106.8	3014.1	2930.6	2886.5	2866.8	2864.5
22.5°	3293.4	3381.5	3361.8	3233.2	3126.5	2996.7	2880.7	2819.3	2797.3	2783.4	2785.7
25°	3412.8	3488.2	3385.0	3189.1	3025.6	2850.6	2761.3	2741.6	2731.2	2720.8	2720.8
27.5°	3568.2	3608.8	3402.4	3124.2	2868.0	2695.3	2662.8	2666.3	2662.8	2645.4	2648.9
30°	3773.4	3765.3	3418.6	3018.7	2687.1	2555.0	2557.3	2572.4	2574.7	2563.1	2568.9
32.5°	4043.5	3961.2	3426.8	2881.9	2514.4	2432.1	2434.4	2450.7	2462.3	2442.5	2451.8
35°	4370.4	4189.5	3414.0	2710.3	2381.1	2315.0	2297.6	2302.3	2305.8	2287.2	2300.0
37.5°	4751.8	4445.7	3357.2	2520.2	2271.0	2200.3	2163.2	2131.9	2113.3	2095.9	2107.5
40°	5170.3	4725.1	3252.9	2334.7	2148.1	2078.5	2022.9	1963.8	1901.2	1878.0	1888.4
42.5°	5608.5	5012.6	3126.5	2157.4	2006.7	1949.9	1890.7	1805.0	1711.1	1663.5	1669.3
45°	6062.9	5307.1	3002.5	1982.3	1861.8	1837.4	1769.0	1665.8	1563.8	1503.6	1498.9
47.5°	6508.0	5585.3	2820.5	1806.1	1726.1	1752.8	1699.5	1604.4	1490.8	1395.7	1385.3
50°	6933.5	5846.1	2522.5	1627.6	1616.0	1727.3	1676.3	1539.5	1409.7	1287.9	1277.5
52.5°	7355.5	6057.1	2141.1	1465.3	1556.9	1720.3	1646.1	1495.4	1336.6	1209.1	1195.2
55°	7713.7	6166.1	1773.7	1326.2	1471.1	1661.2	1610.2	1443.3	1233.4	1097.8	1086.2
57.5°	7917.7	6078.0	1467.6	1189.4	1352.8	1563.8	1548.8	1332.0	1110.6	1006.2	992.3
60°	7829.6	5720.9	1217.2	1070.0	1240.4	1458.3	1442.1	1221.9	1016.7	918.1	904.2
62.5°	7343.9	5040.4	1019.0	965.7	1138.4	1350.5	1335.5	1137.2	944.8	849.7	834.7
65°	6365.5	4100.3	864.8	878.7	1035.2	1220.7	1242.7	1066.5	888.0	795.2	780.2
67.5°	4855.0	2970.0	744.2	803.4	934.4	1093.2	1156.9	1015.5	840.5	752.4	738.4
70°	2767.1	1686.7	642.2	730.3	845.1	974.9	1090.9	974.9	789.5	716.4	707.1
72.5°	1049.1	774.4	555.3	657.3	759.3	875.2	1017.8	911.2	730.3	675.8	666.6
75°	559.9	471.8	467.2	571.5	660.8	777.9	926.2	848.6	686.3	714.1	737.3
77.5°	381.4	333.9	390.7	489.2	553.0	670.0	828.9	753.5	594.7	592.4	546.0
80°	264.3	236.5	317.6	394.1	427.8	563.4	723.4	646.9	484.6	452.1	432.4
82.5°	158.8	154.2	237.6	294.5	302.6	434.7	599.3	542.5	396.5	345.5	347.8
85°	86.9	91.6	151.9	172.7	176.2	303.7	469.5	419.6	304.9	256.2	258.5
87.5°	24.3	31.3	55.6	68.4	84.6	157.7	279.4	249.2	153.0	106.7	106.7
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)